NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
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An ISO 9001:2015 Certified Institution.
Phone No: 04544- 246 500, 246501, 246502.
Website : www.nprcolleges.org, www.nprcet.org, Email:nprcetprincipal@nprcolleges.org

CRITERIA 1- CURRICULAR ASPECTS

KEY INDICATOR 1.2 ACADEMIC FLEXIBILITY

Metric No. –1.2.2 Number of Add on /Certificate programs offered during the last five years 2017 - 2018

S. No.	Department	Course Name	Page No.
1.	Department of Civil Engineering	TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING	2-31
		RENDERING MODELLING OF 3DS MAX	32-62
		ROAD DESIGN AND ANALYSIS BY MX ROAD SOFTWARE	63-91
		3D DESIGN BY USING GOOGLE SKETCH UPS	92-120
2.	Department of Computer Science and Engineering	SQL DATABASE	121-144
		CCNA	145-169
		CYBER SECURITY PROFESSIONAL	170-194
		AUTOMATED SOFTWARE TESTING IN JAVA	195-219
3.	Department of Electrical and Electronics Engineering	ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES	220-248
		WIRING AND WINDING	249-276
		POWER WORLD SIMULATOR	277-307
		LAB VIEW	308-335
4.	Department of Electronics and Communication Engineering	C PROGRAMMMING COURSE	336-360
		RASPBERRY PI	361-385
		JAVA PROGRAMMING	386-411
		PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING	412-436
5.	Department of Mechanical Engineering	COURSE ON SMITHY OPERATIONS	437-461
		REFRIGERATION MECHANISM	462-485
		COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS	486-510
		COURSE ON MAINTENANCE OF MACHINES	511-540
6.	Department of Master of Business Administration	DIGITAL MARKETING	541-563
		HR ANALYTICS	564-585
7.	Department of Science and Humanities	VERBAL COMMUNICATION -I	586-614

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

INDEX

COURSE NAME: **TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING**

COURSE CODE:**17CEAO01**

ACADEMIC YEAR: 2017-2018 SEMESTER: ODD DURATION: 45 HOURS

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4	COURSE CONTENT	5
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6	COURSE SCHEDULE	10
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PROGRAM COORDINATOR

HoD-CIVIL

IQAC

PRINCIPAL

Head of the Department
Department of Civil Engineering
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

PRINCIPAL
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

From

C. Navaneetha krishnan,
Assistant Professor
Department of Civil Engineering,
NPR College of Engineering & Technology
Natham.

Date :- 31/10/2017

To

The Principal
NPR College of Engineering & Technology
Natham.

Respected sir,

Sub:- Requesting for permission to conduct Add on course for Civil Engineering students - reg.

We have planned to conduct an add on course on "Pre-cast structures for steel & Concrete Detailing" to our Civil Engineering students from 20.11.2017 to 29.11.2017 & 45 hours in our college Premises. We are Mohamed faizel, software trainer, Hi-Tech cad-cam centre, Madurai & Madhumitha murali, software trainer, Hi Tech Cad-cam centre, Madurai as a resource person for this add on course program. Kindly permit to conduct the same.

Thanking you,

Yours truly,
C. Navaneetha krishnan

Place :- Natham.

NPR COLLEGE OF ENGG & TECHNOLOGY * NATHAM

Forwarded to principal

Head of the Department
Department of Civil Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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DEPARTMENT OF CIVIL ENGINEERING
ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING
CIRCULAR

NPRCET/OFF/CIVIL/VAC/2017-2018 DATE: 06.10.2017

This is to inform that Department of Civil Engineering is planned to conduct an Add On Course on "**TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING**" for the students during this end of Odd semester 2017-2018.Interested students can enroll their name to the program coordinator on or before 21.10.2017.

The details of the training program are given below.

COURSE NAME	TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING
RESOURCE PERSONS	1.Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai 2.Ms.Madhumitha murali, Software Trainer, Hi-Tech CAD-Cam centre,Madurai
VENUE	Computer Aided Design & Drafting Laboratory, NPR College of Engineering &Technology, Natham
DATE & DURATION	20.11.2017 to 28.11.2017 & 45 hours
PROGRAM COORDINATOR	Mr.C.Navaneethakrishnan,Assistant Professor,NPRCET

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Natham, Dindigul (Dt) - 624 401

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"ADD ON COURSE ON "

TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

on 20th November,2017

Venue: Computer Aided Design & Drafting Laboratory at 9.00 A.M.

Chief Guest

Mr.J.Mohammed Faizel,

Software Trainer,

Hi-Tech CAD-Cam centre,Madurai

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Civil Engineering,

NPR College of Engineering and Technology,

NPR Nagar, Natham.



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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE

17CEAO01- TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

COURSE CONTENT

CHAPTER	TOPICS TO BE DISCUSSED
1	Introduction to Tekla Structures Basic 3D Modelling Basic of working with drawings System Components
2	Interactive Modelling& Building Custom Components, Modelling Techniques Structural Profiles and materials Numbering and reports Principles of working with drawings
3	Creating General arrangements drawings Creating Assembly Drawings Creating Single Part Drawings Creating Anchor Bolt Plans
4	Multi Drawings and multi numbering Revision Control and Drawing Management Modelling Stairs & handrails Extracting Bill of Material
5	Auto Defaults & Auto Connections Profile sketching / Symbol editor Template Editor, Reports, Layouts Importing attributes Customization (ini files, Objects.inp, privilages.inp)
6	Working with Catalogs Master Drawing Catalog Drawing Classifier

Criteria to get Certificate:

- Students should register their names for this course.
- Students must have 75 % attendance.
- Student should secure 50% marks in the Exam.

Prepared by- Mr.C.Navaneethakrishnan,AP/Civil,NPRCET

Approved by,

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HoD/CIVIL

Head of the Department
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Coordinator - IQAC
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

REGISTERED STUDENTS NAME LIST

S.NO	REGISTERNUMBER	STUDENT NAME	YEAR/CIVIL
1	920814103001	Abdul Malik. A	IV-CIVIL
2	920814103002	Aishwarya.T.S	IV-CIVIL
3	920814103003	Ajith.L	IV-CIVIL
4	920814103004	Ajithkumar.U	IV-CIVIL
5	920814103005	AjithKumar.K	IV-CIVIL
6	920814103006	AjithKumar.M	IV-CIVIL
7	920814103007	Alagusundaram.N	IV-CIVIL
8	920814103008	Anubama.S	IV-CIVIL
9	920814103009	Aravind.E	IV-CIVIL
10	920814103010	Aravind.M	IV-CIVIL
11	920814103011	Aravindmatthews.S	IV-CIVIL
12	920814103012	Ariharasudhan.K	IV-CIVIL
13	920814103013	ArockiaDass.S	IV-CIVIL
14	920814103014	Ashok.J	IV-CIVIL
15	920814103015	Balagangatharan.J	IV-CIVIL
16	920814103016	Balaji.G.K	IV-CIVIL
17	920814103017	Balamurugan.K	IV-CIVIL
18	920814103018	Daniel Roche.D	IV-CIVIL
19	920814103019	DayaGowridaran.M	IV-CIVIL
20	920814103020	Deepa.N	IV-CIVIL
21	920814103021	Deepak.K	IV-CIVIL
22	920814103022	Deepak.P	IV-CIVIL
23	920814103024	Deva.R	IV-CIVIL
24	920814103026	Dhineshwaran.G	IV-CIVIL
25	920814103027	Geetha.M	IV-CIVIL
26	920814103028	Gokulraj.S	IV-CIVIL
27	920814103029	Gopinath.K	IV-CIVIL
28	920814103031	HariPrasath.K	IV-CIVIL
29	920814103032	HariRaj.A	IV-CIVIL
30	920814103033	HariVignesh.B	IV-CIVIL
31	920814103034	Hemalatha.S.D	IV-CIVIL
32	920814103035	InamulHassain.S	IV-CIVIL
33	920814103036	Indhumathi.V	IV-CIVIL
34	920814103037	Ishwarya.G	IV-CIVIL

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35	920814103038	Jayakumar.R	IV-CIVIL
36	920814103039	Jeevanandham.S	IV-CIVIL
37	920814103040	Kaleeswari.K	IV-CIVIL
38	920814103041	Kamali.N	IV-CIVIL
39	920814103043	Karthikeyan.K	IV-CIVIL
40	920814103044	KarthikRajan.S	IV-CIVIL
41	920814103045	Karuppasamy.M	IV-CIVIL
42	920814103046	Kishore.R	IV-CIVIL
43	920814103047	Lavanya.G	IV-CIVIL
44	920814103048	MahaboobIkram.A	IV-CIVIL
45	920814103049	Mani Ragul.M	IV-CIVIL
46	920814103050	Marudhupandi.V	IV-CIVIL
47	920814103051	Meenakshi.V	IV-CIVIL
48	920814103052	MithruDeepak.V.R.	IV-CIVIL
49	920814103054	Mohammed Arief.A	IV-CIVIL
50	920814103055	Mohammed Raafi.S	IV-CIVIL
51	920814103056	Mohammed Yasar.A	IV-CIVIL
52	920814103057	Murugan.P	IV-CIVIL
53	920814103059	Muthukkumar.N	IV-CIVIL
54	920814103060	MuthuKrishnan.P	IV-CIVIL
55	920814103061	Muthukumar.V	IV-CIVIL
56	920814103301	S.AhmedSulthanAlauddin	IV-CIVIL
57	920814103302	Ajithjavid.J	IV-CIVIL
58	920814103303	G.Ajith Kumar	IV-CIVIL
59	920814103304	S.Akshaya	IV-CIVIL
60	920814103305	Balaji.B	IV-CIVIL
61	920814103308	R.Karthik Raja	IV-CIVIL
62	920814103502	A.Andrew Joseph	IV-CIVIL
63	920814103062	Naganathasivasethupathi.M	IV-CIVIL
64	920814103063	Nandhini.R	IV-CIVIL
65	920814103064	Navaneedhakumar.M	IV-CIVIL
66	920814103065	Navasakthi.R	IV-CIVIL
67	920814103066	Pandiaraj.R	IV-CIVIL
68	920814103067	PandiMeena.T	IV-CIVIL
69	920814103069	Parthipan.A	IV-CIVIL
70	920814103070	Pavithra.K	IV-CIVIL
71	920814103071	Perumal.N	IV-CIVIL
72	920814103072	PradeepKumar.G	IV-CIVIL
73	920814103073	Pradeesh.P	IV-CIVIL

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74	920814103074	Prasanth.S	IV-CIVIL
75	920814103075	PremNivas.D	IV-CIVIL
76	920814103076	Ragavan.S	IV-CIVIL
77	920814103077	Rahavi.S	IV-CIVIL
78	920814103078	Rahul.P	IV-CIVIL
79	920814103079	Rajaashokkumar S	IV-CIVIL
80	920814103081	Rajavelu.V.R	IV-CIVIL
81	920814103082	Rajesh .K	IV-CIVIL
82	920814103083	Rajesh.M	IV-CIVIL
83	920814103084	Ramprasath.K.M	IV-CIVIL
84	920814103085	Ramprasath.N	IV-CIVIL
85	920814103086	RanjithKumar.R	IV-CIVIL
86	920814103087	RubaVignesh.K	IV-CIVIL
87	920814103088	Sadhasivam.M	IV-CIVIL
88	920814103089	Samuel.A	IV-CIVIL
89	920814103090	Saravanan.T	IV-CIVIL
90	920814103091	Sarojini.J	IV-CIVIL
91	920814103092	Sashikumar.M	IV-CIVIL
92	920814103093	SasiKumar.A	IV-CIVIL
93	920814103094	Sathyaseelan.M	IV-CIVIL
94	920814103095	SevugaPerumal.D	IV-CIVIL
95	920814103096	ShekAbdulla.A	IV-CIVIL
96	920814103097	SindhuShree.K	IV-CIVIL
97	920814103098	Siva Ganesh.N	IV-CIVIL
98	920814103099	Siva Sangar.M	IV-CIVIL
99	920814103100	Stalin GnanaPrakash.M	IV-CIVIL
100	920814103101	Subramaniyan.N	IV-CIVIL
101	920814103102	Sudhakar.C	IV-CIVIL
102	920814103103	Sudharsan.K	IV-CIVIL
103	920814103104	SuhirthaJothi.M	IV-CIVIL
104	920814103105	Sujitha.P	IV-CIVIL
105	920814103106	Surendar.R	IV-CIVIL
106	920814103107	Syed AareifAhamed.M	IV-CIVIL
107	920814103108	Thamizharasan.S	IV-CIVIL
108	920814103109	TharunKumar.A.B	IV-CIVIL
109	920814103110	Thirukumar.G	IV-CIVIL
110	920814103111	Vasanth.A	IV-CIVIL
111	920814103112	VasanthaKumar.K	IV-CIVIL

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112	920814103113	Vasanthi.S	IV-CIVIL
113	920814103114	Venkateshan.R	IV-CIVIL
114	920814103115	Venkateshwaran.M	IV-CIVIL
115	920814103116	Vignesh.R	IV-CIVIL
116	920814103117	Vijay.G	IV-CIVIL
117	920814103118	VinothKumar.K	IV-CIVIL
118	920814103119	Vishnu.R	IV-CIVIL
119	920814103120	Yogaraj.S	IV-CIVIL
120	920814103121	Yuvaraj.G	IV-CIVIL
121	920814103307	Gobinath.J	IV-CIVIL
122	920814103309	Mani.P	IV-CIVIL
123	920814103310	Rajapandi.S	IV-CIVIL
124	920814103312	Sivakumar .V	IV-CIVIL
125	920814103313	Venkatesh.N	IV-CIVIL
126	920814103314	Vignesh.T	IV-CIVIL
127	920817413001	S.KayalVizhi	II-ME
128	920817413002	MadhumithaMurali	II-ME
129	920817413003	S.Poornimadevi	II-ME

PROGRAM COORDINATOR

HOD-CIVIL

Head of the Department
Department of Civil Engineering
NPR College of Engineering & Technology
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

COURSE SCHEDULE

Date: 06.10.2017

Day 1 20.11.2017	9.00 a.m. to 9.30 a.m.	Inauguration-Mr.B.Maruthukannan,Principal,NPRCET	
	09. 30 a.m. to 11.30 a.m.	Session 1	Introduction to Tekla Structures Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai.
	11.30 a.m to 11.45 a.m	*Tea Break*	
	11.45 a.m to 1.15 p.m	Session 2	Basic 3D Modelling Mr.C.Navaneethakrishnan,Assistant Professor
	1.15 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to 3.30 p.m	Session 3	Basic of working with drawings Mr.C.Navaneethakrishnan,Assistant Professor
	3.30 p.m to 3.45 p.m	*Tea Break*	
	3.45 p.m to 4.15 p.m	Session 4	Basic of working with drawings Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai

Day 2 21.11.2017	9. 00 a.m. to 11.30 a.m.	Session 1	System Components Ms.Madhumitha murali, Software Trainer, Hi-Tech CAD-Cam centre,Madurai
	11.30 a.m to 11.45 a.m	*Tea Break*	
	11.45 a.m to 1.15 p.m	Session 2	Interactive Modelling Mr.C.Navaneethakrishnan,Assistant Professor
	1.15 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to 3.30 p.m	Session 3	Building Custom Components, Modelling Techniques Ms.Madhumitha murali, Software Trainer, Hi-Tech CAD-Cam centre,Madurai
	3.30 p.m to 3.45 p.m	*Tea Break*	
	3.45 p.m to 4.15 p.m	Session 4	Structural Profiles and materials Ms.Madhumitha murali, Software Trainer, Hi-Tech CAD-Cam centre,Madurai

Day 3 22.11.2017	9. 00 a.m. to 11.30 a.m.	Session 1	Numbering and reports Mr.C.Navaneethakrishnan,Assistant Professor
	11.30 a.m to 11.45 a.m	*Tea Break*	
	11.45 a.m to 1.15 p.m	Session 2	Principles of working with drawings Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai
	1.15 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to 3.30 p.m	Session 3	Principles of working with drawings Mr.C.Navaneethakrishnan,AP/Civil,NPRCET
	3.30 p.m to 3.45 p.m	*Tea Break*	

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	3.45 p.m to 4.15 p.m	Session 4	Creating General arrangements drawings Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai

Day 4 23.11.2017	9. 00 a.m. to 11.30 a.m.	Session 1	Creating Assembly Drawings Ms.Madhumitha murali, Software Trainer, Hi-Tech CAD-Cam centre,Madurai
	11.30 a.m to 11.45 a.m	*Tea Break*	
	11.45 a.m to 1.15 p.m	Session 2	Creating Single Part Drawings Mr.C.Navaneethakrishnan,Assistant Professor
	1.15 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to 3.30 p.m	Session 3	Creating Single Part Drawings Ms.Madhumitha murali, Software Trainer, Hi-Tech CAD-Cam centre,Madurai
	3.30 p.m to 3.45 p.m	*Tea Break*	
	3.45 p.m to 4.15 p.m	Session 4	Creating Anchor Bolt Plans Mr.C.Navaneethakrishnan,Assistant Professor

Day 5 24.11.2017	9. 00 a.m. to 11.30 a.m.	Session 1	Multi Drawings and multi numbering Mr.C.Navaneethakrishnan,Assistant Professor
	11.30 a.m to 11.45 a.m	*Tea Break*	
	11.45 a.m to 1.15 p.m	Session 2	Revision Control and Drawing Management Mr.C.Navaneethakrishnan,Assistant Professor
	1.15 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to 3.30 p.m	Session 3	Modelling Stairs & handrails Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai
	3.30 p.m to 3.45 p.m	*Tea Break*	
	3.45 p.m to 4.15 p.m	Session 4	Modelling Stairs & handrails Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai

Day 6 25.11.2017	9. 00 a.m. to 11.30 a.m.	Session 1	Extracting Bill of Material Mr.C.Navaneethakrishnan,Assistant Professor
	11.30 a.m to 11.45 a.m	*Tea Break*	
	11.45 a.m to 1.15 p.m	Session 2	Auto Defaults & Auto Connections Mrs.C.Selvi,Assistant Professor
	1.15 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to 3.30 p.m	Session 3	Profile sketching / Symbol editor Mr.C.Navaneethakrishnan,Assistant Professor
	3.30 p.m to 3.45 p.m	*Tea Break*	
	3.45 p.m to 4.15 p.m	Session 4	Profile sketching / Symbol editor Mrs.C.Selvi,Assistant Professor

Day 7 27.11.2017	9. 00 a.m. to 11.30 a.m.	Session 1	Template Editor, Reports, Layouts Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai

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	11.30 a.m to 11.45 a.m	*Tea Break*	
	11.45 a.m to 1.15 p.m	Session 2	Template Editor, Reports, Layouts Mr.C.Navaneethakrishnan,Assistant Professor
	1.15 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to 3.30 p.m	Session 3	Importing attributes Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai
	3.30 p.m to 3.45 p.m	*Tea Break*	
	3.45 p.m to 4.15 p.m	Session 4	Customization (ini files, Objects.inp, privilages.inp) Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai

Day 8 28.11.2017	09. 00 a.m. to 10.30 a.m.	Session 1	Working with Catalogs Mr.J.Mohammed Faizel,Software Trainer, Hi-Tech CAD-Cam centre,Madurai
	10.30 a.m. to 10.45 a.m.	*Tea Break*	
	10.45 a.m to 12.15 p.m	Session 2	Master Drawing Catalog, Drawing Classifier Mr.C.Navaneethakrishnan,Assistant Professor
	12.15 p.m. to 12.40 p.m.	VALEDICTORY-Mr.V.Muthukumar,HOD-Civil-NPRCET	

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PROGRAM COORDINATOR | **HoD-CIVIL** | **IQAC** | **PRINCIPAL**

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

STUDENT ATTENDANCE

S.NO	ROLL NO.	STUDENT NAME	YEAR/CIVIL	20/11	21/11	22/11	23/11	24/11	25/11	27/11	28/11
1	17CEAO01001	Abdul Malik. A	IV-CIVIL	/	/	/	/	/	/	/	/
2	17CEAO01002	Aishwarya.T.S	IV-CIVIL	/	/	/	/	/	/	/	/
3	17CEAO01003	Ajith.L	IV-CIVIL	a	a	a	a	a	a	a	a
4	17CEAO01004	Ajithkumar.U	IV-CIVIL	a	a	a	a	a	a	a	a
5	17CEAO01005	AjithKumar.K	IV-CIVIL	/	/	/	a	/	/	/	/
6	17CEAO01006	AjithKumar.M	IV-CIVIL	/	/	/	/	/	/	/	a
7	17CEAO01007	Alagusundaram.N	IV-CIVIL	/	/	/	/	/	/	/	/
8	17CEAO01008	Anubama.S	IV-CIVIL	/	/	/	/	/	/	/	/
9	17CEAO01009	Aravind.E	IV-CIVIL	/	a	/	/	/	/	/	/
10	17CEAO01010	Aravind.M	IV-CIVIL	/	/	a	/	/	/	/	/
11	17CEAO01011	Aravindmatthews.S	IV-CIVIL	/	/	/	/	/	/	/	a
12	17CEAO01012	Ariharasudhan.K	IV-CIVIL	/	/	/	/	/	/	a	/
13	17CEAO01013	ArockiaDass.S	IV-CIVIL	/	/	/	/	/	/	/	/
14	17CEAO01014	Ashok.J	IV-CIVIL	/	/	a	/	/	/	/	/
15	17CEAO01015	Balagangatharan.J	IV-CIVIL	/	/	/	/	/	/	/	/
16	17CEAO01016	Balaji.G.K	IV-CIVIL	a	a	a	a	a	a	a	a
17	17CEAO01017	Balamurugan.K	IV-CIVIL	a	a	a	a	a	a	a	a
18	17CEAO01018	Daniel Roche.D	IV-CIVIL	/	/	/	/	a	/	/	/
19	17CEAO01019	DayaGowridaran.M	IV-CIVIL	/	/	/	/	/	a	/	/
20	17CEAO01020	Deepa.N	IV-CIVIL	/	/	/	/	/	/	a	/
21	17CEAO01021	Deepak.K	IV-CIVIL	/	/	a	/	/	/	/	/
22	17CEAO01022	Deepak.P	IV-CIVIL	/	/	/	/	/	/	/	a
23	17CEAO01023	Deva.R	IV-CIVIL	/	/	/	/	/	/	/	/
24	17CEAO01024	Dhineshwaran.G	IV-CIVIL	/	/	/	/	/	/	/	/
25	17CEAO01025	Geetha.M	IV-CIVIL	/	a	/	/	/	/	/	/
26	17CEAO01026	Gokulraj.S	IV-CIVIL	/	/	/	/	/	/	/	/
27	17CEAO01027	Gopinath.K	IV-CIVIL	/	/	/	/	/	/	/	/
28	17CEAO01028	HariPrasath.K	IV-CIVIL	/	/	/	/	/	/	/	/
29	17CEAO01029	HariRaj.A	IV-CIVIL	/	a	/	/	/	/	/	/
30	17CEAO01030	HariVignesh.B	IV-CIVIL	/	/	/	/	/	/	/	/
31	17CEAO01031	Hemalatha.S.D	IV-CIVIL	/	/	a	/	/	/	/	/
32	17CEAO01032	InamulHassain.S	IV-CIVIL	/	/	/	/	/	/	/	/
33	17CEAO01033	Indhumathi.V	IV-CIVIL	/	/	/	/	/	/	/	/
34	17CEAO01034	Ishwarya.G	IV-CIVIL	/	/	/	/	/	/	/	/

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35	17CEAO01035	Jayakumar.R	IV-CIVIL								
36	17CEAO01036	Jeevanandham.S	IV-CIVIL								
37	17CEAO01037	Kaleeswari.K	IV-CIVIL								
38	17CEAO01038	Kamali.N	IV-CIVIL								
39	17CEAO01039	Karthikeyan.K	IV-CIVIL								
40	17CEAO01040	KarthikRajan.S	IV-CIVIL								
41	17CEAO01041	Karuppasamy.M	IV-CIVIL								
42	17CEAO01042	Kishore.R	IV-CIVIL								
43	17CEAO01043	Lavanya.G	IV-CIVIL								
44	17CEAO01044	MahaboobIkram.A	IV-CIVIL								
45	17CEAO01045	Mani Ragul.M	IV-CIVIL								
46	17CEAO01046	Marudhupandi.V	IV-CIVIL								
47	17CEAO01047	Meenakshi.V	IV-CIVIL								
48	17CEAO01048	MithruDeepak.V.R.	IV-CIVIL								
49	17CEAO01049	Mohammed Arief.A	IV-CIVIL								
50	17CEAO01050	Mohammed Raafi.S	IV-CIVIL								
51	17CEAO01051	Mohammed Yasar.A	IV-CIVIL								
52	17CEAO01052	Murugan.P	IV-CIVIL								
53	17CEAO01053	Muthukkumar.N	IV-CIVIL								
54	17CEAO01054	MuthuKrishnan.P	IV-CIVIL								
55	17CEAO01055	Muthukumar.V	IV-CIVIL								
56	17CEAO01056	S.AhmedSulthanAlauddin	IV-CIVIL								
57	17CEAO01057	Ajithjavid.J	IV-CIVIL								
58	17CEAO01058	G.Ajith Kumar	IV-CIVIL								
59	17CEAO01059	S.Akshaya	IV-CIVIL								
60	17CEAO01060	Balaji.B	IV-CIVIL								
61	17CEAO01061	R.Karthik Raja	IV-CIVIL								
62	17CEAO01062	A.Andrew Joseph	IV-CIVIL								
63	17CEAO01063	Naganathasivasethupathi.M	IV-CIVIL								
64	17CEAO01064	Nandhini.R	IV-CIVIL								
65	17CEAO01065	Navaneedhakumar.M	IV-CIVIL								
66	17CEAO01066	Navasakthi.R	IV-CIVIL								
67	17CEAO01067	Pandiaraj.R	IV-CIVIL								
68	17CEAO01068	PandiMeena.T	IV-CIVIL								
69	17CEAO01069	Parthipan.A	IV-CIVIL								
70	17CEAO01070	Pavithra.K	IV-CIVIL								
71	17CEAO01071	Perumal.N	IV-CIVIL								
72	17CEAO01072	PradeepKumar.G	IV-CIVIL								
73	17CEAO01073	Pradeesh.P	IV-CIVIL								
74	17CEAO01074	Prasanth.S	IV-CIVIL								

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75	17CEAO01075	PremNivas.D	IV-CIVIL	/	A	/	/	/	/	/	/
76	17CEAO01076	Ragavan.S	IV-CIVIL	/	/	/	A	/	/	/	/
77	17CEAO01077	Rahavi.S	IV-CIVIL	/	/	/	/	A	/	/	/
78	17CEAO01078	Rahul.P	IV-CIVIL	/	A	/	/	/	/	/	/
79	17CEAO01079	Rajaashokkumar S	IV-CIVIL	/	/	A	/	/	/	/	/
80	17CEAO01080	Rajavelu.V.R	IV-CIVIL	/	/	/	/	/	/	A	/
81	17CEAO01081	Rajesh .K	IV-CIVIL	/	/	/	/	/	/	/	/
82	17CEAO01082	Rajesh.M	IV-CIVIL	/	/	/	/	/	/	/	/
83	17CEAO01083	Ramprasath.K.M	IV-CIVIL	/	/		/	/	/	/	A
84	17CEAO01084	Ramprasath.N	IV-CIVIL	/	/	/		/	/	/	/
85	17CEAO01085	RanjithKumar.R	IV-CIVIL	/	/	A	/	/	/	/	/
86	17CEAO01086	RubaVignesh.K	IV-CIVIL	/	/	/	/	A	/	/	/
87	17CEAO01087	Sadhasivam.M	IV-CIVIL	/	/	/	/	/	/	/	/
88	17CEAO01088	Samuel.A	IV-CIVIL	/	/	A	/	/	/	/	/
89	17CEAO01089	Saravanan.T	IV-CIVIL	/	/	/	/	/	/	A	/
90	17CEAO01090	Sarojini.J	IV-CIVIL	/	/	/	/	/	/	/	/
91	17CEAO01091	Sashikumar.M	IV-CIVIL	/	/	/	/	/	A	/	/
92	17CEAO01092	SasiKumar.A	IV-CIVIL	A	/	/	/	/	/	/	/
93	17CEAO01093	Sathyaseelan.M	IV-CIVIL	/	/	/	/	/	/	/	/
94	17CEAO01094	SevugaPerumal.D	IV-CIVIL	/	/	/	A	/	/	/	/
95	17CEAO01095	ShekAbdulla.A	IV-CIVIL	A	/	/	/	/	/	/	/
96	17CEAO01096	SindhuShree.K	IV-CIVIL	/	/	/	/	A	/	/	/
97	17CEAO01097	Siva Ganesh.N	IV-CIVIL	/	/	/	/	/	/	/	A
98	17CEAO01098	Siva Sangar.M	IV-CIVIL		/	/	/	/	/	/	/
99	17CEAO01099	Stalin GnanaPrakash.M	IV-CIVIL	/	/	/	/	/	O	/	/
100	17CEAO01100	Subramaniyan.N	IV-CIVIL	/	/	/	/	/	/	/	/
101	17CEAO01101	Sudhakar.C	IV-CIVIL	/	/	/	/	/	/	/	/
102	17CEAO01102	Sudharsan.K	IV-CIVIL	/	/	/	/	/	/	A	/
103	17CEAO01103	SuhirthaJothi.M	IV-CIVIL	A	/	/	/	/	/	/	A
104	17CEAO01104	Sujitha.P	IV-CIVIL	/	/	/	/	/	/	/	A
105	17CEAO01105	Surendar.R	IV-CIVIL	/	/	/	/	/	/	/	/
106	17CEAO01106	Syed AareifAhamed.M	IV-CIVIL	/	/	/	/	/	/	/	/
107	17CEAO01107	Thamizharasan.S	IV-CIVIL	A	/	/	/	/	/	/	/
108	17CEAO01108	TharunKumar.A.B	IV-CIVIL	/	/	/	/	/	/	/	/
109	17CEAO01109	Thirukumar.G	IV-CIVIL	/	/	/	/	/	/	A	A
110	17CEAO01110	Vasanth.A	IV-CIVIL	/	/	A	/	/	/	/	/
111	17CEAO01111	VasanthaKumar.K	IV-CIVIL	/	/	/	/	/	/	/	/
112	17CEAO01112	Vasanthi.S	IV-CIVIL	/	/	/	/	/	/	/	/
113	17CEAO01113	Venkateshan.R	IV-CIVIL	/	/	/	/	/		/	/
114	17CEAO01114	Venkateshwaran.M	IV-CIVIL	/	/	/	A	/	/	/	/

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115	17CEAO01115	Vignesh.R	IV-CIVIL	1	a	1	1	1	1	1	1
116	17CEAO01116	Vijay.G	IV-CIVIL	1	1	a	1	1	1	1	1
117	17CEAO01117	VinothKumar.K	IV-CIVIL	a	1	1	1	1	1	1	1
118	17CEAO01118	Vishnu.R	IV-CIVIL	1	1	1	1	a	1	1	1
119	17CEAO01119	Yogaraj.S	IV-CIVIL	1	1	1	1	1	1	1	1
120	17CEAO01120	Yuvaraj.G	IV-CIVIL	1	1	1	1	1	a	1	1
121	17CEAO01121	Gobinath.J	IV-CIVIL	1	1	a	1	1	1	1	1
122	17CEAO01122	Mani.P	IV-CIVIL	1	1	1	1	a	1	1	1
123	17CEAO01123	Rajapandi.S	IV-CIVIL	1	a	1	A	1	1	1	1
124	17CEAO01124	Sivakumar .V	IV-CIVIL	1	1	a	1	1	1	1	1
125	17CEAO01125	Venkatesh.N	IV-CIVIL	1	1	1		1	1	1	a
126	17CEAO01126	Vignesh.T	IV-CIVIL	a	1	1	1	1	1	1	1
127	17CEAO01127	S.KayalVizhi	II-ME	1	1	1	1	1	1	1	1
128	17CEAO01128	MadhumithaMurali	II-ME	1	1	1	1	1	a	1	1
129	17CEAO01129	S.Poornimadevi	II-ME	1	1	1	1	1	1	1	1
			NUMBER OF STUDENTS PRESENT	115	113	111	115	117	117	115	114
			NUMBER OF STUDENTS ABSENT	14	16	18	14	12	12	14	15
			PROGRAM CO-ORDINATOR SIGNATURE								

V. Muthu
HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

QUIZ SAMPLE QUESTION PAPER & ANSWER

1. What is riveting?
a) the process of making holes in the structure
b) process of making mould for structure
c) method of joining together pieces of metal by inserting ductile metal pins called rivets
d) method of joining together pieces of metal by inserting non ductile metal pins called rivets

2. Size of rivet hole is _____ size of rivet
a) more than
b) less than
c) equal to
d) not compared with

3. Hammering is done in rivet to _____
a) give proper shape to rivet
b) completely fill up the rivet hole
c) partially fill up the rivet hole
d) make a rivet hole

4. Which of the following about rivet is correct?
a) causes low level of noise pollution
b) it does not require skilled work
c) labour cost is low
d) removing poorly installed rivet is costly

5. Which of the following is correct?
a) effective diameter of rivets = rivet hole diameter
b) effective diameter of rivets = nominal diameter of rivet
c) effective diameter of rivets = 1.5 x rivet hole diameter
d) effective diameter of rivets = 1.5 x nominal diameter of rivet

6. Diameter of head for button head rivet is _____
a) 1.60d, where d=nominal rivet diameter
b) 2.5d, where d=nominal rivet diameter
c) 3d, where d=nominal rivet diameter
d) 5d, where d=nominal rivet diameter

7. Height of head for flat countersunk head rivet is _____
a) 0.7d, where d=nominal rivet diameter
b) 0.5d, where d=nominal rivet diameter
c) 0.43d, where d=nominal rivet diameter

d) 0.25d, where d=nominal rivet diameter

8. Tolerance on length for rivet diameter > 16mm is_____
a) 1.5mm
b) 2mm
c) 5mm
d) 3mm

9. Which of the following assumption is true for rivet connection?
a) friction between plates is considered
b) distribution of direct stress on portions of plates between rivet holes is uniform
c) bending stresses are considered
d) shear stress is not uniform on cross section of rivet

10. Rivets in group subjected to direct loads share load _____
a) equally
b) unequally
c) according to rivet diameter
d) rivets are not used in groups

11. Which of the following are not the assumptions made in the analysis of welded joints?
a) welds connecting various joints are homogenous, isotropic
b) parts connected by weld are rigid
c) only stresses due to internal forces are considered
d) effects of residual stresses are neglected

12. The minimum size of fillet weld should _____
a) not be less than 3mm
b) be less than 3mm
c) be less than 2mm
d) greater than thickness of thinner part joined

13. The maximum size of fillet weld is obtained by _____
a) adding 1.5mm to thickness of thinner member to be jointed
b) adding 3mm to thickness of thinner member to be jointed
c) subtracting 3mm from thickness of thinner member to be jointed
d) subtracting 1.5mm from thickness of thinner member to be jointed

14. What is the minimum specified length of fillet weld?
a) two times the size of weld
b) four times the size of weld
c) six times the size of weld
d) half the size of weld

15. Effective length of fillet weld is _____
a) equal to overall length plus twice the weld size
b) twice the overall length plus twice the weld size
c) equal to overall length minus twice the weld size

d) twice the overall length minus twice the weld size

16. End returns are made _____
a) equal to twice the size of weld
b) equal to half the size of weld
c) equal to the size of weld
d) equal to thrice the size of weld

17. Which of the following is not true regarding effective throat thickness of weld?
a) Effective throat thickness should not be less than 3mm
b) It should not exceed 0.7t or 1t, where t is thickness of thinner plate of elements being welded
c) Effective throat thickness = K x size of weld, where K is a constant
d) Effective throat thickness = K x (size of weld)^2 , where K is a constant

18. The effective throat thickness is K times the size of weld. What is the value of K when angle between fusion faces is 80°?
a) 0.5
b) 0.65
c) 0.7
d) 1

19. The length of overlap of plates to be fillet welded in lap joint ____
a) should not be less than 4 times the thickness of thinner part
b) should be less than 4 times the thickness of thinner part
c) should be less than 2 times the thickness of thinner part
d) should not be less than 2 times the thickness of thinner part

20. Which of the following option is incorrect?
a) Effective length of groove weld should not be less than 4 times the weld size
b) Effective length of groove weld should be less than 4 times the weld size
c) Effective length of intermittent weld should not be less than 4 times the weld size
d) Effective length of intermittent weld should have a minimum length 80mm

PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

STUDENT FEEDBACK

Name of the Student : Anubama.s	**Year / Semester:** IV - Civil
Name of the Program: TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices		✓		
3	Examples Provided during this course	✓			
4	Course delivered by Resource Person		✓	✓	
5	Time Management		✓		
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	It is very useful to upgrade our knowledge.			

K. Navaneethan

PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

V. Muthu

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STUDENT FEEDBACK

Name of the Student : DEVA.R	**Year / Semester:** IV - CIVIL
Name of the Program: TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices		✓		
3	Examples Provided during this course		✓		
4	Course delivered by Resource Person				✓
5	Time Management			✓	
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	We obtained how to Prepared. Steel quantity for beams & columns & structural elements			

T. Navakishalla
PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

V. Nathan
HoD-CIVIL

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Department of Civil Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

NPR College of Engineering & Technology
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

STUDENT FEEDBACK

Name of the Student : P. Sujitha	**Year / Semester:** IV - Civil
Name of the Program: TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content			✓	
2	Way of exposed new knowledge and practices				✓
3	Examples Provided during this course		✓		
4	Course delivered by Resource Person		✓		
5	Time Management	✓			
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	from this course, I learnt about steel & concrete detailing			

PROGRAM COORDINATOR

COLLEGE OF ENGG & TECHNOLOGY NATHAM

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DEPARTMENT OF CIVIL ENGINEERING

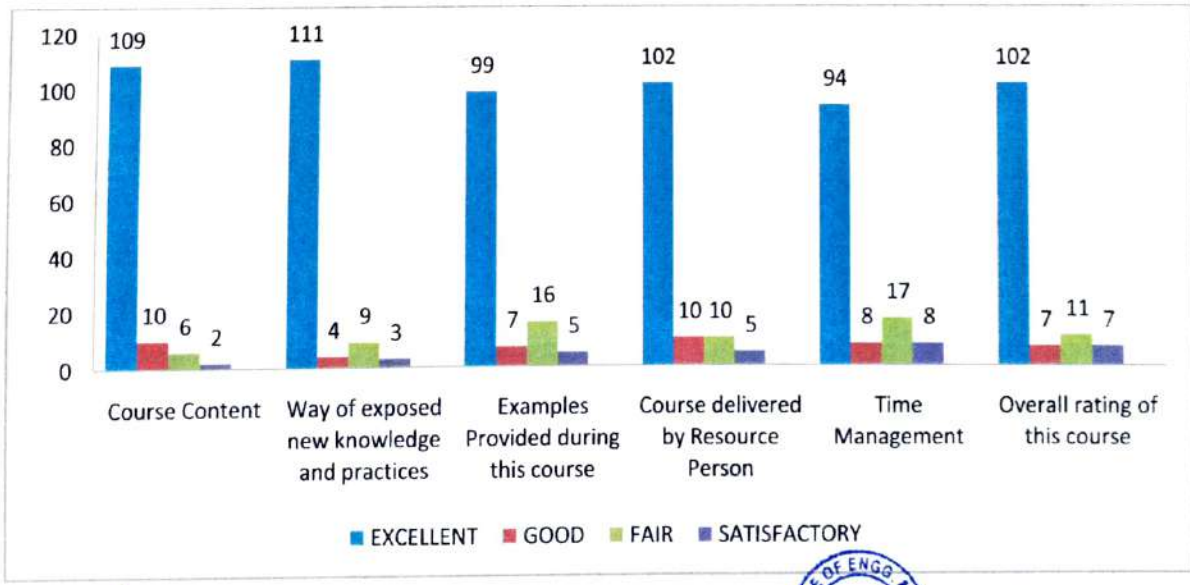
ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

STUDENT FEEDBACK SUMMARY REPORT

TOTAL STRENGTH:129 **DATE:28.11.2017**

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	109	10	6	2
2	Way of exposed new knowledge and practices	111	4	9	3
3	Examples Provided during this course	99	7	16	5
4	Course delivered by Resource Person	102	10	10	5
5	Time Management	94	8	17	8
6	Overall rating of this course	102	7	11	7
7	Average	102.8	7.7	11.5	5.0

NUMBER OF STUDENTS SUCCESSFULLY COMPLETED:127



PROGRAM COORDINATOR

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

SUMMARY REPORT

The Department of Civil Engineering organized Certificate program "TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING" from 20.11.2017 to 28.11.2017-45 Hours at Computer Design & Drafting Laboratory.

During the inauguration Vignesh.T.,IV-Civil has delivers welcome address.

Dr.B.Maruthukannan, Principal of our college inaugurated the program delivered the inaugural address. Resource person Mr.J.Mohammed Faizel, Software Trainer,Hi-Tech CAD-Cam centre,Madurai & Ms.Madhumitha murali, Software Trainer,Hi-Tech CAD-Cam centre, Madurai has shared their knowledge with our students. This 45 hourse course gives over view about "TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING"and provides overview of Building Design and Drafting.

129 Students were attended from Civil& M.E-Structural Students, 127 Students those participated and successfully completed the Quiz program has awarded with certificates.

Surendar.R, IV Civil was delivered vote of thanks address.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PROGRAM COORDINATOR **HoD-CIVIL** **PRINCIPAL**

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING

COURSE MATERIAL/MANUAL

Material Link:

1. https://www.tekla.com/products/tekla-structures
2. https://teklastructures.support.tekla.com/tekla-structures-2019-pdf-documentation
3. https://teklastructures.support.tekla.com/pdf_documentation_links
4. https://teklastructures.support.tekla.com/system/files/manual/Basics%20of%20Tekla%20Structures_1.pdf
5. https://www.pdfdrive.com/tekla-structures-books.html
6. https://www.academia.edu/8835884/Tekla_Structures_Steel_Detailing_Basic_training_Drawings

PROGRAM COORDINATOR **HoD-CIVIL** **PRINCIPAL**

COLLEGE OF ENGG & TECHNOLOGY NATHAM

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This certificate is presented to

J. BALAGANGATHARAN - 920814103015 - IV - CIVIL

has attended the Add on Course on "TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING "organized by Department of Civil Engineering held on
20.11.2017 to 28.11.2017 -45 Hours.

V. [illegible]

HOD-CIVIL

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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This certificate is presented to

KISHORE.R - 920814103046 - IV - CIVIL

has attended the Add on Course on "TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING "organized by Department of Civil Engineering held on
20.11.2017 to 28.11.2017 -45 Hours.

HOD-CIVIL

PRINCIPAL

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This certificate is presented to

R.DEVA - 920814103094 - IV - CIVIL

has attended the Add on Course on "TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING "organized by Department of Civil Engineering held on
20.11.2017 to 28.11.2017 -45 Hours.

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This certificate is presented to

N.PERUMAL - 920814103071 - IV - CIVIL

has attended the Add on Course on "TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING "organized by Department of Civil Engineering held on
20.11.2017 to 28.11.2017 -45 Hours.

V. Lathamca
HOD-CIVIL

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This certificate is presented to

J.SABOJINI - 920814103091 - M-CIVIL

has attended the Add on Course on "TEKLA STURCTURES FOR STEEL AND CONCRETE DETAILING "organized by Department of Civil Engineering held on
20.11.2017 to 28.11.2017 -45 Hours.

V. [illegible]
HOD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

INDEX

COURSE NAME: **RENDERING MODELLING OF 3DS MAX**

COURSE CODE: **17CECC02**

ACADEMIC YEAR: 2017-2018 SEMESTER: ODD DURATION: 35 HOURS

S.NO	PARTICULARS	PAGE NO
1	PERMISSION LETTER	2
2	CIRCULAR TO STUDENTS	3
3	INVITATION	4
4	COURSE CONTENT	5
5	REGISTERED STUDENTS NAME LIST	7
6	COURSE SCHEDULE	11
7	STUDENTS ATTENDANCE	15
8	QUIZ QUESTION PAPER WITH ANSWER KEY	19
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NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

S. Jeyakanchana
PROGRAM COORDINATOR

V. Muthu
HoD-CIVIL

IQAC

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Coordinator - IQAC
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Natham, Dindigul (Dt) - 624 401

Date:-7/10/17

From

V. Muthu Kumar
Head of the department
Civil Engineering
NPR College of Engineering & Technology
Natham.

To

The Principal.
NPR College of Engineering & Technology
Natham.

Respected sir,

Sub:- Requesting for permission to conduct Certificate Course for Civil Engineering students - reg.

We have planned to conduct a certificate course on "Rendering modelling of 3ds max to our II & III - Civil Engineering students from 04.12.2017 to 09.12.2017 (35 hrs) in our college Premises. We are proposed Mrs. J. Jeyakanchana, Assistant Professor, Civil, NPR College of Engineering & Technology as a Internal resource Person for this certificate course Program. Kindly Permit us to Conduct the same.

Thanking you,

Yours faithfully,
V. Muthu Kumar

V. Muthu Kumar

Head of the Department
Department of Civil Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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CIRCULAR

NPRCET/OFF/CIVIL/VAC/2017-2018 DATE: 12.10.2017

This is to inform that Department of Civil Engineering is planned to conduct a Certificate Course on "Rendering Modelling of 3DS Max" for the students during this odd semester 2017-2018.Interested students can enroll their name to the program coordinator on or before 21.10.2017.

The details of the training program are given below.

INTERNAL RESOURCE PERSONS	1.Mr.G.Jeyaveerapandian,Assistant Professor,NPRCET 2.Ms.M.Vaishnavi,AssistantProfessor,NPRCET
VENUE	Computer Aided Design & Drafting Laboratory, NPR College of Engineering &Technology
DATE & DURATION	04.12.2017 to 09.12.2017 (35 Hours)
PROGRAM COORDINATOR	Mrs.S.JeyaKanchana, AssistantProfessor-Civil,NPRCET

PRINCIPAL

Copy to:
1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"CERTIFICATE COURSE-

RENDERING MODELLING OF 3DS MAX"

on 4th December,2017

Venue: Computer Aided Design & Drafting Laboratory at 9.00 A.M.

INTERNAL RESOURCE PERSON

Ms.M.Vaishnavi,

Assistant Professor-Civil , NPRCET,

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Civil Engineering,

NPR College of Engineering and Technology,

NPR Nagar, Natham.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

17CECC02- RENDERING MODELLING OF 3DS MAX

COURSE CONTENT

CHAPTER-1

Introduction – The 3DS Max Interface -Navigate the 3DS Max User Interface and Workspace -Transforming Objects Using Gizmos -Graphite Modeling Tools Set -Command Panel -Time Slider and Track Bar -File Management -Chapter exercise

3DS Max First Project -Setting Up a Project Workflow- Clock Modeling -Spline Modifier -Bringing It All Together-Chapter exercise.

Modeling in 3DS Max: Architecture Model - Part 1-Units Setup-Importing a CAD Drawing-Creating the Walls -Creating the Doors-Creating the Window -Adding the Floor and Ceiling -Chapter exercise.

Modeling in 3DS Max: Architecture Model - Part 2-Modeling the Couch -Modeling the Lounge Chair -Chapter exercise.

CHAPTER-2

Character Poly Modeling - Part 1 -Setting up the Scene -Soldier Modeling -Chapter exercise

Character Poly Modeling - Part 2 -Completing the Main Body -Creating the Accessories

Character Poly Modeling - Part 3-Putting On the Boot -Creating the Hands -Chapter exercise

Character Poly Modeling - Part 4 -Creating the Head -Merging and Attaching the Head's Accessories -Chapter exercise

CHAPTER-3

Introduction to Animation -Animating the Ball -Refining the Animation -Chapter exercise

Animation Principles -Anticipation and Momentum in Knife Throwing -Chapter exercise

Character Studio: Rigging -Character Studio Workflow -Associating a Biped with the Soldier Model-Chapter exercise

Character Studio: Rigging -Chapter exercise

Character Studio: Animation -Animating the Soldier -Chapter exercise

CHAPTER-4

Introduction to the Materials: Interiors and Furniture The Slate Material Editor-Material Types

Introduction to the Materials: Interiors and Furniture -Mental Ray Material Types -Shades

Introduction to the Materials: Interiors and Furniture -Mapping the Couch and Chair -Mapping the Window and Doors -Chapter exercise.

CHAPTER-5

Textures and UV Workflows: The Soldier -UV Unwrapping Seaming the Rest of the Body-Applying the Color Map

Textures and UV Workflows: The Soldier- Applying the Bump Map - Applying the Specular Map Chapter exercise

Introduction to Lighting: Interior Lighting -Three-Point Lighting -3DS Max Lights -Lighting the Still Life in the Interior

Introduction to Lighting: Interior Lighting-Space -Selecting a Shadow Type -Atmospheres and Effects -Light Lister -Chapter exercise

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CHAPTER 6

3DS Max Rendering -Rendering Setup -Cameras -Safe Frames
3DS Max Rendering –Ray traced Reflections and Refractions-Rendering the Interior and Furniture Chapter exercise
Mental Ray -Mental Ray Materials -Chapter exercise

Criteria to get Certificate:

- Students should register their names for this course.
- Students must have 75% attendance.
- Student should secure 60% marks in the Exam.

Prepared by- Mrs.S.JeyaKanchana, Assistant Professor, Civil- S.Jeyakanchana

Approved by,

COLLEGE OF ENGG. & TECHNOLOGY * NPR NATHAM

V. Anthony

HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING
CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX
REGISTERED STUDENTS NAME LIST

S.NO	REGISTERNUMBER	STUDENT NAME	YEAR/CIVIL
1	920816103001	Aarthisai R	II-CIVIL
2	920816103002	Abdul ajees M	II-CIVIL
3	920816103003	Adilkhan A	II-CIVIL
4	920816103004	Ajmeerkaja J	II-CIVIL
5	920816103005	Akash V S	II-CIVIL
6	920816103006	Balachandar G	II-CIVIL
7	920816103009	Gopinath A	II-CIVIL
8	920816103010	Hariharan G	II-CIVIL
9	920816103011	Hariharan T	II-CIVIL
10	920816103012	JeyamariiswaryarajaV	II-CIVIL
11	920816103014	Keerthana M	II-CIVIL
12	920816103016	KennetRoosvelt D	II-CIVIL
13	920816103017	Manikandan S	II-CIVIL
14	920816103018	Mathialagan M S	II-CIVIL
15	920816103020	Muthupriya K	II-CIVIL
16	920816103021	Muthuraman V	II-CIVIL
17	920816103022	Naveen Kumar S	II-CIVIL
18	920816103023	NivinHaris K	II-CIVIL
19	920816103024	Poongavanam V	II-CIVIL
20	920816103025	Pravinraja K B	II-CIVIL
21	920816103026	Raja K	II-CIVIL
22	920816103027	Rajkumar N	II-CIVIL
23	920816103028	Sakthivel M	II-CIVIL
24	920816103029	ShalikinFarjana J	II-CIVIL
25	920816103030	Siva P	II-CIVIL
26	920816103032	Siva Ram R	II-CIVIL
27	920816103033	Venkatesan A	II-CIVIL
28	920816103034	Yogalakshmi L	II-CIVIL
29	920816103306	Mathanmohan.s	II-CIVIL
30	920816103314	Tamil selvan . S	II-CIVIL
31	920816103307	Murukesh. U	II-CIVIL
32	920816103309	Rajakumar (H)	II-CIVIL
33	920816103305	Mani rathinam.M	II-CIVIL
34	920816103310	Ranjith .R	II-CIVIL
35	920816103312	Subash.M	II-CIVIL

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36	920816103311	Soniya	II-CIVIL
37	920816103308	Pandiarajan.R	II-CIVIL
38	920816103301	Hariharan.S	II-CIVIL
39	920816103313	Surya.P.L	II-CIVIL
40	920816103302	Hariharan.D	II-CIVIL
41	920816103304	Keerthana	II-CIVIL
42	920816103303	Kasiviswanathan	II-CIVIL
43	920815103001	Adithiyan.K (H)	III-CIVIL
44	920815103003	Ajith.P (H)	III-CIVIL
45	920815103004	Ajithsugumar.K (H)	III-CIVIL
46	920815103005	Akash.B	III-CIVIL
47	920815103006	AravindRoshan.V	III-CIVIL
48	920815103007	ArokiyaAbinash.A	III-CIVIL
49	920815103008	Arunprakash.R (H)	III-CIVIL
50	920815103009	Ayyanarmoorthi.T	III-CIVIL
51	920815103010	Bala murali.JM	III-CIVIL
52	920815103011	Boopathy.S	III-CIVIL
53	920815103012	Datchinamoorthy.RB	III-CIVIL
54	920815103013	Deeraj.V	III-CIVIL
55	920815103014	Devaprakash.G	III-CIVIL
56	920815103015	Devaraj.S	III-CIVIL
57	920815103017	Dinesh kumar.M	III-CIVIL
58	920815103018	Dinesh kumar.R	III-CIVIL
59	920815103019	Durgadevi.M	III-CIVIL
60	920815103020	Francis Darmic.B	III-CIVIL
61	920815103021	Govarthan.S	III-CIVIL
62	920815103022	Gowtham.K	III-CIVIL
63	920815103023	Harikishore.K	III-CIVIL
64	920815103024	Harikrishnan.E (H)	III-CIVIL
65	920815103025	Hariprasath.M (H)	III-CIVIL
66	920815103026	Jayachandran.P	III-CIVIL
67	920815103027	Jerin.J	III-CIVIL
68	920815103028	Jeyaprakash.M	III-CIVIL
69	920815103030	KarpagaMeena.V	III-CIVIL
70	920815103031	Karthick.S	III-CIVIL
71	920815103032	Karthika.R	III-CIVIL
72	920815103033	Karthikeyan.C	III-CIVIL
73	920815103034	KinsClinton.J	III-CIVIL
74	920815103035	Kishore muthiah.KM	III-CIVIL

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75	920815103036	Kishore prakash.N	III-CIVIL
76	920815103037	Krithika.P (H)	III-CIVIL
77	920815103038	Manikandan.R.B	III-CIVIL
78	920815103039	Manikandan.S	III-CIVIL
79	920815103040	Mohamed Idris.J	III-CIVIL
80	920815103041	Mohamed sikkandar.A	III-CIVIL
81	920815103043	Mohamed yousuf.I	III-CIVIL
82	920815103044	Muneeswaran.M	III-CIVIL
83	920815103045	MuthuYashika.U	III-CIVIL
84	920815103046	Nagaraj.G	III-CIVIL
85	920815103047	Nagarajan.R	III-CIVIL
86	920815103048	Nainamohamed.M	III-CIVIL
87	920815103050	Naveen.P	III-CIVIL
88	920815103051	Nivetha.K (H)	III-CIVIL
89	920815103052	Pavatharani.T (H)	III-CIVIL
90	920815103301	Karthikeyan.A.P	III-CIVIL
91	920815103302	Kesavan.A	III-CIVIL
92	920815103303	Nalluchamy.P	III-CIVIL
93	920815103702	Mohan raj S	III-CIVIL
94	920815103053	Prasannakrishna.R	III-CIVIL
95	920815103055	Premkumar.M	III-CIVIL
96	920815103056	Priyadharshini.A	III-CIVIL
97	920815103057	Priyadharshini.R	III-CIVIL
98	920815103059	Ramachandran.M	III-CIVIL
99	920815103060	Ramcharan.M	III-CIVIL
100	920815103061	Ranjithkumar.E	III-CIVIL
101	920815103062	Ravikumar.M	III-CIVIL
102	920815103063	Ribaankhan.V	III-CIVIL
103	920815103064	Rishvanabegam.A	III-CIVIL
104	920815103065	Sakthimohan.R	III-CIVIL
105	920815103066	Sam jebaraj.P	III-CIVIL
106	920815103067	Sankar.A	III-CIVIL
107	920815103068	Saran raj.S	III-CIVIL
108	920815103069	Saravanamoorthy .S	III-CIVIL
109	920815103070	Saravanan.B	III-CIVIL
110	920815103071	Sarumathi .S	III-CIVIL
111	920815103072	Sathishkumar.M	III-CIVIL
112	920815103073	Sathishkumar K	III-CIVIL

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113	920815103074	Sathishkumar.V	III-CIVIL
114	920815103075	Selvakumar.M	III-CIVIL
115	920815103076	Selvam.P	III-CIVIL
116	920815103077	Sheik ibrahim.K	III-CIVIL
117	920815103078	Sindhiyamargreat.A	III-CIVIL
118	920815103079	Sivabalan.M	III-CIVIL
119	920815103080	Sivanesh.J	III-CIVIL
120	920815103081	Sridharan.R	III-CIVIL
121	920815103082	Sripalaniyandi.M	III-CIVIL
122	920815103083	Suba.G	III-CIVIL
123	920815103084	Subanandhini.M	III-CIVIL
124	920815103085	Subashchandrabose.M	III-CIVIL
125	920815103086	Subasri.J.	III-CIVIL
126	920815103087	Sudha.M	III-CIVIL
127	920815103088	Surya.A	III-CIVIL
128	920815103089	Surya.P	III-CIVIL
129	920815103090	Syed Shahulhameed.A	III-CIVIL
130	920815103091	Tamil selvan.K	III-CIVIL
131	920815103092	Thirumalairaja.KGR	III-CIVIL
132	920815103093	Thirumoorthi.S	III-CIVIL
133	920815103094	Thivagar.S	III-CIVIL
134	920815103095	Vasudevan.S	III-CIVIL
135	920815103096	Venkatesh.S	III-CIVIL
136	920815103097	Vetrikumaran.C	III-CIVIL
137	920815103098	Vetrivel.S	III-CIVIL
138	920815103099	Vignesh.R	III-CIVIL
139	920815103100	Vijayapandi.K	III-CIVIL
140	920815103101	Vijaykrishnan.R	III-CIVIL
141	920815103102	Vishnu.M	III-CIVIL
142	920815103304	Raja.N	III-CIVIL
143	920815103305	Vinotha.A	III-CIVIL
144	920815103701	Surya.S.P	III-CIVIL

S. Jeyakanchana
PROGRAM COORDINATOR

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V. Muthumma
HOD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

COURSE SCHEDULE

DAY	TIME	SESSION	TOPICS TO BE DISCUSSED
04.12.2017	9.00 a.m. to 9.30 a.m.		Inauguration-Dr.B.Maruthukannan,Principal,NPRCET
	9.30 a.m. to 10.30 a.m.	1	**Introduction – The 3DS Max Interface** □ Navigate the 3DS Max User Interface and Workspace □ Transforming Objects Using Gizmos □ Graphite Modeling Tools Set □ Command Panel □ Time Slider and Track Bar □ File Management □ Chapter exercise Mr.G.Jeyaveerapandian,Assistant Professor
	10.30 a.m. to 10.45 a.m.		TEA BREAK
	10.45 a.m. to 12.45 a.m.	2	**3DS Max First Project** □ Setting Up a Project Workflow □ Clock Modeling □ Spline Modifier □ Bringing It All Together □ Chapter exercise Ms.M.Vaishnavi,AssistantProfessor
	12.45 p.m. to 01.30 p.m.		LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	3	**Modeling in 3DS Max: Architecture Model - Part 1** □ Units Setup □ Importing a CAD Drawing □ Creating the Walls □ Creating the Doors □ Creating the Window □ Adding the Floor and Ceiling □ Chapter exercise Mrs.S.JeyaKanchana, AssistantProfessor-Civil
	03.00 p.m. to 3.15 p.m.		TEA BREAK
	3.15 p.m. to 4.15 p.m.	4	**Modeling in 3DS Max: Architecture Model - Part 2** □ Modeling the Couch □ Modeling the Lounge Chair □ Chapter exercise Ms.M.Vaishnavi,AssistantProfessor
05.12.2017	9.00 a.m. to 10.30 a.m.	1	**Character Poly Modeling - Part 1** □ Setting Up the Scene □ Soldier Modeling □ Chapter exercise Mrs.S.JeyaKanchana, AssistantProfessor-Civil
	10.30 a.m. to 10.45 a.m.		TEA BREAK

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	10.45 a.m. to 12.45 a.m.	2	**Character Poly Modeling - Part 2** □ Completing the Main Body □ Creating the Accessories Mr.G.Jeyaveerapandian,Assistant Professor
	12.45 p.m. to 01.30 p.m.		LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	3	**Character Poly Modeling - Part 2** □ Putting On the Boot □ Creating the Hands □ Chapter exercise Ms.M.Vaishnavi,AssistantProfessor
	03.00 p.m. to 3.15 p.m.		TEA BREAK
	3.15 p.m. to 4.15 p.m.	4	**Character Poly Modeling - Part 3** □ Creating the Head □ Merging and Attaching the Head's Accessories □ Chapter exercise Mr.G.Jeyaveerapandian,Assistant Professor
06.12.2017	9.00 a.m. to 10.30 a.m.	1	**Introduction to Animation** □ Animating the Ball □ Refining the Animation □ Chapter exercise Mrs.S.JeyaKanchana, AssistantProfessor-Civil
	10.30 a.m. to 10.45 a.m.		TEA BREAK
	10.45 a.m. to 12.45 a.m.	2	**Animation Principles** □ Anticipation and Momentum in Knife Throwing □ Chapter exercise Mr.G.Jeyaveerapandian,Assistant Professor
	12.45 p.m. to 01.30 p.m.		LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	3	**Character Studio: Rigging** □ Character Studio Workflow □ Associating a Bipedwith the Soldier Model □ Chapter exercise Ms.M.Vaishnavi,AssistantProfessor
	03.00 p.m. to 3.15 p.m.		TEA BREAK
	3.15 p.m. to 4.15 p.m.	4	**Character Studio: Rigging** □Chapter exercise Mrs.S.JeyaKanchana, AssistantProfessor-Civil
07.12.2017	9.00 a.m. to 10.30 a.m.	1	**Character Studio: Animation** □ Animating the Soldier □ Chapter exercise Mrs.S.JeyaKanchana, AssistantProfessor-Civil
	10.30 a.m. to 10.45 a.m.		TEA BREAK
	10.45 a.m. to 12.45 a.m.	2	**Introduction to the Materials: Interiors and Furniture** □ The Slate Material Editor □ Material Types

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			Mr.G.Jeyaveerapandian,Assistant Professor
	12.45 p.m. to 01.30 p.m.		LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	3	**Introduction to the Materials: Interiors and Furniture** □ Mental Ray Material Types □ Shades Ms.M.Vaishnavi,AssistantProfessor
	03.00 p.m. to 3.15 p.m.		TEA BREAK
	3.15 p.m. to 4.15 p.m.	4	**Introduction to the Materials: Interiors and Furniture** □ Mapping the Couch and Chair □ Mapping the Window and Doors □ Chapter exercise Mrs.S.JeyaKanchana, AssistantProfessor-Civil
08.12.2017	9.00 a.m. to 10.30 a.m.	1	**Textures and UV Workflows: The Soldier** □ UV Unwrapping □ Seaming the Rest of the Body □ Applying the Color Map Mrs.S.JeyaKanchana, AssistantProfessor-Civil
	10.30 a.m. to 10.45 a.m.		TEA BREAK
	10.45 a.m. to 12.45 a.m.	2	**Textures and UV Workflows: The Soldier** □ Applying the Bump Map □ Applying the Specular Map □ Chapter exercise Mr.G.Jeyaveerapandian,Assistant Professor
	12.45 p.m. to 01.30 p.m.		LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	3	**Introduction to Lighting: Interior Lighting** □ Three-Point Lighting □ 3DS Max Lights □ Lighting the Still Life in the Interior Ms.M.Vaishnavi,AssistantProfessor
	03.00 p.m. to 3.15 p.m.		TEA BREAK
	3.15 p.m. to 4.15 p.m.	4	**Introduction to Lighting: Interior Lighting** Space □ Selecting a Shadow Type □ Atmospheres and Effects □ Light Lister □ Chapter exercise Mr.G.Jeyaveerapandian,Assistant Professor
09.12.2017	9.00 a.m. to 10.30 a.m.	1	**3DS Max Rendering** □ Rendering Setup □ Cameras □ Safe Frames Mr.G.Jeyaveerapandian,Assistant Professor

	10.30 a.m. to 10.45 a.m.		TEA BREAK
	10.45 a.m. to 12.45 a.m.	2	**3DS Max Rendering** □ Raytraced Reflections and Refractions. □ Rendering the Interior and Furniture □ Chapter exercise Ms.M.Vaishnavi,AssistantProfessor
	12.45 p.m. to 01.30 p.m.		LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	3	**Mental Ray** □ Mental Ray Materials □ Chapter exercise Mrs.S.JeyaKanchana, AssistantProfessor-Civil
	03.00 p.m. to 3.15 p.m.		**Valedictory-Mr.V.Muthukumar-HOD-Civil**

NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

S. Jeyakanchana — V. Muthukumar

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CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

STUDENT ATTENDANCE

S.NO	ROLL NO.	STUDENT NAME	YEAR/CIVIL	A/12	5/12	6/12	7/12	8/12	9/12
1	17CECC02001	Aarthisai R	II-CIVIL	1	1	1	1	1	a
2	17CECC02002	Abdul ajees M	II-CIVIL	1	a	1	1	1	1
3	17CECC02003	Adilkhan A	II-CIVIL	1	1	1	1	1	a
4	17CECC02004	Ajmeerkaja J	II-CIVIL	1	1	a	1	1	1
5	17CECC02005	Akash V S	II-CIVIL	1	1	1	1	1	1
6	17CECC02006	Balachandar G	II-CIVIL	1	a	1	1	1	1
7	17CECC02007	Gopinath A	II-CIVIL	1	1	1	1	1	1
8	17CECC02008	Hariharan G	II-CIVIL	1	1	1	1	1	a
9	17CECC02009	Hariharan T	II-CIVIL	1	1	1	1	1	1
10	17CECC02010	JeyamariiswaryarajaV	II-CIVIL	a	1	1	1	1	1
11	17CECC02011	Keerthana M	II-CIVIL	1	1	1	1	1	a
12	17CECC02012	KennetRoosvelt D	II-CIVIL	1	1	1	1	1	1
13	17CECC02013	Manikandan S	II-CIVIL	1	1	1	1	1	1
14	17CECC02014	Mathialagan M S	II-CIVIL	1	1	a	1	1	a
15	17CECC02015	Muthupriya K	II-CIVIL	a	1	1	1	1	1
16	17CECC02016	Muthuraman V	II-CIVIL	1	1	1	1	1	1
17	17CECC02017	Naveen Kumar S	II-CIVIL	1	1	1	1	1	1
18	17CECC02018	NivinHaris K	II-CIVIL	1	1	1	1	1	
19	17CECC02019	Poongavanam V	II-CIVIL	1	1	1	1	1	1
20	17CECC02020	Pravinraja K B	II-CIVIL	1	1	1	1	1	1
21	17CECC02021	Raja K	II-CIVIL	a	1	1	1	1	1
22	17CECC02022	Rajkumar N	II-CIVIL	1	1	1	1	1	1
23	17CECC02023	Sakthivel M	II-CIVIL	1	1	1	1	1	1
24	17CECC02024	ShalikinFarjana J	II-CIVIL	1	1	a	1	1	1
25	17CECC02025	Siva P	II-CIVIL	1		1	1	1	1
26	17CECC02026	Siva Ram R	II-CIVIL	1	1	1	1	1	
27	17CECC02027	Venkatesan A	II-CIVIL	1	a	1	1	1	1
28	17CECC02028	Yogalakshmi L	II-CIVIL	1	1	1	1	1	1
29	17CECC02029	Mathanmohan.s	II-CIVIL	1	1		1	a	1
30	17CECC02030	Tamil selvan . S	II-CIVIL	1	1	a	1	1	1
31	17CECC02031	Murukesh. U	II-CIVIL	a	1	1	1	1	1
32	17CECC02032	Rajakumar (H)	II-CIVIL		1	1	1	a	1
33	17CECC02033	Mani rathinam.M	II-CIVIL	1	a	1	1	1	1
34	17CECC02034	Ranjith .R	II-CIVIL	1	1	1	1	1	1
35	17CECC02035	Subash.M	II-CIVIL	1	1	1	1	a	1
36	17CECC02036	Soniya	II-CIVIL	1	1	1	1	1	1

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37	17CECC02037	Pandiarajan.R	II-CIVIL	P	P	A	P	P	P
38	17CECC02038	Hariharan.S	II-CIVIL	P	P	P	P	A	P
39	17CECC02039	Surya.P.L	II-CIVIL	P	P	P	P	P	P
40	17CECC02040	Hariharan.D	II-CIVIL	P	P	P	P	P	A
41	17CECC02041	Keerthana	II-CIVIL	A	P	P	P	P	P
42	17CECC02042	Kasiviswanathan	II-CIVIL	P	P	P	P	P	P
43	17CECC02043	Adithiyan.K (H)	III-CIVIL	P	P	A	P	P	P
44	17CECC02044	Ajith.P (H)	III-CIVIL	A	P	P	P	P	P
45	17CECC02045	Ajithsugumar.K (H)	III-CIVIL	P	P	P	P	P	P
46	17CECC02046	Akash.B	III-CIVIL	P	P	P	P	A	P
47	17CECC02047	AravindRoshan.V	III-CIVIL	P	A	P	P	P	P
48	17CECC02048	ArokiyaAbinash.A	III-CIVIL	P	P	P	P	P	P
49	17CECC02049	Arunprakash.R (H)	III-CIVIL	P	P	P	A	P	P
50	17CECC02050	Ayyanarmoorthi.T	III-CIVIL	P	P	A	P	P	P
51	17CECC02051	Bala murali.JM	III-CIVIL	A	P	P	P	P	P
52	17CECC02052	Boopathy.S	III-CIVIL	P	P	P	P	A	P
53	17CECC02053	Datchinamoorthy.RB	III-CIVIL	P	P	P	P	P	P
54	17CECC02054	Deeraj.V	III-CIVIL	P	P	P	P	P	P
55	17CECC02055	Devaprakash.G	III-CIVIL	A	P	P	P	P	P
56	17CECC02056	Devaraj.S	III-CIVIL	P	P	P	P	P	P
57	17CECC02057	Dinesh kumar.M	III-CIVIL	P	P	P	P	P	P
58	17CECC02058	Dinesh kumar.R	III-CIVIL	P	P	A	P	P	P
59	17CECC02059	Durgadevi.M	III-CIVIL	A	A	A	A	A	A
60	17CECC02060	Francis Darmic.B	III-CIVIL	P	P	P	P	P	P
61	17CECC02061	Govarthan.S	III-CIVIL	P	P	P	P	A	P
62	17CECC02062	Gowtham.K	III-CIVIL	P	P	P	P	P	P
63	17CECC02063	Harikishore.K	III-CIVIL	P	P	A	P	P	P
64	17CECC02064	Harikrishnan.E (H)	III-CIVIL	P	P	P	P	P	P
65	17CECC02065	Hariprasath.M (H)	III-CIVIL	A	P	P	P	P	P
66	17CECC02066	Jayachandran.P	III-CIVIL	P	P	P	P	P	P
67	17CECC02067	Jerin.J	III-CIVIL	P	A	P	P	P	P
68	17CECC02068	Jeyaprakash.M	III-CIVIL	P	P	P	P	P	P
69	17CECC02069	KarpagaMeena.V	III-CIVIL	P	P	P	P	P	A
70	17CECC02070	Karthick.S	III-CIVIL	P	P	P	P	P	P
71	17CECC02071	Karthika.R	III-CIVIL	A	A	A	A	A	A
72	17CECC02072	Karthikeyan.C	III-CIVIL	P	P	P	P	P	P
73	17CECC02073	KinsClinton.J	III-CIVIL	P	P	P	P	P	P
74	17CECC02074	Kishore muthiah.KM	III-CIVIL	P	P	A	P	P	P
75	17CECC02075	Kishore prakash.N	III-CIVIL	P	A	P	P	P	P
76	17CECC02076	Krithika.P (H)	III-CIVIL	P	P	P	P	P	P
77	17CECC02077	Manikandan.R.B	III-CIVIL	P	P	P	P	P	P

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78	17CECC02078	Manikandan.S	III-CIVIL						
79	17CECC02079	Mohamed Idris.J	III-CIVIL						
80	17CECC02080	Mohamed sikkandar.A	III-CIVIL						
81	17CECC02081	Mohamed yousuf.I	III-CIVIL						
82	17CECC02082	Muneeswaran.M	III-CIVIL						
83	17CECC02083	MuthuYashika.U	III-CIVIL						
84	17CECC02084	Nagaraj.G	III-CIVIL						
85	17CECC02085	Nagarajan.R	III-CIVIL						
86	17CECC02086	Nainamohamed.M	III-CIVIL						
87	17CECC02087	Naveen.P	III-CIVIL						
88	17CECC02088	Nivetha.K (H)	III-CIVIL						
89	17CECC02089	Pavatharani.T (H)	III-CIVIL						
90	17CECC02090	Karthikeyan.A.P	III-CIVIL						
91	17CECC02091	Kesavan.A	III-CIVIL						
92	17CECC02092	Nalluchamy.P	III-CIVIL						
93	17CECC02093	Mohan raj S	III-CIVIL						
94	17CECC02094	Prasannakrishna.R	III-CIVIL						
95	17CECC02095	Premkumar.M	III-CIVIL						
96	17CECC02096	Priyadharshini.A	III-CIVIL						
97	17CECC02097	Priyadharshini.R	III-CIVIL						
98	17CECC02098	Ramachandran.M	III-CIVIL						
99	17CECC02099	Ramcharan.M	III-CIVIL						
100	17CECC02100	Ranjithkumar.E	III-CIVIL						
101	17CECC02101	Ravikumar.M	III-CIVIL						
102	17CECC02102	Ribaankhan.V	III-CIVIL						
103	17CECC02103	Rishvanabegam.A	III-CIVIL						
104	17CECC02104	Sakthimohan.R	III-CIVIL						
105	17CECC02105	Sam jebaraj.P	III-CIVIL						
106	17CECC02106	Sankar.A	III-CIVIL						
107	17CECC02107	Saran raj.S	III-CIVIL						
108	17CECC02108	Saravanamoorthy .S	III-CIVIL						
109	17CECC02109	Saravanan.B	III-CIVIL						
110	17CECC02110	Sarumathi .S	III-CIVIL						
111	17CECC02111	Sathishkumar.M	III-CIVIL						
112	17CECC02112	Sathishkumar K	III-CIVIL						
113	17CECC02113	Sathishkumar.V	III-CIVIL						
114	17CECC02114	Selvakumar.M	III-CIVIL						
115	17CECC02115	Selvam.P	III-CIVIL						
116	17CECC02116	Sheik ibrahim.K	III-CIVIL						
117	17CECC02117	Sindhiyamargreat.A	III-CIVIL						
118	17CECC02118	Sivabalan.M	III-CIVIL						

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119	17CECC02119	Sivanesh.J	III-CIVIL	1	1	1	a	1	1
120	17CECC02120	Sridharan.R	III-CIVIL	1	1	1	1	1	a
121	17CECC02121	Sripalaniyandi.M	III-CIVIL	1	1	1	1	a	1
122	17CECC02122	Suba.G	III-CIVIL	1	1	1	1	1	1
123	17CECC02123	Subanandhini.M	III-CIVIL	1	a	1	1	1	1
124	17CECC02124	Subashchandrabose.M	III-CIVIL	1	1	1	a	1	1
125	17CECC02125	Subasri.J.	III-CIVIL	a	a	a	a	a	a
126	17CECC02126	Sudha.M	III-CIVIL	1	1	1	1	1	1
127	17CECC02127	Surya.A	III-CIVIL	1	1	1	a	1	1
128	17CECC02128	Surya.P	III-CIVIL	1	1	1	1		1
129	17CECC02129	Syed Shahulhameed.A	III-CIVIL	1	1	1	1	1	1
130	17CECC02130	Tamil selvan.K	III-CIVIL	a	1	1	1	1	1
131	17CECC02131	Thirumalairaja.KGR	III-CIVIL	1	1	1	a	1	1
132	17CECC02132	Thirumoorthi.S	III-CIVIL	1	1	1	1		1
133	17CECC02133	Thivagar.S	III-CIVIL	1	1	1	1	1	
134	17CECC02134	Vasudevan.S	III-CIVIL	1	1	1	1	1	1
135	17CECC02135	Venkatesh.S	III-CIVIL	1	1	1	1	1	1
136	17CECC02136	Vetrikumaran.C	III-CIVIL	1	1	1	1	1	1
137	17CECC02137	Vetrivel.S	III-CIVIL	a	1	1	1	1	1
138	17CECC02138	Vignesh.R	III-CIVIL	1	1	1	1	1	1
139	17CECC02139	Vijayapandi.K	III-CIVIL	1	1	1	1	1	1
140	17CECC02140	Vijaykrishnan.R	III-CIVIL	1	1	1	1	1	1
141	17CECC02141	Vishnu.M	III-CIVIL	1	a	1	1	1	1
142	17CECC02142	Raja.N	III-CIVIL	1	1	1	1	1	a
143	17CECC02143	Vinotha.A	III-CIVIL	1	1	1	1	1	1
144	17CECC02144	Surya.S.P	III-CIVIL	1	1	1	1	1	1
			Number of students present	124	127	128	132	123	127
			Number of students absent	20	17	16	12	21	17
			Program Coordinator signature						

V. Muthu
HoD-CIVIL

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NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

SAMPLE QUESTION PAPER & ANSWER

1. Which Displays animation keys and frame numbers, can be "scrubbed" to quickly view the results of the animation created?

- **Time Slider**
- Render
- Title Bar
- Tile

2. _____ is a polygonal mesh; that is, unlike an editable mesh, it uses more than three-sided polygons?

- Editable Poly
- Viewport
- **Title Bar**
- Editable Mesh

3. Which is the portion of a spline between two vertices?

- Tweens
- Element
- **Segment**
- Extents

4. Which is the color that an object reflects when illuminated by "good lighting." Also referred to as its natural color?

- **Diffuse Color**
- Editable Poly
- Specular color
- Title Bar

5. Which is a straight or curved line that connects two vertices in a mesh object or spline?

- **Edge**
- Tile
- Render
- Vertex

6. Which specifies the placement, orientation, and scale of a map on the geometry?

- Main Toolbar

- Material Editor
- **Mapping Coordinates**
- Frame Rate

7.What is called when Two dimensional view of an object , as seen from the Top, Bottom, Front, Back, Left, or Right?

- **Orthographic Views**
- Perspective View
- Isometric View
- Modifiers

8.Area of the User Interface where the objects are displayed is called_____?

- Gizmo
- **Vectors**
- **Viewport**
- ViewCube

9.Which is a single point in a graphic image?

- Spline
- Edge
- Faces
- **Pixel**

10.Which is used To output the image or scene with camera, lights, shadows, modifiers, and materials applied to it?

- Vertex
- Grids
- **Render**
- Mesh

S.Jeyakanchana

PROGRAM COORDINATOR

COLLEGE OF ENGG. & TECHNOLOGY NPR NATHAM

HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

STUDENT FEEDBACK

Name of the Student : Aarthisai. R	Year / Semester: II - Civil
Name of the Program: RENDERING MODELLING OF 3DS MAX	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices		✓		
3	Examples Provided during this course			✓	
4	Course delivered by Resource Person		✓		
5	Time Management	✓			~~✓~~
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	The session was going good & gives Information about 3d view of building.			

S. Jeyakanchana
PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

V. Muthu
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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

STUDENT FEEDBACK

Name of the Student : Akash B	Year / Semester: III - Civil
Name of the Program: RENDERING MODELLING OF 3DS MAX	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices	✓			
3	Examples Provided during this course		✓		
4	Course delivered by Resource Person			✓	
5	Time Management				✓
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	from this course I learn about Interior designing & Lighting of the structures.			

S. Jeyakanchana
PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

V. Muthu G
HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

STUDENT FEEDBACK

Name of the Student : THIVAGAR.S	Year / Semester: IR - (Civil)
Name of the Program: RENDERING MODELLING OF 3DS MAX	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices		✓		
3	Examples Provided during this course				✓
4	Course delivered by Resource Person			✓	
5	Time Management	✓			
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	I WANT ONE MORE PRACTICAL SESSION.			

S. Jeyakanchana
PROGRAM COORDINATOR

COLLEGE OF ENGG. & TECHNOLOGY NATHAM

V. Nithya
HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

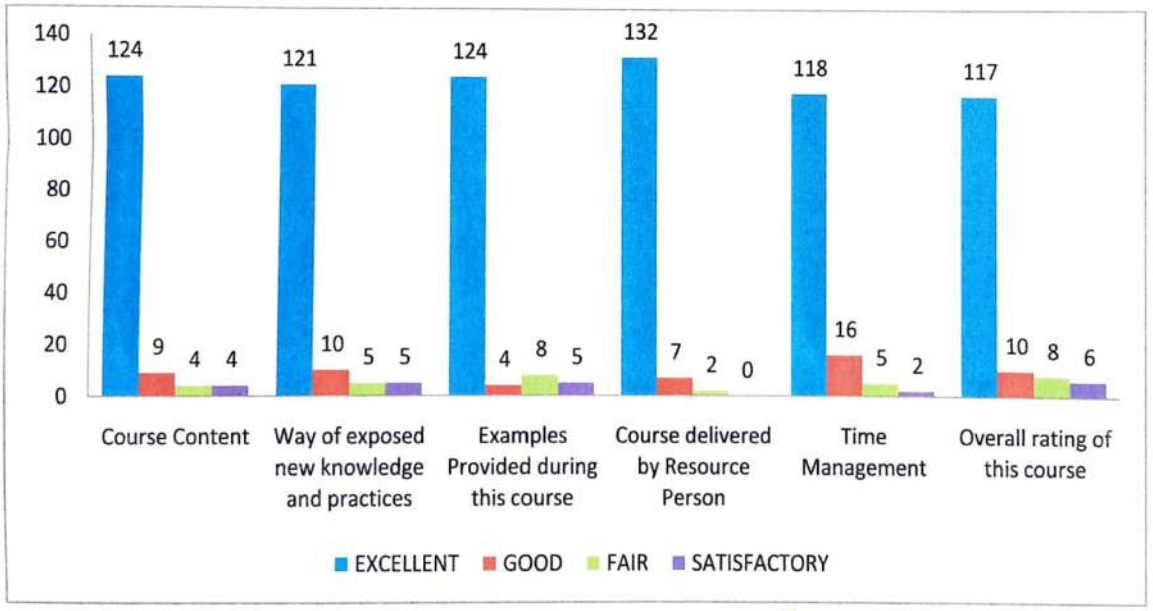
CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

STUDENT FEEDBACK SUMMARY REPORT

TOTAL STRENGTH: 144 **DATE: 09.12.2017**

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	124	9	4	4
2	Way of exposed new knowledge and practices	121	10	5	5
3	Examples Provided during this course	124	4	8	5
4	Course delivered by Resource Person	132	7	2	0
5	Time Management	118	16	5	2
6	Overall rating of this course	117	10	8	6
7	Average	123	9	5	4

NUMBER OF STUDENTS SUCCESSFULLY COMPLETED: 141



S. Jeyakanchana
PROGRAM COORDINATOR

V. Mohan
HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

SUMMARY REPORT

The Department of Civil Engineering organized Certificate program "**NAVISWORKS FOR 3D MODELLING**" from 04.12.2017 to 09.12.2017-35 Hours at Computer Design &Drafting Laboratory.

During the inauguration Hariharan.D,II-Civil has delivered welcome address. Dr.B.Maruthukannan, Principal of our college inaugurated the program delivered the inaugural address. Internal Resource person Mrs.S.JeyaKanchana, Assistant Professor-Civil, NPRCET has shared their knowledge with our students. This 35 hours course gives over view about "NAVISWORKS FOR 3D MODELLING" and provides overview of Modelling techniques.

They also shared their knowledge Introduction – The 3DS Max Interface, 3DS Max First Project Modeling in 3DS Max: Architecture Model, Introduction to Animation, Animation Principles, Character Poly Modeling, Introduction to the Materials: Interiors and Furniture, Textures and UV Workflows: The Soldier, Character Studio: Rigging , Character Studio: Animation , Introduction to Lighting: Interior Lighting , 3DS Max Rendering , Mental Ray. So that students enable to have skills that will help them to design own construction by using 3DS MAX.

Totally 144 Students were attended from Civil II, III year. Students those participated and 141 students successfully completed the program has awarded with certificates.

Keerthana, II-Civil was delivered vote of thanks.

S. Jeyakanchana
PROGRAM COORDINATOR

V. Muthu
HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON RENDERING MODELLING OF 3DS MAX

COURSE MATERIAL/MANUAL

Material Link:

1. https://www.proprofs.com/quiz-school/quizshow.php?title=3d-max-test-karan-desai&q=1
2. https://www.wiziq.com/tests/3ds-max
3. https://www.wiziq.com/online-tests/9868-basic-kloledge-of-3d-studio-max
4. https://gotest.pk/general-knowledge/computers/autodesk-3ds-max-quiz-online-test-mcqs/
5. https://testseries.edugorilla.com/tests/1518/3d-max
6. https://www.autodesk.com/products/3d max/overview

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

S. Jeyakanchana
PROGRAM COORDINATOR

V. Muthu
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CERTIFICATE COURSE

ON

"RENDERING MODELLING OF 3DS MAX"

Certificate of Participation

This is certify that of NIVIN HARIS.K-920116103023-B-CIVIL *has attended the certificate course on "RENDERING MODELLING OF 3DS MAX" organized by Department of Civil Engineering held on 04.12.2017 to 09.12.2017-35 Hours.*

V. Muthuraman

HOD

Dr. J.SUNDARARAJAN,
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Principal
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CERTIFICATE COURSE

"RENDERING MODELLING OF 3DS MAX"

Certificate of Participation

This is certify that of DINESHKUMAR.R-926915103618-JJCollas *attended the certificate course on "RENDERING MODELLING OF 3DS MAX" organized by Department of Civil Engineering held on 04.12.2017 to 09.12.2017-35 Hours.*

V. Muthuraman

HOD

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CERTIFICATE COURSE

ON

"RENDERING MODELLING OF 3DS MAX"

Certificate of Participation

This is certify that of FRANCIS DARMIC.B - 920815103020 (B.E - CIVIL) *has attended the certificate course on "RENDERING MODELLING OF 3DS MAX" organized by Department of Civil Engineering held on 04.12.2017 to 09.12.2017-35 Hours.*

V. Muthuraman

HOD

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CERTIFICATE COURSE

ON

"RENDERING MODELLING OF 3DS MAX"

Certificate of Participation

This is certify that of NAVEEN.P-920151C3050-III-CIVIL. *has attended the certificate course on "RENDERING MODELLING OF 3DS MAX" organized by Department of Civil Engineering held on 04.12.2017 to 09.12.2017-35 Hours.*

V. Muthuraman

HOD

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CERTIFICATE COURSE

ON

"RENDERING MODELLING OF 3DS MAX"

Certificate of Participation

This is certify that of ADILKHAN.A - 920816103003 - II - CIVIL *has attended the certificate course on "RENDERING MODELLING OF 3DS MAX" organized by Department of Civil Engineering held on 04.12.2017 to 09.12.2017-35 Hours.*

V. Muthuraman

HOD

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

INDEX

COURSE NAME: **ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE**

COURSE CODE: **17CEAO03**

ACADEMIC YEAR: 2018-2019 SEMESTER: EVEN DURATION: 40 HOURS

S.NO	PARTICULARS	PAGE NO
1	PERMISSION LETTER	2
2	CIRCULAR TO STUDENTS	3
3	INVITATION	4
4	COURSE CONTENT	5
5	REGISTERED STUDENTS NAME LIST	7
6	COURSE SCHEDULE	11
7	STUDENTS ATTENDANCE	14
8	QUIZ QUESTION PAPER WITH ANSWER KEY	18
9	STUDENT FEEDBACK	19
10	FEEDBACK ANALYSIS REPORT	22
11	SUMMARY	23
12	COURSE MATERIAL/MANUAL	24
13	CERTIFICATES OF THE PROGRAM	25

NATHAM

PROGRAM COORDINATOR

HoD-CIVIL

IQAC

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Coordinator - IQAC
NPR College of Engineering & Technology
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PRINCIPAL
NPR College of Engineering & Tech
Natham, Dindigul (Dt) - 624 401

Date : 02.01.2018

From

Mr. V. Muthukumar.
HOD - Civil Engineering
NPR College of Engineering & Technology
Natham.

TO

The Principal
NPR College of Engineering & Technology
Natham.

Respected Sir.

Sub: Requesting for permission to conduct add on course for Civil & M.E-Structural Engineering students - reg

We have planned to conduct a Add on course on "ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE" to our Civil & M.E. Structural Engineering students from 3.2.2018, 10.2.2018, 17.2.2018, 24.2.2018, 3.3.2018 10.3.2018 (40hrs) in our college premises. We are proposed Mr. J. Ramesh Pandian & Vijay.M CADD centre Training Service Private Ltd, Chennai as a resource person for this Addon course program. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully,

V. Muthu

V. Muthukumar

Head of the Department
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

CIRCULAR

NPRCET/OFF/CIVIL/VAC/2017-2018 DATE: 09.01.2018

This is to inform that Department of Civil Engineering is planned to conduct add On Course on **"ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE"** for the students during thisend of Even semester 2017-2018.Interested students can enroll their name to the program coordinator on or before 01.02.2018.

The details of the training program are given below.

COURSE NAME	**ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE**
RESOURCE PERSONS	1.Mr.J.Ramesh Pandian,Software Trainer CADD Centre Training Services Private Limited,Chennai 2.Vijay.M,Software Trainer CADD Centre Training Services Private Limited,Chennai
VENUE	Computer Aided Design & Drafting Laboratory, NPR College of Engineering &Technology, Natham
DATE & DURATION	3/2/2018 to 10/3/2018 (Saturdays only) & 40 hours
PROGRAM COORDINATOR	Mr.V.Muthukumar,AP/Civil,NPRCET

PRINCIPAL

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2. All the Class Rooms
3. Notice Board
4. File

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

ADD ON COURSE ON

"ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE"

Venue: Computer Aided Design & Drafting Laboratory at 9.00 a.m.

Chief Guest

Mr.J.RameshPandian

Software Trainer

CADD Centre Training Services Private Limited, Chennai

On 03rd Feb 2018

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Civil Engineering,

NPR College of Engineering and Technology,

NPR Nagar, Natham.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

NPR College of Engineering & Technology
NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

17CEAO03- ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

COURSE CONTENT

CHAPTER	TOPICS TO BE DISCUSSED
1	• Introduction ,MXROAD key features, Basic concepts, Getting started, Create new project • Working environments, View controls in MX,CAD Environment, CAD tools • Enhanced menu and GUI changes, Survey inputs and validation • String names and drawing styles, String names and drawing styles
2	• Element of geometry design, Mx command language & Input files • All geometry and Tasks, Status: Deriving information from display • Point related, Point selection methods, Distance/ dimension related • Model analysis, Triangulation, Data conflicts
3	• Surface analysis, Dynamic surface analysis, File management, String naming convention, Edit models,2D to 3D view surface • Create model, Delete a model, Free/secure a model, Rename a model • Trim a model to a boundary, Create composite model, Edit strings • Create string dynamically, Create string, Edit points
4	• Design- quick alignment, Alignment, Horizontal design, Horizontal design toolbar, • Report, Design- Vertical profile, Design model, Existing model, Collinear profile model, Vertical profile toolbar, • Design- alignment by element method, Begin horizontal design Horizontal alignment -Element method, Best fit alignment, Best fit horizontal alignment-Element • Best fit alignment- vertical string, Road design- carriageways, Rule based super elevation
5	• Junction design, Create fillet, Regrade junction, Traffic island, Tidy junction, Road design, shoulder design • Road design- kerbs, verges and footways, Earthwork design, Earthwork model details, Assign Earthwork Style and Strategy, Earthwork style open, Alternative strategy, • End earthworks, Pavement and subgrade design, Model details, Pavement layer design, Pavement layer design- Style set, • Pavement styles –Areas and Zones, Dynamic section, Final Drawings Manager, Base drawing, Types of drawings, Plan, Profile
6	• Final Drawings Manager, Create cross sections, Display cross sections, Layout pages • Page setup, Create or edit page setup, Page layout, Edit page layout, Annotate drawing, Publish drawings, Road Re-design and Rehabilitation ,MXRENEW, Template method, Tabular method • Overlay design -Template method, Start a scheme, Define surface wizard,

	Corridor design • Corridor design- Editor view, Testing a design, Isopachanalysis, Compositemodel,Automaticseeding,Visibility,Throughvisibility,Visibility viewer

Criteria to get Certificate:

- Students should register their names for this course.
- Students must have 75 % attendance.
- Student should secure 50% marks in the Exam.

Prepared by- Mr.V.Muthukumar,AP/Civil,NPRCET

Approved by,

HoD/CIVIL

Head of the Department
Department of Civil Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

PRINCIPAL

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

REGISTERED STUDENTS NAME LIST

S.NO	REGISTERNUMBER	STUDENT NAME	YEAR/CIVIL
1	920814103001	Abdul Malik. A	IV-CIVIL
2	920814103002	Aishwarya.T.S	IV-CIVIL
3	920814103003	Ajith.L	IV-CIVIL
4	920814103004	Ajithkumar.U	IV-CIVIL
5	920814103005	AjithKumar.K	IV-CIVIL
6	920814103006	AjithKumar.M	IV-CIVIL
7	920814103007	Alagusundaram.N	IV-CIVIL
8	920814103008	Anubama.S	IV-CIVIL
9	920814103009	Aravind.E	IV-CIVIL
10	920814103010	Aravind.M	IV-CIVIL
11	920814103011	Aravindmatthews.S	IV-CIVIL
12	920814103012	Ariharasudhan.K	IV-CIVIL
13	920814103013	ArockiaDass.S	IV-CIVIL
14	920814103014	Ashok.J	IV-CIVIL
15	920814103015	Balagangatharan.J	IV-CIVIL
16	920814103016	Balaji.G.K	IV-CIVIL
17	920814103017	Balamurugan.K	IV-CIVIL
18	920814103018	Daniel Roche.D	IV-CIVIL
19	920814103019	DayaGowridaran.M	IV-CIVIL
20	920814103020	Deepa.N	IV-CIVIL
21	920814103021	Deepak.K	IV-CIVIL
22	920814103022	Deepak.P	IV-CIVIL
23	920814103024	Deva.R	IV-CIVIL
24	920814103026	Dhineshwaran.G	IV-CIVIL
25	920814103027	Geetha.M	IV-CIVIL
26	920814103028	Gokulraj.S	IV-CIVIL
27	920814103029	Gopinath.K	IV-CIVIL
28	920814103031	HariPrasath.K	IV-CIVIL
29	920814103032	HariRaj.A	IV-CIVIL
30	920814103033	HariVignesh.B	IV-CIVIL
31	920814103034	Hemalatha.S.D	IV-CIVIL
32	920814103035	InamulHassain.S	IV-CIVIL
33	920814103036	Indhumathi.V	IV-CIVIL
34	920814103037	Ishwarya.G	IV-CIVIL

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35	920814103038	Jayakumar.R	IV-CIVIL
36	920814103039	Jeevanandham.S	IV-CIVIL
37	920814103040	Kaleeswari.K	IV-CIVIL
38	920814103041	Kamali.N	IV-CIVIL
39	920814103043	Karthikeyan.K	IV-CIVIL
40	920814103044	KarthikRajan.S	IV-CIVIL
41	920814103045	Karuppasamy.M	IV-CIVIL
42	920814103046	Kishore.R	IV-CIVIL
43	920814103047	Lavanya.G	IV-CIVIL
44	920814103048	MahaboobIkram.A	IV-CIVIL
45	920814103049	Mani Ragul.M	IV-CIVIL
46	920814103050	Marudhupandi.V	IV-CIVIL
47	920814103051	Meenakshi.V	IV-CIVIL
48	920814103052	MithruDeepak.V.R.	IV-CIVIL
49	920814103054	Mohammed Arief.A	IV-CIVIL
50	920814103055	Mohammed Raafi.S	IV-CIVIL
51	920814103056	Mohammed Yasar.A	IV-CIVIL
52	920814103057	Murugan.P	IV-CIVIL
53	920814103059	Muthukkumar.N	IV-CIVIL
54	920814103060	MuthuKrishnan.P	IV-CIVIL
55	920814103061	Muthukumar.V	IV-CIVIL
56	92081413301	S.AhmedSulthanAlauddin	IV-CIVIL
57	92081413302	Ajithjavid.J	IV-CIVIL
58	92081413303	G.Ajith Kumar	IV-CIVIL
59	92081413304	S.Akshaya	IV-CIVIL
60	92081413305	Balaji.B	IV-CIVIL
61	92081413308	R.Karthik Raja	IV-CIVIL
62	92081413502	A.Andrew Joseph	IV-CIVIL
63	920814103062	Naganathasivasethupathi.M	IV-CIVIL
64	920814103063	Nandhini.R	IV-CIVIL
65	920814103064	Navaneedhakumar.M	IV-CIVIL
66	920814103065	Navasakthi.R	IV-CIVIL
67	920814103066	Pandiaraj.R	IV-CIVIL
68	920814103067	PandiMeena.T	IV-CIVIL
69	920814103069	Parthipan.A	IV-CIVIL
70	920814103070	Pavithra.K	IV-CIVIL
71	920814103071	Perumal.N	IV-CIVIL
72	920814103072	PradeepKumar.G	IV-CIVIL
73	920814103073	Pradeesh.P	IV-CIVIL

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74	920814103074	Prasanth.S	IV-CIVIL
75	920814103075	PremNivas.D	IV-CIVIL
76	920814103076	Ragavan.S	IV-CIVIL
77	920814103077	Rahavi.S	IV-CIVIL
78	920814103078	Rahul.P	IV-CIVIL
79	920814103079	Rajaashokkumar S	IV-CIVIL
80	920814103081	Rajavelu.V.R	IV-CIVIL
81	920814103082	Rajesh .K	IV-CIVIL
82	920814103083	Rajesh.M	IV-CIVIL
83	920814103084	Ramprasath.K.M	IV-CIVIL
84	920814103085	Ramprasath.N	IV-CIVIL
85	920814103086	RanjithKumar.R	IV-CIVIL
86	920814103087	RubaVignesh.K	IV-CIVIL
87	920814103088	Sadhasivam.M	IV-CIVIL
88	920814103089	Samuel.A	IV-CIVIL
89	920814103090	Saravanan.T	IV-CIVIL
90	920814103091	Sarojini.J	IV-CIVIL
91	920814103092	Sashikumar.M	IV-CIVIL
92	920814103093	SasiKumar.A	IV-CIVIL
93	920814103094	Sathyaseelan.M	IV-CIVIL
94	920814103095	SevugaPerumal.D	IV-CIVIL
95	920814103096	ShekAbdulla.A	IV-CIVIL
96	920814103097	SindhuShree.K	IV-CIVIL
97	920814103098	Siva Ganesh.N	IV-CIVIL
98	920814103099	Siva Sangar.M	IV-CIVIL
99	920814103100	Stalin GnanaPrakash.M	IV-CIVIL
100	920814103101	Subramaniyan.N	IV-CIVIL
101	920814103102	Sudhakar.C	IV-CIVIL
102	920814103103	Sudharsan.K	IV-CIVIL
103	920814103104	SuhirthaJothi.M	IV-CIVIL
104	920814103105	Sujitha.P	IV-CIVIL
105	920814103106	Surendar.R	IV-CIVIL
106	920814103107	Syed AareifAhamed.M	IV-CIVIL
107	920814103108	Thamizharasan.S	IV-CIVIL
108	920814103109	TharunKumar.A.B	IV-CIVIL
109	920814103110	Thirukumar.G	IV-CIVIL
110	920814103111	Vasanth.A	IV-CIVIL
111	920814103112	VasanthaKumar.K	IV-CIVIL

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113	920814103114	Venkateshan.R	IV-CIVIL
114	920814103115	Venkateshwaran.M	IV-CIVIL
115	920814103116	Vignesh.R	IV-CIVIL
116	920814103117	Vijay.G	IV-CIVIL
117	920814103118	VinothKumar.K	IV-CIVIL
118	920814103119	Vishnu.R	IV-CIVIL
119	920814103120	Yogaraj.S	IV-CIVIL
120	920814103121	Yuvaraj.G	IV-CIVIL
121	920814103307	Gobinath.J	IV-CIVIL
122	920814103309	Mani.P	IV-CIVIL
123	920814103310	Rajapandi.S	IV-CIVIL
124	920814103312	Sivakumar .V	IV-CIVIL
125	920814103313	Venkatesh.N	IV-CIVIL
126	920814103314	Vignesh.T	IV-CIVIL
127	920817413001	S.Kayal Vizhi	II-ME
128	920817413002	Madhumitha Murali	II-ME
129	920817413003	S.Poornimadevi	II-ME

V. Muthumma

PROGRAM COORDINATOR

[V. MUTHUKUMAR]

COLLEGE OF ENGG & TECHNOLOGY NATHAM NPR

V. Muthumma

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

COURSE SCHEDULE

Date: 20.01.2018

Day 1 **3/2/2018**	9.00 a.m. to 9.30 a.m.	Inauguration-**Mr.B.Maruthukannan,Principal,NPRCET**	
	09. 30 a.m. - 11.30 a.m.	Session 1	Introduction, MXROAD key features, Basic concepts, Getting started, Create new project **Mr.J.RameshPandian**,Software Trainer
	11.30 a.m. to 11.45 a.m.	*Tea Break*	
	11.45 a.m. to 1.15 p.m.	Session 2	Working environments, View controls in MX,CAD Environment, CAD tools **Mr.V.Muthukumar**,Assistant Professor
	1.15 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.30 p.m.	Session 3	Enhanced menu and GUI changes, Survey inputs and validation **Mr.J.RameshPandian**,Software Trainer
	3.30 p.m. to 3.45p.m.	*Tea Break*	
	3.45 p.m. to 5.15 p.m.	Session 4	String names and drawing styles, String names and drawing styles **Mr.V.Muthukumar**,Assistant Professor

Day 2 **10/2/2018**	09. 00 a.m. - 11.30 a.m.	Session 1	Element of geometry design, Mx command language & Input files **Mr.J.RameshPandian**,Software Trainer
	11.30 a.m. to 11.45 a.m.	*Tea Break*	
	11.45 a.m. to 1.15 p.m.	Session 2	All geometry and Tasks, Status: Deriving information from display **Mr.V.Muthukumar**,Assistant Professor
	1.15 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.30 p.m.	Session 3	Point related, Point selection methods, Distance/ dimension related **Mr.V.Muthukumar**,Assistant Professor
	3.30 p.m. to 3.45p.m.	*Tea Break*	
	3.45 p.m. to 5.15 p.m.	Session 4	Model analysis, Triangulation, Data conflicts **Mr.V.Muthukumar**,Assistant Professor

	09. 00 a.m. - 11.30 a.m.	Session 1	Surface analysis, Dynamic surface analysis, File management, String naming convention, Edit models,2D to 3D view surface **Mr.J.RameshPandian**,Software Trainer

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Day 3	11.30 a.m. to 11.45 a.m.	*Tea Break*	
17/2/2018	11.45 a.m. to 1.15 p.m.	Session 2	Create model, Delete a model, Free/secure a model, Rename a model **Mr.V.Muthukumar**,Assistant Professor
	1.15 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.30 p.m.	Session 3	Trim a model to a boundary, Create composite model, Edit strings Vijay.M,Software Trainer
	3.30 p.m. to 3.45p.m.	*Tea Break*	
	3.45 p.m. to 5.15 p.m.	Session 4	Create string dynamically, Create string,Edit points **Mr.V.Muthukumar**,Assistant Professor
Day 4	09. 00 a.m. - 11.30 a.m.	Session 1	Design- quick alignment, Alignment, Horizontal design, Horizontal design toolbar, **Mr.V.Muthukumar**,Assistant Professor
24/2/2018	11.30 a.m. to 11.45 a.m.	*Tea Break*	
	11.45 a.m. to 1.15 p.m.	Session 2	Report, Design- Vertical profile, Design model, Existing model, Collinear profile model, Vertical profile toolbar, Vijay.M,Software Trainer
	1.15 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.30 p.m.	Session 3	Design- alignment by element method, Begin horizontal design Horizontal alignment - Element method, Best fit alignment, Best fit horizontal alignment- Element **Mr. K.Karuppasamy**,Assistant Professor
	3.30 p.m. to 3.45p.m.	*Tea Break*	
	3.45 p.m. to 5.15 p.m.	Session 4	Best fit alignment- vertical string, Road design- carriageways, Rule based super elevation Vijay.M,Software Trainer
Day 5	09. 00 a.m. - 11.30 a.m.	Session 1	Junction design, Create fillet, Regrade junction, Traffic island, Tidy junction, Road design, shoulder design **Mr.Vijay.M**,Software Trainer
3/3/2018	11.30 a.m. to 11.45 a.m.	*Tea Break*	
	11.45 a.m. to 1.15 p.m.	Session 2	End earthworks,Pavement and subgrade design,Model details, Pavement layer design,Pavement layer design- Style set, **Mr.V.Muthukumar**,Assistant Professor
	1.15 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.30 p.m.	Session 3	Road design- kerbs, verges and

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			footways,Earthworkdesign,Earthwork model details,Assign Earthwork Style and Strategy,Earthwork style open,Alternative strategy, Vijay.M,Software Trainer
	3.30 p.m. to 3.45p.m.	*Tea Break*	
	3.45 p.m. to 5.15 p.m.	Session 4	Pavement styles –Areas and Zones,Dynamicsection,Final Drawings Manager,Basedrawing,Types of drawings,Plan,Profile **Mr.V.Muthukumar**,Assistant Professor
Day 6 **10/3/2018**	09. 00 a.m. - 11.30 a.m.	Session 1	Final Drawings Manager,Create cross sections,Display cross sections,Layout pages **Mr.Vijay.M**,Software Trainer
	11.30 a.m. to 11.45 a.m.	*Tea Break*	
	11.45 a.m. to 1.15 p.m.	Session 2	Page setup,Create or edit page setup, Page layout,Edit page layout,Annotate drawing,Publishdrawings,Road Re-design and Rehabilitation,MXRENEW,Templatemethod,Tabular method **Mr.V.Muthukumar**,Assistant Professor
	1.15 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 2.30 p.m.	Session 3	Overlay design -Template method,Start a scheme,Define surface wizard,Corridor design **Mr.Vijay.M**,Software Trainer
	2.30 p.m. to 3.00 p.m.		Valedictory-Mr.V.Muthukumar,HOD-Civil,NPRCET

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PROGRAM COORDINATOR | **HoD-CIVIL** | **IQAC** | **PRINCIPAL**

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STUDENT ATTENDANCE

S.NO	ROLL NUMBER	STUDENT NAME	YEAR/CIVIL	3/2	14/2	17/2	24/2	3/3	10/3
1	17CEAO03001	Abdul Malik. A	IV-CIVIL	P	P	P	P	P	P
2	17CEAO03002	Aishwarya.T.S	IV-CIVIL	P	A	P	P	P	P
3	17CEAO03003	Ajith.L	IV-CIVIL	P	P	P	P	P	P
4	17CEAO03004	Ajithkumar.U	IV-CIVIL	P	P	A	P	P	P
5	17CEAO03005	AjithKumar.K	IV-CIVIL	P	P	P	A	P	P
6	17CEAO03006	AjithKumar.M	IV-CIVIL	P	P	P	P	P	P
7	17CEAO03007	Alagusundaram.N	IV-CIVIL	P	P	P	P	P	P
8	17CEAO03008	Anubama.S	IV-CIVIL	P	P	P	P	P	P
9	17CEAO03009	Aravind.E	IV-CIVIL	P	P	P	P	P	P
10	17CEAO03010	Aravind.M	IV-CIVIL	P	P	A	P	P	P
11	17CEAO03011	Aravindmatthews.S	IV-CIVIL	P	P	P	P	P	P
12	17CEAO03012	Ariharasudhan.K	IV-CIVIL	P	P	P	P	P	P
13	17CEAO03013	ArockiaDass.S	IV-CIVIL	A	P	P	P	P	P
14	17CEAO03014	Ashok.J	IV-CIVIL	P	P	P	P	P	P
15	17CEAO03015	Balagangatharan.J	IV-CIVIL	P	P	P	P	P	P
16	17CEAO03016	Balaji.G.K	IV-CIVIL	P	P	P	A	P	P
17	17CEAO03017	Balamurugan.K	IV-CIVIL	P	P	P	P	P	P
18	17CEAO03018	Daniel Roche.D	IV-CIVIL	P	P	P	P	P	P
19	17CEAO03019	DayaGowridaran.M	IV-CIVIL	P	P	A	P	P	P
20	17CEAO03020	Deepa.N	IV-CIVIL	P	P	P	P	P	P
21	17CEAO03021	Deepak.K	IV-CIVIL	P	P	P	A	P	P
22	17CEAO03022	Deepak.P	IV-CIVIL	A	P	P	P	P	P
23	17CEAO03023	Deva.R	IV-CIVIL	P	P	P	P	P	P
24	17CEAO03024	Dhineshwaran.G	IV-CIVIL	P	P	P	P	P	P
25	17CEAO03025	Geetha.M	IV-CIVIL	P	P	A	P	P	P
26	17CEAO03026	Gokulraj.S	IV-CIVIL	P	P	P	P	P	P
27	17CEAO03027	Gopinath.K	IV-CIVIL	P	P	P	P	P	P
28	17CEAO03028	HariPrasath.K	IV-CIVIL	P	P	P	P	P	A
29	17CEAO03029	HariRaj.A	IV-CIVIL	P	P	P	P	P	P
30	17CEAO03030	HariVignesh.B	IV-CIVIL	P	P	P	P	P	P
31	17CEAO03031	Hemalatha.S.D	IV-CIVIL	P	P	A	P	P	P
32	17CEAO03032	InamulHassain.S	IV-CIVIL	P	P	P	P	P	P
33	17CEAO03033	Indhumathi.V	IV-CIVIL	P	P	P	P	P	P
34	17CEAO03034	Ishwarya.G	IV-CIVIL	P	P	P	A	P	P

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35	17CEAO03035	Jayakumar.R	IV-CIVIL	/	/	/	/	/	a
36	17CEAO03036	Jeevanandham.S	IV-CIVIL	/	/	/	/	/	/
37	17CEAO03037	Kaleeswari.K	IV-CIVIL	/	/	/	/	/	/
38	17CEAO03038	Kamali.N	IV-CIVIL	a	/	a	/	/	/
39	17CEAO03039	Karthikeyan.K	IV-CIVIL	/	/	/	/	a	/
40	17CEAO03040	KarthikRajan.S	IV-CIVIL	/	/	/	/	/	/
41	17CEAO03041	Karuppasamy.M	IV-CIVIL	/	/	/	/	/	/
42	17CEAO03042	Kishore.R	IV-CIVIL	/	/	/	/	/	/
43	17CEAO03043	Lavanya.G	IV-CIVIL	/	/	/	/	/	/
44	17CEAO03044	MahaboobIkram.A	IV-CIVIL	/	/	/	/	/	/
45	17CEAO03045	Mani Ragul.M	IV-CIVIL	/	/	/	/	a	/
46	17CEAO03046	Marudhupandi.V	IV-CIVIL	/	/	/	/	/	/
47	17CEAO03047	Meenakshi.V	IV-CIVIL	/	/	/	/	/	/
48	17CEAO03048	MithruDeepak.V.R.	IV-CIVIL	/	/	/	/	/	/
49	17CEAO03049	Mohammed Arief.A	IV-CIVIL	/	/	/	/	/	/
50	17CEAO03050	Mohammed Raafi.S	IV-CIVIL	/	/	/	a	/	/
51	17CEAO03051	Mohammed Yasar.A	IV-CIVIL	/	/	/	/	/	/
52	17CEAO03052	Murugan.P	IV-CIVIL	/	/	/	/	/	/
53	17CEAO03053	Muthukkumar.N	IV-CIVIL	a	/	/	/	/	/
54	17CEAO03054	MuthuKrishnan.P	IV-CIVIL	/	/	/	/	/	/
55	17CEAO03055	Muthukumar.V	IV-CIVIL	/	/	/	/	/	/
56	17CEAO03056	S.AhmedSulthanAlauddin	IV-CIVIL	/	/	/	a	a	/
57	17CEAO03057	Ajithjavid.J	IV-CIVIL	/	/	/	/	/	/
58	17CEAO03058	G.Ajith Kumar	IV-CIVIL	/	/	/	a	/	/
59	17CEAO03059	S.Akshaya	IV-CIVIL	/	/	/	/	/	/
60	17CEAO03060	Balaji.B	IV-CIVIL	/	a	/	/	/	/
61	17CEAO03061	R.Karthik Raja	IV-CIVIL	/	/	/	/	/	/
62	17CEAO03062	A.Andrew Joseph	IV-CIVIL	/	/	/	a	/	/
63	17CEAO03063	Naganathasivasethupathi.M	IV-CIVIL	/	/	/	/	/	/
64	17CEAO03064	Nandhini.R	IV-CIVIL	/	/	/	/	/	a
65	17CEAO03065	Navaneedhakumar.M	IV-CIVIL	/	/	/	/	/	/
66	17CEAO03066	Navasakthi.R	IV-CIVIL	/	/	/	/	a	/
67	17CEAO03067	Pandiaraj.R	IV-CIVIL	/	/	/	/	/	/
68	17CEAO03068	PandiMeena.T	IV-CIVIL	/	/	/	a	/	/
69	17CEAO03069	Parthipan.A	IV-CIVIL	/	/	/	/	/	/
70	17CEAO03070	Pavithra.K	IV-CIVIL	/	/	/	/	/	/
71	17CEAO03071	Perumal.N	IV-CIVIL	a	/	/	/	/	/
72	17CEAO03072	PradeepKumar.G	IV-CIVIL	/	/	/	/	/	/
73	17CEAO03073	Pradeesh.P	IV-CIVIL	/	/	/	/	/	/

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74	17CEAO03074	Prasanth.S	IV-CIVIL	/	/	/	/	/	/
75	17CEAO03075	PremNivas.D	IV-CIVIL	/	a	/	/	/	/
76	17CEAO03076	Ragavan.S	IV-CIVIL	/	/	/	/	/	/
77	17CEAO03077	Rahavi.S	IV-CIVIL	/	/	/	/	/	/
78	17CEAO03078	Rahul.P	IV-CIVIL	/	/	/	/	/	/
79	17CEAO03079	Rajaashokkumar S	IV-CIVIL	/	/	a	/	/	/
80	17CEAO03080	Rajavelu.V.R	IV-CIVIL	/	/	/	/	/	/
81	17CEAO03081	Rajesh .K	IV-CIVIL	/	/	a	/	/	/
82	17CEAO03082	Rajesh.M	IV-CIVIL	/	/	/	a	/	/
83	17CEAO03083	Ramprasath.K.M	IV-CIVIL	a	/	/	/	/	/
84	17CEAO03084	Ramprasath.N	IV-CIVIL	/	/	a	/	/	/
85	17CEAO03085	RanjithKumar.R	IV-CIVIL	/	/	/	/	/	/
86	17CEAO03086	RubaVignesh.K	IV-CIVIL	/	/	/	a	/	/
87	17CEAO03087	Sadhasivam.M	IV-CIVIL	/	/	/	/	/	/
88	17CEAO03088	Samuel.A	IV-CIVIL	/	/	/	/	/	/
89	17CEAO03089	Saravanan.T	IV-CIVIL	/	/	/	/	/	/
90	17CEAO03090	Sarojini.J	IV-CIVIL	/	/	/	/	/	/
91	17CEAO03091	Sashikumar.M	IV-CIVIL	/	/	a	/	/	/
92	17CEAO03092	SasiKumar.A	IV-CIVIL	/	/	/	/	/	/
93	17CEAO03093	Sathyaseelan.M	IV-CIVIL	/	/	a	/	/	/
94	17CEAO03094	SevugaPerumal.D	IV-CIVIL	/	/	/	a	/	/
95	17CEAO03095	ShekAbdulla.A	IV-CIVIL	/	/	/	/	a	/
96	17CEAO03096	SindhuShree.K	IV-CIVIL	a	/	/	/	/	/
97	17CEAO03097	Siva Ganesh.N	IV-CIVIL	/	/	/	/	/	/
98	17CEAO03098	Siva Sangar.M	IV-CIVIL	/	/	/	/	a	/
99	17CEAO03099	Stalin GnanaPrakash.M	IV-CIVIL	/	/	/	/	/	/
100	17CEAO03100	Subramaniyan.N	IV-CIVIL	/	/	/	/	/	/
101	17CEAO03101	Sudhakar.C	IV-CIVIL	/	/	/	/	/	a
102	17CEAO03102	Sudharsan.K	IV-CIVIL	/	/	/	/	/	/
103	17CEAO03103	SuhirthaJothi.M	IV-CIVIL	/	/	/	/	/	/
104	17CEAO03104	Sujitha.P	IV-CIVIL	/	/	a	/	/	/
105	17CEAO03105	Surendar.R	IV-CIVIL	a	/	/	/	/	/
106	17CEAO03106	Syed AareifAhamed.M	IV-CIVIL	/	/	a	/	/	/
107	17CEAO03107	Thamizharasan.S	IV-CIVIL	/	/	/	/	a	/
108	17CEAO03108	TharunKumar.A.B	IV-CIVIL	/	/	/	/	/	/
109	17CEAO03109	Thirukumar.G	IV-CIVIL	/	/	/	a	/	/
110	17CEAO03110	Vasanth.A	IV-CIVIL	/	/	/	a	/	/
111	17CEAO03111	VasanthaKumar.K	IV-CIVIL	/	/	/	/	/	/
112	17CEAO03112	Vasanthi.S	IV-CIVIL	/	/	/	/	/	/
113	17CEAO03113	Venkateshan.R	IV-CIVIL	/	/	/	/	a	/

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114	17CEAO03114	Venkateshwaran.M	IV-CIVIL	a	/	/	/	/	/
115	17CEAO03115	Vignesh.R	IV-CIVIL	/	/	/	/	/	/
116	17CEAO03116	Vijay.G	IV-CIVIL	/	a	/	/	/	/
117	17CEAO03117	VinothKumar.K	IV-CIVIL	/	/	/	/	/	/
118	17CEAO03118	Vishnu.R	IV-CIVIL	/	/	/	/	/	/
119	17CEAO03119	Yogaraj.S	IV-CIVIL	/	/	a	/	/	/
120	17CEAO03120	Yuvaraj.G	IV-CIVIL	/	/	/	/	/	/
121	17CEAO03121	Gobinath.J	IV-CIVIL	/	/		/	/	/
122	17CEAO03122	Mani.P	IV-CIVIL	/	/	/	a	/	/
123	17CEAO03123	Rajapandi.S	IV-CIVIL	/	/	/	/	/	/
124	17CEAO03124	Sivakumar .V	IV-CIVIL	/	/	/	/	/	a
125	17CEAO03125	Venkatesh.N	IV-CIVIL	/	/	/	/	/	/
126	17CEAO03126	Vignesh.T	IV-CIVIL	a	/	/	a	/	/
127	17CEAO03127	S.KayalVizhi	II-ME	/	/	/	/	/	/
128	17CEAO03128	MadhumithaMurali	II-ME	/	a	/	/	/	/
129	17CEAO03129	S.Poornimadevi	II-ME	a	/	/	/	/	/
			Number of Students Present	118	124	115	114	121	125
			Number of students absent	11	05	14	15	08	04
			Program Co-ordinator signature						

V. Muthu
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

QUIZ SAMPLE QUESTION PAPER & ANSWER

1. The phases of highway planning do not include the following?

a) Assessment of road length requirement b) Preparation of master plan

c) Showing the phasing of a plan in five year plan **d) Financing**

2. Which type of roads can be utilized during monsoon?

a) Unpaved roads b) Gravel roads c) Fair weather roads **d) Bituminous roads**

3. The Nagpur plan classified the roads based on _____

a) Location b) Function **c) Location and function** d) Annual daily traffic

4. The roads that connect the district headquarters to important city of other state is called _____

a) National Highway **b) State Highway** c) Major district road d) Other district road

5. The arterial roads are a classification of which type of roads?

a) Rural roads **b) Urban Rods** c) National highway d) State highway

6. The rectangular pattern of roads has been adopted in which Indian city?

a) New Delhi **b) Chandigarh** c) Hyderabad d) Mumbai

7. The Nagpur plan formulae assumed which type of pattern?

a) Star and grid b) Star and circular c) Hexagonal d) Circular

8. The Nagpur plan conference was held in which year?

a) 1941 b) 1942 **c) 1943** d) 1947

9. The highway research Board was set up in which year?

a) 1947 b) 1953 c) 1963 **d) 1973**

10. The second 20 year development plan conference was held in which city?

a) Nagpur **b) Bombay** c) Madras d) Lucknow

V. Nathma

PROGRAM COORDINATOR

COLLEGE OF ENGG. & TECHNOLOGY NATHAM

V. Nathma

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

STUDENT FEEDBACK

Name of the Student : Indhumathi. V	Year / Semester: IV - Civil
Name of the Program: ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices	✓			
3	Examples Provided during this course		✓		
4	Course delivered by Resource Person			✓	
5	Time Management				✓
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	The session was going good. From this course I learn Road design, geometry design & Types of Pavements.			

V. Muthumala
PROGRAM COORDINATOR

V. Muthumala
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STUDENT FEEDBACK

Name of the Student : RAJESH.M	**Year / Semester:** IV - Civil
Name of the Program: ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content				✓
2	Way of exposed new knowledge and practices			✓	
3	Examples Provided during this course		✓		
4	Course delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	The session gives the points about Road design.			

V. Muthumala
PROGRAM COORDINATOR

V. Muthumala
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STUDENT FEEDBACK

Name of the Student : G. Vijay	Year / Semester: IV - Civil
Name of the Program: ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices	✓			
3	Examples Provided during this course	✓			
4	Course delivered by Resource Person	✓			
5	Time Management		✓		
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	Good & Informative Session. I need extra sessin like this.			

V. Muthumma
PROGRAM COORDINATOR

NPR COLLEGE OF ENGINEERING & TECHNOLOGY NATHAM

V. Muthuraj
HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

STUDENT FEEDBACK SUMMARY REPORT

TOTAL STRENGTH:129 **ATE:10.03.2018**

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	109	10	6	2
2	Way of exposed new knowledge and practices	102	9	13	3
3	Examples Provided during this course	102	15	5	5
4	Course delivered by Resource Person	114	7	6	0
5	Time Management	98	8	16	5
6	Overall rating of this course	101	9	10	7
7	Average	104.3	9.7	9.3	3.7

NUMBER OF STUDENTS SUCCESSFULLY COMPLETED: 127



PROGRAM COORDINATOR

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

SUMMARY REPORT

The Department of Civil Engineering organized add on course on **"ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE"** from 3/2/2018 to 10/3/2018 (Saturdays only) & 40 hours at Computer Design & Drafting Laboratory.

During the inauguration Deva.R.,IV-Civil has delivers welcome address. Dr.B.Maruthukannan, Principal of our college inaugurated the program delivered the inaugural address. Resource person J.Ramesh Pandian & Vijay.M, CADD centre Training Services Private Limited has shared their knowledge with our students.

129 Students were attended from Civil& M.E-Structural Students, 127 Students those participated and successfully completed the Quiz program has awarded with certificates.

Gokulraj.S, IV Civil was delivered vote of thanks address.

COLLEGE OF ENGG. & TECHNOLOGY * NPR * NATHAM

V. Muthumca

PROGRAM COORDINATOR

V. Muthumca

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON ROAD DESIGN & ANALYSIS USING MX ROAD SOFTWARE

COURSE MATERIAL

Material Link:

1. https://www.mowhs.gov.bt/wp-content/uploads/2015/03/MX-Road-Manual-PDF.pdf
2. https://www.scribd.com/document/232567488/MXRoad-Student-Software-Manual
3. https://www.ripublication.com/ijaerspl2018/ijaerv13n7spl_36.pdf
4. http://app.worldwide.erau.edu/_Bentley_Mx_Road_V8i_Book_Mediafile_Free_File_Sharing.pdf
5. http://e168050284fb772581d78e541762dbaf.innovarauco.cl/bentley-mx-road-v8i-user-manual.pdf
6. http://www.ascent-journals.com/IJERIA/Vol10No2/3-Mir%20Iqbal%20Faheem-138.pdf

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PROGRAM COORDINATOR **HoD-CIVIL** **PRINCIPAL**

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Reach the Star

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON

"ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING"

THIS IS CERTIFY THAT OF

MANI RAGUL M - 920814103049 - IV - CIVIL

HAS ATTENDED THE ADD ON COURSE ON "ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING" ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING HELD ON 03.02.2018 TO 10.03.2018 -40 HOURS.

V. Mohan

HOD

Principal
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DEPARTMENT OF CIVIL ENGINEERING

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THIS IS CERTIFY THAT OF

GEETHA.M - 920814103027 - IV - CIVIL

HAS ATTENDED THE ADD ON COURSE ON "ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING" ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING HELD ON 03.02.2018 TO 10.03.2018 -40 HOURS.

V. Sathya

HOD

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
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ADD ON COURSE ON

"ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING"

THIS IS CERTIFY THAT OF

ISHWARYA. G - 920814103037 - IV - CIVIL

HAS ATTENDED THE ADD ON COURSE ON "ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING" ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING HELD ON 03.02.2018 TO 10.03.2018 -40 HOURS.

V. Sathish
HOD

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
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PRINCIPAL

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NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India
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Phone No. 04544- 246 500, 246501, 246502
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DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON

"ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING"

THIS IS CERTIFY THAT OF

T. SARAVANAN - 920814103090 - IV - CIVIL

HAS ATTENDED THE ADD ON COURSE ON "ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING" ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING HELD ON 03.02.2018 TO 10.03.2018 -40 HOURS.

HOD

Dr. J.SUNDARARAJAN
B.E., M.Tech., Ph.D.
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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Reach the Star

DEPARTMENT OF CIVIL ENGINEERING

ADD ON COURSE ON

"ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING"

THIS IS CERTIFY THAT OF

AJITH KUMAR. G - 920814103303 - IV CIVIL

HAS ATTENDED THE ADD ON COURSE ON "ROAD DESIGN & ANALYSIS USING MX ROAD TRAINING" ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING HELD ON 03.02.2018 TO 10.03.2018 -40 HOURS.

V. Muthumani
HOD

Dr. J.SUNDARARAJAN
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

INDEX

COURSE NAME: 3D DESIGN BY USING GOOGLE SKETCH UP

COURSE CODE: 17CECC04

ACADEMIC YEAR: 2017-2018 SEMESTER: EVEN DURATION: 30 HOURS

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3	INVITATION	4
4	COURSE CONTENT	5
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NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PROGRAM COORDINATOR

HoD-CIVIL

IQAC

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Head of the Department
Department of Civil Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

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NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

Date : 12.02.2018

From

Mr. S. Ponraju.
AP/Civil Engineering
NPR College of Engineering & Technology.
Natham.

TO

The Principal.
NPR College of Engineering & Technology.
Natham.

Respected Sir,

Sub: Request for permission to conduct certificate program for Civil Students-reg

We have planned to conduct a certificate course on "3D DESIGN BY USING GOOGLE SKETCH UP" to our II & III - Civil students from 17.03.2018, 24.03.2018, 31.3.2018, 07.04.2018, 13.4.2018 (30 Hours) in our college premises. We are proposed Mr. V. Muthukumar, HOD, Department of Civil Engineering NPR College of Engineering & Technology as a Internal resource person for this certificate course program, kindly permit us to conduct the same.

Thanking you.

Yours truly,

V. Muthukumar

S. Ponraju

Head of the Department
Department of Civil Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401

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CIRCULAR

NPRCET/OFF/CIVIL/VAC/2017-2018

DATE: 19.02.2018

This is to inform that Department of Civil Engineering is planned to conduct a Certificate Course on **"3D DESIGN BY USING GOOGLE SKETCH UP"** for the students during this even semester 2017-2018.Interested students can enroll their name to the program coordinator on or before 15.03.2018.

The details of the training program are given below.

COURSE NAME	GOOGLE SKETCH UP
INTERNAL RESOURCE PERSONS	1.Mr.V.Muthukumar,HOD,NPRCET
	2.Mr. K.Karuppasamy,AssistantProfessor,NPRCET
VENUE	Computer Aided Design & Drafting Laboratory,
	NPR College of Engineering &Technology
DATE & DURATION	17.03.2018 to 13.04.2018-Saturdays only (30 Hours)
PROGRAM COORDINATOR	Mr.S.Ponrasu ,Assistant Professor,NPRCET

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Copy to:
1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

CERTIFICATE COURSE ON

"3D DESIGN BY USING GOOGLE SKETCH UP"

on 17th March,2018

Venue: Computer Aided Design & Drafting Laboratory at 9.00 A.M.

INTERNAL RESOURCE PERSON

Mr.V.MUTHUKUMAR,

HOD/Civil,NPRCET

PRINCIPAL

Dr.B.MARUTHUKANNAN

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Civil Engineering,

NPR College of Engineering and Technology,

NPR Nagar, Natham.

NATHAM

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

17CECC04-3D DESIGN BY USING GOOGLE SKETCH UP

COURSE CONTENT

CHAPTER	TOPICS TO BE DISCUSSED
1	Meeting Sketch Up Selections - Basic selections - Window selections Modifier keys to add to and subtract from your selection - Tips for accurate and quick selection sets Components-Components vs. groups - Editing components - Component browser Paint Bucket-Applying colors and materials - Editing colors and materials - Materials browser
2	Eraser - Erase single or multiple edges easily - How to soften or hide edges with the eraser Rectangle - Drawing rectangles on any surface -Draw a perfect square or golden rectangle - Being accurate Lines - Best practices for drawing lines/ edges - Drawing accurately - Dividing edges Circle/Polygon-Drawing a circle or polygon - Changing the number of sides of a circle or polygon - Viewing addition information through the entity info dialog box Arc-How to draw arcs - Drawing tangent arcs - Drawing continuous smooth arcs - Defining number of arc segments.
3	Freehand - Use freehand to draw free form edges Move - Move is an auto-selecting tool -Pre-select objects for more control - Moving objects with precision - Common problems-Select, Copy and Auto-fold videos will show more about the move tool - Push/Pull - Pull any flat shape into 3d - Tips for accuracy and efficiency - Cut away geometry -Inferring to other geometry Rotate - How rotate works - Examples of the rotate tool in action - Lock or define the orientation of the tool
4	Follow Me - Introduction to follow-me capabilities - Tips about how the shape and path work together -Speedy tips that create instant follow-me results - Creating lathed objects Scale - Scaling in 2d and 3d - Accuracy when scaling-Use modifier keys for more options - Be aware of axis when scaling Offset - Offsetting surfaces vs. edges Inferring and speedy tips Tape Measure - Measure distances - Create construction guidelines - Scale groups or the whole model based on known measurements
5	Dimensioning - Add dimensions directly to your model - Adjust dimension settings Protractor - Measure angles-Create construction guidelines - Control the tool orientation - Establishing roof slopes Text & 3D Text-Create on-screen text and annotations - Change text settings - Pixel vs. real world text size, Creating 3D text Axes-Re-orient the default red, green and blue axes - Tips for quick axes orientation

Criteria to get Certificate:

- Students should register their names for this course.
- Students must have 75 % attendance.
- Student should secure 50% marks in the Exam.

Prepared by- Mr.S.Ponrasu ,Assistant Professor,NPRCET

Approved by,

HoD/CIVIL

Head of the Department
Department of Civil Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

REGISTERED STUDENTS NAME LIST

S.NO	REGISTERNUMBER	STUDENT NAME	YEAR/CIVIL
1	920816103001	Aarthisai R	II-CIVIL
2	920816103002	Abdul ajees M	II-CIVIL
3	920816103003	Adilkhan A	II-CIVIL
4	920816103004	Ajmeerkaja J	II-CIVIL
5	920816103005	Akash V S	II-CIVIL
6	920816103006	Balachandar G	II-CIVIL
7	920816103009	Gopinath A	II-CIVIL
8	920816103010	Hariharan G	II-CIVIL
9	920816103011	Hariharan T	II-CIVIL
10	920816103012	JeyamariiswaryarajaV	II-CIVIL
11	920816103014	Keerthana M	II-CIVIL
12	920816103016	KennetRoosvelt D	II-CIVIL
13	920816103017	Manikandan S	II-CIVIL
14	920816103018	Mathialagan M S	II-CIVIL
15	920816103020	Muthupriya K	II-CIVIL
16	920816103021	Muthuraman V	II-CIVIL
17	920816103022	Naveen Kumar S	II-CIVIL
18	920816103023	NivinHaris K	II-CIVIL
19	920816103024	Poongavanam V	II-CIVIL
20	920816103025	Pravinraja K B	II-CIVIL
21	920816103026	Raja K	II-CIVIL
22	920816103027	Rajkumar N	II-CIVIL
23	920816103028	Sakthivel M	II-CIVIL
24	920816103029	ShalikinFarjana J	II-CIVIL
25	920816103030	Siva P	II-CIVIL
26	920816103032	Siva Ram R	II-CIVIL
27	920816103033	Venkatesan A	II-CIVIL
28	920816103034	Yogalakshmi L	II-CIVIL
29	920816103306	Mathanmohan.s	II-CIVIL
30	920816103314	Tamil selvan . S	II-CIVIL
31	920816103307	Murukesh. U	II-CIVIL
32	920816103309	Rajakumar (H)	II-CIVIL
33	920816103305	Mani rathinam.M	II-CIVIL
34	920816103310	Ranjith .R	II-CIVIL
35	920816103312	Subash.M	II-CIVIL

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36	920816103311	Soniya	II-CIVIL
37	920816103308	Pandiarajan.R	II-CIVIL
38	920816103301	Hariharan.S	II-CIVIL
39	920816103313	Surya.P.L	II-CIVIL
40	920816103302	Hariharan.D	II-CIVIL
41	920816103304	Keerthana	II-CIVIL
42	920816103303	Kasiviswanathan	II-CIVIL
43	920815103001	Adithiyan.K (H)	III-CIVIL
44	920815103003	Ajith.P (H)	III-CIVIL
45	920815103004	Ajithsugumar.K (H)	III-CIVIL
46	920815103005	Akash.B	III-CIVIL
47	920815103006	AravindRoshan.V	III-CIVIL
48	920815103007	ArokiyaAbinash.A	III-CIVIL
49	920815103008	Arunprakash.R (H)	III-CIVIL
50	920815103009	Ayyanarmoorthi.T	III-CIVIL
51	920815103010	Bala murali.JM	III-CIVIL
52	920815103011	Boopathy.S	III-CIVIL
53	920815103012	Datchinamoorthy.RB	III-CIVIL
54	920815103013	Deeraj.V	III-CIVIL
55	920815103014	Devaprakash.G	III-CIVIL
56	920815103015	Devaraj.S	III-CIVIL
57	920815103017	Dinesh kumar.M	III-CIVIL
58	920815103018	Dinesh kumar.R	III-CIVIL
59	920815103019	Durgadevi.M	III-CIVIL
60	920815103020	Francis Darmic.B	III-CIVIL
61	920815103021	Govarthan.S	III-CIVIL
62	920815103022	Gowtham.K	III-CIVIL
63	920815103023	Harikishore.K	III-CIVIL
64	920815103024	Harikrishnan.E (H)	III-CIVIL
65	920815103025	Hariprasath.M (H)	III-CIVIL
66	920815103026	Jayachandran.P	III-CIVIL
67	920815103027	Jerin.J	III-CIVIL
68	920815103028	Jeyaprakash.M	III-CIVIL
69	920815103030	KarpagaMeena.V	III-CIVIL
70	920815103031	Karthick.S	III-CIVIL
71	920815103032	Karthika.R	III-CIVIL
72	920815103033	Karthikeyan.C	III-CIVIL
73	920815103034	KinsClinton.J	III-CIVIL
74	920815103035	Kishore muthiah.KM	III-CIVIL

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75	920815103036	Kishore prakash.N	III-CIVIL
76	920815103037	Krithika.P (H)	III-CIVIL
77	920815103038	Manikandan.R.B	III-CIVIL
78	920815103039	Manikandan.S	III-CIVIL
79	920815103040	Mohamed Idris.J	III-CIVIL
80	920815103041	Mohamed sikkandar.A	III-CIVIL
81	920815103043	Mohamed yousuf.I	III-CIVIL
82	920815103044	Muneeswaran.M	III-CIVIL
83	920815103045	MuthuYashika.U	III-CIVIL
84	920815103046	Nagaraj.G	III-CIVIL
85	920815103047	Nagarajan.R	III-CIVIL
86	920815103048	Nainamohamed.M	III-CIVIL
87	920815103050	Naveen.P	III-CIVIL
88	920815103051	Nivetha.K (H)	III-CIVIL
89	920815103052	Pavatharani.T (H)	III-CIVIL
90	920815103301	Karthikeyan.A.P	III-CIVIL
91	920815103302	Kesavan.A	III-CIVIL
92	920815103303	Nalluchamy.P	III-CIVIL
93	920815103702	Mohan raj S	III-CIVIL
94	920815103053	Prasannakrishna.R	III-CIVIL
95	920815103055	Premkumar.M	III-CIVIL
96	920815103056	Priyadharshini.A	III-CIVIL
97	920815103057	Priyadharshini.R	III-CIVIL
98	920815103059	Ramachandran.M	III-CIVIL
99	920815103060	Ramcharan.M	III-CIVIL
100	920815103061	Ranjithkumar.E	III-CIVIL
101	920815103062	Ravikumar.M	III-CIVIL
102	920815103063	Ribaankhan.V	III-CIVIL
103	920815103064	Rishvanabegam.A	III-CIVIL
104	920815103065	Sakthimohan.R	III-CIVIL
105	920815103066	Sam jebaraj.P	III-CIVIL
106	920815103067	Sankar.A	III-CIVIL
107	920815103068	Saran raj.S	III-CIVIL
108	920815103069	Saravanamoorthy .S	III-CIVIL
109	920815103070	Saravanan.B	III-CIVIL
110	920815103071	Sarumathi .S	III-CIVIL
111	920815103072	Sathishkumar.M	III-CIVIL
112	920815103073	Sathishkumar K	III-CIVIL

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113	920815103074	Sathishkumar.V	III-CIVIL
114	920815103075	Selvakumar.M	III-CIVIL
115	920815103076	Selvam.P	III-CIVIL
116	920815103077	Sheik ibrahim.K	III-CIVIL
117	920815103078	Sindhiyamargreat.A	III-CIVIL
118	920815103079	Sivabalan.M	III-CIVIL
119	920815103080	Sivanesh.J	III-CIVIL
120	920815103081	Sridharan.R	III-CIVIL
121	920815103082	Sripalaniyandi.M	III-CIVIL
122	920815103083	Suba.G	III-CIVIL
123	920815103084	Subanandhini.M	III-CIVIL
124	920815103085	Subashchandrabose.M	III-CIVIL
125	920815103086	Subasri.J.	III-CIVIL
126	920815103087	Sudha.M	III-CIVIL
127	920815103088	Surya.A	III-CIVIL
128	920815103089	Surya.P	III-CIVIL
129	920815103090	Syed Shahulhameed.A	III-CIVIL
130	920815103091	Tamil selvan.K	III-CIVIL
131	920815103092	Thirumalairaja.KGR	III-CIVIL
132	920815103093	Thirumoorthi.S	III-CIVIL
133	920815103094	Thivagar.S	III-CIVIL
134	920815103095	Vasudevan.S	III-CIVIL
135	920815103096	Venkatesh.S	III-CIVIL
136	920815103097	Vetrikumaran.C	III-CIVIL
137	920815103098	Vetrivel.S	III-CIVIL
138	920815103099	Vignesh.R	III-CIVIL
139	920815103100	Vijayapandi.K	III-CIVIL
140	920815103101	Vijaykrishnan.R	III-CIVIL
141	920815103102	Vishnu.M	III-CIVIL
142	920815103304	Raja.N	III-CIVIL
143	920815103305	Vinotha.A	III-CIVIL
144	920815103701	Surya.S.P	III-CIVIL

PROGRAM COORDINATOR

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Head of the Department
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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

COURSE SCHEDULE

Date: 19.02.2018

DAY	TIME	TOPICS TO BE DISCUSSED
17.03.2018	9.00 a.m. to 9.30 a.m.	Inauguration-Mr.B.Maruthukannan,Principal,NPRCET
	9.30 a.m. to 10.30 a.m.	Meeting Sketch Up Selections - Basic selections - Window selections Mr.V.Muthukumar,HOD-Civil,NPRCET
	10.30 a.m. to 10.45 a.m.	TEA BREAK
	10.45 a.m. to 12.45 p.m.	Modifier keys to add to and subtract from your selection - Tips for accurate and quick selection sets Components Mr. K.Karuppasamy,AP-Civil,NPRCET
	12.45 p.m. to 01.30 p.m.	LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	Components vs. groups - Editing components - Component browser Paint Bucket Mr.S.Ponrasu , AP-Civil,NPRCET
	03.00 p.m. to 3.15 p.m.	TEA BREAK
	3.15 p.m. to 4.15 p.m.	Applying colors and materials - Editing colors and materials - Materials browser Mr. K.Karuppasamy,AP-Civil,NPRCET
24.03.2018	9.00 a.m. to 10.30 a.m.	Eraser - Erase single or multiple edges easily - How to soften or hide edges with the eraser Rectangle - Drawing rectangles on any surface Mr.V.Muthukumar,HOD-Civil,NPRCET
	10.30 a.m. to 10.45 a.m.	TEA BREAK
	10.45 a.m. to 12.45 p.m.	Draw a perfect square or golden rectangle - Being accurate Lines - Best practices for drawing lines/ edges - Drawing accurately - Dividing edges Circle/Polygon Mr. K.Karuppasamy,AP-Civil,NPRCET
	12.45 p.m. to 01.30 p.m.	LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	Drawing a circle or polygon - Changing the number of sides of a circle or polygon - Viewing addition information through the entity info dialog box Arc Mr.S.Ponrasu , AP-Civil,NPRCET
	03.00 p.m. to 3.15 p.m.	TEA BREAK
	3.15 p.m. to 4.15 p.m.	How to draw arcs - Drawing tangent arcs - Drawing continuous smooth arcs - Defining number of arc segments. Mr. K.Karuppasamy,AP-Civil,NPRCET
	9.00 a.m. to 10.30 a.m.	Freehand - Use freehand to draw free form edges Move - Move is an auto-selecting tool Mr.V.Muthukumar,HOD-Civil,NPRCET
	10.30 a.m. to 10.45 a.m.	TEA BREAK

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31.3.2018	10.45 a.m. to 12.45 p.m.	Pre-select objects for more control - Moving objects with precision - Common problems Mr. K.Karuppasamy,AP-Civil,NPRCET
	12.45 p.m. to 01.30 p.m.	LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	Select, Copy and Auto-fold videos will show more about the move tool -Push/Pull - Pull any flat shape into 3d - Tips for accuracy and efficiency - Cut away geometry Mr.S.Ponrasu , AP-Civil,NPRCET
	03.00 p.m. to 3.15 p.m.	TEA BREAK
	3.15 p.m. to 4.15 p.m.	Inferring to other geometry Rotate - How rotate works - Examples of the rotate tool in action - Lock or define the orientation of the tool Mr. K.Karuppasamy,AP-Civil,NPRCET
07.4.2018	9.00 a.m. to 10.30 a.m.	Follow Me - Introduction to follow-me capabilities - Tips about how the shape and path work together Mr.V.Muthukumar,HOD-Civil,NPRCET
	10.30 a.m. to 10.45 a.m.	TEA BREAK
	10.45 a.m. to 12.45 p.m.	Speedy tips that create instant follow-me results - Creating lathed objects Scale - Scaling in 2d and 3d - Accuracy when scaling. Mr. K.Karuppasamy,AP-Civil,NPRCET
	12.45 p.m. to 01.30 p.m.	LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	Use modifier keys for more options - Be aware of axis when scaling Offset - Offsetting surfaces vs. edges Mr.S.Ponrasu , AP-Civil,NPRCET
	03.00 p.m. to 3.15 p.m.	TEA BREAK
	3.15 p.m. to 4.15 p.m.	Inferring and speedy tips Tape Measure - Measure distances - Create construction guidelines - Scale groups or the whole model based on known measurements Mr. K.Karuppasamy,AP-Civil,NPRCET
13.4.2018	9.00 a.m. to 10.30 a.m.	Dimensioning - Add dimensions directly to your model - Adjust dimension settings Protractor - Measure angles Mr.V.Muthukumar,HOD-Civil,NPRCET
	10.30 a.m. to 10.45 a.m.	TEA BREAK
	10.45 a.m. to 12.45 p.m.	Create construction guidelines - Control the tool orientation - Establishing roof slopes Text & 3D Text Mr. K.Karuppasamy,AP-Civil,NPRCET
	12.45 p.m. to 01.30 p.m.	LUNCH BREAK
	01.30 p.m. to 3.00 p.m.	Create on-screen text and annotations - Change text settings - Pixel vs. real world text size, Creating 3D text Axes Mr.S.Ponrasu , AP-Civil,NPRCET
	03.00 p.m. to 3.15 p.m.	TEA BREAK

	3.15 p.m. to 3.45 p.m.	Re-orient the default red, green and blue axes - Tips for quick axes orientation Mr. K.Karuppasamy,AP-Civil,NPRCET
	3.45 p.m. to 4.15 p.m.	Valedictory-Mr.V.Muthukumar,HOD-Civil,NPRCET

PROGRAM COORDINATOR **HoD-CIVIL** **IQAC** **PRINCIPAL**

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

STUDENT ATTENDANCE

S.NO	ROLL NUMBER	STUDENT NAME	YEAR/CIVIL	17/3	24/3	31/3	7/4	13/4
1	17CECC04001	Aarthisai R	II-CIVIL	1	1	1	a	1
2	17CECC04002	Abdul ajees M	II-CIVIL	1	1	1	1	1
3	17CECC04003	Adilkhan A	II-CIVIL	1	1	1	1	1
4	17CECC04004	Ajmeerkaja J	II-CIVIL	1	1	a	1	1
5	17CECC04005	Akash V S	II-CIVIL	1	1	1	1	1
6	17CECC04006	Balachandar G	II-CIVIL	1	1	1	1	1
7	17CECC04007	Gopinath A	II-CIVIL	1	1	1	1	1
8	17CECC04008	Hariharan G	II-CIVIL	1	a	1	1	a
9	17CECC04009	Hariharan T	II-CIVIL	1	1	1	1	a
10	17CECC04010	JeyamariiswaryarajaV	II-CIVIL	a	1	1	1	1
11	17CECC04011	Keerthana M	II-CIVIL	1	1	1	1	1
12	17CECC04012	KennetRoosvelt D	II-CIVIL	1	1	1	1	1
13	17CECC04013	Manikandan S	II-CIVIL	1	a	a	1	1
14	17CECC04014	Mathialagan M S	II-CIVIL	1	1	a	1	1
15	17CECC04015	Muthupriya K	II-CIVIL	1	1	1	1	1
16	17CECC04016	Muthuraman V	II-CIVIL	a	1	1	1	1
17	17CECC04017	Naveen Kumar S	II-CIVIL	1	1	1	1	1
18	17CECC04018	NivinHaris K	II-CIVIL	1	1	1	a	1
19	17CECC04019	Poongavanam V	II-CIVIL	1	1	1	1	1
20	17CECC04020	Pravinraja K B	II-CIVIL	1	a	1	1	1
21	17CECC04021	Raja K	II-CIVIL	1	1	1	1	1
22	17CECC04022	Rajkumar N	II-CIVIL	1	1	1	1	a
23	17CECC04023	Sakthivel M	II-CIVIL	1	1	a	1	1
24	17CECC04024	ShalikinFarjana J	II-CIVIL	1	1	1	1	1
25	17CECC04025	Siva P	II-CIVIL	a	1	1	1	1
26	17CECC04026	Siva Ram R	II-CIVIL	1	1	1	a	1
27	17CECC04027	Venkatesan A	II-CIVIL	1	1	1	1	1
28	17CECC04028	Yogalakshmi L	II-CIVIL	1	1	1	1	1
29	17CECC04029	Mathanmohan.s	II-CIVIL	1	1	a	1	1
30	17CECC04030	Tamil selvan . S	II-CIVIL	1	a	1	1	1
31	17CECC04031	Murukesh. U	II-CIVIL	1	1	1	1	1
32	17CECC04032	Rajakumar (H)	II-CIVIL	1	a	1	1	a
33	17CECC04033	Mani rathinam.M	II-CIVIL	1	1	1	1	1
34	17CECC04034	Ranjith .R	II-CIVIL	1	p	a	1	1
35	17CECC04035	Subash.M	II-CIVIL	1	1	1	1	1

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36	17CECC04036	Soniya	II-CIVIL					
37	17CECC04037	Pandiarajan.R	II-CIVIL					
38	17CECC04038	Hariharan.S	II-CIVIL					
39	17CECC04039	Surya.P.L	II-CIVIL					
40	17CECC04040	Hariharan.D	II-CIVIL					
41	17CECC04041	Keerthana	II-CIVIL					
42	17CECC04042	Kasiviswanathan	II-CIVIL					
43	17CECC04043	Adithiyan.K (H)	III-CIVIL					
44	17CECC04044	Ajith.P (H)	III-CIVIL					
45	17CECC04045	Ajithsugumar.K (H)	III-CIVIL					
46	17CECC04046	Akash.B	III-CIVIL					
47	17CECC04047	AravindRoshan.V	III-CIVIL					
48	17CECC04048	ArokiyaAbinash.A	III-CIVIL					
49	17CECC04049	Arunprakash.R (H)	III-CIVIL					
50	17CECC04050	Ayyanarmoorthi.T	III-CIVIL					
51	17CECC04051	Bala murali.JM	III-CIVIL					
52	17CECC04052	Boopathy.S	III-CIVIL					
53	17CECC04053	Datchinamoorthy.RB	III-CIVIL					
54	17CECC04054	Deeraj.V	III-CIVIL					
55	17CECC04055	Devaprakash.G	III-CIVIL					
56	17CECC04056	Devaraj.S	III-CIVIL					
57	17CECC04057	Dinesh kumar.M	III-CIVIL					
58	17CECC04058	Dinesh kumar.R	III-CIVIL					
59	17CECC04059	Durgadevi.M	III-CIVIL					
60	17CECC04060	Francis Darmic.B	III-CIVIL					
61	17CECC04061	Govarthan.S	III-CIVIL					
62	17CECC04062	Gowtham.K	III-CIVIL					
63	17CECC04063	Harikishore.K	III-CIVIL					
64	17CECC04064	Harikrishnan.E (H)	III-CIVIL					
65	17CECC04065	Hariprasath.M (H)	III-CIVIL					
66	17CECC04066	Jayachandran.P	III-CIVIL					
67	17CECC04067	Jerin.J	III-CIVIL					
68	17CECC04068	Jeyaprakash.M	III-CIVIL					
69	17CECC04069	KarpagaMeena.V	III-CIVIL					
70	17CECC04070	Karthick.S	III-CIVIL					
71	17CECC04071	Karthika.R	III-CIVIL					
72	17CECC04072	Karthikeyan.C	III-CIVIL					
73	17CECC04073	KinsClinton.J	III-CIVIL					
74	17CECC04074	Kishore muthiah.KM	III-CIVIL					
75	17CECC04075	Kishore prakash.N	III-CIVIL					
76	17CECC04076	Krithika.P (H)	III-CIVIL					

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77	17CECC04077	Manikandan.R.B	III-CIVIL	/	/	/	a	/
78	17CECC04078	Manikandan.S	III-CIVIL	a	/	/	/	/
79	17CECC04079	Mohamed Idris.J	III-CIVIL	/	/	/	/	/
80	17CECC04080	Mohamed sikkandar.A	III-CIVIL	/	/	/	/	a
81	17CECC04081	Mohamed yousuf.I	III-CIVIL	/	/	/	/	/
82	17CECC04082	Muneeswaran.M	III-CIVIL	a	/	/	/	/
83	17CECC04083	MuthuYashika.U	III-CIVIL	/	a	/	/	/
84	17CECC04084	Nagaraj.G	III-CIVIL	/	/	/	a	/
85	17CECC04085	Nagarajan.R	III-CIVIL	/	/	a	/	/
86	17CECC04086	Nainamohamed.M	III-CIVIL	/	/	/	/	/
87	17CECC04087	Naveen.P	III-CIVIL	/	/	/	/	a
88	17CECC04088	Nivetha.K (H)	III-CIVIL	/	/	/	/	/
89	17CECC04089	Pavatharani.T (H)	III-CIVIL	/	/	/	/	/
90	17CECC04090	Karthikeyan.A.P	III-CIVIL	/	/	/	/	/
91	17CECC04091	Kesavan.A	III-CIVIL	a	/	/	/	/
92	17CECC04092	Nalluchamy.P	III-CIVIL	/	/	/	/	/
93	17CECC04093	Mohan raj S	III-CIVIL	/	/	/	/	/
94	17CECC04094	Prasannakrishna.R	III-CIVIL	/	/	/	/	/
95	17CECC04095	Premkumar.M	III-CIVIL	/	/	/	/	/
96	17CECC04096	Priyadharshini.A	III-CIVIL	/	/	/	a	/
97	17CECC04097	Priyadharshini.R	III-CIVIL	/	/	/	/	/
98	17CECC04098	Ramachandran.M	III-CIVIL	a	/	/	/	/
99	17CECC04099	Ramcharan.M	III-CIVIL	/	a	/	/	/
100	17CECC04100	Ranjithkumar.E	III-CIVIL	/	/	a	/	/
101	17CECC04101	Ravikumar.M	III-CIVIL	/	/	/	/	/
102	17CECC04102	Ribaankhan.V	III-CIVIL	/	/	/	/	/
103	17CECC04103	Rishvanabegam.A	III-CIVIL	a	/	a	/	/
104	17CECC04104	Sakthimohan.R	III-CIVIL	/	/	/	a	/
105	17CECC04105	Sam jebaraj.P	III-CIVIL	/	/	/	/	/
106	17CECC04106	Sankar.A	III-CIVIL	/	/	/	/	/
107	17CECC04107	Saran raj.S	III-CIVIL	/	/	/	/	/
108	17CECC04108	Saravanamoorthy .S	III-CIVIL	/	/	/	/	/
109	17CECC04109	Saravanan.B	III-CIVIL	/	/	/	/	/
110	17CECC04110	Sarumathi .S	III-CIVIL	/	/	/	/	/
111	17CECC04111	Sathishkumar.M	III-CIVIL	/	/	/	/	/
112	17CECC04112	Sathishkumar K	III-CIVIL	/	/	/	/	/
113	17CECC04113	Sathishkumar.V	III-CIVIL	/	/	/	/	/
114	17CECC04114	Selvakumar.M	III-CIVIL	/	/	/	/	/
115	17CECC04115	Selvam.P	III-CIVIL	/	/	/	/	/

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116	17CECC04116	Sheik ibrahim.K	III-CIVIL	/	/	/	/	/
117	17CECC04117	Sindhiyamargreat.A	III-CIVIL	/	/	/	/	/
118	17CECC04118	Sivabalan.M	III-CIVIL	/	/	/	/	/
119	17CECC04119	Sivanesh.J	III-CIVIL	/	/	/	/	/
120	17CECC04120	Sridharan.R	III-CIVIL	/	/	/	/	/
121	17CECC04121	Sripalaniyandi.M	III-CIVIL	/	/	/	/	/
122	17CECC04122	Suba.G	III-CIVIL	/	/	/	/	/
123	17CECC04123	Subanandhini.M	III-CIVIL	/	/	/	/	/
124	17CECC04124	Subashchandrabose.M	III-CIVIL	/	/	a	/	/
125	17CECC04125	Subasri.J.	III-CIVIL	/	/	/	/	/
126	17CECC04126	Sudha.M	III-CIVIL	/	/	/	/	/
127	17CECC04127	Surya.A	III-CIVIL	/	a	/	/	/
128	17CECC04128	Surya.P	III-CIVIL	/	/	/	a	/
129	17CECC04129	Syed Shahulhameed.A	III-CIVIL	/	/	/	/	/
130	17CECC04130	Tamil selvan.K	III-CIVIL	a	/	/	/	/
131	17CECC04131	Thirumalairaja.KGR	III-CIVIL	/	/	/	/	/
132	17CECC04132	Thirumoorthi.S	III-CIVIL	/	/	/	/	/
133	17CECC04133	Thivagar.S	III-CIVIL	/	/	a	/	/
134	17CECC04134	Vasudevan.S	III-CIVIL	/	/	/	/	/
135	17CECC04135	Venkatesh.S	III-CIVIL	/	/	/	/	/
136	17CECC04136	Vetrikumaran.C	III-CIVIL	/	/	/	/	/
137	17CECC04137	Vetrivel.S	III-CIVIL	/	/	/	/	/
138	17CECC04138	Vignesh.R	III-CIVIL	/	/	/	/	/
139	17CECC04139	Vijayapandi.K	III-CIVIL	/	/	a	/	/
140	17CECC04140	Vijaykrishnan.R	III-CIVIL	/	/	/	/	/
141	17CECC04141	Vishnu.M	III-CIVIL	/	a	/	/	/
142	17CECC04142	Raja.N	III-CIVIL	/	/	/	a	/
143	17CECC04143	Vinotha.A	III-CIVIL	/	/	/	/	/
144	17CECC04144	Surya.S.P	III-CIVIL	a	/	/	/	/
			Number of Students Present	128	134	129	131	136
			Number of students absent	16	10	15	13	08
			Program Co-ordinator signature					

V. Muthuman
HOD-CIVIL

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COLLEGE OF ENGG. & TECHNOLOGY ★ NPR ★ NATHAM

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

SAMPLE QUESTION PAPER & ANSWER

1. Which Displays animation keys and frame numbers, can be "scrubbed" to quickly view the results of the animation created?

- Time Slider
- **Render**
- Title Bar
- Tile

2. _____ is a polygonal mesh; that is, unlike an editable mesh, it uses more than three-sided polygons?

- Editable Poly
- Viewport
- Title Bar
- Editable Mesh

3.Which is the portion of a spline between two vertices?

- Tweens
- Element
- Segment
- Extents

4.Which is the color that an object reflects when illuminated by "good lighting." Also referred to as its natural color?

- Diffuse Color
- Editable Poly
- Specular color
- Title Bar

5.Which is a straight or curved line that connects two vertices in a mesh object or spline?

- Edge
- Tile
- Render
- Vertex

6.What is called when Two dimensional view of an object , as seen from the Top, Bottom, Front, Back, Left, or Right?

- Orthographic Views
- Perspective View
- Isometric View
- Modifiers

7.Area of the User Interface where the objects are displayed is called_____?

- Gizmo
- Vectors
- Viewport
- ViewCube

8. Which is a single point in a graphic image?

- Spline
- Edge
- Faces
- Pixel

9. Which is used To output the image or scene with camera, lights, shadows, modifiers, and materials applied to it?

- Vertex
- Grids
- Render
- Mesh

10. Which is a type of deformable object. It provides controls for manipulating a mesh object made up of triangular faces as an object and at three sub-object levels: vertex, edge and face?

- Keyframes
- Title Bar
- Element
- Editable Mesh

PROGRAM COORDINATOR

NPR COLLEGE & TECHNOLOGY NATHAM

HoD-Civil

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

STUDENT FEEDBACK

Name of the Student : Mani Kandan. S	**Year / Semester:** II - Civil
Name of the Program: 3D DESIGN BY USING GOOGLE SKETCH UP	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices	✓			
3	Examples Provided during this course	✓			
4	Course delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this course		✓		
7	Any Other Comments / Suggestions	from this course I understand freehand sketch by using google sketchup.			

PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

STUDENT FEEDBACK

Name of the Student : SAKTHIVEL.M	**Year / Semester:** II - CIVIL
Name of the Program: 3D DESIGN BY USING GOOGLE SKETCH UP	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices	✓			
3	Examples Provided during this course	✓			
4	Course delivered by Resource Person	✓			
5	Time Management		✓		
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	Good & Informative session.			

PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

HoD-CIVIL

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

STUDENT FEEDBACK

Name of the Student : S. karthick	**Year / Semester:** III - Civil
Name of the Program: 3D DESIGN BY USING GOOGLE SKETCH UP	

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices	✓			
3	Examples Provided during this course	✓			
4	Course delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this course			✓	
7	Any Other Comments / Suggestions	THE SESSION WAS GOING GOOD. I WANT ONE MORE SESSION LIKE THIS.			

PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

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DEPARTMENT OF CIVIL ENGINEERING

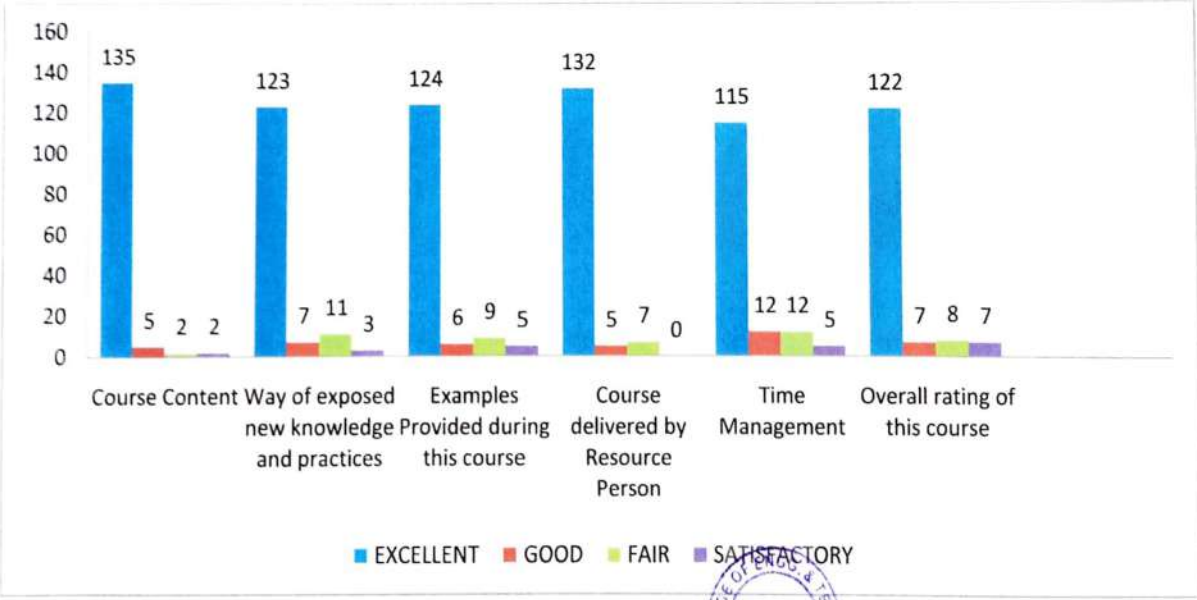
CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

STUDENT FEEDBACK SUMMARY REPORT

TOTAL STRENGTH:144 **DATE:13.04.2018**

S.NO	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	135	5	2	2
2	Way of exposed new knowledge and practices	123	7	11	3
3	Examples Provided during this course	124	6	9	5
4	Course delivered by Resource Person	132	5	7	0
5	Time Management	115	12	12	5
6	Overall rating of this course	122	7	8	7
7	Average	125.2	7.0	8.2	3.7

NUMBER OF STUDENTS SUCCESSFULLY COMPLETED:141



PROGRAM COORDINATOR **HoD-CIVIL** **PRINCIPAL**

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

SUMMARY REPORT

The Department of Civil Engineering organized Certificate program "3D DESIGN BY USING GOOGLE SKETCH UP" from 17.03.2018 to 13.04.2018-Saturdays only (30 Hours) at Computer Design &Drafting Laboratory.

During the inauguration Harihàran.D,II-Civil has delivers welcome address. Dr.B.Maruthukannan, Principal of our college inaugurated the program delivered the inaugural address. Internal Resource person Mr.V.Muthukumar& our department staffs have shared their knowledge with our students. This 35 hours course gives over view about "3D DESIGN BY USING GOOGLE SKETCH UP" and provides overview of Modelling techniques.

They also shared their knowledge Introduction – The GOOGLE SKETCH UP Interface, GOOGLE SKETCH UP First Project Modeling in GOOGLE SKETCH UP: Architecture Model, Introduction to Animation , Animation Principles , Character Poly Modeling , Introduction to the Materials: Interiors and Furniture , Textures and UV Workflows: The Soldier , Character Studio: Rigging , Character Studio: Animation , Introduction to Lighting: Interior Lighting , GOOGLE SKETCH UP Rendering , Mental Ray.So that students enable to have skills that will help them to design own construction by using GOOGLE SKETCH UP.

Totally 144 Students were attended from Civil II, III year. Students those participated and 141 successfully completed the program has awarded with certificates.

Keerthana, II,Civil was delivered vote of thanks address.

PROGRAM COORDINATOR

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE COURSE ON 3D DESIGN BY USING GOOGLE SKETCH UP

COURSE MATERIAL/MANUAL

Material Link:

1. https://www.proprofs.com/quiz-school/quizshow.php?title=3d-max-test-karan-desai&q=1
2. https://www.wiziq.com/tests/3ds-max
3. https://www.wiziq.com/online-tests/9868-basic-kloledge-of-3d-studio-max
4. https://gotest.pk/general-knowledge/computers/autodesk-3ds-max-quiz-online-test-mcqs/
5. https://testseries.edugorilla.com/tests/1518/3d-max

COLLEGE OF ENGG. & TECHNOLOGY NATHAM NPR

PROGRAM COORDINATOR **HoD-CIVIL** **PRINCIPAL**

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DEPARTMENT OF CIVIL ENGINEERING

Certificate Course on

"3D DESIGN BY USING GOOGLE SKETCH UP"

This is certify that BALACHANDAR.G-920816103006 - II-CIVIL has attended the Certificate Course on "3D DESIGN BY USING GOOGLE SKETCH UP" organized by Department of Civil Engineering held on 17.03.2018 to 13.04.2018 -30 Hours.

V. Muthukumar
HOD-CIVIL
(Mr.V.Muthukumar)

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL
(Dr.B.Maruthukannan)

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DEPARTMENT OF CIVIL ENGINEERING

Certificate Course on

"3D DESIGN BY USING GOOGLE SKETCH UP"

This is certify that MANIKANDAN.S - 920816103017 - II-CIVIL has attended the Certificate Course on "3D DESIGN BY USING GOOGLE SKETCH UP" organized by Department of Civil Engineering held on 17.03.2018 to 13.04.2018 -30 Hours.

V. Muthukumar
HOD-CIVIL
(Mr.V.Muthukumar)

Dr. J.SUNDARARAJAN,
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DEPARTMENT OF CIVIL ENGINEERING

Certificate Course on

"3D DESIGN BY USING GOOGLE SKETCH UP"

This is certify that HARIKISHORE.K-920815103023-III-CIVIL has attended the Certificate Course on "3D DESIGN BY USING GOOGLE SKETCH UP" organized by Department of Civil Engineering held on 17.03.2018 to 13.04.2018 -30 Hours.

V. Muthukumar

HOD-CIVIL
(Mr.V.Muthukumar)

Dr. J.SUNDARARAJAN,
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Principal
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DEPARTMENT OF CIVIL ENGINEERING

Certificate Course on

"3D DESIGN BY USING GOOGLE SKETCH UP"

This is certify that MUNEESWARAN.M - 920815103044 - III-CIVIL has attended the Certificate Course on "3D DESIGN BY USING GOOGLE SKETCH UP" organized by Department of Civil Engineering held on 17.03.2018 to 13.04.2018 -30 Hours.

V. Muthu

HOD-CIVIL
(Mr.V.Muthukumar)

Dr. J.SUNDARARAJAN,
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DEPARTMENT OF CIVIL ENGINEERING

Certificate Course on

"3D DESIGN BY USING GOOGLE SKETCH UP"

This is certify that PRASANNAKRISHNA.R-920815703053-III-CIVIL has attended the Certificate Course on "3D DESIGN BY USING GOOGLE SKETCH UP" organized by Department of Civil Engineering held on 17.03.2018 to 13.04.2018 -30 Hours.

V. Muthu

HOD-CIVIL
(Mr.V.Muthukumar)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

INDEX

COURSE CODE & NAME: **17CSAO01 & SQL DATABASE**

ACADEMIC YEAR: 2017 - 2018 SEMESTER: ODD DURATION: 42 HOURS

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7	COURSE SCHEDULE	9
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PROGRAM COORDINATOR

HoD/CSE

IQAC

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Head of the Department
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Natham, Dindigul (Dt) - 624 401.

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Permission Letter 10.06.17.

From:

R. Haritharan, AP/CSE

Program coordinator,

NPR college of Engineering & Technology,

Natham.

To:

The Principal,

NPR college of Engineering & Technology,

Natham.

Respected sir,

Sub: Request for permission to conduct Add on course- Reg.

We have planned to conduct Add on course on "SQL Database" to our students from 3.7.17 to 8.7.17 (6 Days). in our college premises. we are suggested Mr. Swarrop Vijayakumar, SPOIPPT Pvt Ltd, chennai as a resource person for this program. kindly permit us to conduct the same.

Thanking You.

Yours faithfully.

Forwarded to Principal

20/6/17
HOD-CSE
[V. Devi]

Submitted to Admin

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

RESOURCE PERSON PROFILE

Name : Mr.Swaroop Vijayakumar

Designation : Co-Founder & CEO

Company Name : SNIPPT Pvt Ltd, Chennai.

About Resource Person : He has been working as Product Manager at NameInnoz Technologies Pvt.Ltd from April 2013 – Nov 2013.

He was worked as an Associate at Cartesian Consulting Pvt Ltd from Dec 2013 – Apr 2015 at Mumbai, India.

He was worked Business Intelligence Manager at Stayzilla from May 2015 – Apr 2016 at Chennai.

PROGRAM COORDINATOR

HoD/CSE

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NPRCET/OFF/CSE/VAC/2017-2018 DATE: 20.06.2017

CIRCULAR

This is to inform that Department of Computer Science and Engineering has planned to conduct add-on course on **"SQL DATABASE"** for the students during the end of Odd semester 2017 -2018. Interested students can enroll their name to the program coordinator on or before 30.06.2017.

The details of the training program are given below.

COURSE NAME	:	**SQL DATABASE**
RESOURCE PERSON	:	Mr. Swaroop Vijayakumar, SNIPPT Pvt Ltd, Chennai.
VENUE	:	CSE CP Lab
DATE & DURATION	:	03.07.17 to 08.07.17 (6 Days) & 42 Hour
PROGRAM COORDINATOR	:	Mr.R.Hariharan, AP/CSE, NPRCET.

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

PRINCIPAL

Head of the Department
Department of Computer Science & Engineering
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Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

NPR College of Engineering & Technology

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Department of Computer Science and Engineering

Organized

"ADD-ON COURSE on SQL DATABASE"

Date & Time : 03.07.2017 & 9.30 a.m.	Venue: NPRCET Seminar Hall

Chief Guest	**Mr. Mr.Swaroop Vijayakumar** Co-Founder & CEO SNIPPT Pvt Ltd, Chennai.
Felicitation Address	**Dr.B.Maruthukannan** Principal, NPR College of Engineering & Technology, Natham.

The Management, Principal, Staff and Students

Cordially invite you for the inauguration function

----------**Welcome**----------

NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

NPR College of Engineering & Technology

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

17CSAO01 - SQL DATABASE COURSE CONTENT

Day 1 - Module 1: Introduction to Basic Database Concepts

- What are Data, Field, Record and Database?
- Limitations of File Management System.
- Basic Concepts of Advantages of DBMS.
- Exploring Relational DBMS
- Understanding Client and Server

Day 2 - Module 2: Introduction to SQL DATABASE

- Basic Features Components and Tools
- Starting and Stopping SQL DATABASE Instances / Services
- Introduction to Management Studio
- Types of System SERVERs in SQL

Day 3 - Module 3: Writing Transact-SQL (T-SQL)

- What is T-SQL?
- Scripts and Batches Declaring Variables
- Working with Temp tables
- Error Handling
- Using System Functions / Global Variables Using Dynamic SQL

Day 4 -Module 4: Transaction Control Language (TCL)

- Introduction Transactions process
- Types of transactions (Implicit, explicit)
- Working with Locks, Types of locks

Day 5 -Module 5: Backup and Restore

- Generating SQL Script
- Executing SQL Script
- Generating Change Script
- Taking SERVER Backup
- Restoring SERVER using backup
- Attaching and Detaching of Database

Day 6 -Module 6: Advance Features

- Pivot Table
- Common Table Expression
- Ranking Functions Using BLOB data type
- Using XML data type

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 50% marks in the Exam.

Prepared by: Mrs.G.Sashikala, AP/CSE

Approved by

HoD/CSE

Head of the Department
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IQAC

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

REGISTERED STUDENTS NAME LIST

S. No	Register Number	Student Name	Year
1.	920816104001	Abirami.M	II CSE
2.	920816104002	Aruna Devi.P	II CSE
3.	920816104005	Balaji.R.M	II CSE
4.	920816104006	Charumathy.B	II CSE
5.	920816104008	Divya.A	II CSE
6.	920816104009	Durgadevi.P	II CSE
7.	920816104010	Gomathiakila.D	II CSE
8.	920816104012	Harivigesh.S	II CSE
9.	920816104013	Ilamathi.G	II CSE
10.	920816104014	Kannan.B	II CSE
11.	920816104015	Karthickraja.T	II CSE
12.	920816104016	Karthiga.S	II CSE
13.	920816104017	Keerthana.M	II CSE
14.	920816104018	Madhan.N	II CSE
15.	920816104019	Madhumitha.A	II CSE
16.	920816104020	Mahalakshmi.M	II CSE
17.	920816104022	Muthu.T	II CSE
18.	920816104023	Nandhini.S	II CSE
19.	920816104024	Pavithran.M	II CSE
20.	920816104025	Prasath.T	II CSE
21.	920816104026	Pravinvino.M	II CSE
22.	920816104027	Preetha.B	II CSE
23.	920816104028	Preetha.T	II CSE
24.	920816104029	Sabarikrishnans.K	II CSE
25.	920816104030	Santhoshkumar.A	II CSE
26.	920816104031	Selvanayaki.C	II CSE
27.	920816104032	Senthil.N.P	II CSE
28.	920816104033	Shreedhar.V	II CSE
29.	920816104034	Shrijanani.S	II CSE
30.	920816104035	Shruthi.M	II CSE
31.	920816104038	Srinithi.P	II CSE
32.	920816104039	Sripriya.P	II CSE
33.	920816104040	Sundaram.S.K.K	II CSE
34.	920816104041	Surya.S	II CSE
35.	920816104043	Tamil Selvan.M	II CSE
36.	920816104044	Yogesh John.K	II CSE
37.	920815104006	Divyalakshmi.P	III CSE
38.	920815104008	Hariharanarayanan.R	III CSE
39.	920815104009	Ishwarya.N	III CSE
40.	920815104014	Keerthiga Devi.V	III CSE
41.	920815104017	Mohamed Javid.S	III CSE
42.	920815104022	Pavithra .P	III CSE
43.	920815104025	Priyanka.B.S	III CSE

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44.	920815104026	Ramesh.P	III CSE
45.	920815104032	Sindhuja.S	III CSE
46.	920815104035	Tamilarasi.P	III CSE
47.	920814104001	Abishek Suryawanshi.S	IV CSE
48.	920814104004	Amirthavarshini.R.G	IV CSE
49.	920814104006	Arul Pavithra.S	IV CSE
50.	920814104012	Chithammal.S	IV CSE
51.	920814104019	Janci Rani.S	IV CSE
52.	920814104021	Jegan Adhithya.G	IV CSE
53.	920814104026	Kamalakannan. S	IV CSE
54.	920814104029	Kavya.M	IV CSE
55.	920814104038	Praveena.B	IV CSE
56.	920814104042	Rehana.S	IV CSE
57.	920814104048	Seshan . K.B	IV CSE
58.	920814104054	Sureshkumar.S	IV CSE
59.	920814104061	Vinitha.A	IV CSE
60.	920814104063	Vishnu Varthan.V	IV CSE
61.	920814104501	Dinesh Kumar.V.S	IV CSE

HoD/CSE

Head of the Department
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

COURSE SCHEDULE

Venue: CSE CP Lab **Date:** 28.06.2017

External Resource Person
Mr. Swaroop Vijayakumar

Internal Resource Person
Mrs.G.Sashikala

Day 1 03.07.17	9.30 a.m. to 10.00 a.m.	Inauguration	
	10. 00 a.m. to 11.10 a.m.	Session 1	Introduction to Basic Database Concepts **Mr. Swaroop Vijayakumar**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Limitations of File Management System **Mr. Swaroop Vijayakumar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.40 p.m.	Session 3	Basic Concepts of Advantages of DBMS. **Mrs.G.Sashikala**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Exploring Relational DBMS Understanding Client and Server **Mrs.G.Sashikala**
Day 2 04.07.17	9.30 a.m. – 11.10 a.m.	Session 1	Introduction to SQL DATABASE **Mr. Swaroop Vijayakumar**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Basic Features Components and Tools **Mr. Swaroop Vijayakumar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Starting and Stopping SQL DATABASE Instances / Services **Mrs.G.Sashikala**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Introduction to Management Studio **Mrs.G.Sashikala**
Day 3 05.07.17	9.30 a.m. – 11.10 a.m.	Session 1	Writing Transact-SQL (T-SQL) **Mrs.G.Sashikala**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Scripts and Batches Declaring Variables **Mrs.G.Sashikala**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Working with Temp tables Error Handling **Mr. Swaroop Vijayakumar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Using System Functions / Global Variables Using Dynamic SQL **Mr. Swaroop Vijayakumar**

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Day 4 06.07.17	9.30 a.m. – 11.10 a.m.	Session 1	Transaction Control Language (TCL) **Mrs.G.Sashikala**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Introduction Transactions process **Mr. Swaroop Vijayakumar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Types of transactions (Implicit, explicit) **Mr. Swaroop Vijayakumar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Working with Locks, Types of locks **Mrs.G.Sashikala**
Day 5 07.07.17	9.30 a.m. – 11.10 a.m.	Session 1	Backup and Restore **Mr. Swaroop Vijayakumar**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Generating & Executing SQL Script **Mr. Swaroop Vijayakumar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Generating Change Script **Mrs.G.Sashikala**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Restoring database using backup Attaching and Detaching of database **Mrs.G.Sashikala**
Day 6 08.07.17	9.30 a.m. – 11.10 a.m.	Session 1	Advance Features Pivot Table **Mrs.G.Sashikala**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Common Table Expression **Mrs.G.Sashikala**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Ranking Functions Using BLOB data type **Mr. Swaroop Vijayakumar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Using XML data type **Mr. Swaroop Vijayakumar**

PROGRAM COORDINATOR

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON SQL DATABASE
STUDENT ATTENDANCE

S. No	Roll Number	Student Name	Year	03.07.17		04.07.17		05.07.17		06.07.17		07.07.07		08.07.17	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	17CSAO01001	Abirami.M	II	P	P	P	P	P	P	P	P	P	P	P	P
2.	17CSAO01002	Aruna Devi.P	II	P	P	P	P	P	P	P	P	P	P	P	P
3.	17CSAO01003	Balaji.R.M	II	P	P	P	P	P	P	P	P	P	P	P	P
4.	17CSAO01004	Charumathy.B	II	P	P	P	P	P	P	P	P	P	P	P	P
5.	17CSAO01005	Divya.A	II	P	P	P	P	P	P	P	P	P	P	P	P
6.	17CSAO01006	Durgadevi.P	II	P	P	P	P	P	P	P	P	P	P	P	P
7.	17CSAO01007	Gomathiakila.D	II	P	P	P	P	P	P	P	P	P	P	P	P
8.	17CSAO01008	Harivigesh.S	II	P	P	P	P	P	P	P	P	P	P	P	P
9.	17CSAO01009	Ilamathi.G	II	P	P	P	P	P	P	P	P	P	P	P	P
10.	17CSAO01010	Kannan.B	II	P	P	P	P	P	P	P	P	P	P	P	P
11.	17CSAO01011	Karthickraja.T	II	P	P	P	P	P	P	P	P	P	P	P	P
12.	17CSAO01012	Karthiga.S	II	P	P	P	P	P	P	P	P	P	P	P	P
13.	17CSAO01013	Keerthana.M	II	P	P	P	P	P	P	P	P	P	P	P	P
14.	17CSAO01014	Madhan.N	II	P	P	P	P	P	P	P	P	P	P	P	P
15.	17CSAO01015	Madhumitha.A	II	P	P	P	P	P	P	P	P	P	P	P	P
16.	17CSAO01016	Mahalakshmi.M	II	P	P	P	P	P	P	P	P	P	P	P	P
17.	17CSAO01017	Muthu.T	II	P	P	P	P	P	P	P	P	P	P	P	P
18.	17CSAO01018	Nandhini.S	II	P	P	P	P	P	P	P	P	P	P	P	P
19.	17CSAO01019	Pavithran.M	II	P	P	P	P	P	P	P	P	P	P	P	P
20.	17CSAO01020	Prasath.T	II	a	a	P	P	P	P	P	P	P	P	P	P
21.	17CSAO01021	Pravinvino.M	II	P	P	P	P	P	P	P	P	P	P	P	P
22.	17CSAO01022	Preetha.B	II	P	P	P	P	P	P	P	P	P	P	P	P
23.	17CSAO01023	Preetha.T	II	P	P	P	P	P	P	P	P	P	P	P	P
24.	17CSAO01024	Sabarikrishnans.K	II	P	P	P	P	P	P	P	P	P	P	P	P
25.	17CSAO01025	Santhoshkumar.A	II	P	P	P	P	P	P	P	P	P	P	P	P
26.	17CSAO01026	Selvanayaki.C	II	P	P	P	P	P	P	P	P	P	P	P	P
27.	17CSAO01027	Senthil.N.P	II	P	P	P	P	P	P	P	P	P	P	P	P
28.	17CSAO01028	Shreedhar.V	II	P	P	P	P	P	P	P	P	P	P	P	P
29.	17CSAO01029	Shrijanani.S	II	P	P	P	P	P	P	P	P	P	P	P	P
30.	17CSAO01030	Shruthi.M	II	P	P	P	P	P	P	P	P	P	P	P	P
31.	17CSAO01031	Srinithi.P	II	P	P	P	P	P	P	P	P	P	P	P	P
32.	17CSAO01032	Sripriya.P	II	P	P	P	P	P	P	P	P	P	P	P	P
33.	17CSAO01033	Sundaram.S.K.K	II	P	P	P	P	a	a	P	P	P	P	P	P
34.	17CSAO01034	Surya.S	II	P	P	P	P	P	P	P	P	P	P	P	P
35.	17CSAO01035	Tamil Selvan.M	II	P	P	P	P	P	P	P	P	P	P	P	P
36.	17CSAO01036	Yogesh John.K	II	P	P	P	P	P	P	P	P	P	P	P	P
37.	17CSAO01037	Divyalakshmi.P	III	P	P	P	P	P	P	P	P	P	P	P	P
38.	17CSAO01038	Hariharanarayanan.R	III	P	P	P	P	P	P	P	P	P	P	P	P
39.	17CSAO01039	Ishwarya.N	III	P	P	P	P	P	P	P	P	P	P	P	P

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40.	17CSAO01040	Keerthiga Devi.V	III	/	/	/	/	/	/	/	/	a	a	/	/	
41.	17CSAO01041	Mohamed Javid.S	III	/	/	/	/	/	/	/	/	/	/	/	/	
42.	17CSAO01042	Pavithra .P	III	/	/	/	/	/	/	/	/	/	/	/	/	
43.	17CSAO01043	Priyanka.B.S	III	/	/	/	/	/	/	/	/	/	/	/	/	
44.	17CSAO01044	Ramesh.P	III	/	/	/	/	/	/	/	/	/	/	/	/	
45.	17CSAO01045	Sindhuja.S	III	/	/	/	/	/	/	/	/	/	/	/	/	
46.	17CSAO01046	Tamilarasi.P	III	/	/	/	/	/	/	/	/	/	/	/	/	
47.	17CSAO01047	Abishek Suryawanshi.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	
48.	17CSAO01048	Amirthavarshini.R.G	IV	/	/	/	/	/	/	/	/	/	/	/	/	
49.	17CSAO01049	Arul Pavithra.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	
50.	17CSAO01050	Chithammal.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	
51.	17CSAO01051	Janci Rani.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	
52.	17CSAO01052	Jegan Adhithya.G	IV	/	/	/	/	/	/	/	/	/	/	/	/	
53.	17CSAO01053	Kamalakannan. S	IV	/	/	/	/	/	/	/	/	/	/	/	/	
54.	17CSAO01054	Kavya.M	IV	/	/	/	/	/	/	/	/	/	/	/	/	
55.	17CSAO01055	Praveena.B	IV	/	/	/	/	/	/	/	/	/	/	/	/	
56.	17CSAO01056	Rehana.S	IV	/		/	/	/	/	/	/	/	/	/	/	
57.	17CSAO01057	Seshan . K.B	IV	/	/	/	/	/	/	/	/	/	/	/	/	
58.	17CSAO01058	Sureshkumar.S	IV	a	a	/	/	/	/	/	/	/	/	/	/	
59.	17CSAO01059	Vinitha.A	IV	/	/	/	/	/	/	/	/	/	/	/	/	
60.	17CSAO01060	Vishnu Varthan.V	IV	/	/	/	/	/	/	/	/	/	/	/	/	
61.	17CSAO01061	Dinesh Kumar.V.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	
			Present	59	59	61	61	60	60	61	61	60	60	61	61	
			Absent	2	2	-	-	1	1	-	-	1	1	-	-	
			Coordinator Signature													

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

17CSAO01 SQL DATABASE QUIZ SAMPLE QUESTION PAPER & ANSWER

1. Reasons for consideration of the stored procedure can be?
a) With which tables will you have to work? Does it make sense to create a VIEW first?
b) How often will this procedure actually be used?
c) Do you want to view data in the database (SELECT), insert new records (INSERT INTO), or do I want to change an existing record (UPDATE)?
d) All of the mentioned

2. Point out the correct statement.
a) Conditional logic applied to the results of the first SQL statements determines which subsequent SQL statements are executed
b) A stored procedure is a group of Transact-SQL statements pre compiled into a single execution plan
c) Stored procedures cannot improve performance
d) All of the mentioned

3. _____ takes no parameters and returns all kinds of interesting information.
a) sp_monitor b) sp_on c) sp_status d) none of the mentioned

4. Which of the following has support for transaction?
a) sp_monitor b) sp_bindsession c) sp_status d) all of the mentioned

5. Point out the wrong statement.
a) Support for transactions is one of the most important reasons to use database engines such as SQL DATABASE
b) BASE support c) ACID support d) All of the mentioned

6. _____create the removable database.
a) sp_certify_removableb) sp_certify c) sp_removable d) all of the mentioned

7. Which of the following stored procedure is used for error messages?
a) sp_addmessage b) sp_dropmessage c) sp_altermessage d) all of the mentioned

8. _____ sets procedure options in SQL DATABASE.
a) sp_procoption b) sp_dropmessage c) sp_altermessage d) sp_executesql

9. _____ is used to build the code dynamically and execute it.
a) sp_addmessage b) sp_dropmessage c) sp_altermessage d) sp_executesql

10. Stored procedure used to remember the exact number of bytes is _____
a) sp_datatype b) sp_datatype_info c) sp_info d) none of the mentioned

Answers:

1.d 2.a 3.a 4.b 5.b 6.a 7.a 8.a 9.d 10.b

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

STUDENT FEEDBACK

Name of the Student : P. Aruna Devi	**Year / Semester:** 2nd / 3 Sem
Name of the Program: SQL Database.	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content		✓		
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person		✓		
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	It is useful and Interesting			

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ADD ON COURSE ON SQL DATABASE

STUDENT FEEDBACK

Name of the Student : M. Kaviya	**Year / Semester:** IV / 7 sem
Name of the Program: SQL Database	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person		✓		
5.	Time Management		✓		
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Examples provided during this course is very useful.			

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ADD ON COURSE ON SQL DATABASE

STUDENT FEEDBACK

Name of the Student : Pavithra. P	**Year / Semester:** III / 5 sem
Name of the Program: FQL Database	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person		✓		
5.	Time Management		✓		
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Hand-on session is very useful.			

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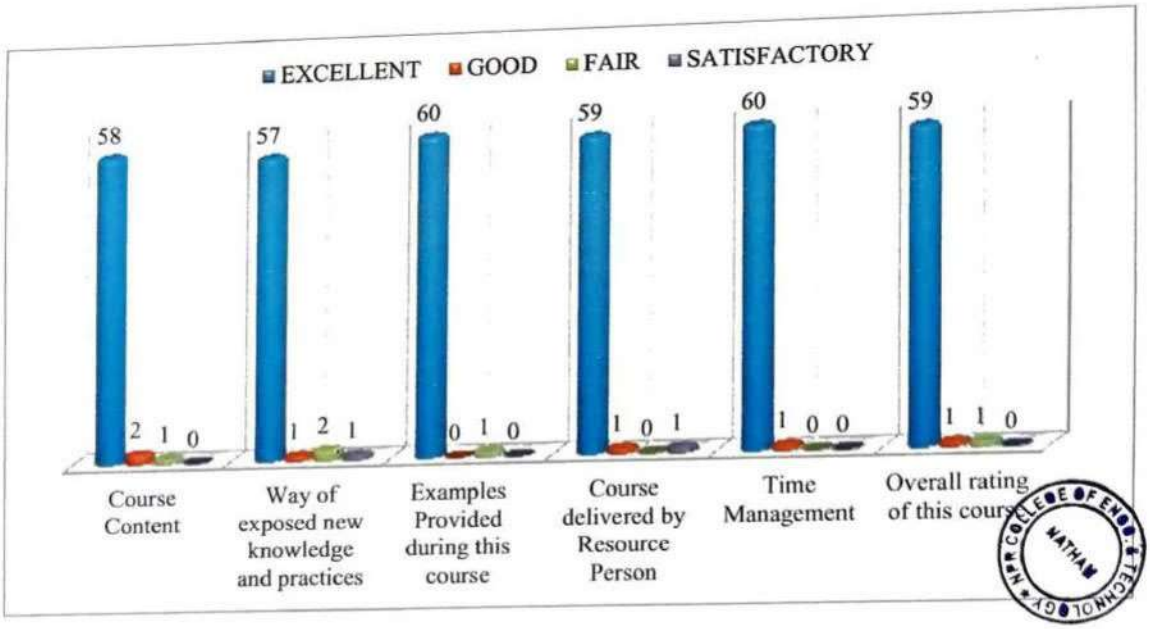
ADD ON COURSE ON SQL DATABASE

STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 61

DATE: 10.07.2017

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	58	2	1	0
2.	Way of exposed new knowledge and practices	57	1	2	1
3.	Examples Provided during this course	60	0	1	0
4.	Course delivered by Resource Person	59	1	0	1
5.	Time Management	60	1	0	0
6.	Overall rating of this course	59	1	1	0
	Average	59	1	1	0



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

SUMMARY REPORT

The Department of Computer Science and Engineering organized 6 Days add-on course on **"SQL DATABASE"** from 03.07.17 to 08.07.17 at CSE CP Laboratory. Ms.A.Vinitha, IV CSE delivered the welcome address. Dr. Maruthukannan, Principal of our college inaugurated the program and delivered the inaugural address. Resource person Mr.Swaroop Vijayakumar, SNIPPT Pvt Ltd, Chennai has presented about overview of this course with real time examples.61 Students attended from CSE department. Students those who participated and successfully completed the Quiz program were awarded with certificates. Mr. B.S. Priyanka, III CSE delivered vote of thanks.

PROGRAM COORDINATOR **HoD/CSE** **PRINCIPAL**

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON SQL DATABASE

COURSE MATERIAL

Material Link:

Chapter 1: https://www.javatpoint.com/sql-data-types

Chapter 2: https://www.geeksforgeeks.org/file-organization-in-dbms-set-1/?ref=lbp

Chapter 3: https://www.javatpoint.com/sql-primary-key

Chapter 4: https://www.geeksforgeeks.org/anomalies-in-relational-model/?ref=lbp

Chapter 5: https://www.tutorialrepublic.com/sql-tutorial/sql-joining-tables.php

Further Study:

1. Forta Ben ,"SQL in 10 Minutes, Sams Teach Yourself", Kindle Edition
2. Preston Prescott, "SQL: Learn the Structured Query Language" Kindle Edition
3. Jamie Chan , "SQL: Learn SQL (using MySQL)"

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Reach the Star

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. M. KAVYA, IV CSE

For successful completion of Add-on course on
*"**SQL DATABASE**"*
Conducted from 03.07.17 to 08.07.17(42 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
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Dr. B Maruthukannan
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CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. A. VINITHA, IV - CSE

For successful completion of Add-on course on
*"**SQL DATABASE**"*
Conducted from 03.07.17 to 08.07.17(42 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

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Dr. B Maruthukannan
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. P. TAMILARASI, IV-CSE

For successful completion of Add-on course on
"SQL DATABASE"
Conducted from 03.07.17 to 08.07.17(42 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Dr. B Maruthukannan
PRINCIPAL

NPR COLLEGE OF ENGINEERING & TECHNOLOGY

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Reach the Star

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. B. PREETHA, II CSE

For successful completion of Add-on course on
*"**SQL DATABASE**"*
Conducted from 03.07.17 to 08.07.17(42 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Dr. B Maruthukannan
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Reach the Star

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. T. PRASATH, II CSE

For successful completion of Add-on course on
*"**SQL DATABASE**"*
Conducted from 03.07.17 to 08.07.17(42 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

INDEX

COURSE NAME: **17CSCC02 & CCNA**

ACADEMIC YEAR: 2017 - 2018 SEMESTER: ODD DURATION: 35 HOURS

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PROGRAM COORDINATOR

HoD/CSE

IQAC

PRINCIPAL

Head of the Department
Department of Computer Science & Engineering
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

IQAC

P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Permission Letter. 01.11.2017

FROM:

R. Hariharan, AP/CSE,
Program coordinator,
NPR college of Engineering & Technology,
Natham.

TO:

The Principal,
NPR college of Engineering & Technology,
Natham.

Respected sir,

Sub: Request for permission to conduct certificate course for CSE students.

We have planned to conduct certificate program on "CCNA" to our students from 24.11.17 to 29.11.17 (5 Days). We are suggested that Mr. S. Surendkar, AP/ECE & CISCO Trainer as a resource person for this program. Kindly permit us to conduct the same.

Yours faithfully.

Forwarded to Principal.

NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

Submitted to

Head of the Department
Dept. of Computer Science & Engineering
NPR College of Engineering & Technology
Natham (P.O.)-624 401.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

RESOURCE PERSON PROFILE

Name : Mr. S.Surendhar

Designation : AP/ECE & Cisco Instructor, NPR-Cisco Training Networking Academy

College Name : NPR College of Engineering & Technology, Natham.

Academic Experience :

- He started his career at Veerammal Engineering College, K.Singarakottai as Lecturer and worked from 26.07.2010 to 15.05.2012.
- He worked as an Assistant Professor at Jainee College of Engineering And Technology, Dindigul from 02.07.2014 to 03.06.2015.
- Currently working as an Assistant Professor in our institution from 08.06.2015 to till date.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PROGRAM COORDINATOR **HoD/CSE** **PRINCIPAL**

Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Department of Computer Science & Engineering
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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NPRCET/OFF/CSE/VAC/2017-2018 DATE: 07.11.2017

CIRCULAR

This is to inform that Department of Computer Science and Engineering has planned to conduct a Certificate program on **"CCNA"** for the students during the semester 2017 – 2018. Interested students can enroll your name to the program coordinator on or before 20.11.17.

The details of the training program are given below.

COURSE NAME	:	**CCNA**
RESOURCE PERSON	:	Mr.S.Surendhar, AP/ECE & CCNA Trainer, NPRCET.
VENUE	:	CISCO Laboratory
DATE & DURATION	:	24.11.17 to 29.11.17 & 35 Hours
PROGRAM COORDINATOR	:	Mr.R.Hariharan, AP/CSE, NPRCET.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PRINCIPAL

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Certificate Course on CCNA"

Date: 24th November, 2017

Venue: NPRCET Seminar hall at 9.30 a.m.

Resource Person

Mr.S.Surendhar,

AP/ECE & CCNA Trainer, NPRCET.

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology, Natham

Felicitates the function

Organized by

Department of Computer Science and Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

NPR College of Engineering & Technology

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

17CSCC02 CCNA COURSE CONTENT

Day 1 - Chapter 1: Network Fundamentals

- The role and function of network components
- Describe characteristics of network topology architectures
- Comparison of physical interface and cabling types
- Comparison of TCP to UDP
- Configuration of and verify IPv6 addressing and prefix

Day 2 - Chapter 2: Network Access

- Configuration of and verify VLANs (normal range) spanning multiple switches
- Configuration of and verify interswitch connectivity
- Comparison of Cisco Wireless Architectures and AP modes
- Describe physical infrastructure connections of WLAN components

Day 3 - Chapter 3: IP Connectivity

- Interpret the components of routing table
- Determine how a router makes a forwarding decision by default
- Configuration of and verify IPv4 and IPv6 static routing
- Configuration of and verify single area OSPFv2

Day 4 -Chapter 4: Security Fundamentals

- Security concepts and program elements
- Configuration of device access control using local passwords
- Configuration of and verify access control lists
- Configuration of Layer 2 security features

Day 5 - Chapter 5: Automation and Programmability

- Explain how automation impacts network management
- Comparison of traditional networks with controller-based networking
- Describe controller-based and software defined architectures
- Describe characteristics of REST-based APIs

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 50% marks in the Exam.

Prepared by: Mr.R.Hariharan, AP/CSE

Approved by

HoD/CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

REGISTERED STUDENTS NAME LIST

S. No	Register Number	Student Name	Year
1.	920816104001	Abirami.M	II CSE
2.	920816104002	Aruna Devi.P(Hostel)	II CSE
3.	920816104005	Balaji.R.M	II CSE
4.	920816104008	Divya.A	II CSE
5.	920816104010	Gomathiakila.D	II CSE
6.	920816104013	Ilamathi.G	II CSE
7.	920816104015	Karthickraja.T(Hostel)	II CSE
8.	920816104018	Madhan.N	II CSE
9.	920816104022	Muthu.T	II CSE
10.	920816104024	Pavithran.M	II CSE
11.	920816104027	Preetha.B	II CSE
12.	920816104029	Sabarikrishnans.K	II CSE
13.	920816104031	Selvanayaki.C	II CSE
14.	920816104033	Shreedhar.V	II CSE
15.	920816104038	Srinithi.P	II CSE
16.	920816104039	Sripriya.P	II CSE
17.	920816104044	Yogesh John.K(Hostel)	II CSE
18.	920815104002	Ajay.K	III CSE
19.	920815104005	Dhinesh Kumar.S	III CSE
20.	920815104006	Divyalakshmi.P	III CSE
21.	920815104008	Hariharanarayanan.R	III CSE
22.	920815104009	Ishwarya.N (H)	III CSE
23.	920815104010	Iswarya.M	III CSE
24.	920815104011	Jegatheesh Kannan.J.R	III CSE
25.	920815104013	Kaviya.M (H)	III CSE
26.	920815104014	Keerthiga Devi.V	III CSE
27.	920815104016	Maha Lakshmi.S	III CSE
28.	920815104017	Mohamed Javid.S	III CSE
29.	920815104018	Mohamed Riyaz.M	III CSE
30.	920815104021	Nathish Sriram.R	III CSE
31.	920815104022	Pavithra .P	III CSE
32.	920815104023	Ponvizhy Swathy.B	III CSE
33.	920815104024	Pragathi.T	III CSE
34.	920815104025	Priyanka.B.S (H)	III CSE
35.	920815104026	Ramesh.P	III CSE
36.	920815104027	Ramya Devi.N	III CSE
37.	920815104028	Sankari.S (H)	III CSE
38.	920815104029	Saravanan.P	III CSE

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39.	920815104031	Sasikala.U (H)	III CSE
40.	920815104032	Sindhuja.S	III CSE
41.	920815104033	Sri Hariharan.C.R	III CSE
42.	920815104035	Tamilarasi.P	III CSE
43.	920815104301	Divya.S	III CSE
44.	920815104701	Surya.R	III CSE
45.	920814104005	Anitha.B	IV CSE
46.	920814104009	Balanvignesh.A	IV CSE
47.	920814104011	Bhavani Shri.D	IV CSE
48.	920814104017	Hema Suruthi.S	IV CSE
49.	920814104020	Jayalakshmi.M	IV CSE
50.	920814104027	Kamali Devi.M	IV CSE
51.	920814104028	Karthigai Selvi.K	IV CSE
52.	920814104033	Mithra.R	IV CSE
53.	920814104040	Rajavennila.S	IV CSE
54.	920814104043	Rishinath.A	IV CSE
55.	920814104047	Sathya Priya.J	IV CSE
56.	920814104051	Shipnasbegum.S	IV CSE
57.	920814104057	Swathi.J	IV CSE
58.	920814104062	Vishalatchi.R	IV CSE
59.	920814104501	Dinesh Kumar.V.S	IV CSE

PROGRAM COORDINATOR

HoD/CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

17CSCC02 CCNA COURSE SCHEDULE

Date: 22.11.17

Venue: CISCO Laboratory

Internal Resource Persons:

Mr.S.Surendhar, AP/ECE & CCNA Trainer Mr.R.Hariharan, AP/CSE

Day 1 24.11.17	9.30 a.m. to 10.00 a.m.	Inauguration	
	10. 00 a.m. to 11.10 a.m.	Session 1	Network Fundamentals **Mr.S.Surendhar**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	The role and function of network components **Mr.S.Surendhar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.40 p.m.	Session 3	Comparison of physical interface and cabling types **Mr.R.Hariharan**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Configuration of and verify IPv6 addressing and prefix **Mr.R.Hariharan**
Day 2 25.11.17	9.30 a.m. – 11.10 a.m.	Session 1	Configuration of and verify VLANs (normal range) spanning multiple switches **Mr.S.Surendhar**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Configuration of and verify inter switch connectivity **Mr.S.Surendhar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Comparison of Cisco Wireless Architectures and AP modes **Mr.R.Hariharan**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Describe physical infrastructure connections of WLAN components **Mr.R.Hariharan**

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Day 3 27.11.17	9.30 a.m. – 11.10 a.m.	Session 1	Interpret the components of routing table **Mr.S.Surendhar**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Determine how a router makes a forwarding decision by default **Mr.R.Hariharan**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Configuration of and verify IPv4 and IPv6 static routing **Mr.S.Surendhar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Configuration of and verify single area OSPFv2 **Mr.R.Hariharan**
Day 4 28.11.17	9.30 a.m. – 11.10 a.m.	Session 1	Security concepts and program elements **Mr.R.Hariharan**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Configuration of device access control using local passwords **Mr.S.Surendhar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Configuration of and verify access control lists **Mr.S.Surendhar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Configuration of Layer 2 security features **Mr.R.Hariharan**
Day 5 29.11.17	9.30 a.m. – 11.10 a.m.	Session 1	Explain how automation impacts network management **Mr.R.Hariharan**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Comparison of traditional networks with controller-based networking **Mr.S.Surendhar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Describe controller-based and software defined architectures **Mr.S.Surendhar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Describe characteristics of REST-based APIs **Mr.R.Hariharan**
	4.30 p.m. to 5.00 p.m.	Valedictory	

PROGRAM COORDINATOR **HoD/CSE** **IQAC** **PRINCIPAL**

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

STUDENT ATTENDANCE

S. No	Roll Number	Student Name	Year	24.11.17		25.11.17		27.11.17		28.11.17		29.11.17	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	17CSCC02001	Abirami.M	II CSE	/	/	/	/	/	/	/	/	/	/
2.	17CSCC02002	Aruna Devi.P	II CSE	/	/	/	/	/	/	/	/	/	/
3.	17CSCC02003	Balaji.R.M	II CSE	/	/	/	/	/	/	/	/	/	/
4.	17CSCC02004	Divya.A	II CSE	/	/	/	/	/	/	/	/	/	/
5.	17CSCC02005	Gomathiakila.D	II CSE	/	/	/	/	/	/	/	/	/	/
6.	17CSCC02006	Ilamathi.G	II CSE	/	/	/	/	/	/	/	/	/	/
7.	17CSCC02007	Karthickraja.T	II CSE	/	/	/	/	/	/	/	/	/	/
8.	17CSCC02008	Madhan.N	II CSE	/	/	/	/	/	/	/	/	/	/
9.	17CSCC02009	Muthu.T	II CSE	/	/	/	/	/	/	/	/	/	/
10.	17CSCC02010	Pavithran.M	II CSE	/	/	/	/	/	/	/	/	/	/
11.	17CSCC02011	Preetha.B	II CSE	/	/	/	/	/	/	/	/	/	/
12.	17CSCC02012	Sabarikrishnans.K	II CSE	/	/	a	a	/	/	/	/	/	/
13.	17CSCC02013	Selvanayaki.C	II CSE	/	/	/	/	/	/	/	/	/	/
14.	17CSCC02014	Shreedhar.V	II CSE	/	/	/	/	/	/	/	/	/	/
15.	17CSCC02015	Srinithi.P	II CSE	/	/	/	/	/	/	/	/	/	/
16.	17CSCC02016	Sripriya.P	II CSE	/	/	/	/	/	/	/	/	/	/
17.	17CSCC02017	Yogesh John.K	II CSE	/	/	/	/	/	/	/	/	/	/
18.	17CSCC02018	Ajay.K	III CSE	/	/	/	/	/	/	/	/	/	/
19.	17CSCC02019	Dhinesh Kumar.S	III CSE	/	/	/	/	/	/	/	/	/	/
20.	17CSCC02020	Divyalakshmi.P	III CSE	/	/	/	/	/	/	/	/	/	/
21.	17CSCC02021	Hariharanarayanan.R	III CSE	/	/	/	/	/	/	/	/	/	/
22.	17CSCC02022	Ishwarya.N	III CSE	/	/	/	/	/	/	/	/	/	/
23.	17CSCC02023	Iswarya.M	III CSE	/	/	/	/	/	/	/	/	/	/
24.	17CSCC02024	Jegatheesh Kannan.J.R	III CSE	/	/	/	/	a	a	/	/	/	/
25.	17CSCC02025	Kaviya.M	III CSE	/	/	/	/	/	/	/	/	/	/
26.	17CSCC02026	Keerthiga Devi.V	III CSE	/	/	/	/	/	/	/	/	/	/
27.	17CSCC02027	Maha Lakshmi.S	III CSE	/	/	/	/	/	/	/	/	/	/
28.	17CSCC02028	Mohamed Javid.S	III CSE	/	/	/	/	/	/	/	/	/	/
29.	17CSCC02029	Mohamed Riyaz.M	III CSE	/	/	/	/	/	/	/	/	/	/
30.	17CSCC02030	Nathish Sriram.R	III CSE	/	/	/	/	/	/	/	/	/	/
31.	17CSCC02031	Pavithra .P	III CSE	/	/	/	/	/	/	/	/	/	/

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32.	17CSCC02032	Ponvizhy Swathy.B	III CSE	/	/	/	/	/	/	/	/	/	/		
33.	17CSCC02033	Pragathi.T	III CSE	/	/	/	/	/	/	/	/	/	/		
34.	17CSCC02034	Priyanka.B.S	III CSE	/	/	/	/	/	/	/	/	/	/		
35.	17CSCC02035	Ramesh.P	III CSE	/	/	/	/	/	/	/	/	/	/		
36.	17CSCC02036	Ramya Devi.N	III CSE	/	/	/	/	/	/	/	/	/	/		
37.	17CSCC02037	Sankari.S	III CSE	/	/	/	/	/	/	/	/	/	/		
38.	17CSCC02038	Saravanan.P	III CSE	/	/	/	/	/	/	/	/	/	/		
39.	17CSCC02039	Sasikala.U	III CSE	/	/	/	/	/	/	/	/	/	/		
40.	17CSCC02040	Sindhuja.S	III CSE	/	/	/	/	/	/	/	/	/	/		
41.	17CSCC02041	Sri Hariharan.C.R	III CSE	/	/	/	/	/	/	/	/	/	/		
42.	17CSCC02042	Tamilarasi.P	III CSE	/	/	/	/	/	/	/	/	/	/		
43.	17CSCC02043	Divya.S	III CSE	/	/	/	/	/	/	/	/	/	/		
44.	17CSCC02044	Surya.R	III CSE	/	/	/	/	/	/	/	/	/	/		
45.	17CSCC02045	Anitha.B	IV CSE	/	/	/	/	/	/	a	a	/	/		
46.	17CSCC02046	Balanvignesh.A	IV CSE	/	/	/	/	/	/	/	/	/	/		
47.	17CSCC02047	Bhavani Shri.D	IV CSE	/	/	/	/	/	/	/	/	/	/		
48.	17CSCC02048	Hema Suruthi.S	IV CSE	/	/	/	/	/	/	/	/	/	/		
49.	17CSCC02049	Jayalakshmi.M	IV CSE	/	/	/	/	/	/	/	/	/	/		
50.	17CSCC02050	Kamali Devi.M	IV CSE	/	/	/	/	/	/	/	/	/	/		
51.	17CSCC02051	Karthigai Selvi.K	IV CSE	/	/	/	/	/	/	/	/	/	/		
52.	17CSCC02052	Mithra.R	IV CSE	/	/	/	/	/	/	/	/	/	/		
53.	17CSCC02053	Rajavennila.S	IV CSE	/	/	/	/	/	/	/	/	/	/		
54.	17CSCC02054	Rishinath.A	IV CSE	/	/	/	/	/	/	/	/	/	/		
55.	17CSCC02055	Sathya Priya.J	IV CSE	/	/	/	/	/	/	/	/	/	/		
56.	17CSCC02056	Shipnasbegum.S	IV CSE	/	/	/	/	/	/	/	/	/	/		
57.	17CSCC02057	Swathi.J	IV CSE	/	/	/	/	/	/	/	/	/	/		
58.	17CSCC02058	Vishalatchi.R	IV CSE	/	/	/	/	/	/	/	/	/	/		
59.	17CSCC02059	Dinesh Kumar.V.S	IV CSE	/	/	/	/	/	/	/	/	/	/		
			Present	59	59	58	58	55	58	58	58	59	59		
			Absent	-	-	1	1	1	1	1	1	-	-		
			Coordinator Signature												

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

17CSCC02 CCNA QUIZ SAMPLE QUESTION PAPER & ANSWER

1. You want to ping a router on your network from interface Serial 0/0 and not the path in the routing table. How can you achieve this?
A.This cannot be done; packets cannot disregard the routing table.
B.Enter the interface in configuration mode, and ping the remote router.
C.Enter extended ping, and specify the exit interface.
D.Configure a temporary route for the router exiting the interface.

2. You ping from a router to another router and receive back !!!!! . What does this mean?
A.All packets have been dropped.
B.All packets are successfully acknowledged.
C.There is congestion in the path.
D.The packets were received, but after the ICMP timeout.

3. Which command on Windows will allow you to verify the path a packet gets routed through on the network?
A.C:\>tracert 198.78.34.2
B.C:\>ping 198.78.34.2
C.C:\>traceroute 198.78.34.2
D.C:\>route print

4. Which command on Windows will allow you to verify your IP address, subnet mask, default gateway, and MAC address?
A.C:\>ipconfig
B.C:\>ipstatus
C.C:\>ipconfig /all
D.C:\>hostname/li>

5. You perform a ping to a host on the network. However, the first packet is dropped. Why did the first packet drop?
A.The local router dropped the first packet.
B.The routing table was updating.
C.The ARP request timed out the ping packet.
D.The remote router dropped the first packet.

6. Which command will allow you to see the path on which a packet gets routed to its destination?
A.Router#show ip route
B.Router#tracert 192.168.7.56
C.Router#pathping 192.168.7.56
D.Router#traceroute 192.168.7.56

7. Which command will allow you to check basic connectivity at layer 3?
A.Router#show ip route
B.Router#ping 192.168.4.1
C.Router#pathping 192.168.4.1
D.Router#ip ping 192.168.4.1

8. How would you configure a router to use split horizons for RIPv2?
A.Router(config)#ip rip split-horizon
B.Router(config-if)#ip split-horizon
C.Router(config-router)#ip split-horizon
D.Router(config-router)#rip split-horizon

9. Which command will display which routes the RIPv2 router is advertising?
A.Router#show ip route
B.Router#show ip rip database
C.Router#show ip rip
D.Router#show ip interface

10. Which protocol will support IPv6 for RIP?
A.RIPv1
B.RIPv2
C.RIPv6
D.RIPnga

11. What is the default number of equal-cost routes RIPv2 will load balance?
A.2 routes
B.4 routes
C.8 routes
D.16 routes

12. Which type of IPv6 addressing allows for a one-to-closest address for IP services?
A.Multicast address
B.Anycast address
C.Unicast address
D.Loopback address

Answers:

1.C 2.B 3.A 4.C 5.C 6.D 7.B 8.B 9.B 10.D 11.B 12.B

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

STUDENT FEEDBACK

Name of the Student :	Srinithi. P	**Year / Semester:**	II yr / 3 sem
Name of the Program:	CCNA		

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person	✓			
5.	Time Management		✓		
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Examples provided during this Course is very useful			

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

STUDENT FEEDBACK

Name of the Student : Ishwarya. N	**Year / Semester:** III / 5 sem
Name of the Program: CCNA	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content		✓		
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person		✓		
5.	Time Management		✓		
6.	Overall rating of this course		✓		
7.	Any Other Comments / Suggestions	Handon session is very useful.			

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

STUDENT FEEDBACK

Name of the Student : M. Kamali Devi	**Year / Semester:** IV / 7 Sem
Name of the Program: CCNA	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person		✓		
5.	Time Management	✓			
6.	Overall rating of this course		✓		
7.	Any Other Comments / Suggestions	way of exposing is nice.			

NPK COLLEGE OF ENGG & TECHNOLOGY NATHAM

PROGRAM COORDINATOR

Department of Computer Science & Engineering
NPK College of Engg & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 59

DATE: 30.11.17

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	58	0	1	0
2.	Way of exposed new knowledge and practices	55	1	2	1
3.	Examples Provided during this course	57	1	1	0
4.	Course delivered by Resource Person	56	1	2	0
5.	Time Management	58	1	0	0
6.	Overall rating of this course	58	0	1	0
	Average	58	0	1	0



PROGRAM COORDINATOR

HoD/CSE

PRINCIPAL

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Principal
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

SUMMARY REPORT

The Department of Computer Science and Engineering organized 5 Days Certificate course program on **"CCNA"** from 24.11.17 to 29.11.17 at CISCO Laboratory.

Ms.D.Bhavani Shri, IV CSE delivered the welcome address.

Dr. B. Maruthukannan, Principal of our college inaugurated the program delivered the inaugural address.

Resources persons Mr.S.Surendhar, AP/ECE & Cisco Instructor and Mr.R.Hariharan, AP/CSE has shared their knowledge about CCNA with our students.

59 Students attended from our II, III and IV year of CSE Department. Students those who actively participated and successfully completed the Quiz program were awarded with certificates.

Ms.M.Keerthana, III CSE delivered vote of thanks.

PROGRAM COORDINATOR **HoD/CSE** **PRINCIPAL**

Head of the Department
Department of Computer Science & Engineering
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON CCNA

COURSE MATERIAL

Material Link:

Chapter 1: https://study-ccna.com/types-of-ip-addresses/

Chapter 2: https://study-ccna.com/udp-explained/

Chapter 3: https://www.tutorialandexample.com/ccna-tutorial/

Chapter 4: https://study-ccna.com/passive-interface-command/

Chapter 5: https://study-ccna.com/vtp-configuration/

Further Study:

1. John Wiley & Sons Inc, **"CCNA Routing and Switching Complete Study Guide"**, ISBN: 9781119288282, 9781119288282, Published by John Wiley & Sons Inc.
2. Lammle Todd," **CCNP Routing and Switching"**, ISBN: 9781119288282, 9781119288282, Published by John Wiley & Sons Inc
3. Wendell Odom," **CCNA 200-301 Official Cert Guide"**, ISBN 9789353945503, Published by PEARSON INDIA.

PROGRAM COORDINATOR

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. J. SWATHI, IV - CSE

For successful completion of Certificate Course on
"**CCNA**" Conducted from 24.11.17 to 29.11.17(35 Hours)

Mrs.V.Devi
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Dr.B.MaruthuKannan
PRINCIPAL

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Reach the Star

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. P. PAVITHRA, III - CSE

For successful completion of Certificate Course on
"**CCNA**" Conducted from 24.11.17 to 29.11.17(35 Hours)

Mrs.V.Devi
HoD/CSE

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Natham, Dindigul (Dt) - 624 401.

Dr.B.MaruthuKannan
PRINCIPAL

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This certificate is presented to

Ms. P. SRIPRIYA, II - CSE

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Mrs.V.Devi
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This certificate is presented to

Mr. R.M. BALAJI, II - CSE

For successful completion of Certificate Course on
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Mrs.V.Devi
HoD/CSE

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CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. A. BALAN VIGNESH, IV - CSE

For successful completion of Certificate Course on
"**CCNA**" Conducted from 24.11.17 to 29.11.17(35 Hours)

Mrs.V.Devi
HoD/CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON CYBER SECURITY PROFESSIONAL

INDEX

COURSE CODE & NAME: **17CSAO03 & CYBER SECURITY PROFESSIONAL**

ACADEMIC YEAR: 2017 -2018 SEMESTER: EVEN DURATION: 49 HOURS

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PROGRAM COORDINATOR

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Permision Letter. 13.11.17

From:

R. Haribaran, AP/CSE,
Program coordinator,
NPR college of Engineering & Technology,
Natham,

To:

The Principal,
NPR college of Engineering & Technology,
Natham.

Respected sir.

Sub: Seeking permission to conduct Add on course - Reg.

We have planned to conduct add on course on "Cyber security Professional" to our students in our college. We are propsed Mr. R. Arun, programmer, southern cross group India as a resource person for this program. Kindly permit us to conduct the same.

Thanking You

Yours faithfully.

R. Haribaran

Forwarded to Principal

Submitted to Arun Sir

N.P.R. College of Engineering & Technology
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CSE
[V. Devi]

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON CYBER SECURITY PROFESSIONAL

RESOURCE PERSON PROFILE

Name : Mr. R.Arun

Designation : CRM Programmer

Company Name : Southern Cross Group India Pvt Ltd, Chennai.

About Resource Person : Trainee Service Engineer at Madhu infotech, Chennai from Sep 2013 – Apr 2014.

Junior Software Developer at Covenant Technologies, Chennai from May 2014 – May 2015

Software Developer at Star Knowledge Technology Alliance Team LLC, Mysuru from Jun 2015 – Oct 2016.

MS CRM Administrator at Name Southern Cross Group INT, Chennai from Nov 2016 – May 2017.

MS CRM Programmer at Southern Cross Group INT, Chennai from July 2017 – Present.

PROGRAM COORDINATOR

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NPRCET/OFF/CSE/VAC/2017-2018 DATE: 20.11.2017

CIRCULAR

This is to inform that Department of Computer Science and Engineering has planned to conduct add-on course on **"CYBER SECURITY PROFESSIONAL"** for the students during the even semester 2017 - 2018. Interested students can enroll their name to the program coordinator on or before 30.11.17.

The details of the training program are given below.

COURSE NAME	:	CYBER SECURITY PROFESSIONAL
RESOURCE PERSON	:	Mr. R.Arun, CRM Programmer, Southern Cross Group India Pvt Ltd, Chennai.
VENUE	:	CSE Main Lab
DATE & DURATION	:	04.12.17 to 11.12.17 & 49 Hours
PROGRAM COORDINATOR	:	Mr.R.Hariharan, AP/CSE, NPRCET

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Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"*ADD ON COURSE on CYBER SECURITY PROFESSIONAL*"

On 4th December, 2017

Venue: NPRCET Seminar hall at 9.30 A.M.

Chief Guest Address	Mr. R.Arun, CRM Programmer, Southern Cross Group India Pvt Ltd, Chennai.
Felicitation	Dr.B.Maruthukannan Principal, NPR College of Engineering & Technology, Natham.

Organized by

Department of Computer Science and Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

NPR COLLEGE OF ENGG. & TECHNOLOGY • NATHAM

----------**Welcome**----------

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON CYBER SECURITY PROFESSIONAL
17CSAO03 - CYBER SECURITY PROFESSIONAL COURSE CONTENT

Day 1 - Chapter 1: Networking Concepts Overview

- Basics of Communication Systems
- ISO/OSI and TCP/IP Protocol Stacks
- Packet Formats
- Wireless Networks

Day 2 - Chapter 2: Information Security Concepts

- Information Security Overview & Services
- Types of Attacks
- Goals for Security
- E-commerce Security

Day 3 - Chapter 3: Security Threats and vulnerabilities

- Overview of Security threats
- Hacking Techniques
- Password Cracking
- Insecure Network connections
- Malicious Code

Day 4 - Chapter 4: Security Management Practices

- Overview of Security Management
- Information Classification Process
- Security Policy & Risk Management
- Business Continuity and Disaster Recovery

Day 5 - Chapter 5: Security Laws and Standards

- Security Assurance & Laws
- Security Audit
- OCTAVE approach
- SSE-CMM

Day 6 - Chapter 6: Server Management and Firewalls

- User Management
- DNS Routing and Load Balancing
- Overview of Firewalls and Types of Firewalls
- DMZ and firewall features

Day 7 - Chapter 7: Security Architectures and Models

- Designing Secure Operating Systems
- Controls to enforce security services
- Email security: PGP and SMIME
- Web Security: web authentication, SSL and SET

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 50% marks in the Exam.

Prepared by: Mrs.R.Ramya, AP/CSE

Approved by

HoD/CSE

IQAC

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NPR College of Engineering & Technology

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADDON COURSE ON CYBER SECURITY PROFESSIONAL

REGISTERED STUDENTS NAME LIST

S. No	Register Number	Student Name	Year
1.	920816104005	Balaji.R.M	II CSE
2.	920816104009	Durgadevi.P	II CSE
3.	920816104014	Kannan.B	II CSE
4.	920816104018	Madhan.N	II CSE
5.	920816104020	Mahalakshmi.M	II CSE
6.	920816104023	Nandhini.S	II CSE
7.	920816104027	Preetha.B	II CSE
8.	920816104028	Preetha.T	II CSE
9.	920816104030	Santhoshkumar.A	II CSE
10.	920816104033	Shreedhar.V	II CSE
11.	920816104039	Sripriya.P	II CSE
12.	920816104044	Yogesh John.K	II CSE
13.	920815104006	Divyalakshmi.P	III CSE
14.	920815104010	Iswarya.M	III CSE
15.	920815104014	Keerthiga Devi.V	III CSE
16.	920815104018	Mohamed Riyaz.M	III CSE
17.	920815104023	Ponvizhy Swathy.B	III CSE
18.	920815104026	Ramesh.P	III CSE
19.	920815104028	Sankari.S	III CSE
20.	920815104033	Sri Hariharan.C.R	III CSE
21.	920814104001	Abishek Suryawanshi.S	IV CSE
22.	920814104002	Aishwarya.A	IV CSE
23.	920814104004	Amirthavarshini.R.G	IV CSE
24.	920814104005	Anitha.B	IV CSE
25.	920814104006	Arul Pavithra.S	IV CSE
26.	920814104008	Bala Karthick.N	IV CSE
27.	920814104009	Balanvignesh.A	IV CSE
28.	920814104011	Bhavani Shri.D	IV CSE
29.	920814104012	Chithammal.S	IV CSE
30.	920814104013	Deepan Raja.A	IV CSE
31.	920814104014	Dilip Kumar.M	IV CSE
32.	920814104017	Hema Suruthi.S	IV CSE
33.	920814104019	Janci Rani.S	IV CSE
34.	920814104020	Jayalakshmi.M	IV CSE
35.	920814104021	Jegan Adhithya.G	IV CSE
36.	920814104025	Kalai Wani.K	IV CSE
37.	920814104026	Kamalakannan. S	IV CSE
38.	920814104027	Kamali Devi.M	IV CSE
39.	920814104028	Karthigai Selvi.K	IV CSE
40.	920814104029	Kavya.M	IV CSE
41.	920814104030	Kishendiran.S	IV CSE
42.	920814104031	Mahesh.N	IV CSE
43.	920814104033	Mithra.R	IV CSE

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44.	920814104034	Nagageetha.R	IV CSE
45.	920814104036	Nivethiya.U	IV CSE
46.	920814104038	Praveena.B	IV CSE
47.	920814104040	Rajavennila.S	IV CSE
48.	920814104041	Ravi Sankar. A	IV CSE
49.	920814104042	Rehana.S	IV CSE
50.	920814104043	Rishinath.A	IV CSE
51.	920814104046	Saravana Prakash.G	IV CSE
52.	920814104047	Sathya Priya.J	IV CSE
53.	920814104048	Seshan . K.B	IV CSE
54.	920814104049	Shanmuga Priya.R	IV CSE
55.	920814104051	Shipnasbegum.S	IV CSE
56.	920814104052	Sreenivasan.A	IV CSE
57.	920814104054	Sureshkumar.S	IV CSE
58.	920814104056	Sushmitha.M	IV CSE
59.	920814104057	Swathi.J	IV CSE
60.	920814104058	Thamarai Kannan.R	IV CSE
61.	920814104060	Vijay.S	IV CSE
62.	920814104061	Vinitha.A	IV CSE
63.	920814104062	Vishalatchi.R	IV CSE
64.	920814104063	Vishnu Varthan.V	IV CSE
65.	920814104064	Yogalakshmi.K	IV CSE
66.	920814104501	Dinesh Kumar.V.S	IV CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON CYBER SECURITY PROFESSIONAL

COURSE SCHEDULE

Venue: CSE Main Lab **Date:** 30.11.2017

External Resource Person

Mr. R.Arun, CRM Programmer.

Internal Resource Person

Mrs.R.Ramya, AP/CSE

Day 1 04.12.17	9.30 a.m. to 10.00 a.m.	Inauguration	
	10. 00 a.m. to 11.10 a.m.	Session 1	Networking Concepts Overview **Mrs.R.Ramya**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Basics of Communication Systems **Mr. R.Arun**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.40 p.m.	Session 3	ISO/OSI and TCP/IP Protocol Stacks **Mrs.R.Ramya**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Packet Formats Wireless Networks **Mr. R.Arun**
Day 2 05.12.17	9.30 a.m. – 11.10 a.m.	Session 1	Information Security Overview & Services **Mrs.R.Ramya**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Types of Attacks **Mr. R.Arun**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Goals for Security **Mr. R.Arun**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	E-commerce Security **Mrs.R.Ramya**
Day 3 06.12.17	9.30 a.m. – 11.10 a.m.	Session 1	Security Threats and vulnerabilities **Mr. R.Arun**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Hacking Techniques **Mrs.R.Ramya**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Password Cracking & Malicious Code **Mrs.R.Ramya**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Insecure Network connections **Mr. R.Arun**

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Day 4 07.12.17	9.30 a.m. – 11.10 a.m.	Session 1	Security Management Practices **Mrs.R.Ramya**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Information Classification Process **Mr. R.Arun**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Security Policy & Risk Management **Mrs.R.Ramya**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Business Continuity and Disaster Recovery **Mr. R.Arun**
Day 5 08.12.17	9.30 a.m. – 11.10 a.m.	Session 1	Security Laws and Standards **Mr. R.Arun**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Security Assurance & Laws **Mrs.R.Ramya**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Security Audit **Mrs.R.Ramya**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	OCTAVE approach SSE-CMM **Mr. R.Arun**
Day 6 09.12.17	9.30 a.m. – 11.10 a.m.	Session 1	Server Management and Firewalls **Mrs.R.Ramya**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	User Management& DNS Routing and Load Balancing **Mrs.R.Ramya**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Overview of Firewalls and Types of Firewalls **Mr. R.Arun**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	DMZ and firewall features **Mr. R.Arun**
Day 7 11.12.17	9.30 a.m. – 11.10 a.m.	Session 1	Security Architectures and Models **Mrs.R.Ramya**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Designing Secure Operating Systems **Mr. R.Arun**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Controls to enforce security services **Mr. R.Arun**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Email security: PGP and SMIME **Mrs.R.Ramya**

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADDON COURSE ON CYBER SECURITY PROFESSIONAL
STUDENT ATTENDANCE

S. No	Roll Number	Student Name	Year	04.12.17		05.12.17		06.12.17		07.12.17		08.12.17		09.12.17		11.12.17	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	17CSAO03001	Balaji.R.M	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2.	17CSAO03002	Durgadevi.P	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3.	17CSAO03003	Kannan.B	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4.	17CSAO03004	Madhan.N	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5.	17CSAO03005	Mahalakshmi.M	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6.	17CSAO03006	Nandhini.S	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7.	17CSAO03007	Preetha.B	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8.	17CSAO03008	Preetha.T	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9.	17CSAO03009	Santhoshkumar.A	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10.	17CSAO03010	Shreedhar.V	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.	17CSAO03011	Sripriya.P	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12.	17CSAO03012	Yogesh John.K	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13.	17CSAO03013	Divyalakshmi.P	III	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14.	17CSAO03014	Iswarya.M	III	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15.	17CSAO03015	Keerthiga Devi.V	III	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16.	17CSAO03016	Mohamed Riyaz.M	III	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17.	17CSAO03017	Ponvizhy Swathy.B	III	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18.	17CSAO03018	Ramesh.P	III	P	P	A	A	P	P	P	P	P	P	P	P	P	P
19.	17CSAO03019	Sankari.S	III	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20.	17CSAO03020	Sri Hariharan.C.R	III	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21.	17CSAO03021	Abishek Suryawanshi.S	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22.	17CSAO03022	Aishwarya.A	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23.	17CSAO03023	Amirthavarshini.R.G	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24.	17CSAO03024	Anitha.B	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25.	17CSAO03025	Arul Pavithra.S	IV	P	P	P	P	P	P	P	P	A	A	P	P	P	P
26.	17CSAO03026	Bala Karthick.N	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27.	17CSAO03027	Balanvignesh.A	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28.	17CSAO03028	Bhavani Shri.D	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29.	17CSAO03029	Chithammal.S	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30.	17CSAO03030	Deepan Raja.A	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31.	17CSAO03031	Dilip Kumar.M	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32.	17CSAO03032	Hema Suruthi.S	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33.	17CSAO03033	Janci Rani.S	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34.	17CSAO03034	Jayalakshmi.M	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35.	17CSAO03035	Jegan Adhithya.G	IV	A	A	P	P	P	P	P	P	P	P	P	P	P	P
36.	17CSAO03036	Kalai Wani.K	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37.	17CSAO03037	Kamalakannan. S	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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38.	17CSAO03038	Kamali Devi.M	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39.	17CSAO03039	Karthigai Selvi.K	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40.	17CSAO03040	Kavya.M	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41.	17CSAO03041	Kishendiran.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42.	17CSAO03042	Mahesh.N	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43.	17CSAO03043	Mithra.R	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44.	17CSAO03044	Nagageetha.R	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45.	17CSAO03045	Nivethiya.U	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46.	17CSAO03046	Praveena.B	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47.	17CSAO03047	Rajavennila.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48.	17CSAO03048	Ravi Sankar. A	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49.	17CSAO03049	Rehana.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50.	17CSAO03050	Rishinath.A	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
51.	17CSAO03051	Saravana Prakash.G	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
52.	17CSAO03052	Sathya Priya.J	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53.	17CSAO03053	Seshan . K.B	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54.	17CSAO03054	Shanmuga Priya.R	IV	/	/	/	/	a	a	a	/	/	/	/	/	/	/	/
55.	17CSAO03055	Shipnasbegum.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56.	17CSAO03056	Sreenivasan.A	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
57.	17CSAO03057	Sureshkumar.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58.	17CSAO03058	Sushmitha.M	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
59.	17CSAO03059	Swathi.J	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60.	17CSAO03060	Thamarai Kannan.R	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
61.	17CSAO03061	Vijay.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62.	17CSAO03062	Vinitha.A	IV	/	/	/	/	/	/	/	/	/	/	a	a	/	/	/
63.	17CSAO03063	Vishalatchi.R	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
64.	17CSAO03064	Vishnu Varthan.V	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
65.	17CSAO03065	Yogalakshmi.K	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
66.	17CSAO03066	Dinesh Kumar.V.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
			Present	65	65	65	65	65	65	65	65	65	65	65	65	66	66	
			Absent	1	1	1	1	1	1	1	1	1	1	1	1	-	-	
			Program Coordi															

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON CYBER SECURITY PROFESSIONAL

17CSAO03 - CYBER SECURITY PROFESSIONAL

SAMPLE QUIZ QUESTION PAPER & ANSWER

1. Which of the following is not transport layer vulnerability?
a) Mishandling of undefined, poorly defined
b) The Vulnerability that allows "fingerprinting" & other enumeration of host information
c) Overloading of transport-layer mechanisms
d) Unauthorized network access

2. Which of the following is not session layer vulnerability?
a) Mishandling of undefined, poorly defined
b) Spoofing and hijacking of data based on failed authentication attempts
c) Passing of session-credentials allowing intercept and unauthorized use
d) Weak or non-existent authentication mechanisms

3. Failed sessions allow brute-force attacks on access credentials. This type of attacks is done in which layer of the OSI model?
a) Physical layer b) Data-link Layer c) Session layer d) Presentation layer

4. Transmission mechanisms can be subject to spoofing & attacks based on skilled modified packets.
a) True b) False

5. Which of the following is not an example of presentation layer issues?
a) Poor handling of unexpected input can lead to the execution of arbitrary instructions
b) Unintentional or ill-directed use of superficially supplied input
c) Cryptographic flaws in the system may get exploited to evade privacy
d) Weak or non-existent authentication mechanisms

6. Which of the following is not a vulnerability of the application layer?
a) Application design bugs may bypass security controls
b) Inadequate security controls force "all-or-nothing" approach
c) Logical bugs in programs may be by chance or on purpose be used for crashing programs
d) Overloading of transport-layer mechanisms

7. Which of the following is an example of Transport layer vulnerability?
a) weak or non-existent mechanisms for authentication
b) overloading of transport-layer mechanisms
c) poor handling of unexpected input
d) highly complex application security controls

8. Which of the following is an example of session layer vulnerability?
a) weak or non-existent mechanisms for authentication
b) overloading of transport-layer mechanisms
c) poor handling of unexpected input
d) highly complex application security controls

9. Which of the following is an example of presentation layer vulnerability?
a) Weak or non-existent mechanisms for authentication
b) Overloading of transport-layer mechanisms
c) Highly complex application security controls
d) Poor handling of unexpected input

10. Which of the following is an example of application layer vulnerability?
a) Cryptographic flaws lead to the privacy issue
b) Very complex application security controls
c) MAC Address Spoofing
d) Weak or non-existent authentication

11. Performing a shoulder surfing in order to check other's password is _____ ethical practice.
a) a good b) not so good c) very good social engineering practice d) a bad

12. _____ has now evolved to be one of the most popular automated tools for unethical hacking.
a) Automated apps b) Database software c) Malware d) Worms

13. Leaking your company data to the outside network without prior permission of senior authority is a crime.
a) True b) False

14. _____ is the technique used in business organizations and firms to protect IT assets.
a) Ethical hacking b) Unethical hacking c) Fixing bugs d) Internal data-breach

15. The legal risks of ethical hacking include lawsuits due to _____ of personal data.
a) stealing b) disclosure c) deleting d) hacking

Answers:

1.d	2.a	3.c	4.a	5.d	6.d	7.b	8.a	9.d	10.b	11.d	12.c
13.a	14.a	15.b									

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PROGRAM COORDINATOR

HoD/CSE

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON CYBER SECURITY PROFESSIONAL
STUDENT FEEDBACK

Name of the Student : Ramesh. P	**Year / Semester:** IV / 6
Name of the Program: Cyber Security Professional	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓	✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓	✓		
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Excellent session. It was very useful for me.			

NPR COLLEGE OF ENGG. & TECH. NATHAM

PROGRAM COORDINATOR

HoD/CSE
Head of the Department
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NPR College of Engineering & Technology
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON CYBER SECURITY PROFESSIONAL
STUDENT FEEDBACK

Name of the Student : Balaji R.M	**Year / Semester:** II / IV
Name of the Program: Cyber Security Professional	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person	✓			
5.	Time Management		✓		
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Excellent Course. Good.			

PROGRAM COORDINATOR

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON CYBER SECURITY PROFESSIONAL
STUDENT FEEDBACK

Name of the Student : Hema Sruthi. S	**Year / Semester:** IV / 8
Name of the Program: CYBER SECURITY PROFESSIONAL	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person		✓		
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Examples provided during this course was very useful.			

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PROGRAM COORDINATOR

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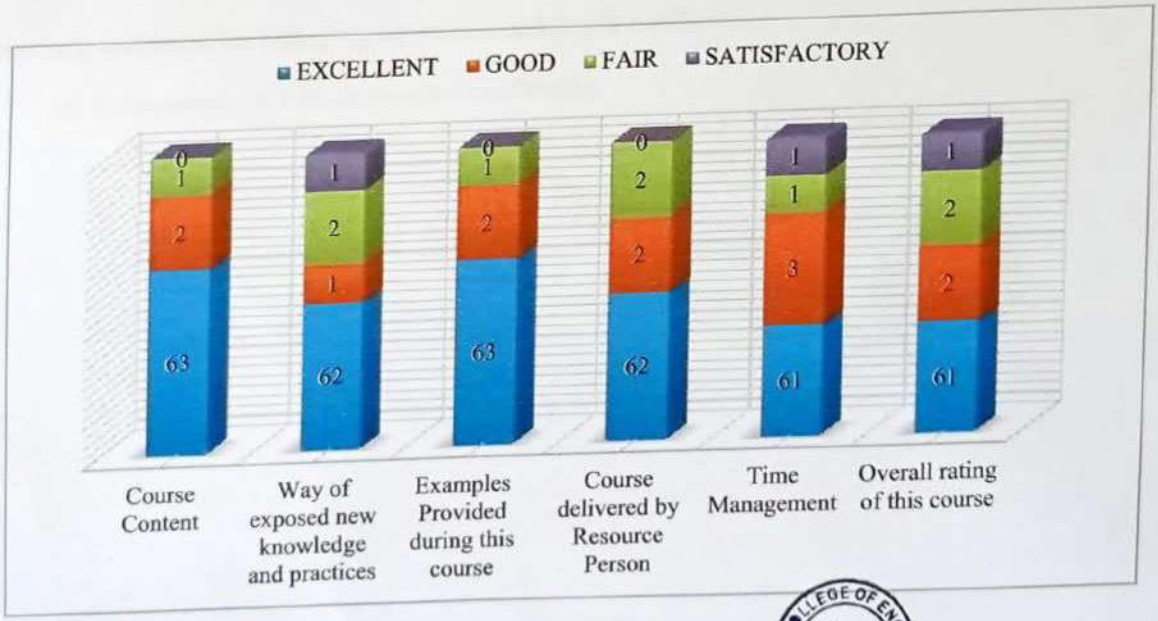
ADD ON COURSE ON CYBER SECURITY PROFESSIONAL

STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 66

DATE: 12.12.17

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	63	2	1	0
2.	Way of exposed new knowledge and practices	62	1	2	1
3.	Examples Provided during this course	63	2	1	0
4.	Course delivered by Resource Person	62	2	2	0
5.	Time Management	61	3	1	1
6.	Overall rating of this course	61	2	2	1
	Average	63	2	1	0



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Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON CYBER SECURITY PROFESSIONAL

SUMMARY REPORT

The Department of Computer Science and Engineering organized add on course on **"Cyber Security Professional"** from 04.12.17 to 11.12.17 (7 Days) at CSE Main Laboratory.

Ms.M.Kaviya, IV CSE has delivered welcome address.

Dr. Maruthukannan, Principal of our college inaugurated the program delivered the inaugural address and insisted for attending importance of such courses.

Resources person Mr. R.Arun, CRM Programmer, Southern Cross Group India Pvt Ltd, Chennai has shared his knowledge and experience in Cyber Security with our students.

He also delivered real time examples to our students.

66 Students attended from CSE II, III and IV year of department. Students those who participated and successfully completed the Quiz program were awarded with certificates.

Ms.U. Nivethiya, IV CSE delivered vote of thanks.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PROGRAM COORDINATOR

HoD/CSE

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Computer Science & Engineering
NPR College of Engineering & Technology
Natham (Dt) - 624 401.

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Principal
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON CYBER SECURITY PROFESSIONAL

COURSE MATERIAL

Material Link:

Chapter 1: https://www.cyberdegrees.org/resources/free-online-courses/

Chapter 2: https://www.coursera.org/specializations/cyber-security

Chapter 3: https://zoomgroup.com/training/india/cybersecurity.asp

Chapter 4: https://www.javatpoint.com/cyber-security-technology

Chapter 5: https://www.javatpoint.com/cyber-security-technology#google_vignette

Further Study:

1. Jennifer Jin and Marcus J Carey," Tribe of Hackers: Cybersecurity Advice from the Best Hackers in the World" published on 2009.
2. Nadean H. Tanner," Cybersecurity Blue Team Toolkit".
3. Scott Augenbaum," The Secret to Cybersecurity: A Simple Plan to Protect Your Family and Business from Cybercrime".
4. Yuri Diogenes Erdal Ozkaya," Cybersecurity: Attack and Defense Strategies".

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PROGRAM COORDINATOR

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Reach the Star

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. P. RAMESH, III – CSE.

For successful completion of Add on Course on
"CYBER SECURITY PROFESSIONAL"
Conducted from 04.12.17 to 11.12.17 (49 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Dr.B.Maruthukannan
PRINCIPAL

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. B. KANNAN, II - CSE.

For successful completion of Add on Course on
"CYBER SECURITY PROFESSIONAL"
Conducted from 04.12.17 to 11.12.17 (49 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Dr.B.Maruthukannan
PRINCIPAL

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CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. R. ANITHA, IV- CSE.

For successful completion of Add on Course on
"CYBER SECURITY PROFESSIONAL"
Conducted from 04.12.17 to 11.12.17 (49 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. N. MAHESH, IV - CSE.

For successful completion of Add on Course on
"CYBER SECURITY PROFESSIONAL"
Conducted from 04.12.17 to 11.12.17 (49 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
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Dr.B.Maruthukannan
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. A. VINITHA, IV - CSE.

For successful completion of Add on Course on
"CYBER SECURITY PROFESSIONAL"
Conducted from 04.12.17 to 11.12.17 (49 Hours)

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA

INDEX

COURSE CODE & NAME: **17CSAO04 & AUTOMATED SOFTWARE TESTING IN JAVA**

ACADEMIC YEAR: 2017 - 2018 SEMESTER: EVEN DURATION: 42 HOURS

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NPR COLLEGE OF ENGG & TECHNOLOGY * NATHAM

PROGRAM COORDINATOR

HoD/CSE

Head of the Department
Department of Computer Science and Engineering
NPR College of Engineering & Technology
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PRINCIPAL

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PERMISSION LETTER

DATE : 30/4/2018

From,

G. Sashikala, program co-ordinator,
computer science and Engineering
NPR college of Engineering and Technology,
Natham.

To,

The Principal,
NPR College of Engineering & Technology, Natham

Respected sir,

Sub : Request for permission to conduct add on course for CSE students - Regarding.

We have planned to conduct add on course of "AUTOMATED SOFTWARE TESTING IN JAVA" to our students from 21.05.18 to 26.05.18 (6 Days) in our college permises. We suggested Mr. J. Viswanath, Assistant professor, Department of computer science & engineering, NPRCET as a resource person for this Add course program. kindly permit us to conduct the same.

Thanking you

Yours faithfully,

G. Sashikala

Forwarded

Head
Department of Computer Science & Engineering
NPR College of Engineering & Technology
30/4/18.

Submitted to the Principal for kind approval

Approved

Principal

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA

RESOURCE PERSONS PROFILE

Name : Mr. J.Viswanath

Designation : Assistant Professor, Department of Computer Science and Engineering

College Name : NPR College of Engineering & Technology, Natham.

Academic Experience :

- ✓ Working as an Assistant Professor at NPR College of Engineering and Technology, Natham form 01.08.2013 to till date.
- ✓ Worked as an Assistant Professor at VSB Engineering College, Karur, from 27-07-2011 to 26-07-2013.

Area of Interest :

- Web Analytics
- Data Mining
- Software Engineering

Name : Mr. R.Hariharan.

Designation : Assistant Professor, Department of Computer Science and Engineering.

College Name : NPR College of Engineering & Technology, Natham.

Academic Experience :

- Working as an Assistant Professor at NPR College of Engineering & Technology, Natham form 08.06.2015 to till date.
- Worked as an Assistant Professor at Maharaja Prithvi Engineering College, Avinashi, from 14.06.2012 to 05.11.2014.

Area of Interest :

- Artificial Intelligence
- Data Analytics
- Software Engineering

PROGRAM COORDINATOR

HoD/CSE

PRINCIPAL

Head of the Department
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NPRCET/OFF/CSE/VAC/2017-2018 DATE: 07.05.18

CIRCULAR

This is to inform that Department of Computer Science and Engineering has planned to conduct add-on course on "**AUTOMATED SOFTWARE TESTING IN JAVA**" for the students during the end of this even semester 2017 - 2018.Interested students can enroll their name to the program coordinator on or before 19.05.18

The details of the training program are given below.

COURSE NAME	:	**AUTOMATED SOFTWARE TESTING IN JAVA**
RESOURCE PERSONS	:	Mr. J.Viswanath, AP/CSE, NPRCET. Mr.R.Hariharan, AP/CSE, NPRCET.
VENUE	:	CSE CP Lab
DATE & DURATION	:	21.05.18 to 26.05.18 (6 Days) & 42 Hour
PROGRAM COORDINATOR	:	Mrs.G.Sashikala, AP/CSE, NPRCET.

PRINCIPAL

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"ADD ON COURSE on AUTOMATED SOFTWARE TESTING IN JAVA"

On 21st May 2018

Venue: NPRCET Seminar hall (Second Floor) at 9.30 A.M.

RESOURCE PERSON

Mr. J.Viswanath, AP/CSE, NPRCET

Mr. R. Hariharan, AP/CSE, NPRCET

Dr.B.MaruthuKannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Computer Science and Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

NPR College of Engineering & Technology

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA
17CSAO04 AUTOMATED SOFTWARE TESTING IN JAVA
COURSE CONTENT

Day 1 - Chapter 1: Selenium Web Driver

- Introduction to Selenium Web Driver
- Selenium Web Driver Environment Setup
- Web Elements and Operations
- Web Element Locators

Day 2 - Chapter 2: Selenium Web Driver API Commands

- Browser Commands
- Commands for Web Elements
- Verification Commands
- Writing Basic Selenium Test Cases
- Enhancing Selenium Test Cases
- Inserting Verification Points
- Creating & Inserting Reusable Components
- Create Object Repositories/POM

Day 3 - Chapter 3: Selenium Testing

- Selenium Data Driven Testing
- Selenium Cross Browser Testing
- Selenium Batch Testing

Day 4 - Chapter 4: TestNG Testing Framework for Selenium

- Install TestNG for Selenium
- TestNG Annotations and Attributes
- Creating Test Batches
- Grouping Test Cases

Day 5 - Chapter 5: TestNG Testing Framework for Selenium

- Prioritizing Test Cases
- Executing Test batches and generating Test Reports
- Data-Driven Testing
- Parallel Testing

Day 6 - Chapter 6: Selenium Project

- Understanding the AUT
- Derive Test Scenarios
- Selenium Test Environment Setup
- Create Selenium Test Cases
- Execute Test Batches and Analyze Test Results

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 75% attendance.
- Student should secure 50% marks in the Exam.

Prepared by: Mr.R.Hariharan, AP/CSE

Approved by

HoD/CSE

Head of the Department
Department of Computer Science and Engineering
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADDON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA

REGISTERED STUDENTS NAME LIST

S. No	Register Number	Student Name	Year
1.	920816104001	Abirami.M	II CSE
2.	920816104006	Charumathy.B	II CSE
3.	920816104009	Durgadevi.P	II CSE
4.	920816104013	Ilamathi.G	II CSE
5.	920816104016	Karthiga.S	II CSE
6.	920816104026	Pravinvino.M(Hostel)	II CSE
7.	920816104028	Preetha.T	II CSE
8.	920816104031	Selvanayaki.C	II CSE
9.	920816104033	Shreedhar.V	II CSE
10.	920816104040	Sundaram.S.K.K	II CSE
11.	920816104043	Tamil Selvan.M	II CSE
12.	920815104006	Divyalakshmi.P	III CSE
13.	920815104009	Ishwarya.N (H)	III CSE
14.	920815104011	Jegatheesh Kannan.J.R	III CSE
15.	920815104014	Keerthiga Devi.V	III CSE
16.	920815104017	Mohamed Javid.S	III CSE
17.	920815104023	Ponvizhy Swathy.B	III CSE
18.	920815104024	Pragathi.T	III CSE
19.	920815104025	Priyanka.B.S (H)	III CSE
20.	920815104027	Ramya Devi.N	III CSE
21.	920815104029	Saravanan.P	III CSE
22.	920815104032	Sindhuja.S	III CSE
23.	920815104035	Tamilarasi.P	III CSE
24.	920815104701	Surya.R	III CSE
25.	920814104001	Abishek Suryawanshi.S	IV CSE
26.	920814104004	Amirthavarshini.R.G	IV CSE
27.	920814104006	Arul Pavithra.S	IV CSE
28.	920814104008	Bala Karthick.N	IV CSE

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29.	920814104012	Chithammal.S	IV CSE
30.	920814104013	Deepan Raja.A	IV CSE
31.	920814104017	Hema Suruthi.S	IV CSE
32.	920814104020	Jayalakshmi.M	IV CSE
33.	920814104021	Jegan Adhithya.G	IV CSE
34.	920814104025	Kalai Wani.K	IV CSE
35.	920814104026	Kamalakannan. S	IV CSE
36.	920814104028	Karthigai Selvi.K	IV CSE
37.	920814104030	Kishendiran.S	IV CSE
38.	920814104034	Nagageetha.R	IV CSE
39.	920814104038	Praveena.B	IV CSE
40.	920814104042	Rehana.S	IV CSE
41.	920814104048	Seshan . K.B	IV CSE
42.	920814104051	Shipnasbegum.S	IV CSE
43.	920814104056	Sushmitha.M	IV CSE
44.	920814104060	Vijay.S	IV CSE
45.	920814104062	Vishalatchi.R	IV CSE
46.	920814104064	Yogalakshmi.K	IV CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA

COURSE SCHEDULE

Venue: CSE CP Lab **Date:** 16.05.18

External Resource Person
Mr. J.Viswanath, AP/CSE

Internal Resource Person
Mr.R.Hariharan, AP/CSE

Day 1 21.05.18	9.30 a.m. to 10.00 a.m.	Inauguration	
	10. 00 a.m. to 11.10 a.m.	Session 1	Introduction to Selenium Web Driver **Mr. J.Viswanath**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Selenium WebDriver Environment Setup **Mr. J.Viswanath**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.40 p.m.	Session 3	Web Elements and Operations **Mr.R.Hariharan**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Web Element Locators **Mr.R.Hariharan**
Day 2 22.05.18	9.30 a.m. – 11.10 a.m.	Session 1	Browser Commands **Mr. J.Viswanath**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Commands for Web Elements **Mr.R.Hariharan**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Enhancing Selenium Test Cases **Mr. J.Viswanath**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Inserting Verification Points **Mr.R.Hariharan**
Day 3 23.05.18	9.30 a.m. – 11.10 a.m.	Session 1	Creating & Inserting Reusable Components **Mr.R.Hariharan**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Selenium Data Driven Testing **Mr. J.Viswanath**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Selenium Cross Browser Testing **Mr. J.Viswanath**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Selenium Batch Testing **Mr.R.Hariharan**

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Day 4 24.05.18	9.30 a.m. – 11.10 a.m.	Session 1	Install TestNG for Selenium **Mr.R.Hariharan**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	TestNG Annotations and Attributes **Mr. J.Viswanath**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Creating Test Batches **Mr.R.Hariharan**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Grouping Test Cases **Mr. J.Viswanath**
Day 5 25.05.18	9.30 a.m. – 11.10 a.m.	Session 1	Prioritizing Test Cases **Mr. J.Viswanath**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Executing Test batches and generating Test Reports. **Mr.R.Hariharan**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Data-Driven Testing **Mr.R.Hariharan**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Parallel Testing **Mr. J.Viswanath**
Day 6 26.05.18	9.30 a.m. – 11.10 a.m.	Session 1	Understanding the AUT **Mr. J.Viswanath**
	11.10 a.m.to 11.30 a.m.	*Tea Break*	
	11.30 a.m.to 1.10 p.m.	Session 2	Derive Test Scenarios **Mr. J.Viswanath**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Create Selenium Test Cases **Mr.R.Hariharan**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Execute Test Batches and Analyze Test Results **Mr.R.Hariharan**

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADDON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA
STUDENT ATTENDANCE

S. No	Roll Number	Student Name	Year	21.05.18		22.05.18		23.05.18		24.05.18		25.05.18		26.05.18	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	17CSAO04001	Abirami.M	II	/	/	/	/	/	/	/	/	/	/	/	/
2.	17CSAO04002	Charumathy.B	II	a	a	/	/	/	/	/	/	/	/	/	/
3.	17CSAO04003	Durgadevi.P	II	/	/	/	/	/	/	/	/	/	/	/	/
4.	17CSAO04004	Ilamathi.G	II	/	/	/	/	/	/	/	/	/	/	/	/
5.	17CSAO04005	Karthiga.S	II	/	/	/	/	/	/	/	/	/	/	/	/
6.	17CSAO04006	Pravinvino.M	II	/	/	/	/	/	/	/	/	/	/	/	/
7.	17CSAO04007	Preetha.T	II	/	/	/	/	/	/	/	/	/	/	/	/
8.	17CSAO04008	Selvanayaki.C	II	/	/	/	/	/	/	/	/	/	/	/	/
9.	17CSAO04009	Shreedhar.V	II	/	/	/	/	/	/	/	/	/	/	/	/
10.	17CSAO04010	Sundaram.S.K.K	II	/	/	/	/	/	/	/	/	/	/	/	/
11.	17CSAO04011	Tamil Selvan.M	II	/	/	/	/	a	a	/	/	/	/	/	/
12.	17CSAO04012	Divyalakshmi.P	III	/	/	/	/	/	/	/	/	/	/	/	/
13.	17CSAO04013	Ishwarya.N	III	/	/	/	/	/	/	/	/	/	/	/	/
14.	17CSAO04014	Jegatheesh Kannan.J.R	III	/	/	/	/	/	/	/	/	/	/	/	/
15.	17CSAO04015	Keerthiga Devi.V	III	/	/	/	/	/	/	/	/	/	/	/	/
16.	17CSAO04016	Mohamed Javid.S	III	/	/	/	/	/	/	/	/	/	/	/	/
17.	17CSAO04017	Ponvizhy Swathy.B	III	/	/	/	/	/	/	/	/	/	/	/	/
18.	17CSAO04018	Pragathi.T	III	/	/	/	/	/	/	/	/	/	/	/	/
19.	17CSAO04019	Priyanka.B.S	III	/	/	/	/	/	/	/	/	/	/	/	/
20.	17CSAO04020	Ramya Devi.N	III	/	/	/	/	/	/	/	/	/	/	/	/
21.	17CSAO04021	Saravanan.P	III	/	/	/	/	/	/	/	/	/	/	/	/
22.	17CSAO04022	Sindhuja.S	III	/	/	/	/	/	/	/	/	/	/	/	/
23.	17CSAO04023	Tamilarasi.P	III	/	/	/	/	/	/	/	/	/	/	/	/
24.	17CSAO04024	Surya.R	III	/	/	/	/	/	/	/	/	/	/	/	/
25.	17CSAO04025	Abishek Suryawanshi.S	IV	/	/	/	/	/	/	/	/	/	/	/	/
26.	17CSAO04026	Amirthavarshini.R.G	IV	/	/	/	/	/	/	/	/	a	a	/	/
27.	17CSAO04027	Arul Pavithra.S	IV	/	/	/	/	/	/	/	/	/	/	/	/
28.	17CSAO04028	Bala Karthick.N	IV	/	/	/	/	/	/	/	/	/	/	/	/

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29.	17CSAO04029	Chithammal.S	IV	/	/	/	/	/	/	/	/	a	a	/	/
30.	17CSAO04030	Deepan Raja.A	IV	/	/	/	/	/	/	/	/	/	/	/	/
31.	17CSAO04031	Hema Suruthi.S	IV	/	/	/	/	/	/	/	/	/	/	/	/
32.	17CSAO04032	Jayalakshmi.M	IV	/	/	/	/	/	/	/	/	/	/	/	/
33.	17CSAO04033	Jegan Adhithya.G	IV	/	/	/	/	/	/	/	/	/	/	/	/
34.	17CSAO04034	Kalai Wani.K	IV	/	/	/	/	/	/	/	/	/	/	/	/
35.	17CSAO04035	Kamalakannan. S	IV	/	/	/	/	/	/	/	/	/	/	/	/
36.	17CSAO04036	Karthigai Selvi.K	IV	/	/	/	/	/	/	/	/	/	/	/	/
37.	17CSAO04037	Kishendiran.S	IV	/	/	/	/	/	/	/	/	/	/	/	/
38.	17CSAO04038	Nagageetha.R	IV	/	/	/	/	/	/	/	/	/	/	/	/
39.	17CSAO04039	Praveena.B	IV	/	/	/	/	/	/	/	/	/	/	/	/
40.	17CSAO04040	Rehana.S	IV	/	/	/	/	/	/	/	/	/	/	/	/
41.	17CSAO04041	Seshan . K.B	IV	/	/	/	/	/	/	/	/	/	/	/	/
42.	17CSAO04042	Shipnasbegum.S	IV	/	/	/	/	/	/	/	/	/	/	/	/
43.	17CSAO04043	Sushmitha.M	IV	a	a	/	/	/	/	/	/	/	/	/	/
44.	17CSAO04044	Vijay.S	IV	/	/	/	/	/	/	/	/	/	/	/	/
45.	17CSAO04045	Vishalatchi.R	IV	/	/	/	/	/	a	a	a	/	/	/	/
46.	17CSAO04046	Yogalakshmi.K	IV	/	/	/	/	/	/	/	/	/	/	/	/
		PRESENT		44	44	46	46	45	45	45	45	45	45	46	46
		ABSENT		2	2	-	-	1	1	1	1	1	1	-	-
		CO ORDINATOR SIGNATURE													

HoD/CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA
17CSAO04 AUTOMATED SOFTWARE TESTING IN JAVA
SAMPLE QUESTION PAPER & ANSWER

1. What is Automation?
   Automation is any action that can reduce human efforts.

2. What is Automation testing?
   The process of using special software tools or scripts to perform testing tasks such as entering data, executing the test steps and comparing the results, etc. is known as Automation testing.

3. What all things can you automate?
   - Regression test suite
   - Smoke / Sanity test suite
   - Build deployment
   - Test data creation
   - Automating behind the GUI like testing of APIs and methods.

4. When is Automation testing useful?

Automation testing is useful in the following scenarios:

a) Regression testing: In case of a bug fix or new module implementation, we have to make sure that the already implemented or unchanged functionality is not affected. In this case, we end up running the regression test case multiple times.

For Example: After each change request or bug fix, after each iteration in case of incremental development approach, etc.

b) Non-functional Testing: Testing the non-functional aspects of an application.

For Example, Load testing or performance testing, etc are very difficult for humans to track and analyze.

c) Complex calculation checks or test scenarios that are prone to human errors.

d) Repeated execution of the same tests: Sometimes, we have to run the same set of test case for a different set of data or after each build release or on multiple hardware, software or combination of both.

Automating the test cases in the above scenarios helps in achieving the speed of testing and minimizing human errors.

5. How do you identify the test cases which are suitable for automation?

Identifying the appropriate test cases for automation is the most important step towards automation.

6. Can you achieve 100% automation?

100% automation would be difficult to achieve because there would be many edge test cases and some cases that are executed seldom. Automating these cases which are not executed that often will not add value to the automated suite.

7. How to decide the tool that one should use for Automation testing in their projects?
   In order to identify the tool for Automation testing in your project:
   a) Understand your project requirements thoroughly and identify the testing scenarios that you want to automate.
   b) Search for the list of tools that support your project's requirements.
   c) Identify your budget for the automation tool. Select the tools within your budget.

8. Currently I do not have any automation in place in my project, but now I want to implement automation, what would be my steps?
   - First, identify which type of testing/test cases you want to automate.
   - Identify the tool
   - Design the framework
   - Create utility files and environment files.
   - Start scripting
   - Identify and work on reporting.
   - Allocating time for enhancing and maintaining the scripts.

9. How do you decide which tool you have to use?
   Concluding which tool is best suitable for the project requires a lot of brainstorming and discussions.

10. Once you identify the tool what would be your next steps?
    Once we finalize the tool, our next step would be to design the framework.
11. What is a framework?
    A framework is a set of the structure of the entire automation suite. It is also a guideline, which if followed can result in a structure that is easy to maintain and enhance.

12. What are the attributes of a good framework?

The characteristics include:
Modular: The framework should be adaptable to change. Testers should be able to modify the scripts as per the environment or login information change.
Reusable: The commonly used methods or utilities should be written in a common file that is accessible to all the scripts.
Consistent: The suite should be written in a consistent format by following all the accepted coding practices.
Independent: The scripts should be written in such a way that they are independent of each other. In case one test fails, it should not hold back the remaining test cases (unless it is a login page)

PROGRAM COORDINATOR

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA
STUDENT FEEDBACK

Name of the Student : M. Abirami	**Year / Semester:** II / IV
Name of the Program: Automated Software Testing in Java	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person		✓		
5.	Time Management	✓			
6.	Overall rating of this course		✓		
7.	Any Other Comments / Suggestions	Good session.			

N.P.R. COLLEGE OF ENGG. & TECHNOLOGY NATHAM

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA
STUDENT FEEDBACK

Name of the Student : B. PRAVEENA	**Year / Semester:** IV / 8
Name of the Program: Automated software testing in Java	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person		✓		
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Good session. Very useful for me.			

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA
STUDENT FEEDBACK

Name of the Student : PRIYANKA. B. S.	**Year / Semester:** III / VI
Name of the Program: Automated Software Testing in Java	

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	course content was very useful.			

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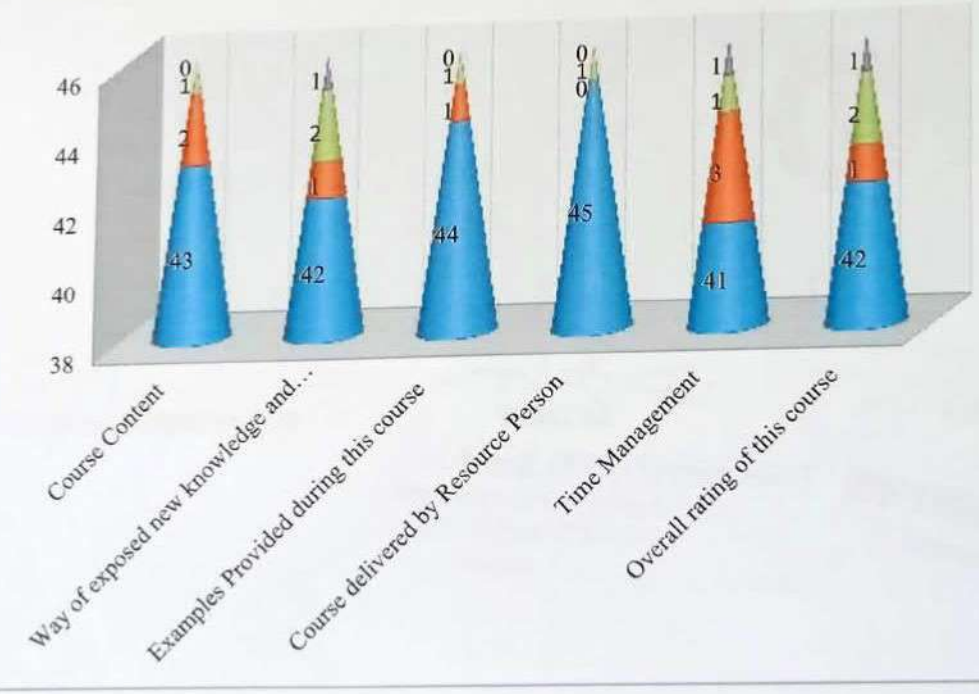
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA
STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 46 **DATE: 28.05.18**

S. No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	43	2	1	0
2.	Way of exposed new knowledge and practices	42	1	2	1
3.	Examples Provided during this course	44	1	1	0
4.	Course delivered by Resource Person	45	0	1	0
5.	Time Management	41	3	1	1
6.	Overall rating of this course	42	1	2	1
	Average	43	1	1	1



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NPR College of Engineering & Technology

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA

SUMMARY REPORT

The Department of Computer Science and Engineering organized 6 Days add on course "**Automated Software Testing in Java**" from 21.05.18 to 26.05.18 at CSE CP Laboratory. Mr.A.Deepan Raja, final year CSE student delivered welcome address. Dr. Maruthukannan, Principal of our college inaugurated the program delivered the inaugural address. Resource persons Mr.J.Viswanath, AP/CSE and Mr.R.Hariharan, AP/CSE has shared his knowledge with our students. The students learnt how to design and test the various test cases of Automated Software Testing in Java. 46 Students attended from CSE department. Students those who participated and successfully completed the Quiz program were awarded with certificates. Ms. Nagageetha.R, IV CSE delivered vote of thanks.

NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

PROGRAM COORDINATOR **HoD/CSE** **PRINCIPAL**

Head of the Department
Department of Computer Science
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ADD ON COURSE ON AUTOMATED SOFTWARE TESTING IN JAVA

COURSE MATERIAL

Material Link:

Chapter 1: https://www.guru99.com/automation-testing.html

Chapter 2: https://www.tutorialspoint.com/software_testing_dictionary/alpha_testing.htm

Chapter 3: https://www.javatpoint.com/prototype-model

Chapter 4: https://www.javatpoint.com/cause-and-effect-graph-technique-in-black-box-testing

Chapter 5: https://www.toptal.com/java/java-automation-testing-tutorial-2019

Further Study:

1. **"Advanced Selenium Web Accessibility Testing",** Narayanan Palani.
2. **"Practical Test Design",**Istvan Forgacs, Attila Kovacs
3. **"Practical Security Automation and Testing",**Tony Hsiang – Chih Hsu
4. **"Selenium Framework Design in Data Driven Testing",**Carl Cocchiaro

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PROGRAM COORDINATOR HoD/CSE PRINCIPAL

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Reach the Star

Department of Computer Science and Engineering

CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. S. KARTHIGA, II - CSE

For completing the 6-Days Add-on course on "**AUTOMATED SOFTWARE TESTING IN JAVA**" *Conducted from 21.05.18 to 26.05.18(42 Hours)*

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Dr. B. Maruthukannan
PRINCIPAL

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CERTIFICATE OF COMPLETION

This certificate is presented to

MS. T. PRAGATHI, III- CSE.

For completing the 6-Days Add-on course on "**AUTOMATED SOFTWARE TESTING IN JAVA**" *Conducted from 21.05.18 to 26.05.18(42 Hours)*

Mrs.A.R.Rajeswari
HoD/CSE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Dr. B. Maruthukannan
PRINCIPAL

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CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. S. MOHAMED JAVID, ID – CSE

For completing the 6-Days Add-on course on **"AUTOMATED SOFTWARE TESTING IN JAVA"** *Conducted from 21.05.18 to 26.05.18(42 Hours)*

Mrs.A.R.Rajeswari
HoD/CSE

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CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. S. VIJAY, IV - CSE.

For completing the 6-Days Add-on course on "**AUTOMATED SOFTWARE TESTING IN JAVA**" *Conducted from 21.05.18 to 26.05.18(42 Hours)*

Mrs.A.R.Rajeswari
HoD/CSE

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Dr. B. Maruthukannan
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Reach the Star

Department of Computer Science and Engineering

CERTIFICATE OF COMPLETION

This certificate is presented to

Ms. K. KALAI WANI, IV - CSE.

For completing the 6-Days Add-on course on "**AUTOMATED SOFTWARE TESTING IN JAVA**" *Conducted from 21.05.18 to 26.05.18(42 Hours)*

Mrs.A.R.Rajeswari
HoD/CSE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE

INDEX

COURSE CODE & NAME: 17EECC01 & Advanced Control Methods of Electrical Drives

ACADEMIC YEAR: 2017-18 **SEMESTER**: ODD **DURATION**: 35 HOURS

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PROGRAM CO ORDINATOR

HOD/EEE

Head of the Department
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IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
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Principal
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PERMISSION LETTER

DATE: 26-06-17

From:

The Head of the Department,

Electrical and Electronics Engineering,

NPR College of Engineering and Technology,

Natham.

To

The Principal,

NPR College of Engineering and Technology,

Natham.

Respected Sir,

Sub: Request for permission to conduct certificate course for EEE students – Regarding

With reference to the above subject, the application is hereby submitted for your approval to conduct certificate course on **"Advanced Control Methods of Electrical Drives"** to our students 01.07.2017 to 06.07.2017 (5 Days) in our college premises. In this regard we have proposed **Er. R.Muruganandham, Lakshmi Electrical Drives Private Ltd. Coimbatore,** as resource person for this Certificate course program. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully,

Head of the Department
Dept. of Electrical & Electronics Engg.
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON

ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES

RESOURCE PERSON PROFILE

Name	:	**Er. R.Muruganandham**
Designation	:	Electrical Engineer
Company Name	:	Lakshmi Electrical Drives Privalte Ltd. Coimbatore
About Resource Person	:	He is working as a senior Electrical Engineer at Lakshmi Electrical Drives Privalte Ltd. Coimbatore with more knowledge's in Design and control of Electrical drives , Testing and commissioning

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
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Coordinator - IQAC
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NPRCET/OFF/EEE/VAC/2017-18 DATE: 27.06.17

CIRCULAR

This is to inform that Department of Electrical and Electronics Engineering has planned to conduct a certificate course on "**Advanced Control Methods of Electrical Drives**" for EEE students in our college campus during this odd semester 2017-2018. Interested students can enroll their name to the program coordinator on or before 29.06.17.

The details of the training program are given below:

COURSE NAME	:	**Advanced Control Methods of Electrical Drives**
RESOURCE PERSONS	:	.Mr. **Er. R.Muruganandham** **Lakshmi Electrical Drives Private Ltd. Coimbatore**
VENUE	:	Electrical Machines Lab
DATE & DURATION	:	01.07.2017 to 06.07.2017 & 35Hours

PRINCIPAL

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Copy to:

1. All the HoDs
2. Notice Board
3. All the class Rooms
4. File
5. Program Coordinator

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE

COURSE CODE& NAME: 17EECC01 & Advanced Control Methods of Electrical Drives

COURSE CONTENT

CHAPTER -1 CONTROL CIRCUIT COMPONENTS

- Switches – Push button, selector, drum, limit, pressure, temperature (Thermostat), float, zero speed and proximity switches.
- Relays – Voltage relay, DC series current relay, frequency response relay, latching relay and phase failure relay (single phasing preventer). Over current relay –
- Timer – Thermal Pneumatic and Electronic timer.
- Solid state relay, Simple ON-OFF motor control circuit,
- Remote control operation and interlocking of drives.

CHAPTER -2 AC MOTOR CONTROL CIRCUITS

- Motor current at start and during acceleration
- No load speed and final speed of motor, DOL starter
- Automatic auto transformer starter (open circuit and closed circuit transition)
- Star/Delta starter (semi automatic and automatic)
- Starter for two speed two winding motor
- Reversing the direction of rotation of induction motor
- Three step rotor resistance starter for wound induction motor
- Secondary frequency acceleration starter.

CHAPTER -3 INDUSTRIAL CONTROL CIRCUITS

- Planner machine control
- Skip hoist control
- Automatic control of a water pump
- Control of electric oven Control of air compressor
- Control of over head crane
- Trouble spots in control circuits
- General procedure for trouble shooting

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CHAPTER -4 PROGRAMMABLE LOGIC CONTROLLER AUTOMATION

- Types of automation (manufacturing and nonmanufacturing)
- Advantages of automation
- Modes of operation
- PLC scan – memory organization
- Input module, output module (schematic and wiring diagram)
- Types of Programming Devices
- PLC Types (Fixed and Modular)
- Criteria for selection of suitable PLC
- List of various PLCs available.

CHAPTER -5 PLC PROGRAMMING

- Different programming languages
- Ladder diagram – Relay type instruction
- Timer instruction – ON delay and OFF delay Timer
- Retentive Timer Instruction – Cascading Timers
- Ladder logic diagram for DOL Starter,
- Automatic STAR-DELTA Starter -rotor resistance starter
- EB to Generator changeover system.

Criteria to get Certificate

- Students should register their names for this course
- Students must have 85% attendance
- Students should secure 50% marks in the exam

Prepared by: Mr.K.Rajesh, AP/EEE/NPRCET

Approved by,

HOD/EEE

Head of the Dept.
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401

IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

PRINCIPAL

Principal
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON

ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES

STUDENTS WILLING LIST

Sl. No.	Reg.No.	NAME	YEAR
1. 1	920815105001	R.ANUSUYA	III-EEE
2.	920815105002	S.BALASUBRAMANYAN	III-EEE
3.	920815105003	A.DIANA	III-EEE
4.	920815105004	R.GANGA	III-EEE
5.	920815105007	M.KARTHICK	III-EEE
6.	920815105008	R.KARTHIK	III-EEE
7.	920815105009	D.KARUNYA	III-EEE
8.	920815105010	VMAYIL KUMAR	III-EEE
9.	920815105013	K.NAVEENKUMAR	III-EEE
10.	920815105015	P.PRAKASH	III-EEE
11.	920815105016	T.PREM KUMAR	III-EEE
12.	920815105017	S.RAJAN	III-EEE
13.	920815105019	S.RAMYAKAMALI	III-EEE
14.	920815105020	T.REENU	III-EEE
15.	920815105021	S.SELVAKUMAR	III-EEE
16.	920815105022	J.STEPHEN CORNELIUS	III-EEE
17.	920815105025	P.THENMOZHI PRABHA	III-EEE
18.	920815105026	P.VIGNESHVAR	III-EEE
19.	920815105301	PL.RANJITHA	III-EEE
20.	920814105002	ABINAYA	IV-EEE
21.	920814105003	ANANTH KUMAR	IV-EEE
22.	920814105004	ANITHA	IV-EEE
23.	920814105005	ARAVINTH	IV-EEE
24.	920814105006	ARUNKUMAR	IV-EEE
25.	920814105007	ARUNRAJ	IV-EEE

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26.	920814105008	ASMITHA	IV-EEE
27.	920814105009	DHARAGHANATH	IV-EEE
28.	920814105010	GANDHI RAJAN	IV-EEE
29.	920814105011	GURU PRAKASH	IV-EEE
30.	920814105012	HENRIE	IV-EEE
31.	920814105013	JALALUTHEEN	IV-EEE
32.	920814105014	JANANI AISHWARYA	IV-EEE
33.	920814105015	JEYAPRAVEEN KUMAR	IV-EEE
34.	920814105016	JEYASUDHA	IV-EEE
35.	920814105017	KALIRAJA	IV-EEE
36.	920814105019	MADHANKUMAR	IV-EEE
37.	920814105020	MADHAVAN	IV-EEE
38.	920814105021	MANOJRAJA	IV-EEE
39.	920814105022	MARUTHAIVEERAN	IV-EEE
40.	920814105023	MOHAMED HALITH	IV-EEE
41.	920814105024	NIYAS AHAMED	IV-EEE
42.	920814105028	RAMAKRISHNAN	IV-EEE
43.	920814105029	RAM PRASATH	IV-EEE
44.	920814105030	RAMU	IV-EEE
45.	920814105031	RAMYA	IV-EEE
46.	920814105032	RAMYA KALYANI	IV-EEE
47.	920814105033	RAVIKUMAR	IV-EEE
48.	920814105034	SAKTHIVEL PANDIYAN	IV-EEE
49.	920814105035	SANTHANAPRAKASH	IV-EEE
50.	920814105036	SARANYA DEVI	IV-EEE
51.	920814105037	SARAVANA KUMAR	IV-EEE
52.	920814105038	SATHESHKUMAR	IV-EEE
53.	920814105039	SOWMIYA	IV-EEE
54.	920814105040	SRIDHAR	IV-EEE
55.	920814105041	SRINIVASAN	IV-EEE
56.	920814105042	THAHIRA	IV-EEE
57.	920814105043	UDHAYAKUMAR	IV-EEE
58.	920814105044	USHADEVI	IV-EEE

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59.	920814105045	VENKATESH	IV-EEE
60.	920814105046	VIJAYA LAKSHMI	IV-EEE
61.	920814105047	VIJAY SRINIVASAN	IV-EEE
62.	920814105048	YUVARAJAN	IV-EEE
63.	920814105301	AJITH KANNA	IV-EEE
64.	920814105302	ARUNKUMAR	IV-EEE
65.	920814105303	HARIHARA SUGAN	IV-EEE
66.	920814105304	KARTHIKA	IV-EEE
67.	920814105305	KARTHIKEYAN	IV-EEE
68.	920814105306	MAHARAJA	IV-EEE
69.	920814105307	NAGARJUN	IV-EEE
70.	920814105308	RAMPRASATH	IV-EEE
71.	920814105309	SIVA	IV-EEE

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

Certificate Course on

"Advanced Control Methods Of Electrical Drives"

On 1st July, 2017

Venue: Electrical Machines Lab at 10.00 A.M.

CHIEF GUEST

Mr. Er. R.Muruganandham

Lakshmi Electrical Drives Private Ltd. Coimbatore

PRINCIPAL

Dr.B.Maruthukannan

NPR College of Engineering & Technology

FELICITATES THE FUNCTION

Organized by

Department of Electrical and Electronics Engineering,

NPR College of Engineering & Technology, NPR Nagar,

Natham.

NPR College of Engineering & Technology

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CERTIFICATE COURSE ON
ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES
COURSE SCHEDULE

EXTERNAL RESOURCE PERSON	INTERNAL RESOURCE PERSON
Er. R.Muruganandham	1. Mrs.N.Ezhilmathy AP/EEE
	2.Mr.K.Rajesh AP/EEE

Day 1 **29.04.2019**	9.00 a.m	Registration	
	9.30 a.m – 10.00 a.m	Inauguration	
	10. 00 a.m - 11.10 a.m	Session 1	Control Circuit Components **Er. R.Muruganandham**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Solid state relay, Simple ON-OFF motor control circuit, **Mr.K.Rajesh; AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Remote control operation and interlocking of drives **Er. R.Muruganandham**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Relays – Voltage relay, DC series current relay, frequency response relay, and single phasing preventer. Over current relay **Er. R.Muruganandham**
Day 2 **30.04.2019**	9.30 a.m – 11.10 a.m	Session 1	PLC PROGRAMMING Different programming languages Ladder diagram – Relay type instruction **Mr.Rajesh AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Ladder logic diagram for DOL Starter, **Mrs.N.Ezhilmathy AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Automatic STAR-DELTA Starter - rotor resistance starter **Mr.K.Rajesh AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	

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	3.50 p.m to 4.30 p.m	Session 4	EB to Generator changeover system **Mrs.N.Ezhilmathy AP/EEE**
Day 3 **01.05.2019**	9.30 a.m – 11.10 a.m	Session 1	Types of automation (manufacturing and nonmanufacturing) **Mr.K.Rajesh AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Types of Programming Devices **Mrs.N.Ezhilmathy AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Criteria for selection of suitable PLC **Mr.K.Rajesh AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	List of various PLCs available. **Mrs.N.Ezhilmathy AP/EEE**
Day 4 **02.05.2019**	9.30 a.m – 11.10 a.m	Session 1	Automatic auto transformer starter (open circuit and closed circuit transition) **Mr.K.Rajesh AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Starter for two speed two winding motor **Mrs.N.Ezhilmathy AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Reversing the direction of rotation of induction motor **Mr.K.Rajesh AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Three step rotor resistance starter for wound induction motor **Mrs.N.Ezhilmathy AP/EEE**
Day 5 **03.05.2019**	9.30 a.m – 11.10 a.m	Session 1	Industrial Control Circuits Planner machine control,Skip hoist control,Automatic control of a water pump **Er. R.Muruganandham**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Control of over head crane Trouble spots in control circuits **Er. R.Muruganandham**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Control of electric oven Control of air compressor **Mr.K.Rajesh AP/EEE**
		Tea Break	

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	3.40 p.m to 3.50 p.m		
	3.50 p.m to 4.30 p.m	Session 4	General procedure for trouble shooting . **Er. R.Muruganandham**
	4.30 p.m to 5.00 p.m	Valedictory	

PROGRAM COORDINATOR **HOD/EEE** **IQAC** **PRINCIPAL**

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Coordinator IQAC
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Principal
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CERTIFICATE COURSE ON
ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES
STUDENTS ATTENDANCE

S.No.	Roll No.	NAME	01.07.17		02.07.17		03.07.17		04.07.17		06.07.17	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	17EECC01001	R.Anusuya										
2.	17EECC01002	S.Balasubramanyan										
3.	17EECC01003	A.Diana										
4.	17EECC01004	R.Ganga										
5.	17EECC01005	M.Karthick										
6.	17EECC01006	R.Karthik										
7.	17EECC01007	D.Karunya										
8.	17EECC01008	Vmayil Kumar										
9.	17EECC01009	K.Naveenkumar										
10.	17EECC01010	P.Prakash										
11.	17EECC01011	T.Prem Kumar										
12.	17EECC01012	S.Rajan										
13.	17EECC01013	S.Ramyakamali										
14.	17EECC01014	T.Reenu										
15.	17EECC01015	S.Selvakumar										
16.	17EECC01016	J.Stephen Cornelius										
17.	17EECC01017	P.Thenmozhi Prabha					A	A				
18.	17EECC01018	P.Vigneshvar										
19.	17EECC01019	Pl.Ranjitha										
20.	17EECC01020	Abinaya										
21.	17EECC01021	Ananth Kumar										
22.	17EECC01022	Anitha										
23.	17EECC01023	Aravinth										
24.	17EECC01024	Arunkumar										
25.	17EECC01025	Arunraj	a	a								
26.	17EECC01026	Asmitha										
27.	17EECC01027	Dharaghanath										
28.	17EECC01028	Gandhi Rajan										
29.	17EECC01029	Guru Prakash										
30.	17EECC01030	Henrie										
31.	17EECC01031	Jalalutheen										
32.	17EECC01032	Janani Aishwarya										
33.	17EECC01033	Jeyapraveen Kumar										
34.	17EECC01034	Jeyasudha			a	a						
35.	17EECC01035	Kaliraja										
36.	17EECC01036	Madhankumar										

Complete

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37.	17EECC01037	Madhavan											
38.	17EECC01038	Manojraja											
39.	17EECC01039	Maruthaiveeran											
40.	17EECC01040	Mohamed Halith											
41.	17EECC01041	Niyas Ahamed											
42.	17EECC01042	Ramakrishnan											
43.	17EECC01043	Ram Prasath											
44.	17EECC01044	Ramu											
45.	17EECC01045	Ramya											
46.	17EECC01046	Ramya Kalyani											
47.	17EECC01047	Ravikumar											
48.	17EECC01048	Sakthivel Pandiyan											
49.	17EECC01049	Santhanaprakash											
50.	17EECC01050	Saranya Devi											
51.	17EECC01051	Saravana Kumar											
52.	17EECC01052	Satheshkumar											
53.	17EECC01053	Sowmiya											
54.	17EECC01054	Sridhar											
55.	17EECC01055	Srinivasan											
56.	17EECC01056	Thahira					A	A					
57.	17EECC01057	Udhayakumar											
58.	17EECC01058	Ushadevi											
59.	17EECC01059	Venkatesh											
60.	17EECC01060	Vijaya Lakshmi											
61.	17EECC01061	Vijay Srinivasan											
62.	17EECC01062	Yuvarajan											
63.	17EECC01063	Ajith Kanna											
64.	17EECC01064	Arunkumar					A	A					
65.	17EECC01065	Harihara Sugan											
66.	17EECC01066	Karthika											
67.	17EECC01067	Karthikeyan											
68.	17EECC01068	Maharaja											
69.	17EECC01069	Nagarjun											
70.	17EECC01070	Ramprasath											
71.	17EECC01071	Siva											

PRESENT - 69 - 70 P-68 P-71 P-71
ABSENT - 02 - 01 A-03 A-NIL A-NIL
TOTAL - 71 - 71 T-71 T-71

PROGRAM COORDINATOR

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CERTIFICATE COURSE ON
ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES
QUIZ QUESTION PAPER & ANSWER

1. **Plugging is suitable for _____ type loads.**

   a) Gravitational

   b) Electrostatic

   c) Weightless

   d) Leading

2. **In DC shunt machine ∅ is directly proportional to I_a.**

   a) True

   b) False

3. **Braking resistance should be selected in order to limit the braking current.**

   a) True

   b) False

4. **Torque developed in the motor is _____**

   a) $K_m \Phi I_a$

   b) $K_m \Phi I_a^3$

   c) $2K_m \Phi I_a$

   d) $K_m \Phi I_a^2$

5. **Full form of TVR is _____**

   a) Terminal voltage reversal

   b) Total voltage reversal

   c) Terminal voltage redirect

   d) Total voltage reversal

6. **Calculate the current in DC shunt field winding using the following data: I_a=15 A, I_L=21, R=22, N=484.**

   a) 4 A

   b) 2 A

   c) 7 A

   d) 6 A

7. **The shape of the speed-armature current characteristics in DC shunt motor is _____**

   a) Hyperbolic

   b) Parabola

   c) Negative slope linear line

   d) Ellipse

8. **The shape of the speed-torque characteristics in DC shunt motor is _____**

   a) Rectangular Hyperbolic

   b) Whole x-y plane

   c) Circle

   d) Ellipse

9. **DC shunt motors are used where the high _____ is required.**

   a) Starting torque

   b) Maximum torque

   c) Minimum torque

   d) Breakdown torque

10. The relationship between the torque(T) and power(P) developed in the DC shunt motor is _____ (Neglecting all the losses)

a) $T \propto \sqrt{P}$

b) $T \propto P^2$

c) $T \propto \sqrt[3]{P}$

d) $T \propto P$

ANSWERS:

1. A
2. B
3. A
4. A
5. A
6. D
7. C
8. B
9. A
10. D

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CERTIFICATE COURSE ON
ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES
STUDENT FEEDBACK

Name of the Student : P. Vignesh Rao	Year / Semester: II / IV
Name of the Program: ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content		✓		
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course		✓		
7	Any Other Comments / Suggestions	Very useful information			

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CERTIFICATE COURSE ON
ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES
STUDENT FEEDBACK

Name of the Student : D. Karunya	Year / Semester: III / V
Name of the Program: ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course	✓			
7	Any Other Comments / Suggestions	Learned more about Electrical drives control			

PROGRAM COORDINATOR

HOD/EEE

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STUDENT FEEDBACK

Name of the Student : K Arunkumar	**Year / Semester:** III / V
Name of the Program: ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices		✓		
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course		✓		
7	Any Other Comments / Suggestions	useful information on electrical drives.			

PROGRAM COORDINATOR **HOD/EEE** **PRINCIPAL**

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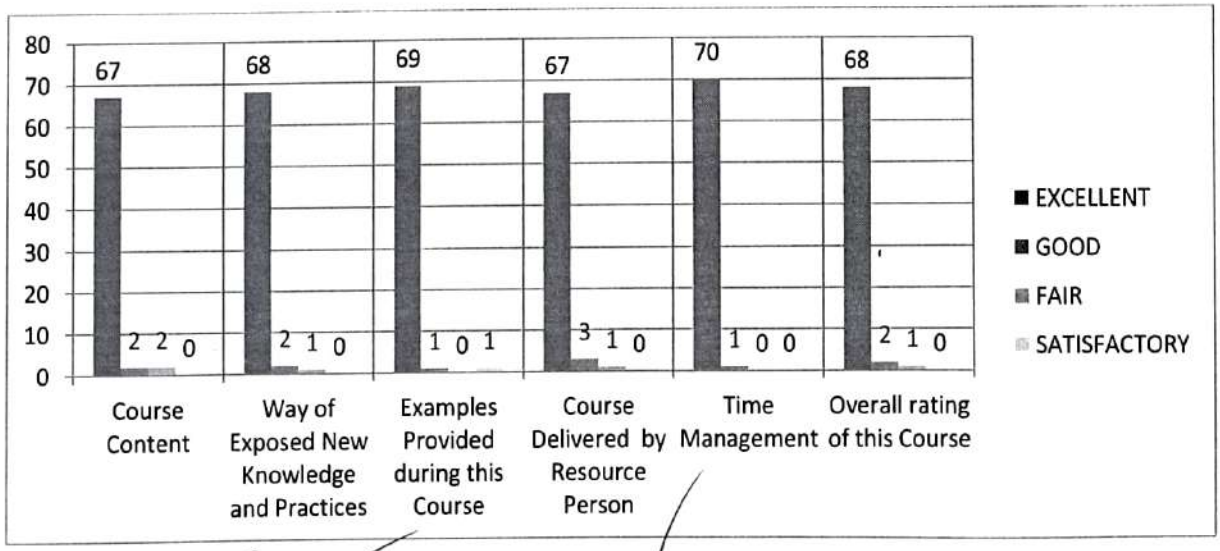
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CERTIFICATE COURSE ON
ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES
STUDENTS FEEDBACK ANALYSIS REPORT

TOTAL STRENGTH: 71 **DATE:06-07-17**

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	67	02	02	00
2	Way of Exposed New Knowledge and Practices	68	02	01	00
3	Examples Provided during this Course	69	01	00	01
4	Course Delivered by Resource Person	67	03	01	00
5	Time Management	70	01	00	00
6	Overall rating of this Course	68	02	01	00
7	Average	68.16	1.83	0.83	0.16

Total number of students completed the course successfully: 71



PROGRAM COORDINATOR HOD/EEE PRINCIPAL

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CERTIFICATE COURSE ON
ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES
SUMMARY REPORT

The Department of Electrical and Electronics Engineering Organized certificate course **"Advanced Control Methods of Electrical Drives"** from 01.07.2017 to 06.07.2017 (5 days) at El9ectrical Machines Lab Ms.P. Asmitha final year EEE student delivered welcome address.

Dr.B.Maruthukannan Principal of our college inaugurated the program and delivered the inaugural address. **Er. R.Muruganandha**, from Lakshmi Electrical Drives Private Ltd. Coimbatore, has participated with us and explained his knowledge with our students. This five days course gave us the good over view on **Advanced Control Methods of Electrical Drives** and provided lots of information regarding the topic. In addition to this, it also gave the information on future outcomes.

He also explained fundamentals and principles of Electrical Drives and control techniques which enables the students to have skills to resolve complex real world problems in for decision support.our students learnt various existing and emerging technologies of concept of Control of Electric drives.71 students of EEE department were attended the course and completed it successfully and awarded with certificates.

Finally the course was concluded by Mr. R.Siva, III year EEE student by delivering vote of thanks.

PROGRAM COORDINATOR **HOD/EEE** **PRINCIPAL**

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CERTIFICATE COURSE ON
ADVANCED CONTROL METHODS OF ELECTRICAL DRIVES

COURSE MATERIAL

CHAPTER-1: https://drive.google.com/file/d/19dZ43H-epM4Xfz37SYRt_zG2eLHHoINb/view

CHAPTER-2: 2. https://drive.google.com/file/d/1cyP4NUFiiT1GM9z3hOw2M0USY5DL15TJ/view

CHAPTER-3:. https://drive.google.com/file/d/1GiyMKZz1tHx2BMXc0jnVUpIycK-PWPjL/view

CHAPTER-4:. https://drive.google.com/file/d/1_w8N5CWc8itm_elhNBvEXiBhWMFnkfIK/view

CHAPTER-5:. https://drive.google.com/file/d/19Z6JXkpBeNRe5cM3JSkzlot_w5SebKYb/view

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Reach the Star

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that

MR. P. VIGNESWAR, III YEAR / EEE

For successful completion of certificate course on

"ADVANCED CONTROL METHIDS OF ELECTRICAL DRIVES"

From 01.07.2017 to 05.07.2017.

ATTESTED

HOD/EEE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) 624401.

PRINCIPAL

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Reach the Star

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that

M.S. T. REENU, III YEAR EEE

For successful completion of certificate course on

"ADVANCED CONTROL METHIDS OF ELECTRICAL DRIVES"

From 01.07.2017 to 05.07.2017.

ATTESTED

HOD/EEE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Tech...
Natham, Dindigul (Dt) - 624...

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Reach the Star

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that

MR. S. RAJAN III YEAR EEE

For successful completion of certificate course on

"ADVANCED CONTROL METHIDS OF ELECTRICAL DRIVES"

From 01.07.2017 to 05.07.2017.

HOD/EEE

ATTESTED

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that

Ms. SARANYA DEVI. IV YEAR EEE

For successful completion of certificate course on

"ADVANCED CONTROL METHIDS OF ELECTRICAL DRIVES"

From 01.07.2017 to 05.07.2017.

ATTESTED

HOD/EEE

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CERTIFICATE OF PARTICIPATION

This is to certify that

Ms. VIJAYA LAKSHMI FINAL YEAR EEE

For successful completion of certificate course on

"ADVANCED CONTROL METHIDS OF ELECTRICAL DRIVES"

From 01.07.2017 to 05.07.2017.

ATTESTED

HOD/EEE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.
Phone No: 04544- 246 500, 246501, 246502.
Website : www.nprcolleges.org, www.nprcet.org, Email:nprcetprincipal@nprcolleges.org

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE

INDEX

COURSE CODE & NAME: 17EECC02 & WIRING AND WINDING

ACADEMIC YEAR: 2017-18 **SEMESTER:** ODD **DURATION:** 35 HOURS

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PROGRAM CO ORDINATOR HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

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N.P.R. College of Engineering & Technology
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PERMISSION LETTER

DATE: 13-11-17

From:

The Head of the Department,

Electrical and Electronics Engineering,

NPR College of Engineering and Technology,

Natham.

To

The Principal,

NPR College of Engineering and Technology,

Natham.

Respected Sir,

Sub: Request for permission to conduct certificate course for EEE students – Regarding

With reference to the above subject, the application is hereby submitted for your approval to conduct certificate course on **"Wiring and Winding"** to our student's from 21-11-17 to 25-11-17 (5 Days) in our college premises. In this regard we are proposed **Mr.K. Rajesh AP/EEE & Mr.M.Pandi Maharajan AP/EEE, of our college EEE department faculties** as a resource person for this certificate course. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully,

Head of the Department
Department of Electrical & Electronics
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

NPR COLLEGE OF ENGG. & TECHNOLOGY
NATHAM

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

NPR College of Engineering & Technology

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON WIRING AND WINDING

RESOURCE PERSON PROFILE

1. Name of the Faculty : M.PANDI MAHARAJAN

1. **Designation** : Assistant Professor
2. **Department** : Electrical and Electronics Engineering
3. **Date of Joining** : 20.06.2013
4. **Qualification** : M.E
5. **Phone Number** : 9944508585
6. **Email id** : pandi.m@nprcolleges.org
7. **Area of Interest** : Power system design & Electrical Machines
8. **Experience** :11 Years
9. **Membership in Professional bodies:** ISTE

2. Name of the Faculty : Mr.K.RAJESH

1. **Designation** : Assistant Professor
2. **Department** : Electrical and Electronics Engineering
3. **Date of Joining** : 01.07.2016
4. **Qualification** : M.E
5. **Phone Number** : 9942305401
6. **Email id** : rajeshk@nprcolleges.org
7. **Area of Interest** : Power System
8. **Experience** :07Years
9. **Membership in Professional bodies:** ISTE

PROGRAM COORDINATOR

HOD/EEE
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Coordinator IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

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NPRCET/OFF/EEE/VAC/2017-18

DATE: 15.11.2017

CIRCULAR

This is to inform that Department of Electrical and Electronics Engineering has planned to conduct a certificate course on **"Wiring and Winding"** for EEE students in our college campus during this Odd semester 2017-2018. Interested students can enroll their name to the program coordinator on or before 18.11.17

The details of the training program are given below:

COURSE NAME	:	**Wiring And Winding**
RESOURCE PERSONS	:	1.Mr. **Mr.K. Rajesh AP/EEE**
		2.Mr. **Mr.M.Pandi Maharajan AP/EEE**
VENUE	:	Electrical Machines Lab
DATE & DURATION	:	21-11-17 to 25-11-17 & 36 Hours

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PRINCIPAL

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Copy to:

1. All the HoDs
2. Notice Board
3. All the class Rooms
4. File
5. Program Coordinator

NPR College of Engineering & Technology

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Certificate Course on WIRING &WINDING"

On 21st November, 2017

Venue: Seminar Hall (Rear Block, Second Floor) at 10.00 a.m.

PRINCIPAL

Dr.B.Maruthukannan

NPR College of Engineering & Technology

RESOURCE PERSONS

Mr.K. Rajesh AP/EEE

Mr.M.Pandi Maharajan AP/EEE

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Electrical & Electronics Engineering,

NPR College of Engineering & Technology, NPR Nagar,

Natham.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE

COURSE CODE & NAME: 17EECC02 & WIRING AND WINDING

COURSE CONTENT

CHAPTER 1: POWER WIRING

- Tools and measuring instruments,
- Electrical accessories, Types of Fuse & MCB, RCCB, ELCB, MCCB, ICDP and ICTP , Circuits,
- Testing of circuits and connections of parallel and series combination of wiring
- surface wiring, concealed wiring
- Fan and regulator connections, conductor, insulator, semi-conductor, earthing, wiring types, polarity testing,
- Earth testing methods
- Types of cells and batteries,
- Checking efficiency of battery
- ISI safety, Health and Safety

CHAPTER 2: MOTOR WINDING

- Types of Conductors and insulators
- Vanishing methods
- Winding preparation
- Checking of wire gauge,
- Preparation of winding coil,
- Tapping of coil and vanishing
- Testing of insulation,
- Single and three phase motor testing and fault finding
- Winding diagrams and practice,
- Single and double layer 3 phase AC motor winding diagrams,
- Symmetric and asymmetric winding diagram,
- Rewinding of different motors,
- Fan motor rewinding,
- Mixer motor winding

CHAPTER3: MOTOR REWINDING

- Describe the safe handling of stripping/winding tools.
- Identify the types of armature winding like lap and wave winding.

- Explain the terminology used in armature winding like pole pitch, coil pitch, back and front pitch, progressive and retrogressive winding etc.
- Describe the method of dismantling the burnt winding wire.
- Strip/remove the armature winding safely.
- Examine the armature for physical defects.
- Test the armature for electrical defects.
- Examine the insulation of winding using a megger

CHAPTER4: TRANSFORMER WINDING

- Transformer Testing: DC Winding Resistance Measurement,
- Core Insulation Resistance TEST
- Inadvertent Core Ground Test
- Doble Tests on Insulation, ,
- Ultrasonic and Sonic Fault Detection, Vibration Analysis,
- Turns Ratio Test,
- Design & different models: Auto transformers, Instrument Transformers,
- Potential Transformers, Current Transformers
- Installations, Transformer taps, bushing
- and polarity, Single phase / Three phase transformers,
- typical connections, wye Delta connections, parallel connections

Criteria to get Certificate

- Students should register their names for this cou6rse
- Students must have 85% attendance
- Students should secure 50% marks in the exam

Prepared by: Mrs.M.Pandimaharajan, AP/EEE

Approved by,

HOD/EEE

Head of the Department
Department of Electrical & Electronics
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE PROGRAM ON WIRING AND WINDING

STUDENTS WILLING LIST

Sl. No.	REG. NO.	NAME	YEAR
1.	920816105002	ABIRAMI.S	II-EEE
2.	920816105004	MOORTHI.V	II-EEE
3.	920816105005	NAVEENA.K	II-EEE
4.	920816105006	RABIN SINGH. T	II-EEE
5.	920816105007	RUBAPARVATHA.P	II-EEE
6.	920816105304	T.RAMADEVI	II-EEE
7.	920816105305	S.SELVAKAVIYA	II-EEE
8.	920816105306	I.SUFIYA FARZANA	II-EEE
9.	920816105307	MOHAMED ASRAF	II-EEE
10.	920815105003	A.DIANA	III-EEE
11.	920815105004	R.GANGA	III-EEE
12.	920815105007	M.KARTHICK	III-EEE
13.	920815105008	R.KARTHIK	III-EEE
14.	920815105009	D.KARUNYA	III-EEE
15.	920815105010	VMAYIL KUMAR	III-EEE
16.	920815105016	T.PREM KUMAR	III-EEE
17.	920815105017	S.RAJAN	III-EEE
18.	920815105019	S.RAMYAKAMALI	III-EEE
19.	920815105020	T.REENU	III-EEE
20.	920815105021	S.SELVAKUMAR	III-EEE
21.	920815105022	J.STEPHEN CORNELIUS	III-EEE
22.	920815105025	P.THENMOZHI PRABHA	III-EEE
23.	920815105026	P.VIGNESHVAR	III-EEE
24.	920815105301	PL.RANJITHA	III-EEE
25.	920814105020	MADHAVAN	IV-EEE
26.	920814105028	RAMAKRISHNAN	IV-EEE

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27.	920814105033	RAVIKUMAR	IV-EEE
28.	920814105038	SATHESHKUMAR	IV-EEE
29.	920814105041	SRINIVASAN	IV-EEE
30.	920814105045	VENKATESH	IV-EEE
31.	920814105302	ARUNKUMAR	IV-EEE
32.	920814105308	RAMPRASATH	IV-EEE
33.	920814105303	HARIHARA SUGAN	IV-EEE

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE PROGRAM ON WIRING AND WINDING

COURSE SCHEDULE

INTERNAL RESOURCE PERSONS			
1.Mr. Mr.K. Rajesh AP/EEE			
2.Mr. Mr.M.Pandi Maharajan AP/EEE			
Day 1 **21.11.2017**	9.00 a.m	Registration	
	9.30 a.m – 10.00 a.m	Inauguration	
	10. 00 a.m - 11.10 a.m	Session 1	Power Wiring Tools and measuring instruments **Mr.K. Rajesh, AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Earth testing methods **Mr.M.Pandi Maharajan,AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Types of cells and batteries **Mr.K. Rajesh, AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Electrical accessories, Types of Fuse & MCB, RCCB, , ICDP and ICTP , Testing of circuits **Mr.M.Pandi Maharajan AP/EEE**
Day 2 **22.11.2017**	9.30 a.m – 11.10 a.m	Session 1	**MOTOR WINDING** Types of Conductors and insulators Winding preparation **Mr. Mr.K. Rajesh, AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Single and three phase motor testing and fault finding **Mr.M.Pandi Maharajan AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Single and double layer 3 phase AC motor winding diagrams **Mr. Mr.K. Rajesh, AP/EEE E**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Rewinding of different motors, **Mr.M.Pandi Maharajan AP/EEE**

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Day 3 23.11.2017	9.30 a.m – 11.10 a.m	Session 1	Fan and regulator connections, conductor, insulator, semi-conductor, earthing, **Mr.K. Rajesh, AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	wiring types, polarity testing **Mr.M.Pandi Maharajan AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Testing of circuits and connections of parallel and series combination of wiring **Mr.K. Rajesh, AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Checking efficiency of battery ISI safety, Health and Safety **Mr.M.Pandi Maharajan AP/EEE**
Day 4 24.11.2017	9.30 a.m – 11.10 a.m	Session 1	Handling of stripping/winding tools **Mr.K. Rajesh, AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Method of dismantling the burnt winding wire **Mr.M.Pandi Maharajan AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Test the armature for electrical defects -**Mr.K. Rajesh, AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Examine the insulation of winding using a megger **Mr.M.Pandi Maharajan AP/EEE**
Day 5 25.11.2017	9.30 a.m – 11.10 a.m	Session 1	Transformer Testing: DC Winding Resistance Measurement **Mr.K. Rajesh, AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Core Insulation Resistance TEST **Mr.K. Rajesh, AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Doble Tests on Insulation, , Turns Ratio Test, Design & different models: Auto transformers, Instrument Transformers, **Mr.M.Pandi Maharajan AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Installations, Transformer taps, and polarity, Single phase / Three phase transformers, typical connections, wye Delta connections. **Mr.K. Rajesh, AP/EEE**
	4.30 p.m to 5.00 p.m	Valedictory	

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
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IQAC

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE ONWIRING AND WINDING

STUDENTS ATTENDANCE

S.No.	Roll No.	NAME	21.11.17		22.11.17		23.11.17		24.11.17		25.11.17	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	17EECC02001	ABIRAMI.S										
2	17EECC02002	MOORTHI.V										
3	17EECC02003	NAVEENA.K										
4	17EECC02004	RABIN SINGH. T										
5	17EECC02005	RUBAPARVATHA.P										
6	17EECC02006	T.RAMADEVI										
7	17EECC02007	S.SELVAKAVIYA										
8	17EECC02008	I.SUFIYA FARZANA										
9	17EECC02009	MOHAMED ASRAF										
10	17EECC02010	A.DIANA										
11	17EECC02011	R.GANGA										
12	17EECC02012	M.KARTHICK										
13	17EECC02013	R.KARTHIK										
14	17EECC02014	D.KARUNYA										
15	17EECC02015	VMAYIL KUMAR										
16	17EECC02016	T.PREM KUMAR										
17	17EECC02017	S.RAJAN										
18	17EECC02018	S.RAMYAKAMALI										
19	17EECC02019	T.REENU										
20	17EECC02020	S.SELVAKUMAR										
21	17EECC02021	J.STEPHEN CORNELIUS										
22	17EECC02022	P.THENMOZHI PRABHA										
23	17EECC02023	P.VIGNESHVAR										
24	17EECC02024	PL.RANJITHA										
25	17EECC02025	MADHAVAN										
26	17EECC02026	RAMAKRISHNAN										
27	17EECC02027	RAVIKUMAR										
28	17EECC02028	SATHESHKUMAR										
29	17EECC02029	SRINIVASAN										
30	17EECC02030	VENKATESH										

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31	17EECC02031	ARUNKUMAR	A	A	1	1	1	1	1	1	1	1
32	17EECC02032	RAMPRASATH	1	1	1	1	1	1	1	1	1	1
33	17EECC02033	HARIHARA SUGAN	1	1	1	1	1	1	1	1	1	1
PRESENT			32	32	31	31	33	33	32	32	33	33
ABSENT			01	01	02	02	NIL	NIL	01	01	NIL	NIL
TOTAL			33	33	33	33	33	33	33	33	33	33
PROGRAM CO-ORDINATOR												

HOD/EEE

Head of the Department
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON WIRING AND WINDING

QUIZ QUESTION AND ANSWER

1.The two windings of a transformer is

A. Conductively linked

B. Inductively linked

C. Not linked at all

D. Electrically linked

2. A salient pole synchronous motor is running at no load. Its field current is switched off.

A. The motor will come to stop

B. Continue to run at synchronous speed

C. Continue to run at a speed slightly more than the synchronous speed

D. Continue to run at a speed slightly less than the synchronous speed

3. The D.C series motor should always be started with load because

A. At no load, it will rotate at dangerously high speed

B. It will fail to start

C. It will not develop high starting torque

D. All are torque

4. The frequency of the rotor current in a 3 phase 50 Hz, 4 pole induction motor at full load speed is about

A. 50 Hz

B. 20 Hz

C. 2 Hz

D. Zero

5. In a stepper motor the angular displacement

A. Can be precisely controlled

B. It cannot be readily interfaced with micro computer based controller

C. The angular displacement cannot be precisely controlled

D. It cannot be used for positioning of work tables and tools in NC machines

6.The power factor of a squirrel cage induction motor is

A. Low at light load only

B. Low at heavy load only

C. Low at light and heavy load both

D. Low at rated load only

7.The generation voltage is usually

A. Between 11 KV and 33 KV

B. Between 132 KV and 400 KV

C. Between 400 KV and 700 KV

D. None of the above

8.When a synchronous motor is running at synchronous speed, the damper winding produces

A. Damping torque

B. Eddy current torque

C. Torque aiding the developing torque

D. No torque

9. If a transformer primary is energised from a square wave voltage source, its output voltage will be

A. A square wave

B. Sine wave

C. A triangular wave

D. A pulse wave

10. In a transformer the voltage regulation will be zero when it operates a

A. Unity p.f

B. Leading p.f

C. Lagging p.f

D. No lagging p.f

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ANSWERS:

1. B
2. B
3. A
4. C
5. A
6. A
7. A
8. D
9. A
10. B

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON WIRING AND WINDING

STUDENT FEEDBACK

Name of the Student : T. Premkumar	Year / Semester:
Name of the Program: WIRING AND WINDING	III / V

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person		✓		
5	Time Management	✓			
6	Overall rating of this Course			✓	
7	Any Other Comments / Suggestions	learned about windings			

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engg.
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON WIRING AND WINDING

STUDENT FEEDBACK

Name of the Student : SRINIVASAN.S	**Year / Semester:** IV / VII
Name of the Program: WIRING AND WINDING	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course		✓		
7	Any Other Comments / Suggestions	Very informative course			

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON WIRING AND WINDING

STUDENT FEEDBACK

Name of the Student : S. Abirami	**Year / Semester:** IV / VII
Name of the Program: WIRING AND WINDING	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course		✓		
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course	✓			
7	Any Other Comments / Suggestions	Useful information on wiring and winding			

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON WIRING AND WINDING

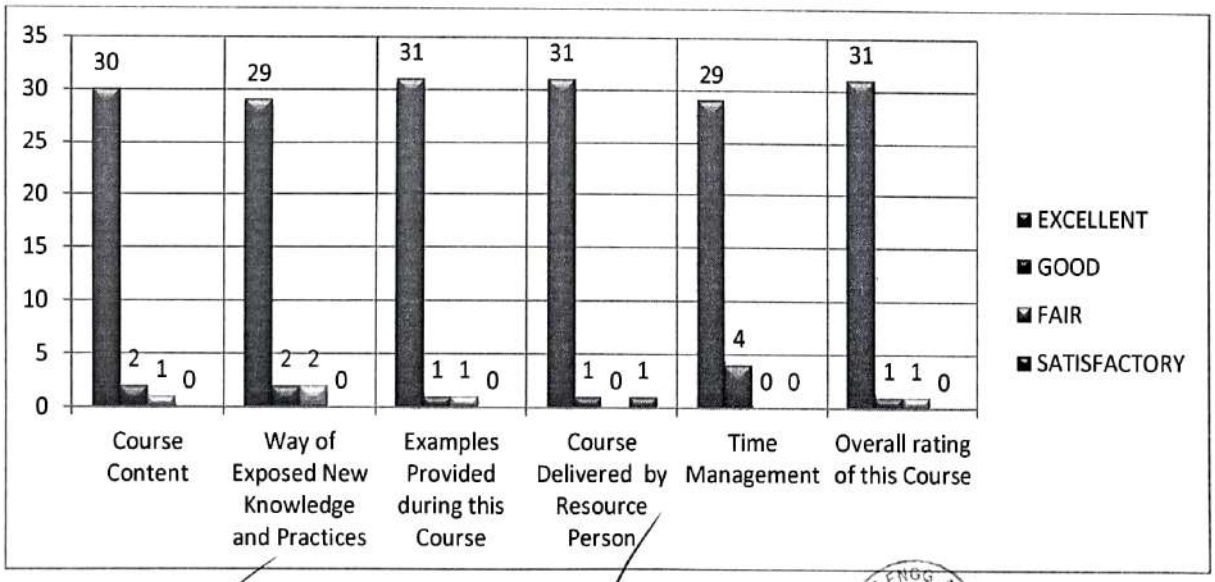
STUDENTS FEEDBACK ANALYSIS REPORT

TOTAL STRENGTH: 33

DATE: 28.11.2017

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	30	02	01	00
2	Way of Exposed New Knowledge and Practices	29	02	02	00
3	Examples Provided during this Course	31	01	01	00
4	Course Delivered by Resource Person	31	01	00	01
5	Time Management	29	04	00	00
6	Overall rating of this Course	31	01	01	00
7	Average	30.16	1.83	0.83	0.16

Total number of students successfully completed the course: 33



PROGRAM COORDINATOR

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
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Natham, Dindigul (DT) - 624 401.

PRINCIPAL

Principal
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON WIRING AND WINDING

SUMMARY REPORT

The Department of Electrical and Electronics Engineering Organized Certificate program **"WIRING AND WINDING"** from 28.10.2019 to 01.11.2020 (5 days) at Power Electronics Lab Ms.K.Naveena third year EEE delivered welcome address.

Dr. B.Maruthukannan, Principal of our college inaugurated the program and delivered the inaugural address. Internal resource persons Mr.M.Pandimaharajan AP/EEE and Mr.K.Rajesh,AP/EEE of our EEE department faculties had participated with us and explained their knowledge with our students. These five days course gave us the good over view on Wiring and Winding and provided lots of information regarding the topic. In addition to this, it also gave the information on future outcomes in special machine windings.

They shared their knowledge of fundamentals of power wiring techniques which enables the students to have skills to resolve complex real world problems in this. Our students learnt various existing and emerging technologies of Industrial power wiring and winding designs. 33 students of EEE department were attended the course and completed it successfully and awarded with certificates.

Finally the course was concluded by Ms.S.Selvakaviya,third year EEE student by delivering vote of thanks.

PROGRAM COORDINATOR HOD/EEE PRINCIPAL

Head of the Department
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

COLLEGE OF ENGG. & TECHNOLOGY ★ NPR ★ NATHAM

Principal
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Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON WIRING AND WINDING

COURSE MATERIAL

MATERIAL LINK:

1. **https://www.inspirenignite.com/anna-university/33064-wiring-and-winding-practical-electrical-6th-sem-syllabus-for-diploma-tndte-m-scheme**
2. **http://www.wbscvet.nic.in/Syllabus/Syllabus%20VIII**
3. **http://www.mpskills.gov.in/DSS/ViewSyllabusByID.ashx?ID=81**
4. **https://nqr.gov.in/sites/default/files/Curriculum-Electrical%20Winder.pdf**

FURTHER REFERENCE:

1. Querfurth, William (1954). Coil Winding: A Description of Coil Winding Procedures, Winding Machines and Associated Equipment. University of Michigan: G. Stevens Mfg. Company.
2. Gingery, David (1991). Build a Universal Coil Winding Machine. David J Gingery Publishing. *ISBN 978-1878087102.*

PROGRAM COORDINATOR **HOD/EEE** **PRINCIPAL**

Head of the Department
Department of Electrical & Electronics Engineering
N.P.R. College of Engineering & Technology
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Principal
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that MR . M. KARTHICK .....

of III YEAR EEE .....**has successfully completed Add on course on**

"Wiring and winding" from 21.11.2017 to 25.11.2017

HoD - EEE

ATTESTED

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Principal

N.P.R College of Engineering & Technology

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that.....Ms. P.L. RANJITHA.....

of.....III YEAR EEE.....**has successfully completed Add on course on**

"Wiring and winding" from 21.11.2017 to 25.11.2017

HoD - EEE

ATTESTED

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul.

Principal

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that.....MR.....RAMAKRISHNAN.....

of.....IV.....YEAR EEE.....has successfully completed Add on course on

"Wiring and winding" from 21.11.2017 to 25.11.2017

HoD - EEE

ATTESTED

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
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Principal

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ms. I. SUFIYA FARZANA

of III YEAR EEE **has successfully completed Add on course on "Wiring and winding" from 21.11.2017 to 25.11.2017**

ATTESTED

HoD - EEE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul-624 401.

Principal

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that MS. D. KARUNYA

of III YEAR EEE **has successfully completed Add on course on**

"Wiring and winding" from 21.11.2017 to 25.11.2017

HoD - EEE

ATTESTED

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Principal

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DEPARTMENT OF ELECTRICAL& ELECTRONICS ENGINEERING

CERTIFICATE COURSE

INDEX

COURSE CODE & NAME: 17EEAO01 & POWERWORLD SIMULATOR

ACADEMIC YEAR: 2017-18 **SEMESTER**:EVEN **DURATION**: 35 HOURS

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PROGRAM COORDINATOR

HOD/EEE

Coordinator - IQAC
NPR College of Engineering & Technology
IQAC
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PRINCIPAL

Head of the Department
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Principal
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PERMISSION LETTER

DATE: 12-12-2017

From:

The Head of the Department,

Electrical and Electronics Engineering,

NPR College of Engineering and Technology,

Natham.

To

The Principal,

NPR College of Engineering and Technology,

Natham.

Respected Sir,

Sub: Request for permission to conduct certificate course for EEE students – Regarding

With reference to the above subject, the application is hereby submitted for your approval to conduct certificate course on **"POWERWORLD SIMULATOR** "to our students 19/12/2017 to 23/12/2017 (5 Days) in our college premises. In this regard We have proposed **Mr. V.Kalyana Raman, Trident Tech Labs. Chennai** and his team as a resource person for this Certificate course program. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully

Head of the Department
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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NPRCET/OFF/EEE/VAC/2017-18 DATE: 13.12.2017

CIRCULAR

This is to inform that Department of Electrical and Electronics Engineering has planned to conduct a Certificate course on **"POWERWORLD SIMULATOR"** for EEE students in our college campus during this even semester 2017-2018. Interested students can enroll their name to the program coordinator on or before 16.12.17

.

The details of the training program are given below:

COURSE NAME	:	**POWERWORLD SIMULATOR**
RESOURCE PERSON	:	1.Mr.V.Kalyana Raman
VENUE	:	PSS Main Lab
DATE & DURATION	:	19/12/2017 to 23/12/2017 & 35 Hours

PRINCIPAL

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Copy to:

1. All the HoDs
2. Notice Board
3. All the class Rooms
4. File
5. Program Coordinator

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE

COURSE CODE & NAME: 17EEAO01 & POWERWORLD SIMULATOR

COURSE CONTENTS

Chapter 1: Introduction to Power world Simulator

- Interact with Power World Simulator through text-based interfaces and graphic one-line diagrams;
- build and modify power system models and one-line diagrams
- exchange information with spreadsheets and text files
- Create rich color contours, incorporate GIS shape files, and enhance the appearance and dynamic behavior of one-line diagrams.

Chapter 2: Basics of Power systems modeling and analysis tools in Power world Simulator

- voltage control
- generation control and area interchange
- contingency analysis
- linear sensitivity analysis
- fault analysis (time permitting)
- System equivalents (time permitting).

Chapter3: Power System Economics and Market Modeling With Power world Simulator

- fundamentals of LMP power markets
- fundamentals of linear programming optimization techniques
- how to develop a large-scale power flow case and perform LMP market simulation
- how to model system contingencies in detail, including conditional remedial action schemes (RAS)/special protection schemes (SPS)
- How to develop a time-step grid for hourly system simulation.

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Chapter 4: Steady-State Power System Security Analysis with Powerworld Simulator

- fundamentals of power system modeling and voltage stability
- techniques for conditioning and solving hard-to-solve cases
- how to model system contingencies in detail, including conditional remedial action schemes (RAS)/special protection schemes (SPS)
- how to determine thermal and stability limits on power transfer
- How to develop a generator interconnection study with a comprehensive steady-state power system security analysis.

Chapter5 : Transient Stability analysis with Power world Simulator

- fundamentals of transient stability analysis and model relationships
- navigation of Simulator's remarkably easy-to-use transient stability analysis interface
- tools and techniques for model validation
- detailed modeling of transient contingencies
- specialized tools for wind turbine modeling
- how to store and plot results
- How to visualize transient stability simulations.

Criteria to Get Certificate

- Students should register their names for this course
- Students must have 85% attendance
- Students should secure 50% marks in the exam

Prepared by Mrs.N.Ezhilmathy, AP/EEE / NPRCET

Approved by,

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON POWER WORLD SIMULATOR

STUDENTS WILLING LIST

Sl. No.	REG. NO.	NAME	YEAR
1.	920815105001	ANUSUYA R	III-EEE
2.	920815105002	BALA SUBRAMANIYAN S	III-EEE
3.	920815105003	DIANA A	III-EEE
4.	920815105004	GANGA R	III-EEE
5.	920815105005	GOWTHAM T	III-EEE
6.	920815105006	JEYASURYA J	III-EEE
7.	920815105007	KARTHICK M	III-EEE
8.	920815105008	KARTHIK R	III-EEE
9.	920815105009	KARUNYA D	III-EEE
10.	920815105010	MAYILKUMAR V	III-EEE
11.	920815105011	MOHAMMED ASIK IMRAN S	III-EEE
12.	920815105012	NAVEENKUMAR K	III-EEE
13.	920815105013	NAVEEN KUMAR K	III-EEE
14.	920815105014	PRAKASH P	III-EEE
15.	920815105015	PREMKUMAR T	III-EEE
16.	920815105016	RAJAN S	III-EEE
17.	920815105017	RAMYAKAMALI S	III-EEE
18.	920815105018	REENU T	III-EEE
19.	920815105019	SELVA KUMAR S	III-EEE
20.	920815105020	STEPHEN CORNELIUS J	III-EEE
21.	920815105021	SURESH ADHITHYA G R	III-EEE
22.	920815105022	THENMOZHIPRABHA P	III-EEE
23.	920815105023	VIGNESHVAR P	III-EEE
24.	920815105301	RANJITHA PL	III-EEE
25.	920814105002	ABINAYA S	IV-EEE

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26.	920814105003	ANANTH KUMAR K	IV-EEE
27.	920814105004	ANITHA K	IV-EEE
28.	920814105005	ARAVINTH C	IV-EEE
29.	920814105006	ARUNKUMAR S	IV-EEE
30.	920814105007	ARUNRAJ D	IV-EEE
31.	920814105008	ASMITHA H	IV-EEE
32.	920814105009	DHARAGHANATH M R	IV-EEE
33.	920814105010	GANDHI RAJAN B	IV-EEE
34.	920814105011	GURU PRAKASH N	IV-EEE
35.	920814105012	HENRIE A	IV-EEE
36.	920814105013	JALALUTHEEN P	IV-EEE
37.	920814105014	JANANI AISHWARYA N S	IV-EEE
38.	920814105015	JEYAPRAVEEN KUMAR T	IV-EEE
39.	920814105016	JEYASUDHA S	IV-EEE
40.	920814105017	KALIRAJA P	IV-EEE
41.	920814105018	KARTHICKRAJA G	IV-EEE
42.	920814105019	MADHANKUMAR N	IV-EEE
43.	920814105020	MADHAVAN M	IV-EEE
44.	920814105021	MANOJRAJA A	IV-EEE
45.	920814105022	MARUTHAIVEERAN K	IV-EEE
46.	920814105023	MOHAMED HALITH M	IV-EEE
47.	920814105024	NIYAS AHAMED S	IV-EEE
48.	920814105025	PANTHALA AKILAN C	IV-EEE
49.	920814105026	PREETHISHREE SHANKARI M R	IV-EEE
50.	920814105027	RAMAKRISHNAN S	IV-EEE
51.	920814105028	RAM PRASATH M	IV-EEE
52.	920814105029	RAMU S	IV-EEE
53.	920814105030	RAMYA C	IV-EEE
54.	920814105031	RAMYA KALYANI S	IV-EEE
55.	920814105032	RAVIKUMAR K	IV-EEE
56.	920814105033	SAKTHIVEL PANDIYAN J	IV-EEE
57.	920814105034	SANTHANAPRAKASH V	IV-EEE
58.	920814105035	SARANYA DEVI T	IV-EEE

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59.	920814105036	SARAVANA KUMAR M	IV-EEE
60.	920814105037	SATHESHKUMAR C	IV-EEE
61.	920814105038	SOWMIYA M	IV-EEE
62.	920814105039	SRIDHAR K	IV-EEE
63.	920814105040	SRINIVASAN C	IV-EEE
64.	920814105041	THAHIRA H	IV-EEE
65.	920814105042	UDHAYAKUMAR D	IV-EEE
66.	920814105043	USHADEVI K	IV-EEE
67.	920814105044	VENKATESH R	IV-EEE
68.	920814105045	VIJAYA LAKSHMI N	IV-EEE
69.	920814105046	VIJAY SRINIVASAN K	IV-EEE
70.	920814105047	YUVARAJAN B	IV-EEE

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
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NPR College of Engineering & Technology

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Certificate Course on Power World Simulator"

On 19th December, 2017

Venue: Seminar Hall (Rear Block, Second Floor) at 10.00 a.m.

CHIEF GUEST

Mr.V.Kalyana Raman

Trident Tech Labs. Chennai.

PRINCIPAL

Dr.B.Maruthukannan

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Electrical and Electronics Engineering,

NPR College of Engineering & Technology, NPR Nagar,

Natham.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON POWER WORLD SIMULATOR

COURSE SCHEDULE

EXTERNAL RESOURCE PERSON	INTERNAL RESOURCE PERSON
Mr.V.Kalyana Raman Trident Tech Labs. Chennai.	1. Mr.S.Sathya Moorthi AP/EEE 2. Mrs.N.Ezhilmathy AP/EEE

Day 1 **19.12.2017**	9.00 a.m	Registration	
	9.30 a.m – 10.00 a.m	Inauguration	
	10. 00 a.m - 11.10 a.m	Session 1	Introduction To Powerworld Simulator: Interface And Common Tools **Mr.V.Kalyana Raman**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Build and modify power system models and one-line diagrams **Mr.V.Kalyana Raman**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Exchange information with spreadsheets and text files **Mrs.N.Ezhilmathy AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Create rich colour contours, incorporate GIS shape files **Mr.S.Sathya Moorthy AP/EEE**
Day 2 **20.12.2017**	9.30 a.m – 11.10 a.m	Session 1	Basics Of Power Systems Modeling And Analysis Tools In Powerworld Simulator **Mrs.N.Ezhilmathy AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Fault analysis (time permitting); and System equivalents (timePermitting). **Mr.S.Sathya Moorthy AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	

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	2.00 p.m to3.40 p.m	Session 3	linear sensitivity analysis **Mrs.N.Ezhilmathy AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Generation control and area interchange **Mr.S.Sathya Moorthy AP/EEE**
Day 3 **21.12.2017**	9.30 a.m – 11.10 a.m	Session 1	Power System Economics And Market Modeling With Power world Simulator **Mr.S.Sathya Moorthy AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Fundamentals of linear programming optimization techniques **Mrs.N.Ezhilmathy AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Model system contingencies in detail **Mr.S.Sathya Moorthy AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Develop a time-step grid for hourly system simulation **Mr.S.Sathya Moorthy AP/EEE**
Day 4 **22.12.2017**	9.30 a.m – 11.10 a.m	Session 1	Fundamentals of power system modeling and voltage stability **Mr.M.Pandi Maharajan AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Model system contingencies in detailspecial protection schemes **Mrs.N.Ezhilmathy AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Determination of thermal and stability limits on power transfer **Mr.S.Sathya Moorthy AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Develop a generator interconnection study with a comprehensive steady-state power system security analysis. **Mrs.N.Ezhilmathy AP/EEE**
	9.30 a.m – 11.10 a.m	Session 1	Fundamentals of transient stability analysis and model relationships. **Mr.V.Kalyana Raman**
	11.10 a.m to 11.30 a.m	*Tea Break*	

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Day 5 **23.12.2017**	11.30 a.m to 1.10 p.m	Session 2	Detailed modeling of transient contingencies **Mr.V.Kalyana Raman**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Specialized tools for wind turbine modeling; **Mr.V.Kalyana Raman**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	visualize transient stability simulations **Mr.S.Sathya Moorthy AP/EEE**
	4.30 p.m to 5.00 p.m	Valedictory Function	

PROGRAM COORDINATOR **HOD/EEE** **IQAC** **PRINCIPAL**

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Coordinator - IQAC
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON POWER WORLD SIMULATOR

RESOURCE PERSON PROFILE

Name	:	**Mr.V.Kalyana Raman**
Designation	:	Manager & Course Trainer
Company Name	:	Trident Tech Labs. Chennai.
About Resource Person	:	He is working as a manger cum senior Course Trainer at Trident Tech Labs. Chennai. with more knowledge's in Software Design , Power world simulator CAD MATLAB Programming and also he gives software solution for power industries

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON POWER WORLD SIMULATOR

STUDENTS ATTENDANCE

S.No.	Roll No.	NAME	19.12.17		20.12.17		21.12.17		22.12.17		23.12.17	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	17EEAO01001	Anusuya R										
2.	17EEAO01002	Bala Subramaniyan S										
3.	17EEAO01003	Diana A										
4.	17EEAO01004	Ganga R										
5.	17EEAO01005	Gowtham T										
6.	17EEAO01006	Jeyasurya J										
7.	17EEAO01007	Karthick M										
8.	17EEAO01008	Karthik R										
9.	17EEAO01009	Karunya D										
10.	17EEAO01010	Mayilkumar V										
11.	17EEAO01011	Mohammed Asik Imran S										
12.	17EEAO01012	Naveenkumar K										
13.	17EEAO01013	Naveen Kumar K										
14.	17EEAO01014	Prakash P										
15.	17EEAO01015	Premkumar T										
16.	17EEAO01016	Rajan S										
17.	17EEAO01017	Ramyakamali S										
18.	17EEAO01018	Reenu T										
19.	17EEAO01019	Selva Kumar S										
20.	17EEAO01020	Stephen Cornelius J										
21.	17EEAO01021	Suresh Adhithya G R										
22.	17EEAO01022	Thenmozhiprabha P										
23.	17EEAO01023	Vigneshvar P										
24.	17EEAO01024	Ranjitha PI										
25.	17EEAO01025	Abinaya S										
26.	17EEAO01026	Ananth Kumar K										
27.	17EEAO01027	Anitha K										

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28.	17EEAO01028	Aravinth C											
29.	17EEAO01029	Arunkumar S											
30.	17EEAO01030	Arunraj D											
31.	17EEAO01031	Asmitha H											
32.	17EEAO01032	Dharaghanath M R											
33.	17EEAO01033	Gandhi Rajan B											
34.	17EEAO01034	Guru Prakash N											
35.	17EEAO01035	Henrie A											
36.	17EEAO01036	Jalalutheen P											
37.	17EEAO01037	Janani Aishwarya N S											
38.	17EEAO01038	Jeyapraveen Kumar T											
39.	17EEAO01039	Jeyasudha S											
40.	17EEAO01040	Kaliraja P											
41.	17EEAO01041	Karthickraja G											
42.	17EEAO01042	Madhankumar N											
43.	17EEAO01043	Madhavan M											
44.	17EEAO01044	Manojraja A											
45.	17EEAO01045	Maruthaiveeran K											
46.	17EEAO01046	Mohamed Halith M											
47.	17EEAO01047	Niyas Ahamed S											
48.	17EEAO01048	Panthala Akilan C											
49.	17EEAO01049	Preethishree Shankari M R											
50.	17EEAO01050	Ramakrishnan S											
51.	17EEAO01051	Ram Prasath M											
52.	17EEAO01052	Ramu S											
53.	17EEAO01053	Ramya C											
54.	17EEAO01054	Ramya Kalyani S											
55.	17EEAO01055	Ravikumar K											
56.	17EEAO01056	Sakthivel Pandiyan J											
57.	17EEAO01057	Santhanaprakash V											
58.	17EEAO01058	Saranya Devi T											
59.	17EEAO01059	Saravana Kumar M											
60.	17EEAO01060	Satheshkumar C											
61.	17EEAO01061	Sowmiya M											
62.	17EEAO01062	Sridhar K											
63.	17EEAO01063	Srinivasan C											
64.	17EEAO01064	Thahira H											
65.	17EEAO01065	Udhayakumar D											
66.	17EEAO01066	Ushadevi K											
67.	17EEAO01067	Venkatesh R											
68.	17EEAO01068	Vijaya Lakshmi N											

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69.	17EEAO01069	Vijay Srinivasan K	/	/	/	/	/	/	/	/	/	/
70.	17EEAO01070	Yuvarajan B	/	/	/	/	/	/	/	/	/	/
PRESENT			68	68	67	67	70	70	69	69	70	70
ABSENT			02	02	03	03	NIL	NIL	01	01	NIL	NIL
TOTAL			70	70	70	70	70	70	70	70	70	70
PROGRAM COORDINATOR												

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON POWER WORLD SIMULATOR

QUIZ QUESTION PAPER & ANSWER

1) What is/are the necessities of Simulation Process in VHDL?

A. Requirement to test designs before implementation & usage

B. Reduction of development time

C. Decrease the time to market

D. All of the above

2) Timing analysis is more efficient with synchronous systems whose maximum operating frequency is evaluated by the _____path delay between consecutive flip-flops.

A. shortest

B. average

C. longest

D. unpredictable

3) Which functions are performed by static timing analysis in simulation?

A. Computation of delay for each timing path

B. Logic analysis in a static manner

C. Both a and b

D. None of the above

4) An event is nothing but _____ target signal, which is to be updated.

A. Fixed

B. Change on

C. Both a and b

D. None of the above

5) Which concept proves to be beneficial in acquiring concurrency and order independence?

A. Alpha delay

B. Beta delay

C. Gamma delay

D. Delta delay

6) After an initialization phase, the simulator enters the _____phase.

A. Compilation

B. Elaboration

C. Execution

D. None of the above

7) Which among the following is not a characteristic of 'Event-driven Simulator'?

A. Identification of timing violations

B. Storage of state values & time information

C. Time delay calculation

D. No event scheduling

8) Which type of simulator/s neglect/s the intra-cycle state transitions by checking the status of target signals periodically irrespective of any events?

A. Event-driven Simulator

B. Cycle-based Simulator

C. Both a and b

D. None of the above

9) In the simulation process, which step specifies the conversion of VHDL intermediate code so that it can be used by the simulator?

A. Compilation

B. Elaboration

C. Initialization

D. Execution

10) Which type of simulation mode is used to check the timing performance of a design?

A. Behavioural

B. Switch-level

C. Transistor-level

D. Gate-level

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ANSWERS:

1) D

2) C

3) C

4) B

5) D

6) C

7) D

8) B

9) B

10) D

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON POWER WORLD SIMULATOR

STUDENT FEEDBACK

Name of the Student : S. Rajan	Year / Semester: III / V
Name of the Program: POWER WORLD SIMULATOR	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course		✓		
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course	✓			
7	Any Other Comments / Suggestions	Very useful course			

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON POWER WORLD SIMULATOR

STUDENT FEEDBACK

Name of the Student : S. Ramu	Year / Semester: IV
Name of the Program: POWER WORLD SIMULATOR	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course	✓			
7	Any Other Comments / Suggestions	Power World Simulator - learned more			

PROGRAM COORDINATOR

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CERTIFICATE COURSE ON POWER WORLD SIMULATOR

STUDENT FEEDBACK

Name of the Student : K. Ushadevi	Year / Semester: IV / VII
Name of the Program: POWER WORLD SIMULATOR	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices		✓		
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course	✓			
7	Any Other Comments / Suggestions	very useful information			

PROGRAM COORDINATOR

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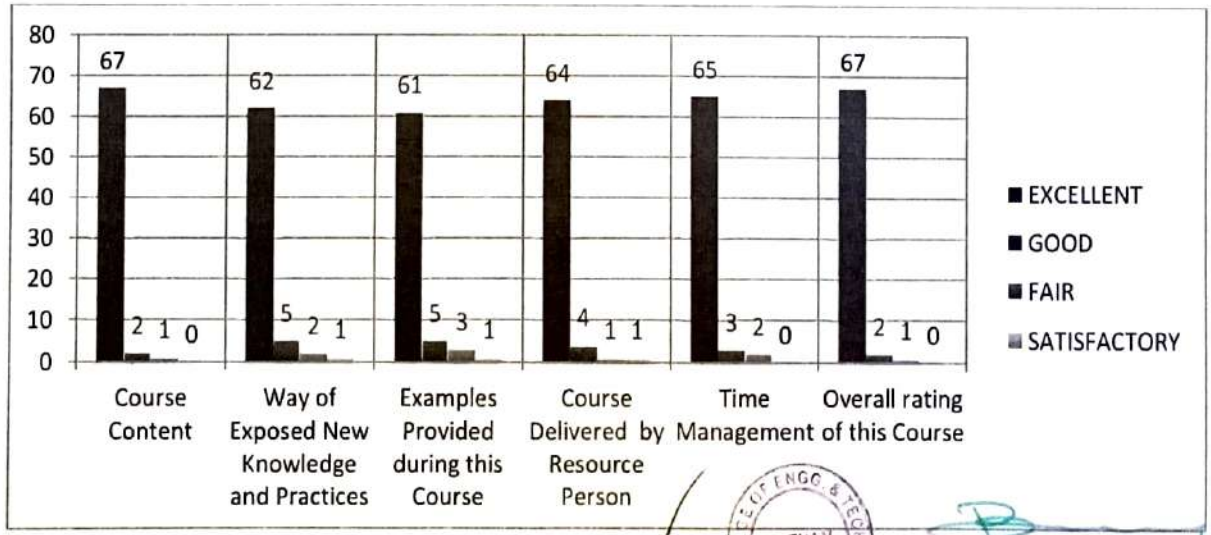
CERTIFCATE COURSE ON POWER WORLD SIMULATOR

STUDENTS FEEDBACK ANALYSIS REPORT

TOTAL STRENGTH: 70 **DATE:26-12-2017**

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	67	02	01	00
2	Way of Exposed New Knowledge and Practices	62	05	02	01
3	Examples Provided during this Course	61	05	03	01
4	Course Delivered by Resource Person	64	04	01	01
5	Time Management	65	03	02	00
6	Overall rating of this Course	67	02	01	00
7	AVERAGE	64.33	3.5	1.66	0.5

Total number of students successfully completed the course: 70



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON POWER WORLD SIMULATOR

SUMMARY REPORT

The Department of Electrical and Electronics Engineering Organized Certificate course**"Power world Simulator"** from 22-10-18 to 26-10 -18 (5 days) at PSS Lab, R.Karthik. Third Year EEE student has delivered welcome address.

Dr.B.Maruthukannan, Principal of our college inaugurated the program and delivered the inaugural address. Mr.V.Kalyanaraman,Trident Tech labs,Chennai. participated with us and explained his knowledge with our students. This five days course gave us the good over view on **Power world Simulator** and provided lots of information regarding the topic. In addition to this, it also gave the information on future outcomes of this course.

He explained his knowledge of fundamentals and principles of **Power world Simulator** in automation of power system which enables the students to have skills to resolve complex real world problems in for decision support. Our students learnt various existing and emerging technologies of **Power world Simulator.** 70 students of EEE department were attended the course and completed it successfully and awarded with certificates.

Finally the course was concluded by T.Saranya Devi, Final Year EEE student by delivered vote of thanks.

PROGRAM COORDINATOR **HOD/EEE** **PRINCIPAL**

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CERTIFICATE COURSE ON POWER WORLD SIMULATOR

COURSE MATERIAL

CHAPTER- 1. https://www.slides erve.com/luther/power-world-simulator

CHAPTER-2. https://www.degruyter.com/view/journals/ijeeps/14/6/article-p535.xml?language=en

CHAPTER-3. https://www.slideserve.com/search/single-power-flow-solution-ppt-presentation

CHAPTER-4:https://www.powerworld.com/products/simulator/whats-new-v17

CHAPTER-5:https://www.powerworld.com/training/course-descriptions/introduction-to-powerworld-simulator

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ADD ON COURSE
ON
POWER WORLD SIMULATOR

Certificate of Merit

This is to certify that Ms. S. RAMYA KALYANI has attended the Add on Course on "**POWER WORLD SIMULATOR**" held from 19/12/2017 to 23/12/2017_during the academic year 2017-2018.

ATTESTED

HOD-EEE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL

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ADD ON COURSE
ON
POWER WORLD SIMULATOR

Certificate of Merit

This is to certify that Ms. SOWMIYA. M, III YEAR EEE has attended the Add on Course on "**POWER WORLD SIMULATOR**" held from 19/12/2017 to 23/12/2017_during the academic year 2017-2018.

ATTESTED

HOD-EEE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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ADD ON COURSE
ON
POWER WORLD SIMULATOR

Certificate of Merit

This is to certify that M.R. S. RAJAN, III/EEE has attended the Add on Course on "**POWER WORLD SIMULATOR**" held from 19/12/2017 to 23/12/2017_during the academic year 2017-2018.

ATTESTED

HOD-EEE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL

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ADD ON COURSE
ON
POWER WORLD SIMULATOR

Certificate of Merit

This is to certify that Ms. S.ABINAYA IV YEAR EEE has attended the Add on Course on "**POWER WORLD SIMULATOR**" held from 19/12/2017 to 23/12/2017_during the academic year 2017-2018.

ATTESTED

HOD-EEE

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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ADD ON COURSE
ON
POWER WORLD SIMULATOR

Certificate of Merit

This is to certify that Mr. D. ARUNRAJ, IV YEAR EEE has attended the Add on Course on "**POWER WORLD SIMULATOR**" held from 19/12/2017 to 23/12/2017_during the academic year 2017-2018.

HOD-EEE

ATTESTED

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE

INDEX

COURSE CODE& NAME: 17EEAO02 & LABVIEW

ACADEMIC YEAR: 2017-18 **SEMESTER**: EVEN **DURATION:** 35 HOURS

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PROGRAM CO ORDINATOR

HOD/EEE

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401
IQAC

PRINCIPAL

Head of the Department
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PERMISSION LETTER

DATE: 15-05-2018

From:

The Head of the Department,

Electrical and Electronics Engineering,

NPR College of Engineering and Technology,

Natham.

To

The Principal,

NPR College of Engineering and Technology,

Natham.

Respected Sir,

Sub: Request for permission to conduct an add on course for EEE students – Regarding

With reference to the above subject, the application is hereby submitted for your approval to conduct an add on course on **"LAB VIEW"** to our students 22/05/2018 to 26/05/2018 (5 Days) in our college premises. In this regard we have proposed **Mr.K.Thirupathy Raja, Hi-Tech CAD CAM Centre. Madurai** as a resource person for this add on course. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully

Head of the Dept.
Department of Electrical & Electronics
NPR College of Engineering & Technology
Natham, Dindigul (Dt)

COLLEGE OF ENGG. & TECHNOLOGY NATHAM NPR

Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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NPRCET/OFF/EEE/VAC/2017-18 DATE: 16.05.2018

CIRCULAR

This is to inform that Department of Electrical and Electronics Engineering has planned to conduct an add on course on **"LAB VIEW"** for EEE students in our college campus during this even semester 2017-2018. Interested students can enroll their name to the program coordinator on or before 19.05.18

The details of the training program are given below:

COURSE NAME	:	**LAB VIEW**
RESOURCE PERSONS	:	1.Mr.K.Thirupathy Raja Hi-Tech CAD CAM Centre. Madurai
VENUE	:	PSS Main Lab
DATE & DURATION	:	22/05/2018 to 26/05/2018 & 35 Hours

PRINCIPAL

Principal
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Copy to:

1. All the HoDs
2. Notice Board
3. All the class Rooms
4. File
5. Program Coordinator

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE

COURSE CODE& NAME: 17EEAO02 & LABVIEW

COURSE CONTENT

CHAPTER 1 : INTRODUCTION OF LABVIEW

- ✓ LabVIEW Environment : Definition
- ✓ Necessity of LabVIEW
- ✓ Definitions of VI
- ✓ LabVIEW benefits
- ✓ Programming and Execution methods
- ✓ Introductions of 3rd party interfaces and toolkits

CHAPTER 2 :DESIGNING THE SOFTWARE

- ✓ How to start up the Vis
- ✓ Front panel designing and working environment
- ✓ Definitions of Control and Indicators
- ✓ Types of Control and Indicators
- ✓ Explanations of Controls Palette
- ✓ Explanations Block Diagram and its working
- ✓ Terminals
- ✓ Functional Platte
- ✓ Status Bar or Window tool bar

CHAPTER 3 :BASIC PROGRAMMING

- ✓ How to use Numerical functions
- ✓ Designing of Boolean operations
- ✓ Comparator applications
- ✓ Exercises in basic programming

CHAPTER4 :DESIGNING OF SUB PROGRAMS

- ✓ Need of SubVI
- ✓ What is SubVI
- ✓ How to use the Connector Pane with terminals
- ✓ Various types in SubVI plots

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CHAPTER 5 :PROGRAMMING LOOPS

- ✓ About For loops
- ✓ How to use Shift registers
- ✓ While loop designing
- ✓ Flat Sequences
- ✓ Applications based on Loops
- ✓ Case Structure : Definition and designing method
- ✓ Event Structure : Definition and designing method
- ✓ Working models in structures
- ✓ Introduction of String, Arrays and Clusters
- ✓ Working with string functions
- ✓ About arrays and designing
- ✓ How to do clustering in Vis
- ✓ Differentiations between Waveform charts and Waveform Graphs
- ✓ Acquire and use the system files based on File I/O functions
- ✓ Report Generations in various files such as MS excel, TDMS, LVM files

PROJECTS

- ✓ Acquiring the real time digital data to the Lab VIEW User interface
- ✓ Controlling the LED operations
- ✓ Acquiring of real time analog sensor values
- ✓ Controlling the Motors
- ✓ Process of temperature control
- ✓ Process of Lightning system control

Criteria to get Certificate

- ✓ Students should register their names for this course
- ✓ Students must have 85% attendance
- ✓ Students should secure 50% marks in the exam.

Prepared by: Mr.M.Pandimaharajan, AP/EEE /NPRCET

Approved by,

HOD/EEE

Head of the Department of Electrical & Electronics Engineering
N.P.R. College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401.

COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PRINCIPAL

Principal
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Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

STUDENTS WILLING LIST

Sl. No.	REG. NO.	NAME	YEAR
1.	920814105002	ABINAYA	IV-EEE
2.	920814105003	ANANTH KUMAR	IV-EEE
3.	920814105004	ANITHA	IV-EEE
4.	920814105005	ARAVINTH	IV-EEE
5.	920814105006	ARUNKUMAR	IV-EEE
6.	920814105007	ARUNRAJ	IV-EEE
7.	920814105008	ASMITHA	IV-EEE
8.	920814105009	DHARAGHANATH	IV-EEE
9.	920814105010	GANDHI RAJAN	IV-EEE
10.	920814105011	GURU PRAKASH	IV-EEE
11.	920814105012	HENRIE	IV-EEE
12.	920814105013	JALALUTHEEN	IV-EEE
13.	920814105014	JANANI AISHWARYA	IV-EEE
14.	920814105015	JEYAPRAVEEN KUMAR	IV-EEE
15.	920814105016	JEYASUDHA	IV-EEE
16.	920814105017	KALIRAJA	IV-EEE
17.	920814105019	MADHANKUMAR	IV-EEE
18.	920814105020	MADHAVAN	IV-EEE
19.	920814105021	MANOJRAJA	IV-EEE
20.	920814105022	MARUTHAIVEERAN	IV-EEE
21.	920814105023	MOHAMED HALITH	IV-EEE
22.	920814105024	NIYAS AHAMED	IV-EEE
23.	920814105028	RAMAKRISHNAN	IV-EEE
24.	920814105029	RAM PRASATH	IV-EEE
25.	920814105030	RAMU	IV-EEE
26.	920814105031	RAMYA	IV-EEE

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27.	920814105032	RAMYA KALYANI	IV-EEE
28.	920814105033	RAVIKUMAR	IV-EEE
29.	920814105034	SAKTHIVEL PANDIYAN	IV-EEE
30.	920814105035	SANTHANAPRAKASH	IV-EEE
31.	920814105036	SARANYA DEVI	IV-EEE
32.	920814105037	SARAVANA KUMAR	IV-EEE
33.	920814105038	SATHESHKUMAR	IV-EEE
34.	920814105039	SOWMIYA	IV-EEE
35.	920814105040	SRIDHAR	IV-EEE
36.	920814105041	SRINIVASAN	IV-EEE
37.	920814105042	THAHIRA	IV-EEE
38.	920814105043	UDHAYAKUMAR	IV-EEE
39.	920814105044	USHADEVI	IV-EEE
40.	920814105045	VENKATESH	IV-EEE
41.	920814105046	VIJAYA LAKSHMI	IV-EEE
42.	920814105047	VIJAY SRINIVASAN	IV-EEE
43.	920814105048	YUVARAJAN	IV-EEE
44.	920814105301	AJITH KANNA	IV-EEE
45.	920814105302	ARUNKUMAR	IV-EEE
46.	920814105303	HARIHARA SUGAN	IV-EEE
47.	920814105304	KARTHIKA	IV-EEE
48.	920814105305	KARTHIKEYAN	IV-EEE
49.	920814105306	MAHARAJA	IV-EEE
50.	920814105307	NAGARJUN	IV-EEE
51.	920814105308	RAMPRASATH	IV-EEE
52.	920814105309	SIVA	IV-EEE
53.	920816105304	T.RAMADEVI	II-EEE
54.	920816105305	S.SELVAKAVIYA	II-EEE

PROGRAM COORDINATOR

HOD/EEE

Head of the Department
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Add on course on Lab View"

On 22nd May, 2018

Venue: PSS Lab at 10.00 A.M.

CHIEF GUEST

Mr.K.Thirupathy Raja

Hi-Tech CAD CAM Centre. Madurai.

PRINCIPAL

Dr.B.Maruthukannan

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Electrical and Electronics Engineering,

NPR College of Engineering & Technology, NPR Nagar,

Natham.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

COURSE SCHEDULE

EXTERNAL RESOURCE PERSON	INTERNAL RESOURCE PERSON
Mr.K.Thirupathy Raja	1. Mr.M.Pandi Maharajan AP/EEE
	2. Mrs.N.Ezhilmathy AP/EEE

Day 1 **22.05.2018**	9.00 a.m	Registration	
	9.30 a.m – 10.00 a.m	Inauguration	
	10. 00 a.m - 11.10 a.m	Session 1	Introduction Of Labview **Mr.K.Thirupathy Raja**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Front panel designing and working environment **Mr.K.Thirupathy Raja**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Programming and Execution methods **Mrs.N.Ezhilmathy AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Definitions of Control and Indicators **Mr.M.Pandimaharajan AP/EEE**
Day 2 **23.05.2018**	9.30 a.m – 11.10 a.m	Session 1	Explanations of Controls Palette **Mrs.N.Ezhilmathy AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Explanations Block Diagram and its working **Mr.M.Pandimaharajan AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Status Bar or Window tool bar **Mrs.N.Ezhilmathy AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Exercises in basic programming **Mr.M.Pandimaharajan AP/EEE**
Day 3 **24.05.2018**	9.30 a.m – 11.10 a.m	Session 1	How to use the Connector Pane with terminals **Mr.K.Thirupathy Raja**
	11.10 a.m to 11.30 a.m	*Tea Break*	

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	11.30 a.m to 1.10 p.m	Session 2	Various types in Sub VI plots **Mr.K.Thirupathy Raja**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Programming Loops **Mr.M.Pandi Maharajan AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Applications based on Loops **Mrs.N.Ezhilmathy AP/EEE**
Day 4 **25.05.2018**	9.30 a.m – 11.10 a.m	Session 1	Case Structure : Definition and designing method **Mr.M.Pandi maharajan AP/EEE**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Working models in structures **Mrs.N.Ezhilmathy AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Working with string functions **Mr.M.Pandi maharajan AP/EEE**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	LabVIEW instrumentation drivers **Mrs.N.Ezhilmathy AP/EEE**
Day 5 **26.05.2018**	9.30 a.m – 11.10 a.m	Session 1	Acquiring the real time digital data to the Lab VIEW User interface. **Mr.K.Thirupathy Raja**
	11.10 a.m to 11.30 a.m	*Tea Break*	
	11.30 a.m to 1.10 p.m	Session 2	Controlling the Motors **Mr.M.Pandimaharajan AP/EEE**
	1.10 p.m to 2.00 p.m	*Lunch Break*	
	2.00 p.m to3.40 p.m	Session 3	Process of temperature control **Mr.K.Thirupathy Raja**
	3.40 p.m to 3.50 p.m	*Tea Break*	
	3.50 p.m to 4.30 p.m	Session 4	Process of Lightning system control . **Mr.K.Thirupathy Raja**
	4.30 p.m to 5.00 p.m	Valedictory	

PROGRAM COORDINATOR **HOD/EEE** **Coordinator - IQAC** **PRINCIPAL**

Head of the Department
Department of Electrical & Electronics Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LAB VIEW

RESOURCE PERSON PROFILE

Name	:	**Mr.K.Thirupathy Raja**
Designation	:	Course Trainer
Company Name	:	Hi-Tech CAD CAM Centre. Madurai.
About Resource Person	:	He is working as a Course Trainer at Hi-Tech CAD CAM Centre. Madurai. with more knowledge's in Software Design, ECAD MATLAB Programming

PROGRAM COORDINATOR

HOD/EEE

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

PRINCIPAL

Head of the Department
Department of Electrical & Electronics Engineering
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Principal
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

STUDENTS ATTENDANCE

S.No.	Roll No.	Name	22.05.18		23.05.18		24.05.18		25.05.18		26.05.18	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	17EEAO02001	ABINAYA										
2.	17EEAO02002	ANANTH KUMAR										
3.	17EEAO02003	ANITHA										
4.	17EEAO02004	ARAVINTH										
5.	17EEAO02005	ARUNKUMAR										
6.	17EEAO02006	ARUNRAJ										
7.	17EEAO02007	ASMITHA										
8.	17EEAO02008	DHARAGHANATH										
9.	17EEAO02009	GANDHI RAJAN										
10.	17EEAO02010	GURU PRAKASH										
11.	17EEAO02011	HENRIE	A	A								
12.	17EEAO02012	JALALUTHEEN										
13.	17EEAO02013	JANANI AISHWARYA										
14.	17EEAO02014	JEYAPRAVEEN KUMAR										
15.	17EEAO02015	JEYASUDHA										
16.	17EEAO02016	KALIRAJA										
17.	17EEAO02017	MADHANKUMAR										
18.	17EEAO02018	MADHAVAN										
19.	17EEAO02019	MANOJRAJA										
20.	17EEAO02020	MARUTHAIVEERAN										
21.	17EEAO02021	MOHAMED HALITH										
22.	17EEAO02022	NIYAS AHAMED										
23.	17EEAO02023	RAMAKRISHNAN										
24.	17EEAO02024	RAM PRASATH										
25.	17EEAO02025	RAMU										
26.	17EEAO02026	RAMYA										
27.	17EEAO02027	RAMYA KALYANI										
28.	17EEAO02028	RAVIKUMAR										
29.	17EEAO02029	SAKTHIVEL PANDIYAN										
30.	17EEAO02030	SANTHANAPRAKASH			A	A						

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31.	17EEAO02031	SARANYA DEVI									
32.	17EEAO02032	SARAVANA KUMAR									
33.	17EEAO02033	SATHESHKUMAR									
34.	17EEAO02034	SOWMIYA									
35.	17EEAO02035	SRIDHAR									
36.	17EEAO02036	SRINIVASAN							A	A	
37.	17EEAO02037	THAHIRA									
38.	17EEAO02038	UDHAYAKUMAR									
39.	17EEAO02039	USHADEVI			A	A					
40.	17EEAO02040	VENKATESH									
41.	17EEAO02041	VIJAYA LAKSHMI									
42.	17EEAO02042	VIJAY SRINIVASAN									
43.	17EEAO02043	YUVARAJAN									
44.	17EEAO02044	AJITH KANNA									
45.	17EEAO02045	ARUNKUMAR									
46.	17EEAO02046	HARIHARA SUGAN									
47.	17EEAO02047	KARTHIKA									
48.	17EEAO02048	KARTHIKEYAN									
49.	17EEAO02049	MAHARAJA									
50.	17EEAO02050	NAGARJUN									
51.	17EEAO02051	RAMPRASATH									
52.	17EEAO02052	SIVA									
53.	17EEAO02053	T.RAMADEVI									
54.	17EEAO02054	S.SELVAKAVIYA									
PRESENT			53	53	52	52	54	54	53	53	54	54
ABSENT			01	01	02	02	NIL	NIL	01	01	NIL	NIL
TOTAL			54	54	54	54	54	54	54	54	54	54
PROGRAM COORDINATOR												

HOD/EEE

PRINCIPAL

Principal
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

QUIZ QUESTION PAPER & ANSWER

1. Among the following, which is the right formula for inductance?

a) L=emf*t/I

b) L=emf/t*I

c) L=emf*I/t

d) L=emf*t*I

2. Among the following, which is the right formula for inductance of N turns?

a) L=et/Ni

b) L=N*i *e*t

c) L=Ni/et

d) L=N/iet

3. For a coil having a magnetic circuit of constant reluctance, the flux is _____ to the current.

a) Directly proportional

b) Inversely proportional

c) Not related

d) Very large compared to

4. For a coil having a magnetic circuit of constant reluctance, if the flux increases, what happens to the current?

a) Increases

b) Decreases

c) Remains constant

d) Becomes zero

5. The unit for inductance is _____

a) Ohm

b) Henry

c) A/m

d) A/s

6. If either the inductance or the rate of change of current is doubled, the induced e.m.f?

a) Remains constant

b) Becomes zero

c) Doubles

d) Becomes half

7. If the current changes from 5A to 3A in 2 seconds and the inductance is 10H, calculate the emf.

a) 5V

b) 10V

c) 15V

d) 20V

8. If the current changes from 5A to 3A in x sec and inductance is 10H. The emf is 10V, calculate the value of x.

a) 2s

b) 3s

c) 4s

d) 5s

9. If the current changes from 3A to 5A in 2s and the emf is 10V. Calculate the inductance.

a) 10H

b) 20H

c) 30H

d) 40H

10. As the number of turns in the coil increases, what happens to the inductance of the coil?

a) Increases

b) Decreases

c) Remains the same

d) Becomes zero

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ANSWERS:

1. A

2. B

3. D

4. A

5. A

6. B

7. A

8. D

9. C

10. A

PROGRAM COORDINATOR

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

STUDENT FEEDBACK

Name of the Student : VENKATESH	Year / Semester: III / VI
Name of the Program: LAB VIEW	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course		✓		
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course	✓			
7	Any Other Comments / Suggestions	Very informative lab view course.			

PROGRAM COORDINATOR

HOD/EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

STUDENT FEEDBACK

Name of the Student : Vijayalakshmi.	**Year / Semester:** III / VI
Name of the Program: LAB VIEW	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices		✓		
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person	✓			
5	Time Management	✓			
6	Overall rating of this Course		✓		
7	Any Other Comments / Suggestions	learned more about LABVIEW			

PROGRAM COORDINATOR

HOD/EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

STUDENT FEEDBACK

Name of the Student : Siva. M	Year / Semester: IV / VII
Name of the Program: LAB VIEW	

S.No.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of Exposed New Knowledge and Practices	✓			
3	Examples Provided during this Course	✓			
4	Course Delivered by Resource Person	✓			
5	Time Management		✓		
6	Overall rating of this Course	✓			
7	Any Other Comments / Suggestions	Useful Information.			

PROGRAM COORDINATOR

HOD/EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

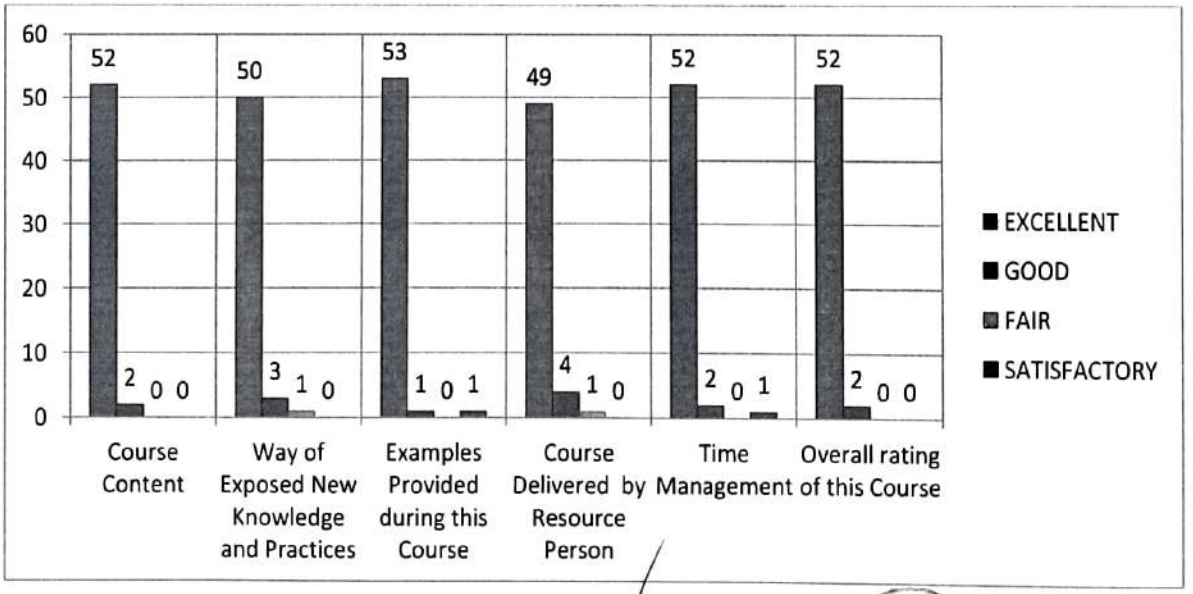
ADD ON COURSE ON LABVIEW

STUDENTS FEEDBACK ANALYSIS REPORT

TOTAL STRENGTH: 54 **DATE:26-05-18**

CONTENT	EXCELLENT	GOOD	SATISFACTORY
Course Content	52	02	00
Way of Exposed New Knowledge and Practices	50	03	01
Examples Provided during this Course	53	01	00
Course Delivered by Resource Person	49	04	01
Time Management	52	02	00
Overall rating of this Course	52	02	00
Average	51.33	2.33	0.037

NUMBER OF STUDENTS SUCCESSFULLY COMPLETED THE COURSE: 54



PROGRAM COORDINATOR HOD/EEE PRINCIPAL

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

SUMMARY REPORT

The Department of Electrical and Electronics Engineering Organized an add on course **"LABVIEW"** from 22.05.2018 to 26.05.2018 (5 days) at PSS Lab Ms. Sowmiya Final Year EEE student delivered welcome address.

Dr.B.Maruthukannan Principal of our college inaugurated the program and delivered the inaugural address. **Mr.K.Thirupathy Raja** from Hi-Tech CAD CAM Centre. Madurai., has participated with us and explained his knowledge with our students. These five days course gave us the good over view on **LAB VIEW** and provided lots of information regarding the topic. In addition to this, it also gave the information on future outcomes.

He also explained the fundamentals and how to work with LAB VIEW and Program techniques which enables the students to have skills to resolve complex real world problems in for decision support. our students learnt various existing and emerging technologies of LAB VIEW in Electrical and Electronics Engineering experiments. 71 students of EEE department were attended the course and completed it successfully and awarded with certificates.

Finally the course was concluded by Mr. Venkatesh, Final year EEE student by delivering vote of thanks.

PROGRAM COORDINATOR **HOD/EEE** **PRINCIPAL**

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ADD ON COURSE ON LABVIEW

COURSE MATERIAL

1. https://wwwusers.ts.infn.it/~rui/univ/Acquisizione_Dati/Lezioni/VIII%20-%20Labview%20-%20Introduction/LabVIEW%20Introduction-SixHour.pdf

2. https://www.halvorsen.blog/documents/teaching/courses/labview_automation/labview_basic.php

3. https://microcontrollerslab.com/labview-programming-examples/

4. https://www.ni.com/getting-started/labview-basics/

5. http://eee-research.unm.edu/jimp/415/labview/LV_Intro_Six_Hours.pdf

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ADD ON COURSE ON "LABVIEW"

Certificate of participation

This is to certify that Ms. S.SELVAKAVIYA of II YEAR EEE has attended the add on course on "LABVIEW "from 22nd May 2018 to 26th May 2018.

ATTESTED

HoD/EEE

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
Principal
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ADD ON COURSE ON
"LABVIEW"

Certificate of participation

This is to certify that Ms. T. RAMADEVI of II YEAR EEE has attended the add on course on "LABVIEW "from 22nd May 2018 to 26th May 2018.

ATTESTED

HoD/EEE

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Certificate of participation

This is to certify that MR GURU PRAKASH of IV YEAR EEE has attended the add on course on "LABVIEW "from 22nd May 2018 to 26th May 2018.

ATTESTED

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Certificate of participation

This is to certify that MR. NIYAS AHAMED of IV YEAR EEE has attended the add on course on "LABVIEW "from 22nd May 2018 to 26th May 2018.

ATTESTED

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D., Principal, N.P.R. College of Engineering & Technology, Natham, Dindigul (Dt) - 624 401.

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ADD ON COURSE ON
"LABVIEW"

Certificate of participation

This is to certify that Ms. T. ASMITHA of IV YEAR EEE has attended the add on course on "LABVIEW "from 22nd May 2018 to 26th May 2018.

ATTESTED

HoD/EEE

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DEPARTMENT OF ELETRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING
INDEX

COURSE CODE &NAME: **17ECCC01- C PROGRAMMING**

ACADEMIC YEAR: **2017-2018** SEMESTER: **ODD** DURATION: **35 HOURS**

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2	RESOURCE PERSON PROFILE	3
3	CIRCULAR TO STUDENTS	4
4	INVITATION	5
5	COURSE CONTENT	6
6	REGISTERED STUDENTS NAME LIST	7
7	COURSE SCHEDULE	9
8	STUDENTS ATTENDANCE	11
9	QUIZ QUESTION PAPER WITH ANSWER KEY	13
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11	FEEDBACK ANALYSIS REPORT	18
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PROGRAM COORDINATOR HoD/ECE IQAC PRINCIPAL

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Coordinator IQAC
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From

K.Jeyaprakasam,

Assistant Professor,

Department of Electronics and Communication Engineering,

NPR College of Engineering & Technology,

Natham.

To

The Principal,

NPR College of Engineering & Technology,

NPR Nagar,

Natham.

Respected Sir,

Sub: Request for permission to conduct certificate program for ECE students – Reg

We have planned to conduct certificate program on "C PROGRAMMING COURSE" to our students from 03.07.17 to 07.07.17 (5 Days) in our college premises. We proposed Mr.K.Muthu Suresh, Software Engineer, Sumanas Technologies Pvt Ltd as a resource person for this Certificate course program. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully,

Date: 12.06.2017

Place: Natham

Head of the Department
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION AND ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

RESOURCE PERSON PROFILE

Name	:	Mr.K.Muthu Suresh
Designation	:	Software Engineer
Company Name	:	Sumanas Technologies Pvt Ltd, Madurai.
About Resource Person	:	Sumanas Technologies Pvt Ltd, Madurai- Software Engineer June 2016 - Present Software Development and Software Testing Skill Set: C, C++ and Software Testing Tools.

PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

HoD/ECE

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NPRCET/OFF/ECE/VAC/2017-2018 DATE: 19.06.2017

CIRCULAR

This is to inform that Department of Electronics and Communication Engineering has planned to conduct a Certificate program on **"C PROGRAMMING"** for the students during the end of this Odd semester 2017-2018.Interested students can enroll their name on or before 30.06.2017.

The details of the training program are given below.

COURSE NAME	:	C PROGRAMMING
RESOURCE PERSONS	:	Mr.K.Muthu Suresh
VENUE	:	NPRCET Seminar Hall
DATE & DURATION	:	03.07.17 to 07.07.17 & 35 Hours
PROGRAM COORDINATOR	:	Mr.K.Jeyaprakasam, AP-ECE,NPRCET

NPR COLLEGE OF ENGG. & TECH. NATHAM

PRINCIPAL

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Natham, Dindigul (Dt) - 624 401

Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Certificate Course on C Programming"

On 3rd July, 2017

Venue: NPRCET Auditorium at 9.30 A.M.

Chief Guest

Mr.K.MuthuSuresh

Sumanas Technologies Pvt Ltd, Madurai

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Electronics and Communication Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMMING

17ECCC01 - C PROGRAMMMING -COURSE CONTENT

CHAPTER 1: OVERVIEW OF THE PROGRAMMING LANGUAGES

- What is C Language and Why C Language
- Future in C Language
- Prerequisite in C Language
- Installation of C

CHAPTER 2: DATA TYPE, CONSTANTS & VARIABLES

- What is Data Types in C Language with practical
- Integers, long and short in C Language with practical
- Integers, signed and unsigned in C Language with practical
- Chars, signed and unsigned in C Language with practical

CHAPTER 3: STATEMENT

- IF-Else and for loop Statement in C Language with practical
- While Loop and Do While Loop in C Language with practical
- Break and Continue in C Language with practical
- Switch in C Language with practical

CHAPTER 4: FUNCTION

- What is a Function in C Language with practical
- Passing Values between Functions in C Language with practical
- Call by Value in C Language with practical
- Call by Reference in C Language with practical

CHAPTER 5: POINTER, ARRAYS & STRING

- An Introduction to Pointers ,Arrays &String
- Pointer Notation in C Language
- Back to Function Calls in C Language with practical
- Recursion in C Language with practical

CRITERIATO GET CERTIFICATE:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 50% marks in the Exam.

Prepared By: Mr.S.Surendhar, AP/ECE

Approved By,

HoD/ECE

IQAC

PRINCIPAL

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Coordinator - IQAC
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

REGISTERED STUDENTS NAME LIST

S.NO.	REGISTER NUMBER	STUDENT NAME	YEAR
1	920814106001	AASHA S	IV ECE
2	920814106003	ABIRAMI S	IV ECE
3	920814106005	ANITHA M	IV ECE
4	920814106006	ANKIT GUPTA R	IV ECE
5	920814106008	ARCHANA A	IV ECE
6	920814106009	ARCHANA N	IV ECE
7	920814106010	ARJUN KUMAR T B	IV ECE
8	920814106011	AROCKIYA PRIYA J	IV ECE
9	920814106012	ARUN KUMAR T B	IV ECE
10	920814106013	ARUN SHANKAR R	IV ECE
11	920814106014	ASHIK AHAMED A	IV ECE
12	920814106015	ASHWITHA G	IV ECE
13	920814106016	BALAJI K S	IV ECE
14	920814106017	BALA MURUGAN N G	IV ECE
15	920814106018	BALASARASWATHI B	IV ECE
16	920814106019	BHAGYALAKSHMI R	IV ECE
17	920814106020	DEEPIKA A	IV ECE
18	920814106021	DEVIRAMAN K	IV ECE
19	920814106022	DHANASOWNDAR R M	IV ECE
20	920814106023	DHEENADHAYALAN S	IV ECE
21	920814106024	DIVYA PARVATHY B	IV ECE
22	920814106025	FATHIMA NACHIYAR D	IV ECE
23	920814106026	GAYATHRI L	IV ECE
24	920814106027	GAYATHRI P	IV ECE
25	920814106028	GOBI KRISHNAN R	IV ECE
26	920814106029	GOKILA M	IV ECE
27	920814106030	HARIKESH C	IV ECE
28	920814106032	HASAN ARAFATH S	IV ECE
29	920814106033	JAYARAM M	IV ECE
30	920814106034	JENCY PRIYA J	IV ECE
31	920814106035	JENNIFER J	IV ECE
32	920815106008	DIVYA.R.G	III ECE
33	920815106009	ELANCHEZHIAN.R	III ECE
34	920815106010	EVANGELIN SAROJINI.R	III ECE
35	920815106011	GAYATHRI.N	III ECE
36	920815106012	GNANA LAKSHMI.C	III ECE
37	920815106013	GOWSALYA.A	III ECE
38	920815106015	HAKKIM SAIT.A.T	III ECE
39	920815106016	HARISHASTHI KUMAR.G.R	III ECE

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40	920815106017	HARITHA.D	III ECE
41	920815106024	JEYASRI.P	III ECE
42	920815106025	KALAI SELVI.V	III ECE
43	920815106026	KARTHICKEYAPANDIYAN.P	III ECE
44	920815106027	KAVIYASREE.AL	III ECE
45	920815106028	MANJULA.K	III ECE
46	920816106006	DESOUZA DASMIN R	II ECE
47	920816106007	HANNAHASEENA.P	II ECE
48	920816106008	HEMALATHA R	II ECE
49	920816106009	HEMA MALINI A	II ECE
50	920816106010	HEMAVATHI L	II ECE
51	920816106012	JANAKIRAMAN J.R	II ECE
52	920816106013	JANANI S	II ECE
`53	920816106014	KEERTHANA P	II ECE
54	920816106015	KESAVA PREM N	II ECE
55	920816106016	KISHORE RAJ M	II ECE
56	920816106017	LAKSHMI PREYA R	II ECE
57	920816106018	MANI KANDAN B	II ECE
58	920816106019	MEENAKSHI R	II ECE
59	920816106020	MOSES MELWIN RAJ S J	II ECE
60	920816106021	NANDHINI C	II ECE
61	920816106022	NARMATHA K	II ECE
62	920816106023	NISHA JENIFER A	II ECE
63	920816106029	RIZWANA PARVEEN S	II ECE
64	920816106030	SARAVANAN M	II ECE
65	920816106031	SATHEESH KUMAR M	II ECE
66	920816106032	SHABERA PARVEEN S	II ECE
67	920816106033	SHEERIN CHITHARA D	II ECE
68	920816106034	SHOBIKA S	II ECE
69	920816106035	SUVETHA B	II ECE
70	920816106040	YOGESHWARI A	II ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

COURSE SCHEDULE

Venue: NPRCET Seminar Hall **Date: 01.07.2017**

EXTERNAL RESOURCE PERSON:
1. Mr.K.Muthu Suresh

INTERNAL RESOURCE PERSONS:
1.Mr.J.Dinesh AP/CSE
2.Mr.S.Surendhar,AP/ECE

Day 1 03.07.17	9.30 a.m.to 10.00 a.m.	Inauguration	
	10. 00 a.m. to 11.10 a.m.	Session 1	What is C Language and Why C Language **Mr.K.Muthu Suresh**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 a.m.	Session 2	Future in C Language **Mr.J.Dinesh**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.40 p.m.	Session 3	Prerequisite in C Language **Mr.S.Surendhar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Installation of C **Mr.K.Muthu Suresh**

Day 2 04.07.17	9.30 a.m.to 11.10 a.m.	Session 1	What is Data Types in C Language with practical **Mr.J.Dinesh**
	11.10 a.m. to 11.30 a.m.	Tea Break	
	11.30 a.m. to 1.10 p.m.	Session 2	Integers, long and short in C Language with practical **Mr.K.Muthu Suresh**
	1.10 p.m. to 2.00 p.m.	Lunch Break	
	2.00 p.m. to3.40 p.m.	Session 3	Integers, signed and unsigned in C Language with practical **Mr.K.Muthu Suresh**
	3.40 p.m. to 3.50 p.m.	Tea Break	
	3.50 p.m. to 4.30 p.m.	Session 4	Chars, signed and unsigned in C Language with practical **Mr.S.Surendhar**

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Day 3 05.07.17	9.30 a.m.to 11.10 a.m.	Session 1	IF-Else and for loop Statement in C Language with practical **Mr.J.Dinesh**
	11.10 a.m. to 11.30 a.m.	Tea Break	
	11.30 a.m. to 1.10 p.m.	Session 2	While Loop and Do While Loop in C Language with practical **Mr.K.Muthu Suresh**
	1.10 p.m. to 2.00 p.m.	Lunch Break	
	2.00 p.m. to3.40 p.m.	Session 3	Break and Continue in C Language with practical **Mr.K.Muthu Suresh**
	3.40 p.m. to 3.50 p.m.	Tea Break	
	3.50 p.m. to 4.30 p.m.	Session 4	Switch in C Language with practical **Mr.J.Dinesh**

Day 4 06.07.17	9.30 a.m.to 11.10 a.m.	Session 1	What is a Function in C Language with practical **Mr.K.Muthu Suresh**
	11.10 a.m. to 11.30 a.m.	Tea Break	
	11.30 a.m. to 1.10 p.m.	Session 2	Passing Values between Functions in C Language with practical **Mr.J.Dinesh**
	1.10 p.m. to 2.00 p.m.	Lunch Break	
	2.00 p.m. to3.40 p.m.	Session 3	Call by Value in C Language with practical **Mr.J.Dinesh**
	3.40 p.m. to 3.50 p.m.	Tea Break	
	3.50 p.m. to 4.30 p.m.	Session 4	Call by Reference in C Language with practical **Mr.S.Surendhar**

Day 5 07.07.17	9.30 a.m.to 11.10 a.m.	Session 1	An Introduction to Pointers ,Arrays &String **Mr.K.Muthu Suresh**
	11.10 a.m. to 11.30 a.m.	Tea Break	
	11.30 a.m. to 1.10 p.m.	Session 2	Pointer Notation in C Language **Mr.J.Dinesh**
	1.10 p.m. to 2.00 p.m.	Lunch Break	
	2.00 p.m. to3.40 p.m.	Session 3	Back to Function Calls in C Language with practical **Mr.S.Surendhar**
	3.40 p.m. to 3.50 p.m.	Tea Break	
	3.50 p.m. to 4.30 p.m.	Session 4	Recursion in C Language with practical **Mr.K.Muthu Suresh**
	4.30 p.m. to 5.00 p.m.	**Valedictory**	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEEIRNG

CERTIFICATE COURSE ON C PROGRAMMING

STUDENT ATTENDANCE

S. No.	Roll.No.	Student Name	Year	03.07.17		04.07.17		05.07.17		06.07.17		07.07.17	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	17ECCC01001	AASHA S	IV ECE	P	P	P	P	P	P	P	P	P	P
2	17ECCC01002	ABIRAMI S	IV ECE	P	P	P	P	P	P	P	P	P	P
3	17ECCC01003	ANITHA M	IV ECE	P	P	P	P	P	P	P	P	P	P
4	17ECCC01004	ANKIT GUPTA R	IV ECE	P	P	P	P	P	P	P	P	P	P
5	17ECCC01005	ARCHANA A	IV ECE	P	P	P	P	P	P	P	P	P	P
6	17ECCC01006	ARCHANA N	IV ECE	P	P	P	P	P	P	P	P	P	P
7	17ECCC01007	ARJUN KUMAR T B	IV ECE	P	P	P	P	P	P	P	P	P	P
8	17ECCC01008	AROCKIYA PRIYA J	IV ECE	P	P	P	P	P	P	P	P	P	P
9	17ECCC01009	ARUN KUMAR T B	IV ECE	P	P	P	P	P	P	P	P	P	P
10	17ECCC01010	ARUN SHANKAR R	IV ECE	P	P	P	P	P	P	P	P	P	P
11	17ECCC01011	ASHIK AHAMED A	IV ECE	P	P	A	A	P	P	P	P	P	P
12	17ECCC01012	ASHWITHA G	IV ECE	P	P	P	P	P	P	P	P	P	P
13	17ECCC01013	BALAJI K S	IV ECE	P	P	P	P	P	P	P	P	P	P
14	17ECCC01014	BALA MURUGAN N G	IV ECE	P	P	P	P	P	P	P	P	P	P
15	17ECCC01015	BALASARASWATHI B	IV ECE	P	P	P	P	P	P	P	P	P	P
16	17ECCC01016	BHAGYALAKSHMI R	IV ECE	P	P	P	P	P	P	P	P	P	P
17	17ECCC01017	DEEPIKA A	IV ECE	P	P	P	P	P	P	P	P	P	P
18	17ECCC01018	DEVIRAMAN K	IV ECE	P	P	P	P	P	P	P	P	P	P
19	17ECCC01019	DHANASOWNDAR R M	IV ECE	P	P	P	P	P	P	P	P	P	P
20	17ECCC01020	DHEENADHAYALAN S	IV ECE	P	P	P	P	P	P	P	P	P	P
21	17ECCC01021	DIVYA PARVATHY B	IV ECE	P	P	P	P	P	P	P	P	P	P
22	17ECCC01022	FATHIMA NACHIYAR D	IV ECE	P	P	P	P	P	P	P	P	P	P
23	17ECCC01023	GAYATHRI L	IV ECE	P	P	P	P	P	P	P	P	P	P
24	17ECCC01024	GAYATHRI P	IV ECE	P	P	P	P	P	P	P	P	P	P
25	17ECCC01025	GOBI KRISHNAN R	IV ECE	P	P	P	P	P	P	P	P	P	P
26	17ECCC01026	GOKILA M	IV ECE	P	P	P	P	P	P	P	P	P	P
27	17ECCC01027	HARIKESH C	IV ECE	P	P	P	P	P	P	P	P	P	P
28	17ECCC01028	HASAN ARAFATH S	IV ECE	P	P	P	P	P	P	P	P	P	P
29	17ECCC01029	JAYARAM M	IV ECE	P	P	P	P	P	P	P	P	P	P
30	17ECCC01030	JENCY PRIYA J	IV ECE	P	P	P	P	P	P	P	P	P	P
31	17ECCC01031	JENNIFER J	IV ECE	P	P	P	P	P	P	P	P	P	P
32	17ECCC01032	DIVYA.R.G	III ECE	P	P	P	P	P	P	P	P	P	P
33	17ECCC01033	ELANCHEZHIAN.R	III ECE	P	P	P	P	P	P	P	P	P	P
34	17ECCC01034	EVANGELIN SAROJINI.R	III ECE	P	P	P	P	P	P	P	P	P	P
35	17ECCC01035	GAYATHRI.N	III ECE	P	P	P	P	P	P	P	P	P	P
36	17ECCC01036	GNANA LAKSHMI.C	III ECE	P	P	P	P	P	P	P	P	P	P
37	17ECCC01037	GOWSALYA.A	III ECE	P	P	P	P	P	P	P	P	P	P
38	17ECCC01038	HAKKIM SAIT.A.T	III ECE	P	P	P	P	P	P	P	P	P	P
39	17ECCC01039	HARISHASTHI KUMAR.G.R	III ECE	P	P	P	P	P	P	A	A	P	P
40	17ECCC01040	HARITHA.D	III ECE	P	P	P	P	P	P	P	P	P	P
41	17ECCC01041	JEYASRI.P	III ECE	P	P	P	P	P	P	P	P	P	P
42	17ECCC01042	KALAI SELVI.V	III ECE	P	P	P	P	P	P	P	P	P	P

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43	17ECCC01043	KARTHICKEYAPANDIYAN.P	III ECE	1	1	1	1	1	1	1	1	1	1
44	17ECCC01044	KAVIYASREE.AL	III ECE	1	1	1	1	1	1	1	1	1	1
45	17ECCC01045	MANJULA.K	III ECE	1	1	1	1	1	1	1	1	1	1
46	17ECCC01046	DESOUZA DASMIN R	II ECE	1	1	1	1	1	1	1	1	1	1
47	17ECCC01047	HANNAHASEENA.P	II ECE	1	1	1	1	1	1	1	1	1	1
48	17ECCC01048	HEMALATHA R	II ECE	1	1	1	1	1	1	1	1	1	1
49	17ECCC01049	HEMA MALINI A	II ECE	1	1	1	1	1	1	1	1	1	1
50	17ECCC01050	HEMAVATHI L	II ECE	1	1	1	1	1	1	1	1	1	1
51	17ECCC01051	JANAKIRAMAN J.R	II ECE	1	1	1	1	1	1	1	1	1	1
52	17ECCC01052	JANANI S	II ECE	1	1	1	1	1	1	1	1	1	1
53	17ECCC01053	KEERTHANA P	II ECE	1	1	1	1	1	1	1	1	1	1
54	17ECCC01054	KESAVA PREM N	II ECE	1	1	A	A	1	1	1	1	1	1
55	17ECCC01055	KISHORE RAJ M	II ECE	1	1	1	1	1	1	1	1	1	1
56	17ECCC01056	LAKSHMI PREYA R	II ECE	1	1	1	1	1	1	1	1	1	1
57	17ECCC01057	MANI KANDAN B	II ECE	1	1	1	1	1	1	1	1	1	1
58	17ECCC01058	MEENAKSHI R	II ECE	1	1	1	1	1	1	1	1	1	1
59	17ECCC01059	MOSES MELWIN RAJ S J	II ECE	1	1	1	1	1	1	1	1	1	1
60	17ECCC01060	NANDHINI C	II ECE	1	1	1	1	1	1	1	1	1	1
61	17ECCC01061	NARMATHA K	II ECE	1	1	1	1	1	1	1	1	1	1
62	17ECCC01062	NISHA JENIFER A	II ECE	1	1	1	1	1	1	1	1	1	1
63	17ECCC01063	RIZWANA PARVEEN S	II ECE	1	1	1	1	1	1	1	1	1	1
64	17ECCC01064	SARAVANAN M	II ECE	1	1	1	1	1	1	1	1	1	1
65	17ECCC01065	SATHEESH KUMAR M	II ECE	1	1	1	1	1	1	1	1	1	1
66	17ECCC01066	SHABERA PARVEEN S	II ECE	1	1	1	1	1	1	1	1	1	1
67	17ECCC01067	SHEERIN CHITHARA D	II ECE	1	1	1	1	1	1	1	1	1	1
68	17ECCC01068	SHOBIKA S	II ECE	1	1	1	1	1	1	1	1	1	1
69	17ECCC01069	SUVETHA B	II ECE	1	1	1	1	1	1	1	1	1	1
70	17ECCC01070	YOGESHWARI A	II ECE	1	1	1	1	1	1	1	1	1	1
			PRESENT	70	70	68	68	70	70	69	69	70	70
			ABSENT	—	—	02	02	—	—	01	01	—	—
			COORDINATOR SIGNATURE										

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

17ECCC01- C PROGRAMMMING -QUIZ QUESTION PAPER & ANSWER

1.Who is known as the father of C Language ?
A.James A. Sosling
B.Vjarne Stroustrup
C.Dennis Ritchie
D.Dr. E. F. Codd
Answer : Dennis Ritchie

2. Which one is not a reserve keyword in C Language?
A.auto
B.main
C.case
D.register
Answer : main

3. Prototype of a function means _____
A.Name of Function
B.Output of Function
C.Declaration of Function
D.Input of a Function
Answer : Declaration of Function

4. Name the loop that executes at least once.
A.For
B.If
C.do-while
D.while
Answer : do-while

5. Far pointer can access _____
A.Single memory location
B.No memory location
C.All memory location
D.First and Last Memory Address
Answer : All memory location

6. An uninitialized pointer in C is called ___
A.Constructor
B.dangling pointer
C.Wild Pointer
D.Destructor
Answer : Wild Pointer

7. A pointer that is pointing to NOTHING is called ____
A.VOID Pointer
B.DANGLING Pointer
C.NULL Pointer
D.WILD Pointer
Answer : NULL Pointer

8. Far pointer can access _____
A.Single memory location
B.No memory location
C.All memory location
D.First and Last Memory Address
Answer : All memory location

9. A pointer pointing to a memory location of the variable even after deletion of the variavle is known as _____
A.far pointer
B.dangling pointer
C.null pointer
D.void pointer
Answer : dangling pointer

10. C Language was developed in the year ____
A.1970
B.1975
C.1980
D.1985
Answer : 1970

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

STUDENT FEEDBACK

Name of the Student : Ankitgupta.R	**Year / Semester:** IV – 07
Name of the Program: C Programming	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	I learnt more programming knowledge.			

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

STUDENT FEEDBACK

Name of the Student : D. Haritha	**Year / Semester:** III / V
Name of the Program: C. Programming	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	It is really helpful to update our knowledge.			

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

STUDENT FEEDBACK

Name of the Student : C. Nandhini	**Year / Semester:** II – 03
Name of the Program: C. Programming	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person		✓		
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	It helps to understand the C programming.			

PROGRAM COORDINATOR

HoD/ECE

Head of the Department
Department of Electronics & Communication Engineering
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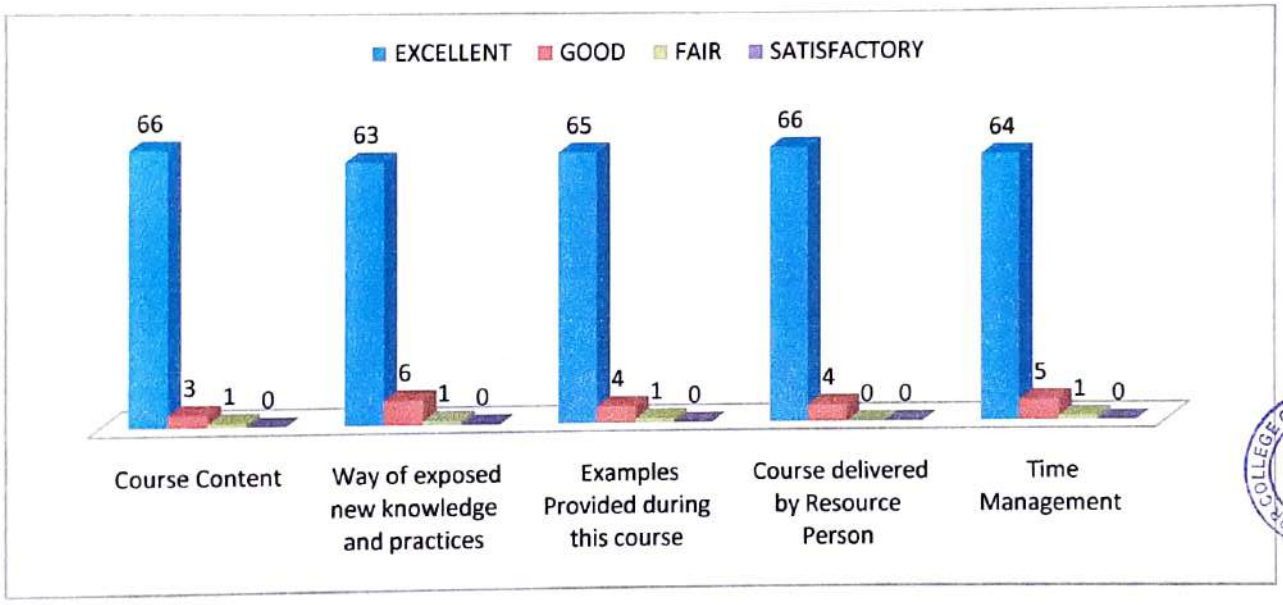
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMMING

STUDENT FEEDBACK SUMMARY REPORT

TOTAL STRENGTH: 70 **DATE: 07.07.17**

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	66	3	1	0
2.	Way of exposed new knowledge and practices	63	6	1	0
3.	Examples Provided during this course	65	4	1	0
4.	Course delivered by Resource Person	66	4	0	0
5.	Time Management	64	5	1	0
6.	Average	64.8	4.4	0.8	0



PROGRAM COORDINATOR

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DPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

SUMMARY REPORT

The Department of Electronics and Communication Engineering organized Certificate program "C PROGRAMMING" from 03.07.2017 to 07.07.2017 (5 Days) at NPRCET Seminar Hall.

Ms.S.AASHA, IV ECE delivered the welcome address.

Dr.B.Maruthu Kannan, Principal of our college inaugurated the program and delivered the inaugural address. Resources Person Mr.K.Muthu Suresh shared their knowledge with our students. This five days course gives over view about C Programming. This program also taught the fundamentals and principles of Procedural Language - Instructions in a C program are executed step by step. Portable - You can move C programs from one platform to another, and run it without any or minimal changes. Speed - C programming is faster than most programming languages like Java, Python, etc.General Purpose - C programming can be used to develop operating systems, embedded systems, databases, and so on. The students learnt various existing and emerging technologies of C Programming.

70 Students attended from ECE II, III and IV years. Students who participated and successfully completed the Quiz program has awarded with certificates.

Ms.D.Haritha, III ECE delivered vote of thanks.

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

PROGRAM COORDINATOR

HoD/ECE

PRINCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON C PROGRAMMING

COURSE MATERIAL

MATERIAL LINK:

CHAPTER1:https://blog.coursesity.com/best-C Programming-tutorials/

CHAPTER2:https://core-electronics.com.au/tutorials/ C Programming -workshop-for-beginners.html

CHAPTER3:https://www.classcentral.com/tag/ C Programming

CHAPTER4:https://hackr.io/tutorials/learn- C Programming

CHAPTER5:https://www.coursera.org/learn/ C Programming

FURTHER STUDY:

1. *C Programming: Getting Started with Sketches (Tab) 2nd Edition, Kindle Edition by simon monk*
2. *Exploring C Programming 1st Edition by Jeremy Blum*
3. *Getting Started with C Programming: The Open Source Electronics Prototyping Platform (Make) 3rd Edition by Massimo Banzi*
4. *C Programming Workshop: A Hands-On Introduction with 65 Projects 1st Editionby John Boxall*
5. *Beginning C for Programming, Second Edition: Learn C Programming for the Arduino 2nd ed. Edition by Jack Purdum*

PROGRAM COORDINATOR **HoD/ECE** **PRINCIPAL**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr. C. Hariteesh - IV-ECE has attended the Add on Course on ***"C PROGRAMMING"*** held from 03.07.17 to 07.07.17(5 Days-35 Hours) during the academic year 2017-2018

HOD-ECE
Mrs.P.Rani

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL
Dr.B.Maruthukannan

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ms. N. Gayatheri - III ECE has attended the Add on Course on ***"C PROGRAMMING"*** held from 03.07.17 to 07.07.17(5 Days-35 Hours) during the academic year 2017-2018

HOD-ECE
Mrs.P.Rani

Dr. J.SUNDARARAJAN,
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Principal
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PRINCIPAL
Dr.B.Maruthukannan

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CERTIFICATE OF COMPLETION

This is to certify that Ms. S. Shobika - II ECE has attended the Add on Course on ***"C PROGRAMMING"*** held from 03.07.17 to 07.07.17(5 Days-35 Hours) during the academic year 2017-2018

HOD-ECE
Mrs.P.Rani

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Dr.B.Maruthukannan

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ms. B. Suretha - II ECE has attended the Add on Course on ***"C PROGRAMMING"*** held from 03.07.17 to 07.07.17(5 Days-35 Hours) during the academic year 2017-2018

HOD-ECE
Mrs.P.Rani

Dr. J.SUNDARARAJAN,
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PRINCIPAL
Dr.B.Maruthukannan

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ms. S. Aasha - IV ECE has attended the Add on Course on ***"C PROGRAMMING"*** held from 03.07.17 to 07.07.17(5 Days-35 Hours) during the academic year 2017-2018

HOD-ECE
Mrs.P.Rani

Dr. J.SUNDARARAJAN,
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Principal
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DEPARTMENT OF ELETRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

INDEX

COURSE CODE & NAME: **17ECAO02-RASPBERRY PI**

ACADEMIC YEAR: **2017-2018** SEMESTER: **ODD** DURATION: **34 HOURS**

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PROGRAM COORDINATOR **HoD/ECE** **IQAC** **PRINCIPAL**

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Coordinator - IQAC
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From

S.Sudhakar,

Assistant Professor,

Department of ECE,

NPR College of Engineering & Technology,

Natham-629 401.

To

The Principal,

NPR College of Engineering and Technology,

NPR Nagar,

Natham-629-401.

Respected Sir,

Sub: Request for permission to conduct Add on for ECE students – Reg

We have planned to conduct Add on Course "RASPBERRY PI" to our students from 06.09.2017, 07.09.17, 08.09.17, 11.09.17 & to 12.09.2017 in our college premises. We proposed Mr.K.Ramesh Kumar, Ericsson India Pvt Ltd, as a resource person for this Add on course program. Kindly permit us to conduct the same.

Thanking you,

Yours faithfully,

Date: 04.08.2017

Place: Natham

(S. SUDHAKAR)

Head of the Department
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

RESOURCE PERSON PROFILE

K Ramesh Kumar
Ericsson India Pvt Ltd,
Senior Solution Architect –CSI
Bangalore.

Professional Details:

Total years of experience : 14+ years
Address : Flat F, Balaji Enclave, 2nd cross,
Doddanakundi, Bangalore-560037
Telephone : +91-9591476009
Date of Birth : 23/07/1985
Passport Number : P0905979

SUMMARY

- 14+ years of professional experience in the area of Telecom nodes integration, operation and maintenance.
- Raspberry Pi technology & Machine Learning.
- Experience in Solution Design HLD, LLD, Acceptance Testing, Implementation support, Operation & Maintenance of Packet core nodes and NFVI (HDS and CEE)
- Ericsson Packet Core Professional Certifications(EPG,SGSN-MME and SAPC)
- Ericsson 5G core Associate certified
- Involved in 5G vEPC (vMMEndvEPG)cloud lab setup
- Hands on vEPC deployment in lab and production environment
- Experience in Ericsson Cloud Execution Environment (CEE)
- Knowledge in HDSArchitecture , RTE installation and CSU/SSU uprades
- Experience in LTE-EPC (MME, SGW & PGW) Rel 9.0 Networks.
- Experience with Ericsson EPG-M, GGSN-MPG, SGSN-MME MkVIII/MKVI+
- Experience in integration/Feature testing for EPC core (2G , 3G & 4G).
- Good understanding of Protocols used CS/PS domain like: - GTPv1/v2, S1AP, UDP, SIGTRAN, MAP, BSSAP/BSSGP, RANAP, SIP, CAMEL and SS7.
- Experience in preparing MOP for implementation of Core network features.
- Hands on Experience with Juniper routers .
- ATP testing on packet core nodes SGSN , GGSN and DNS
- Hands on experience on protocol analyzers like Wireshark and testing tool like IXIA
- Basic Technical knowledge of Juniper routers and switches configurations.
- JNCIA certified.
- Experience in SGSN, GGSN upgrades

PROGRAM COORDINATOR

COLLEGE OF ENGG. & TECHNOLOGY NATHAM

HoD/ECE

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NPRCET/OFF/ECE/VAC/2017-2018 DATE: 12.08.2017

CIRCULAR

This is to inform that Department of Electronics and Communication Engineering has planned to conduct an Add on course on **"RASPBERRY PI"** for the students during the end of this Odd semester 2017-2018.Interested students can enroll their name on or before 02.09.2017.

The details of the training program are given below.

COURSE NAME	:	RASPBERRY PI
RESOURCE PERSONS	:	Mr.K.Ramesh Kumar
VENUE	:	NPRCET
DATE & DURATION	:	06.09.17, 0.7.09.17, 08.09.17, 11.09.17 &12.09.17 & 34 Hours.
PROGRAM COORDINATOR	:	Mr.S.Sudhakar, AP/ECE, NPRCET.

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Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Add on Course on RASPBERRY PI"

On 6th September, 2017

Venue: NPRCET Auditorium at 9.30 a.m.

Chief Guest

Mr.K.RAMESH KUMAR

Ericsson India Pvt Ltd,

Senior Solution Architect -CSI

Bangalore

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized By

Department of Electronics and Communication Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

17ECAO02-RASPBERRY PI-COURSE CONTENT

CHAPTER 1: GETTING STARTED WITH RASPBERRY PI

Introduction to Raspberry Pi -Comparison of various Rpi Models-Understanding SoC architecture and SoCs used in Raspberry Pi-Pin Description of Raspberry Pi and On-board components of Rpi

CHAPTER 2: BOOTING UP RPI- OPERATING SYSTEM AND LINUX COMMANDS

Linux- Introduction, Architecture and File System Raspbian O.S.-Introduction, Tools like Leafpad Editor-Installing Raspbian on Pi-First boot and Basic Configuration of Pi and Popular Linux Commands

CHAPTER3: WORKING WITH RPI USING PYTHON

Introduction, Python vs. Other Languages-Applications of Python Understanding Python, Interpreted Languages-Variables, Keywords, Operators and Operands- Data Types in Python, Importing Libraries & Flow Control, Conditional Statement, Loops

CHAPTER4: C LANGUAGE- IMBIBING RPI WITH C

C Basics- compiled language C Concepts- data types, variables, conditional statement, loops Library installation and Compiling C programs- Using Wiring Pi for GPIO Programming and Interfacing Rpi using C

CHAPTER5: IOT DESIGN USING RASPBERRY PI

LAMP Web-server GPIO Control over WebBrowser- Creating Custom Web Page for LAMP Communicating data using on-board module- Home automation using Pi and Node-RED, MQTT Protocol

CRITERIATO GET CERTIFICATE:

- Students should register their names for this course
- Students must have **85%** attendance.
- Student should secure **50%** marks in the Exam.



Prepared By: Mr.S.Sudhakar, AP/ECE

Approved By,

HoD/ECE

Head of the Department
Department of Electronics & Communication Engineering
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

REGISTERED STUDENTS NAME LIST

S.NO.	REGISTER NUMBER	STUDENT NAME	YEAR
1	920814106003	ABIRAMI S	IV ECE
2	920814106005	ANITHA M	IV ECE
3	920814106006	ANKIT GUPTA R	IV ECE
4	920814106008	ARCHANA A	IV ECE
5	920814106009	ARCHANA N	IV ECE
6	920814106010	ARJUN KUMAR T B	IV ECE
7	920814106011	AROCKIYA PRIYA J	IV ECE
8	920814106012	ARUN KUMAR T B	IV ECE
9	920814106013	ARUN SHANKAR R	IV ECE
10	920814106014	ASHIK AHAMED A	IV ECE
11	920814106015	ASHWITHA G	IV ECE
12	920814106016	BALAJI K S	IV ECE
13	920814106017	BALA MURUGAN N G	IV ECE
14	920814106018	BALASARASWATHI B	IV ECE
15	920814106019	BHAGYALAKSHMI R	IV ECE
16	920814106020	DEEPIKA A	IV ECE
17	920814106021	DEVIRAMAN K	IV ECE
18	920814106022	DHANASOWNDAR R M	IV ECE
19	920814106023	DHEENADHAYALAN S	IV ECE
20	920814106024	DIVYA PARVATHY B	IV ECE
21	920814106025	FATHIMA NACHIYAR D	IV ECE
22	920814106026	GAYATHRI L	IV ECE
23	920814106037	JEYASRI B	IV ECE
24	920814106038	KARTHICK P	IV ECE
25	920814106039	KARTHIKADEVI.B	IV ECE
26	920814106040	KARTHIKEYAN.G	IV ECE
27	920814106041	KATHIJA .M	IV ECE
28	920814106042	KATHIRVEL.S	IV ECE
29	920814106043	KOKILA.B	IV ECE
30	920814106044	LATHA MAHESWARI.T	IV ECE
31	920814106051	MATHAVAN .V	IV ECE
32	920814106046	MAHASWATHI.K	IV ECE
33	920814106047	MANIKANDAN.K	IV ECE
34	920814106048	MANIMOZHI.S	IV ECE
35	920814106049	MANOJ PRABHAKAR .R	IV ECE
36	920815106006	DARSHIKA.R	III ECE
37	920815106007	DHANABAL.M	III ECE
38	920815106008	DIVYA.R.G	III ECE
39	920815106009	ELANCHEZHIAN.R	III ECE

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40	920815106010	EVANGELIN SAROJINI.R	III ECE
41	920815106011	GAYATHRI.N	III ECE
42	920815106012	GNANA LAKSHMI.C	III ECE
43	920815106013	GOWSALYA.A	III ECE
44	920815106015	HAKKIM SAIT.A.T	III ECE
45	920815106016	HARISHASTHI KUMAR.G.R	III ECE
46	920815106017	HARITHA.D	III ECE
47	920815106018	INFANTA.J	III ECE
48	920815106019	JANANI.B	III ECE
49	920815106020	JANANI.K	III ECE
50	920815106021	JANANI.S	III ECE
51	920815106022	JANANI DEVI.C	III ECE
52	920815106023	JAYASRI.K	III ECE
`53	920815106024	JEYASRI.P	III ECE
54	920815106025	KALAI SELVI.V	III ECE
55	920815106026	KARTHICKEYAPANDIYAN.P	III ECE
56	920815106027	KAVIYASREE.AL	III ECE
57	920816106010	HEMAVATHI L	II ECE
58	920816106012	JANAKIRAMAN J.R	II ECE
59	920816106013	JANANI S	II ECE
60	920816106014	KEERTHANA P	II ECE
61	920816106015	KESAVA PREM N	II ECE
62	920816106016	KISHORE RAJ M	II ECE
63	920816106017	LAKSHMI PREYA R	II ECE
64	920816106018	MANI KANDAN B	II ECE
65	920816106019	MEENAKSHI R	II ECE
66	920816106020	MOSES MELWIN RAJ S J	II ECE
67	920816106021	NANDHINI C	II ECE
68	920816106022	NARMATHA K	II ECE
69	920816106023	NISHA JENIFER A	II ECE
70	920816106029	RIZWANA PARVEEN S	II ECE
71	920816106030	SARAVANAN M	II ECE
72	920816106031	SATHEESH KUMAR M	II ECE

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

COURSE SCHEDULE

Venue: NPRCET Seminar Hall **Date: 28.08.17**

EXTERNAL RESOURCE PERSON
1.Mr.K.Ramesh Kumar

INTERNAL RESOURCE PERSONS:
1.Mr.S.Surendhar, AP/ECE
2.Mr.S.Sudhakar,AP/ECE

Day1 06.09.17	9.30 a.m.to 10.00 a.m.	**Inauguration**	
	10. 00 a.m. to 11.10 a.m.	Session 1	Introduction to Raspberry Pi **Mr.K.Ramesh Kumar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 a.m.	Session 2	Comparison of various Rpi Models **Mr.S.Surendhar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.40 p.m.	Session 3	Understanding SoC architecture and SoCs used in Raspberry Pi **Dr.A Gopisaminathan**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Pin Description of Raspberry Pi and On-board components of Rpi **Mr.K.Ramesh Kumar**

Day 2 07.09.17	9.30 a.m.to 11.10 a.m.	Session 1	Linux- Introduction, Architecture and File System Raspbian O.S. **Mr.K.Ramesh Kumar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 p.m.	Session 2	Introduction, Tools like Leafpad Editor **Mr.K.Ramesh Kumar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Installing Raspbian on Pi **Mr.S.Sudhakar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	First boot and Basic Configuration of Pi and Popular Linux Commands **Mr.S.Surendhar**

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Day 3 08.09.17	9.30 a.m.to 11.10 a.m.	Session 1	Introduction, Python vs. Other Languages, **Mr.K.Ramesh Kumar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 p.m.	Session 2	Applications of Python Understanding Python, Interpreted Languages **Mr.S.Sudhakar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Variables, Keywords, Operators and Operands **Mr.S.Surendhar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Data Types in Python, Importing Libraries & Flow Control, Conditional Statement, Loops **Mr.K.Ramesh Kumar**

Day 4 11.09.17	9.30 a.m.to 11.10 a.m.	Session 1	C Basics- compiled language C Concepts **Mr.S.Surendhar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 p.m.	Session 2	data types, variables, conditional statement, loops **Mr.K.Ramesh Kumar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Library installation and Compiling C programs **Mr.K.Ramesh Kumar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Using Wiring Pi for GPIO Programming and Interfacing Rpi using C **Mr.S.Sudhakar**

Day 5 12.09.17	9.30 a.m.to 11.10 a.m.	Session 1	LAMP Web-server GPIO Control over WebBrowser **Mr.K.Ramesh Kumar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 p.m.	Session 2	Creating Custom Web Page for LAMP **Mr.S.Sudhakar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Communicating data using on-board module **Mr.S.Surendhar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Home automation using Pi and Node-RED, MQTT Protocol **Mr.K.Ramesh Kumar**
	4.30 p.m. to 5.00 p.m.	**Valedictory**	

PROGRAM COORDINATOR **HoD/ECE** **IQAC** **PRINCIPAL**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

STUDENT ATTENDANCE

S. No	Roll.No	Student Name	Year	06.09.17		07.09.17		08.09.17		11.09.17		12.09.17	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	17ECAO02001	ABIRAMI S	IV ECE	P	P	P	P	P	P	P	P	P	P
2	17ECAO02002	ANITHA M	IV ECE	P	P	P	P	P	P	P	P	P	P
3	17ECAO02003	ANKIT GUPTA R	IV ECE	P	P	P	P	P	P	P	P	P	P
4	17ECAO02004	ARCHANA A	IV ECE	P	P	P	P	P	P	P	P	P	P
5	17ECAO02005	ARCHANA N	IV ECE	P	P	P	P	P	P	P	P	P	P
6	17ECAO02006	ARJUN KUMAR T B	IV ECE	P	P	P	P	P	P	P	P	P	P
7	17ECAO02007	AROCKIYA PRIYA J	IV ECE	P	P	P	P	P	P	P	P	P	P
8	17ECAO02008	ARUN KUMAR T B	IV ECE	P	P	P	P	P	P	P	P	P	P
9	17ECAO02009	ARUN SHANKAR R	IV ECE	P	P	P	P	P	P	P	P	P	P
10	17ECAO02010	ASHIK AHAMED A	IV ECE	P	P	P	P	P	P	P	P	P	P
11	17ECAO02011	ASHWITHA G	IV ECE	P	P	P	P	P	P	P	P	P	P
12	17ECAO02012	BALAJI K S	IV ECE	P	P	P	P	P	P	P	P	P	P
13	17ECAO02013	BALA MURUGAN N G	IV ECE	P	P	P	P	P	P	P	P	P	P
14	17ECAO02014	BALASARASWATHI B	IV ECE	P	P	P	P	P	P	P	P	P	P
15	17ECAO02015	BHAGYALAKSHMI R	IV ECE	P	P	P	P	P	P	P	P	P	P
16	17ECAO02016	DEEPIKA A	IV ECE	P	P	P	P	P	P	P	P	P	P
17	17ECAO02017	DEVIRAMAN K	IV ECE	P	P	P	P	P	P	P	P	P	P
18	17ECAO02018	DHANASOWNDAR R M	IV ECE	A	A	P	P	P	P	P	P	P	P
19	17ECAO02019	DHEENADHAYALAN S	IV ECE	P	P	P	P	P	P	P	P	P	P
20	17ECAO02020	DIVYA PARVATHY B	IV ECE	P	P	P	P	P	P	P	P	P	P
21	17ECAO02021	FATHIMA NACHIYAR D	IV ECE	P	P	P	P	P	P	P	P	P	P
22	17ECAO02022	GAYATHRI L	IV ECE	P	P	P	P	P	P	P	P	P	P
23	17ECAO02023	JEYASRI B	IV ECE	P	P	P	P	P	P	P	P	P	P
24	17ECAO02024	KARTHICK P	IV ECE	P	P	P	P	P	P	P	P	P	P
25	17ECAO02025	KARTHIKADEVI.B	IV ECE	P	P	P	P	P	P	P	P	P	P
26	17ECAO02026	KARTHIKEYAN.G	IV ECE	P	P	P	P	P	P	P	P	P	P
27	17ECAO02027	KATHIJA .M	IV ECE	P	P	P	P	P	P	P	P	P	P
28	17ECAO02028	KATHIRVEL.S	IV ECE	P	P	P	P	P	P	P	P	P	P
29	17ECAO02029	KOKILA.B	IV ECE	P	P	P	P	P	P	P	P	P	P
30	17ECAO02030	LATHA MAHESWARI.T	IV ECE	P	P	P	P	P	P	P	P	P	P
31	17ECAO02031	MATHAVAN .V	IV ECE	P	P	P	P	P	P	P	P	P	P
32	17ECAO02032	MAHASWATHI.K	IV ECE	P	P	P	P	P	P	P	P	P	P
33	17ECAO02033	MANIKANDAN.K	IV ECE	P	P	P	A	A	P	P	P	P	P
34	17ECAO02034	MANIMOZHI.S	IV ECE	P	P	P	P	P	P	P	P	P	P
35	17ECAO02035	MANOJ PRABHAKAR .R	IV ECE	P	P	P	P	P	P	P	P	P	P
36	17ECAO02036	DARSHIKA.R	III ECE	P	P	P	P	P	P	P	P	P	P
37	17ECAO02037	DHANABAL.M	III ECE	P	P	P	P	P	P	P	P	P	P
38	17ECAO02038	DIVYA.R.G	III ECE	P	P	P	P	P	P	P	P	P	P
39	17ECAO02039	ELANCHEZHIAN.R	III ECE	P	P	P	P	P	P	P	P	P	P
40	17ECAO02040	EVANGELIN SAROJINI.R	III ECE	P	P	P	P	P	P	P	P	P	P
41	17ECAO02041	GAYATHRI.N	III ECE	P	P	P	P	P	P	P	P	P	P

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42	17ECAO02042	GNANA LAKSHMI.C	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
43	17ECAO02043	GOWSALYA.A	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
44	17ECAO02044	HAKKIM SAIT.A.T	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
45	17ECAO02045	HARISHASTHI KUMAR.G.R	III ECE	✓	✓	✓	✓	✓	✓		A	A	✓
46	17ECAO02046	HARITHA.D	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
47	17ECAO02047	INFANTA.J	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
48	17ECAO02048	JANANI.B	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
49	17ECAO02049	JANANI.K	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50	17ECAO02050	JANANI.S	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
51	17ECAO02051	JANANI DEVI.C	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
52	17ECAO02052	JAYASRI.K	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
53	17ECAO02053	JEYASRI.P	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
54	17ECAO02054	KALAI SELVI.V	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
55	17ECAO02055	KARTHICKEYAPANDIYAN.P	III ECE	A	A	✓	✓	✓	✓	✓	✓	✓	✓
56	17ECAO02056	KAVIYASREE.AL	III ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
57	17ECAO02057	HEMAVATHI L	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
58	17ECAO02058	JANAKIRAMAN J.R	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
59	17ECAO02059	JANANI S	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
60	17ECAO02060	KEERTHANA P	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
61	17ECAO02061	KESAVA PREM N	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
62	17ECAO02062	KISHORE RAJ M	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
63	17ECAO02063	LAKSHMI PREYA R	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
64	17ECAO02064	MANI KANDAN B	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
65	17ECAO02065	MEENAKSHI R	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
66	17ECAO02066	MOSES MELWIN RAJ S J	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
67	17ECAO02067	NANDHINI C	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
68	17ECAO02068	NARMATHA K	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
69	17ECAO02069	NISHA JENIFER A	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
70	17ECAO02070	RIZWANA PARVEEN S	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
71	17ECAO02071	SARAVANAN M	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
72	17ECAO02072	SATHEESH KUMAR M	II ECE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
			PRESENT	71	71	72	72	71	71	72	72	71	71
			ABSENT	01	01	–	–	01	01	–	–	01	01
			COORDINATOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

17ECAO02-RASPBERRY PI--QUIZ QUESTION PAPER & ANSWER

1. What do we use to connect TV to RPi?
a) Male HDMI
b) Female HDMI
c) Male HDMI and Adapter
d) Female HDMI and Adapter

Answer: c

2. How power supply is done to RPi?
a) USB connection
b) Internal battery
c) Charger
d) Adapter

Answer: a

3. What is the Ethernet/LAN cable used in RPi?
a) Cat5
b) Cat5e
c) Cat6
d) RJ45
Answer: d

4. What are the parameters that are default values?
a) Port Name and Bits
b) Speed and Port Names
c) Speed and Parity
d) Stop bit and Flow Control
Answer: b

5. Which instruction set architecture is used in Raspberry Pi?
a) X86
b) MSP
c) AVR
d) ARM
Answer: d

6. What is the default user in Debain on Raspberry Pi?
a) Default
b) User
c) Pi
d) Root
Answer: c

7. What are the distributions are supported by raspberry Pi?
a) Arch Linux
b) Debain
c) Fedora Remix
d) Arch Linux, Debain, and Fedora Remix
Answer: d

8. What bit processor is used in Pi 3?
a) 64-bit
b) 32-bit
c) 128-bit
d) Both 64 and 32 bit
Answer: a

9. What is the speed of operation in Pi 3?
a) 900MHz
b) 1.2GHz
c) 1GHz
d) 500MHz
Answer: b

10. WiFi is not present in which of the following models?
a) Raspberry Pi3
b) Raspberry Pi Zero WH
c) Raspberry Pi Zero W
d) Raspberry Pi Zero
Answer: d

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON RASPBERRY PI

STUDENT FEEDBACK

Name of the Student : K. Devi Raman	**Year / Semester:** IV / VII
Name of the Program: RASPBERRY PI	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	valuable and good course.			

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON RASPBERRY PI

STUDENT FEEDBACK

Name of the Student : J. INFANTA	**Year / Semester:** III / V
Name of the Program: RASPBERRY PI	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Got knowledge about Raspberry PI.			

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CERTIFICATE COURSE ON RASPBERRY PI

STUDENT FEEDBACK

Name of the Student : C. Nandhini	**Year / Semester:** II - 03
Name of the Program: Raspberry Pi	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content		✓		
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	It helps to understand the Concepts of Raspberry Pi			

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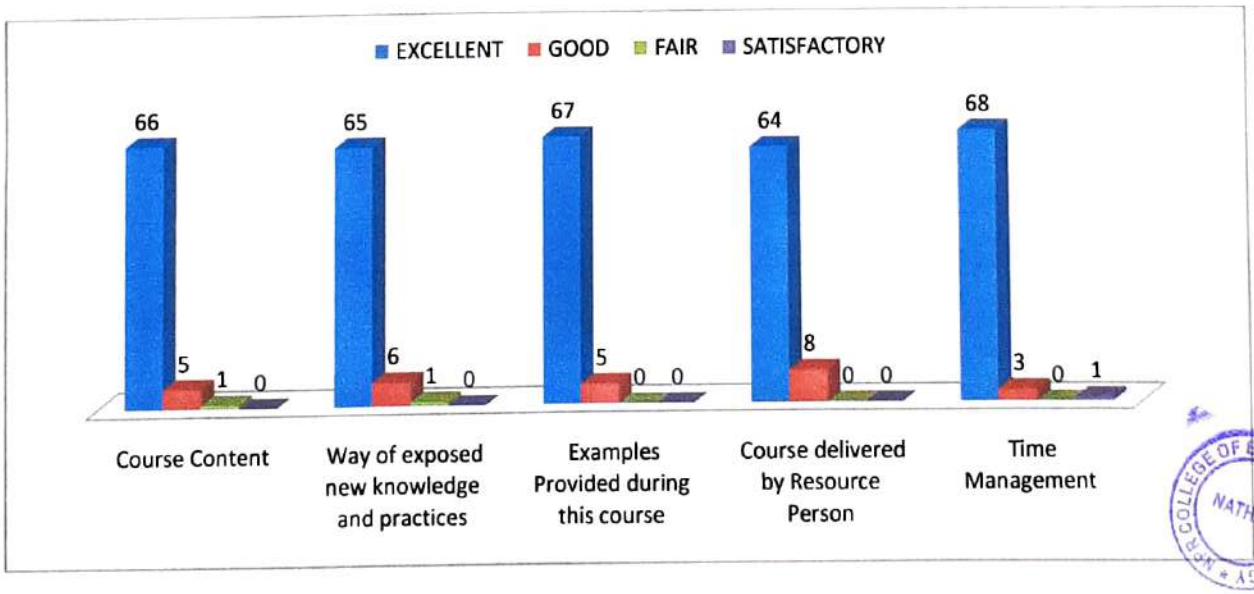
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON RASPBERRY PI

STUDENT FEEDBACK SUMMARY REPORT

TOTAL STRENGTH: 72 **DATE: 12.09.17**

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	66	5	1	0
2.	Way of exposed new knowledge and practices	65	6	1	0
3.	Examples Provided during this course	67	5	0	0
4.	Course delivered by Resource Person	64	8	0	0
5.	Time Management	68	3	0	1
6.	Average	66	5.4	0.4	0.2



PROGRAM COORDINATOR

HoD/ECE

Head of the Department
Department of Electronics & Communication Engineering
NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

SUMMARY REPORT

The Department of Electronics and Communication Engineering organized Add on program"RASPBERRY PI" from 06.09.17, 07.09.17, 08.09.17, 11.09.17 & 12.09.17 (5 Days) at NPRCET Seminar Hall.

Ms. M.Anitha, IV ECE delivered the welcome address.

Dr.B.Maruthu Kannan, Principal of our college inaugurated the program and delivered the inaugural address. Resources Person Mr.K.Ramesh Kumar shared their knowledge with our students. This program also taught the fundamentals and principles of raspberry pi uses a hardware platform to perform the operation. It has the elements such as input/output interfaces, memory, user interface and the display unit. Generally, an embedded system comprises of the following Power Supply, Memory, Processor, Timers, Output/Output circuits, Serial communication ports and SASC (System application specific circuits).

72 Students attended from ECE II, III and IV year. Students who participated and successfully completed the Quiz program has awarded with certificates.

Ms. S.Janani, III ECE delivered vote of thanks.

PROGRAM COORDINATOR

HoD/ECE

PRINCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON RASPBERRY PI

COURSE MATERIAL

MATERIAL LINK:

CHAPTER1-1.https://www.digitroniklabs.com/blog/using-Raspberry Pi
CHAPTER-2:https://www.elprocus.com/real-time-applications-of- Raspberry Pi
CHAPTER-3:http://industrial. Machine -computing.com/
CHAPTER-4:https://ipcsautomation.com/blog-post/ Machine -system-in-automation/Raspberry Pi
CHAPTER-5:http://www.uninova.pt/sies2007/SIES2007_RZ_plenary_Lisbon_v1.pdf

FURTHER STUDY:

1.*Raspberry Pi System Design Introduction to SoC System Architecture (Kindle Edition)by Mohit Arora*

2.*Real-Time Software Design for Raspberry Pi (Kindle Edition) by Hassan Gomaa*

3. *Raspberry Pi (Kindle Edition) byJack Ganssle*

4. *Raspberry Pi with C International Edition (Kindle Edition) by Kai, Qian Haring D.D. Et.Al*

5. *Raspberry Pi with the Yocto Project (Kindle Edition)by Rudolf Streif .*

NATHAM

PROGRAM COORDINATOR **HoD/ECE** **PRINCIPAL**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ms. Abirami S IV - ECE has attended the Add on Course on **"RASPBERRY PI"** held from 06.09.17 to 12.09.17(5 Days-34 Hours) during the academic year 2017-2018.

HOD-ECE
Mrs.P.Rani

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL
Dr.B.Maruthukannan

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr. Ankit Gupta.R IV-ECE has attended the Add on Course on **"RASPBERRY PI"** held from 06.09.17 to 12.09.17(5 Days-34 Hours) during the academic year 2017-2018

HOD-ECE
Mrs.P.Rani

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engg...
Natham, Di...

PRINCIPAL
Dr.B.Maruthukannan

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ms. Gayathri. N IV - ECE has attended the Add on Course on **"RASPBERRY PI"** held from 06.09.17 to 12.09.17(5 Days-34 Hours) during the academic year 2017-2018

HOD-ECE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr. D Kesava Prem D ECE has attended the Add on Course on **"RASPBERRY PI"** held from 06.09.17 to 12.09.17(5 Days-34 Hours) during the academic year 2017-2018

HOD-ECE
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CERTIFICATE OF COMPLETION

This is to certify that Mr. M. Saravanan II ECE has attended the Add on Course on ***"RASPBERRY PI"*** held from 06.09.17 to 12.09.17(5 Days-34 Hours) during the academic year 2017-2018.

HOD-ECE
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DEPARTMENT OF ELETRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMING

INDEX

COURSE CODE & NAME: **17ECCC03- JAVA PROGRAMMING**

ACADEMIC YEAR: **2017-2018** SEMESTER: **EVEN** DURATION: **35 HOURS**

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NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

PROGRAM COORDINATOR **HoD/ECE** **IQAC** **PRINCIPAL**

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From

J.G.Sabarish,

Assistant professor,

Department of ECE,

NPR College of Engineering & Technology,

Natham-624 401

To

The Principal,

NPR College of Engineering & Technology,

Natham-624 401

Respected Sir,

Sub: Request for permission to conduct certificate program for ECE students – Reg

We have planned to conduct certificate program on "JAVA PROGRAMMING" to our students from 08.01.18 to 12.01.18 (5 Days) in our college premises. We proposed Mr.S.Harish Babu, Abile Business Solutions (P) Ltd, as a resource person for this Certificate course program. Kindly permit us to conduct the same.

Thanking you,

Yours faithfully,

Date: 04.12.2017

Place: Natham

COLLEGE OF ENGG. & TECHNOLOGY * NPR NATHAM

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMING

RESOURCE PERSON PROFILE

Name	:	Mr.S.HARISH BABU
Designation	:	Senior Software Engineer
Company Name	:	Abile Business Solutions (P) Ltd, Chennai.
About Resource Person	:	Abile Business Solutions (P) Ltd, Chennai-Senior software Engineer AUG 2020 – Present My role is Full Stack Developer and developed web applications using MEAN Stack in the IIOT Sector.AR/VR Application Engineer in the manufacturing sector. Develop Engineer to automate the development process using Jenkins Deloitte India LLP, Chennai-Consultant JAN 2020 - AUG 2020 My role is Full Stack Developer and developed web applications using MEAN Stack in the IIOT Sector. Develop Engineer to automate the development process using Jenkins Redeem Systems Pvt Ltd, Bangalore - Lead Developer DEC 2017 - JAN 2020

PROGRAM COORDINATOR

COLLEGE OF ENGG. & TECHNOLOGY ★ NPR
NATHAM

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NPRCET/OFF/ECE/VAC/2017-2018 DATE: 29.01.2017

CIRCULAR

This is to inform that Department of Electronics and Communication Engineering has planned to conduct a Certificate program on **"JAVA PROGRAMMING"** for the students during the end of this EVEN semester 2017-2018.Interested students can enroll their name on or before 02.01.2018.

The details of the training program are given below.

COURSE NAME	:	JAVA PROGRAMMMING
RESOURCE PERSONS	:	Mr.S.HARISH BABU
VENUE	:	NPRCET Seminar Hall
DATE & DURATION	:	08.01.18 to 12.01.18 & 35 Hours
PROGRAM COORDINATOR	:	Mr.J.G.SABARISH AP/ECE, NPRCET.

PRINCIPAL

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Natham, Dindigul (Dt) - 624 401

Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

NPR College of Engineering & Technology

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Certificate Course on Java Programming"

On 8th Jan, 2018

Venue: NPRCET Auditorium at 9.30 a.m.

Chief Guest

Mr.S.HARISH BABU

Abile Business Solutions (P) Ltd, Chennai.

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Electronics and Communication Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

NPR College of Engineering & Technology
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMING

17ECCC03- JAVA PROGRAMMING -COURSE CONTENT

CHAPTER 1-CLASS DESIGN AND EXCEPTIONS

- Working with Pre-Written Code
- Java Class Design – Interfaces
- Java Class Design – Abstract Classes
- Exceptions and Assertions

CHAPTER 2-DATA STRUCTURES: GENERICS AND COLLECTIONS

- Generics
- Collections – Part 1
- Collections – Part 2
- Sorting and Searching

CHAPTER 3-STRINGS, REGULAR EXPRESSIONS, AND RECURSION

- String Processing
- Use Regular Expressions
- Recursion
- JDBC Introduction

CHAPTER 4- INPUT AND OUTPUT

- Basics of Input and Output
- Input and Output Fundamentals
- Deploying an Application
- JDBC Basics

CHAPTER 5- JAVA MEMORY AND THE JVM

- Introduction to JVM Architecture
- Java Memory Structure
- JDK Tools
- Class File

CRITERIATO GET CERTIFICATE:

- Students should register their names for this course
- Students must have **85%** attendance.
- Student should secure **50%** marks in the Exam.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Prepared By: Mrs.V.Sujitha,AP-CSE

Approved By,

HoD/ECE

Head of the Department
Department of Electronics & Communication Engineering
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IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMMING

REGISTERED STUDENTS NAME LIST

SL.NO.	REGISTER NUMBER	STUDENT NAME	YEAR
1	920814106006	ANKIT GUPTA R	IV ECE
2	920814106008	ARCHANA A	IV ECE
3	920814106009	ARCHANA N	IV ECE
4	920814106010	ARJUN KUMAR T B	IV ECE
5	920814106011	AROCKIYA PRIYA J	IV ECE
6	920814106012	ARUN KUMAR T B	IV ECE
7	920814106013	ARUN SHANKAR R	IV ECE
8	920814106014	ASHIK AHAMED A	IV ECE
9	920814106015	ASHWITHA G	IV ECE
10	920814106016	BALAJI K S	IV ECE
11	920814106017	BALA MURUGAN N G	IV ECE
12	920814106018	BALASARASWATHI B	IV ECE
13	920814106019	BHAGYALAKSHMI R	IV ECE
14	920814106020	DEEPIKA A	IV ECE
15	920814106021	DEVIRAMAN K	IV ECE
16	920814106022	DHANASOWNDAR R M	IV ECE
17	920814106023	DHEENADHAYALAN S	IV ECE
18	920814106024	DIVYA PARVATHY B	IV ECE
19	920814106025	FATHIMA NACHIYAR D	IV ECE
20	920814106026	GAYATHRI L	IV ECE
21	920814106027	GAYATHRI P	IV ECE
22	920814106028	GOBI KRISHNAN R	IV ECE
23	920814106029	GOKILA M	IV ECE
24	920814106030	HARIKESH C	IV ECE
25	920814106032	HASAN ARAFATH S	IV ECE
26	920814106033	JAYARAM M	IV ECE
27	920814106034	JENCY PRIYA J	IV ECE
28	920814106035	JENNIFER J	IV ECE
29	920814106036	JEYARANI@ MONIKA D	IV ECE
30	920814106037	JEYASRI B	IV ECE
31	920814106038	KARTHICK P	IV ECE
32	920814106039	KARTHIKADEVI.B	IV ECE
33	920814106040	KARTHIKEYAN.G	IV ECE
34	920814106041	KATHIJA .M	IV ECE
35	920814106042	KATHIRVEL.S	IV ECE
36	920815106005	ARCHANA.J	III ECE
37	920815106006	DARSHIKA.R	III ECE
38	920815106007	DHANABAL.M	III ECE
39	920815106008	DIVYA.R.G	III ECE
40	920815106009	ELANCHEZHIAN.R	III ECE

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41	920815106010	EVANGELIN SAROJINI.R	III ECE
42	920815106011	GAYATHRI.N	III ECE
43	920815106012	GNANA LAKSHMI.C	III ECE
44	920815106013	GOWSALYA.A	III ECE
45	920815106015	HAKKIM SAIT.A.T	III ECE
46	920815106016	HARISHASTHI KUMAR.G.R	III ECE
47	920815106017	HARITHA.D	III ECE
48	920815106018	INFANTA.J	III ECE
49	920815106019	JANANI.B	III ECE
50	920815106020	JANANI.K	III ECE
51	920815106021	JANANI.S	III ECE
52	920815106022	JANANI DEVI.C	III ECE
`53	920815106023	JAYASRI.K	III ECE
54	920815106024	JEYASRI.P	III ECE
55	920815106025	KALAI SELVI.V	III ECE
56	920815106026	KARTHICKEYAPANDIYAN.P	III ECE
57	920816106008	HEMALATHA R	II ECE
58	920816106009	HEMA MALINI A	II ECE
59	920816106010	HEMAVATHI L	II ECE
60	920816106012	JANAKIRAMAN J.R	II ECE
61	920816106013	JANANI S	II ECE
62	920816106014	KEERTHANA P	II ECE
63	920816106015	KESAVA PREM N	II ECE
64	920816106016	KISHORE RAJ M	II ECE
65	920816106017	LAKSHMI PREYA R	II ECE
66	920816106018	MANI KANDAN B	II ECE
67	920816106019	MEENAKSHI R	II ECE
68	920816106020	MOSES MELWIN RAJ S J	II ECE
69	920816106021	NANDHINI C	II ECE
70	920816106022	NARMATHA K	II ECE
71	920816106023	NISHA JENIFER A	II ECE
72	920816106029	RIZWANA PARVEEN S	II ECE
73	920816106030	SARAVANAN M	II ECE
74	920816106031	SATHEESH KUMAR M	II ECE
75	920816106032	SHABERA PARVEEN S	II ECE

PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY ★ NATHAM

HoD/ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMING

COURSE SCHEDULE

Venue: NPRCET Seminar Hall

Date: 05.01.2018

EXTERNAL RESOURCE PERSON:
1. Mr.S.Harish Babu

INTERNAL RESOURCE PERSONS:
1.Mrs.V.Sujitha
2.Mr.J.Dinesh

Day 1 08.01.18	9.30 a.m.to 10.00 a.m.	Inauguration	
	10. 00 a.m. to 11.10 a.m.	Session 1	Working with Pre-Written Code **Mr.S.Harish Babu**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 a.m.	Session 2	Java Class Design – Interfaces **Mr.S.Harish Babu**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.40 p.m.	Session 3	Java Class Design – Abstract Classes **Mrs.V.Sujitha**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Exceptions and Assertions **Mr.J.Dinesh**

Day 2 09.01.18	9.30 a.m.to 11.10 a.m.	Session 1	Generics **Mr.S.Harish Babu**
	11.10 a.m. to 11.30 a.m.	Tea Break	
	11.30 a.m. to 1.10 p.m.	Session 2	Collections – Part 1 **Mr.J.Dinesh**
	1.10 p.m. to 2.00 p.m.	Lunch Break	
	2.00 p.m. to3.40 p.m.	Session 3	Collections – Part 2 **Mrs.V.Sujitha**
	3.40 p.m. to 3.50 p.m.	Tea Break	
	3.50 p.m. to 4.30 p.m.	Session 4	Sorting and Searching **Mr.S.Harish Babu**

NPR College of Engineering & Technology

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Day 3 10.01.18	9.30 a.m.to 11.10 a.m.	Session 1	String Processing **Mrs.V.Sujitha**
	11.10 a.m. to 11.30 a.m.	Tea Break	
	11.30 a.m. to 1.10 p.m.	Session 2	Use Regular Expressions **Mr.J.Dinesh**
	1.10 p.m. to 2.00 p.m.	Lunch Break	
	2.00 p.m. to3.40 p.m.	Session 3	Recursion **Mr.S.Harish Babu**
	3.40 p.m. to 3.50 p.m.	Tea Break	
	3.50 p.m. to 4.30 p.m.	Session 4	JDBC Introduction **Mr.S.Harish Babu**

Day 4 11.01.18	9.30 a.m.to 11.10 a.m.	Session 1	Basics of Input and Output **Mr.S.Harish Babu**
	11.10 a.m. to 11.30 a.m.	Tea Break	
	11.30 a.m. to 1.10 p.m.	Session 2	Input and Output Fundamentals **Mrs.V.Sujitha**
	1.10 p.m. to 2.00 p.m.	Lunch Break	
	2.00 p.m. to3.40 p.m.	Session 3	Deploying an Application **Mr.J.Dinesh**
	3.40 p.m. to 3.50 p.m.	Tea Break	
	3.50 p.m. to 4.30 p.m.	Session 4	JDBC Basics **Mr.S.Harish Babu**

Day 5 12.01.18	9.30 a.m.to 11.10 a.m.	Session 1	Introduction to JVM Architecture **Mr.S.Harish Babu**
	11.10 a.m. to 11.30 a.m.	Tea Break	
	11.30 a.m. to 1.10 p.m.	Session 2	Java Memory Structure **Mrs.V.Sujitha**
	1.10 p.m. to 2.00 p.m.	Lunch Break	
	2.00 p.m. to3.40 p.m.	Session 3	JDK Tools **Mr.J.Dinesh**
	3.40 p.m. to 3.50 p.m.	Tea Break	
	3.50 p.m. to 4.30 p.m.	Session 4	**Class Files Mr.S.Harish Babu**
	4.30 p.m. to 5.00 p.m.	**Valedictory**	

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PROGRAM COORDINATOR **HoD/ECE** **IQAC** **PRINCIPAL**

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Coordinator - IQAC
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMING

STUDENT ATTENDANCE

S. No.	Roll.No	Student Name	Year	08.01.18		09.01.18		10.01.18		11.01.18		12.01.18	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	17ECCC03001	ANKIT GUPTA R	IV ECE										
2	17ECCC03002	ARCHANA A	IV ECE										
3	17ECCC03003	ARCHANA N	IV ECE										
4	17ECCC03004	ARJUN KUMAR T B	IV ECE										
5	17ECCC03005	AROCKIYA PRIYA J	IV ECE										
6	17ECCC03006	ARUN KUMAR T B	IV ECE										
7	17ECCC03007	ARUN SHANKAR R	IV ECE										
8	17ECCC03008	ASHIK AHAMED A	IV ECE										
9	17ECCC03009	ASHWITHA G	IV ECE										
10	17ECCC03010	BALAJI K S	IV ECE										
11	17ECCC03011	BALA MURUGAN N G	IV ECE										
12	17ECCC03012	BALASARASWATHI B	IV ECE										
13	17ECCC03013	BHAGYALAKSHMI R	IV ECE										
14	17ECCC03014	DEEPIKA A	IV ECE										
15	17ECCC03015	DEVIRAMAN K	IV ECE										
16	17ECCC03016	DHANASOWNDAR R M	IV ECE										
17	17ECCC03017	DHEENADHAYALAN S	IV ECE										
18	17ECCC03018	DIVYA PARVATHY B	IV ECE										
19	17ECCC03019	FATHIMA NACHIYAR D	IV ECE										
20	17ECCC03020	GAYATHRI L	IV ECE										
21	17ECCC03021	GAYATHRI P	IV ECE										
22	17ECCC03022	GOBI KRISHNAN R	IV ECE			A	A						
23	17ECCC03023	GOKILA M	IV ECE										
24	17ECCC03024	HARIKESH C	IV ECE										
25	17ECCC03025	HASAN ARAFATH S	IV ECE										
26	17ECCC03026	JAYARAM M	IV ECE										
27	17ECCC03027	JENCY PRIYA J	IV ECE										
28	17ECCC03028	JENNIFER J	IV ECE										
29	17ECCC03029	JEYARANI@ MONIKA D	IV ECE										
30	17ECCC03030	JEYASRI B	IV ECE										
31	17ECCC03031	KARTHICK P	IV ECE										
32	17ECCC03032	KARTHIKADEVI.B	IV ECE										
33	17ECCC03033	KARTHIKEYAN.G	IV ECE										
34	17ECCC03034	KATHIJA .M	IV ECE										
35	17ECCC03035	KATHIRVEL.S	IV ECE										
36	17ECCC03036	ARCHANA.J	III ECE										
37	17ECCC03037	DARSHIKA.R	III ECE										
38	17ECCC03038	DHANABAL.M	III ECE										
39	17ECCC03039	DIVYA.R.G	III ECE										
40	17ECCC03040	ELANCHEZHIAN.R	III ECE										
41	17ECCC03041	EVANGELIN SAROJINI.R	III ECE	A	A								
42	17ECCC03042	GAYATHRI.N	III ECE										

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43	17ECCC03043	GNANA LAKSHMI.C	III ECE	1	1	1	1	1	1	1	1	1	1
44	17ECCC03044	GOWSALYA.A	III ECE	1	1	1	1	1	1	1	1	1	1
45	17ECCC03045	HAKKIM SAIT.A.T	III ECE	1	1	1	1	1	1	1	1	1	1
46	17ECCC03046	HARISHASTHI KUMAR.G.R	III ECE	1	1	1	1	1	1	1	1	1	1
47	17ECCC03047	HARITHA.D	III ECE	1	1	1	1	1	1	1	1	1	1
48	17ECCC03048	INFANTA.J	III ECE	1	1	1	1	1	1	1	1	1	1
49	17ECCC03049	JANANI.B	III ECE	1	1	1	1	1	1	1	1	1	1
50	17ECCC03050	JANANI.K	III ECE	1	1	1	1	1	1	1	1	1	1
51	17ECCC03051	JANANI.S	III ECE	1	1	1	1	1	1	1	1	1	1
52	17ECCC03052	JANANI DEVI.C	III ECE	1	1	1	1	1	1	1	1	1	1
`53	17ECCC03053	JAYASRI.K	III ECE	1	1	1	1	1	1	1	1	1	1
54	17ECCC03054	JEYASRI.P	III ECE	1	1	1	1	1	1	1	1	1	1
55	17ECCC03055	KALAI SELVI.V	III ECE	1	1	1	1	1	1	1	1	1	1
56	17ECCC03056	KARTHICKEYAPANDIYAN.P	III ECE	1	1	1	1	1	1	1	1	1	1
57	17ECCC03057	HEMALATHA R	II ECE	1	1	1	1	1	1	1	1	1	1
58	17ECCC03058	HEMA MALINI A	II ECE	1	1	1	1	1	1	1	1	1	1
59	17ECCC03059	HEMAVATHI L	II ECE	1	1	1	1	1	1	1	1	1	1
60	17ECCC03060	JANAKIRAMAN J.R	II ECE	1	1	1	1	1	1	1	1	1	1
61	17ECCC03061	JANANI S	II ECE	1	1	1	1	1	1	1	1	1	1
62	17ECCC03062	KEERTHANA P	II ECE	1	1	1	1	1	1	1	1	1	1
63	17ECCC03063	KESAVA PREM N	II ECE	1	1	1	1	1	1	1	1	1	1
64	17ECCC03064	KISHORE RAJ M	II ECE	1	1	1	1	1	1	1	1	1	1
65	17ECCC03065	LAKSHMI PREYA R	II ECE	1	1	1	1	1	1	1	1	1	1
66	17ECCC03066	MANI KANDAN B	II ECE	1	1	1	1	1	1	1	1	1	1
67	17ECCC03067	MEENAKSHI R	II ECE	1	1	1	1	1	1	1	1	1	1
68	17ECCC03068	MOSES MELWIN RAJ S J	II ECE	1	1	1	1	A	A	1	1	1	1
69	17ECCC03069	NANDHINI C	II ECE	1	1	1	1	1	1	1	1	1	1
70	17ECCC03070	NARMATHA K	II ECE	1	1	1	1	1	1	1	1	1	1
71	17ECCC03071	NISHA JENIFER A	II ECE	1	1	1	1	1	1	1	1	1	1
72	17ECCC03072	RIZWANA PARVEEN S	II ECE	1	1	1	1	1	1	1	1	1	1
73	17ECCC03073	SARAVANAN M	II ECE	1	1	1	1	1	1	1	1	1	1
74	17ECCC03074	SATHEESH KUMAR M	II ECE	1	1	1	1	1	1	1	1	1	1
75	17ECCC03075	SHABERA PARVEEN S	II ECE	1	1	1	1	1	1	1	1	1	1
		PRESENT		74	74	74	74	74	74	75	75	75	75
		ABSENT		01	01	01	01	01	01	—	—	—	—
		COORDINATOR SIGNATURE											

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMING

17ECCC03- JAVA PROGRAMMING -QUIZ QUESTION PAPER & ANSWER

1) Which of the following option leads to the portability and security of Java?

a. Bytecode is executed by JVM
b. The applet makes the Java code secure and portable
c. Use of exception handling
d. Dynamic binding between objects

Answer: (a)

2) Which of the following is not a Java features?

a. Dynamic
b. Architecture Neutral
c. Use of pointers
d. Object-oriented

Answer: (c)

3) The \u0021 article referred to as a

a. Unicode escape sequence
b. Octal escape
c. Hexadecimal
d. Line feed

Answer: (a)

4) _____ is used to find and fix bugs in the Java programs.

a. JVM
b. JRE
c. JDK
d. JDB

Answer: (d)

5) Which of the following is a valid declaration of a char?

a. char ch = '\utea';
b. char ca = 'tea';
c. char cr = \u0223;
d. char cc = '\itea';

Answer: (a)

6) What is the return type of the hashCode() method in the Object class?

a. Object
b. int
c. long
d. void

Answer: (b)

7) Which of the following is a valid long literal?

a. ABH8097
b. L990023
c. 904423
d. 0xnf029L

Answer: (d)

8) What does the expression float a = 35 / 0 return?

a. 0
b. Not a Number
c. Infinity
d. Run time exception

Answer: (c)

9) Evaluate the following Java expression, if x=3, y=5, and z=10:++z + y - y + z + x++

a. 24
b. 23
c. 20
d. 25

Answer: (a)

10) Which of the following tool is used to generate API documentation in HTML format from doc comments in source code?

a. javap tool
b. javaw command
c. Javadoc tool
d. javah comman

Answer: (c)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMMING

STUDENT FEEDBACK

Name of the Student : ANKIT GUPTA.R	**Year / Semester:** IV / 8
Name of the Program: Java Programming	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓	✓		
5.	Time Management	✓			
6.	Overall rating of this course		✓		
7.	Any Other Comments / Suggestions	This will help me for Interview.			

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CERTIFICATE COURSE ON JAVA PROGRAMMING

STUDENT FEEDBACK

Name of the Student : HARITHA. D	**Year / Semester:** III / IV
Name of the Program: JAVA PROGRAMMING	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	Learnt about JAVA Programming Concept.			

PROGRAM COORDINATOR

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMMING

STUDENT FEEDBACK

Name of the Student : S. Janani	**Year / Semester:** II – 04
Name of the Program: Java programming	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	It helps to understand concepts of Java programming.			

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

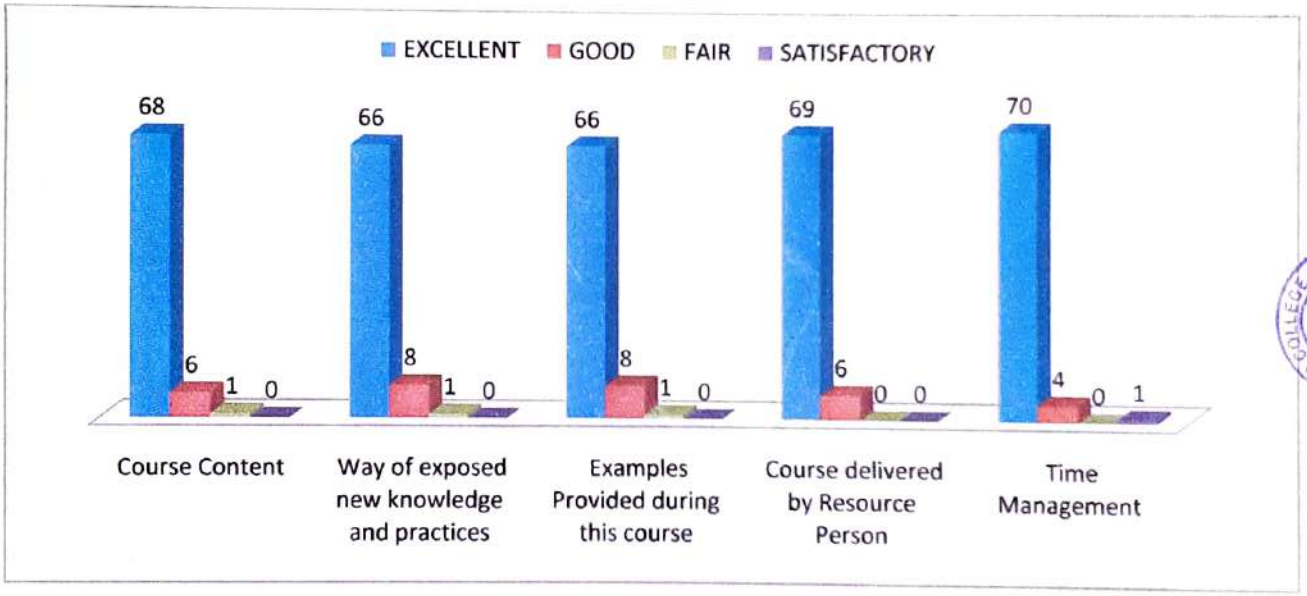
CERTIFICATE COURSE ON JAVA PROGRAMMMING

STUDENT FEEDBACK SUMMARY REPORT

TOTAL STRENGTH: 75

DATE: 12.01.18

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	68	6	1	0
2.	Way of exposed new knowledge and practices	66	8	1	0
3.	Examples Provided during this course	66	8	1	0
4.	Course delivered by Resource Person	69	6	0	0
5.	Time Management	70	4	0	1
6.	Average	67.8	6.4	0.6	0.2



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMMING

SUMMARY REPORT

The Department of Electronics and Communication Engineering organized Certificate a program **"JAVA PROGRAMMMING"** from 08.01.18 to 12.01.18 (5 Days) at NPRCET Seminar Hall.

.Mr.J.RJanakiraman, II ECE delivered the welcome address.

Dr.B.Maruthu Kannan, Principal of our college inaugurated the program and delivered the inaugural address.

Resources Person Mr.S.Harish Babu shared their knowledge with our students. This five days course gives over view about java programming. This program also taught the fundamentals and principles of JAVA class design and exceptions, data structures, generics and collections, strings, regular expressions, and recursion, input and output & java memory and the JVM. The students learnt various existing and emerging technologies of java programming.

75 Students attended from ECE II, III and IV years. Students who participated and successfully completed the Quiz program has awarded with certificates.

Ms.L.Gayathri, IV ECE delivered the vote of thanks.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON JAVA PROGRAMMING

COURSE MATERIAL

MATERIAL LINK:

CHAPTER1:https://blog.coursesity.com/best-javaprogramming-tutorials/

CHAPTER2:https://core-electronics.com.au/tutorials/java programming -workshop-for-beginners.html

CHAPTER3:https://www.classcentral.com/tag/javaprogramming

CHAPTER4:https://hackr.io/tutorials/learn-javaprogramming

CHAPTER5:https://www.coursera.org/learn/javaprogramming

FURTHER STUDY:

1.*Programming Java: Getting Started with Sketches (Tab) 2nd Edition, Kindle Edition by simon monk*
2. *Exploring JAVA 1st Edition by Jeremy Blum*
3. *Getting Started with java: The Open Source Electronics Prototyping Platform (Make) 3rd Edition by Massimo Banzi*
4. *Java Workshop: A Hands-On Introduction with 85 Projects 1st Editionby John Boxall*
5. *Beginning C for Java, Second Edition: Learn C Programming for the Java 2nd edition by Jack Purdum*

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr. K. S. Balaji - IV ECE has attended the Certificate Course on ***"JAVA PROGRAMMING"*** held from 08.01.18 to 12.01.18(5 days-35 Hours) during the academic year 2017-2018

HOD-ECE
Dr.A.Gopisaminathan

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
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PRINCIPAL
Dr.B.Maruthukannan

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CERTIFICATE OF COMPLETION

This is to certify that Ms.B.Jayasri, IV-ECE has attended the Certificate Course on ***"JAVA PROGRAMMING"*** held from 08.01.18 to 12.01.18(5 days-35 Hours) during the academic year 2017-2018

HOD-ECE

Dr.A.Gopisaminathan

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This is to certify that Ms.R.G.Divya, III ECE has attended the Certificate Course on ***"JAVA PROGRAMMING"*** held from 08.01.18 to 12.01.18(5 days-35 Hours) during the academic year 2017-2018

HOD-ECE

Dr.A.Gopisaminathan

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CERTIFICATE OF COMPLETION

This is to certify that Ms. C. Nandhini, II-ECE has attended the Certificate Course on ***"JAVA PROGRAMMING"*** held from 08.01.18 to 12.01.18(5 days-35 Hours) during the academic year 2017-2018

HOD-ECE

Dr.A.Gopisaminathan

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL

Dr.B.Maruthukannan

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr. M. Saravanan, II ECE has attended the Certificate Course on ***"JAVA PROGRAMMING"*** held from 08.01.18 to 12.01.18(5 days-35 Hours) during the academic year 2017-2018

HOD-ECE
Dr.A.Gopisaminathan

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF ELETRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

INDEX

COURSE CODE &COURSE NAME: **17ECAO04-PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING**

ACADEMIC YEAR: **2017-2018** SEMESTER: **EVEN** DURATION: **33 HOURS**

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NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

PROGRAM COORDINATOR **HoD/ECE** **IQAC** **PRINCIPAL**

Head of the Department
Department of Electronics & Communication Engineering
NPR College of Engineering & Technology
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Coordinator - IQAC
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From

S.Sudhakar,

Assistant Professor,

Department of ECE,

NPR College of Engineering and Technology,

Natham.

To

The Principal,

NPR College of Engineering and Technology,

Natham.

Respected Sir,

Sub: Request for permission to conduct Add on for ECE students – Reg

We have planned to conduct Add on Course "PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING" to our students from 19.03.18 to 23.03.18 (5 Days) in our college premises. We proposed Mr.S.Sunil Kumar, Krystal Solutions India Pvt Ltd, as a resource person for this Add on course. Kindly permit us to conduct the same.

Thanking you,

Yours faithfully,

21/2/18

(S. SUDHAKAR)

Date: 26.02.2018

Place: Natham

Head of the Department
Department of Electronics & Communication Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION AND ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

RESOURCE PERSON PROFILE

Mr.S.Sunil Kumar
Krystal Solutions India Pvt Ltd,
Senior Solution Architect,
Bangalore.

SUMMARY

- 10+ years of professional experience in the area of Telecom nodes integration, operation and maintenance.
- Experience in Solution Design HLD, LLD, Acceptance Testing, Implementation support, Operation & Maintenance of Packet core nodes and NFVI (HDS and CEE)
- Ericsson Packet Core Professional Certifications(EPG,SGSN-MME and SAPC)
- Ericsson 5G core Associate certified
- Involved in 5G vEPC (vMMEndvEPG)cloud lab setup
- Hands on vEPC deployment in lab and production environment
- Experience in Ericsson Cloud Execution Environment (CEE)
- Knowledge in HDSArchitecture , RTE installation and CSU/SSU uprades
- Experience in LTE-EPC (MME, SGW & PGW) Rel 9.0 Networks.
- Experience with Ericsson EPG-M, GGSN-MPG, SGSN-MME MkVIII/MKVI+
- Experience in integration/Feature testing for EPC core (2G , 3G & 4G).

COLLEGE OF ENGG. & TECHNOLOGY NPR NATHAM

PROGRAM COORDINATOR

HoD/ECE

Head of the Department
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NPRCET/OFF/ECE/VAC/2017-2018 DATE: 02.03.2018

CIRCULAR

This is to inform that Department of Electronics and Communication Engineering has planned to conduct an Add on course on **"PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING"** for the students during the end of this EVEN semester 2017-2018.Interested students can enroll their name on or before 16.03.18

The details of the training program are given below.

COURSE NAME	:	PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING
RESOURCE PERSONS	:	1. Mr.S.SUNIL KUMAR
VENUE	:	NPRCET Seminar Hall
DATE & DURATION	:	19.03.18 to 23.03.18 & 33 Hours
PROGRAM COORDINATOR	:	Mr.S.SUDHAKAR, AP/ECE, NPRCET.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

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Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

NPR College of Engineering & Technology
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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Add on Course on PC Hardware Assembling and Trouble Shooting"

On 19th March, 2018

Venue: NPRCET Auditorium at 9.30 a.m.

Chief Guest

Mr.S.Sunil Kumar

Krystal Solutions India Pvt Ltd

Senior Solution Architect -CSI

Bangalore

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Electronics and Communication Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

NPR College of Engineering & Technology

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

17ECAO04-PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING -COURSE CONTENT

CHAPTER 1: INTRODUCTION ABOUT HARDWARE

Introduction to computer hardware-Components of mother boards & its types-ports- Slots, connectors, add on cards-Power supply units & Storage devices.

CHAPTER 2: HARDWARE AND MEMORY

Magnetic disc, RAM, ROM &PROM-EPROM, Floppy, CD Rom-CDRW and DVD-Virtual memory and Cache memory-Linear & Physical memory and video memory.

CHAPTER3: INPUT AND OUTPUT DEVICES

Input devices-keyboard, mouse-types of mouse-Joy stick, how input is taken in & given out, gaming device -Output devices- monitors-different types of monitors- Printers & its types-projectors

CHAPTER4: INTRODUCTION ABOUT TROUBLE SHOOTING

Introduction mother boards - Types of Ports- Slots, connectors, add on cards-Power supply units, and cabinet types.

CHAPTER5: HARDWARE TROUBLE SHOOTING

Printers, floppy drive and Microphone-Scanner, Network, Hardware failure-Testing, CMOS, CDROM and Hard disk drive-Monitor, Mother Board, Sound Card and Video Card, Tips.

CRITERIATO GET CERTIFICATE:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 50% marks in the Exam.

Prepared By: Mr.J.G.Sabarish, AP/ECE

Approved By,

HoD/ECE

Head of the Department
Department of Electronics & Communication Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

REGISTERED STUDENTS NAME LIST

S.NO.	REGISTER NUMBER	STUDENT NAME	YEAR
1	920814106010	ARJUN KUMAR T B	IV ECE
2	920814106011	AROCKIYA PRIYA J	IV ECE
3	920814106012	ARUN KUMAR T B	IV ECE
4	920814106013	ARUN SHANKAR R	IV ECE
5	920814106014	ASHIK AHAMED A	IV ECE
6	920814106015	ASHWITHA G	IV ECE
7	920814106016	BALAJI K S	IV ECE
8	920814106017	BALA MURUGAN N G	IV ECE
9	920814106018	BALASARASWATHI B	IV ECE
10	920814106019	BHAGYALAKSHMI R	IV ECE
11	920814106020	DEEPIKA A	IV ECE
12	920814106021	DEVIRAMAN K	IV ECE
13	920814106022	DHANASOWNDAR R M	IV ECE
14	920814106023	DHEENADHAYALAN S	IV ECE
15	920814106024	DIVYA PARVATHY B	IV ECE
16	920814106025	FATHIMA NACHIYAR D	IV ECE
17	920814106026	GAYATHRI L	IV ECE
18	920814106027	GAYATHRI P	IV ECE
19	920814106028	GOBI KRISHNAN R	IV ECE
20	920814106029	GOKILA M	IV ECE
21	920814106030	HARIKESH C	IV ECE
22	920814106032	HASAN ARAFATH S	IV ECE
23	920814106033	JAYARAM M	IV ECE
24	920814106034	JENCY PRIYA J	IV ECE
25	920814106035	JENNIFER J	IV ECE
26	920814106036	JEYARANI@ MONIKA D	IV ECE
27	920814106037	JEYASRI B	IV ECE
28	920814106038	KARTHICK P	IV ECE
29	920814106039	KARTHIKADEVI.B	IV ECE
30	920814106040	KARTHIKEYAN.G	IV ECE
31	920814106041	KATHIJA .M	IV ECE
32	920814106042	KATHIRVEL.S	IV ECE
33	920814106043	KOKILA.B	IV ECE
34	920814106044	LATHA MAHESWARI.T	IV ECE
35	920814106065	NAYANADHARA.J	IV ECE
36	920815106003	AJITH KUMAR.P	III ECE
37	920815106004	AMSAVALLI.P	III ECE
38	920815106005	ARCHANA.J	III ECE
39	920815106006	DARSHIKA.R	III ECE

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40	920815106007	DHANABAL.M	III ECE
41	920815106008	DIVYA.R.G	III ECE
42	920815106009	ELANCHEZHIAN.R	III ECE
43	920815106010	EVANGELIN SAROJINI.R	III ECE
44	920815106011	GAYATHRI.N	III ECE
45	920815106012	GNANA LAKSHMI.C	III ECE
46	920815106013	GOWSALYA.A	III ECE
47	920815106015	HAKKIM SAIT.A.T	III ECE
48	920815106016	HARISHASTHI KUMAR.G.R	III ECE
49	920815106017	HARITHA.D	III ECE
50	920815106018	INFANTA.J	III ECE
51	920815106022	JANANI DEVI.C	III ECE
52	920815106023	JAYASRI.K	III ECE
`53	920815106024	JEYASRI.P	III ECE
54	920815106025	KALAI SELVI.V	III ECE
55	920815106026	KARTHICKEYAPANDIYAN.P	III ECE
56	920815106027	KAVIYASREE.AL	III ECE
57	920815106028	MANJULA.K	III ECE
58	920816106002	ARAVIND KUMAR J	II ECE
59	920816106006	DESOUZA DASMIN R	II ECE
60	920816106007	HANNAHASEENA.P	II ECE
61	920816106008	HEMALATHA R	II ECE
62	920816106009	HEMA MALINI A	II ECE
63	920816106010	HEMAVATHI L	II ECE
64	920816106012	JANAKIRAMAN J.R	II ECE
65	920816106013	JANANI S	II ECE
66	920816106014	KEERTHANA P	II ECE
67	920816106015	KESAVA PREM N	II ECE
68	920816106016	KISHORE RAJ M	II ECE
69	920816106017	LAKSHMI PREYA R	II ECE
70	920816106018	MANI KANDAN B	II ECE
71	920816106019	MEENAKSHI R	II ECE
72	920816106020	MOSES MELWIN RAJ S J	II ECE
73	920816106021	NANDHINI C	II ECE

PROGRAM COORDINATOR

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

HoD/ECE

Head of the Department
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

COURSE SCHEDULE

Venue: NPRCET Seminar Hall **Date: 16.03.18**

EXTERNAL RESOURCE PERSON:
1. Mr.S.Sunil Kumar

INTERNAL RESOURCE PERSON:
1.Mr.K.Jeyaprakasam
2.Mr.J.G.Sabarish

Day 1 19.03.18	9.30 a.m.to 10.00 a.m.	**Inauguration**	
	10. 00 a.m. to 11.10 a.m.	Session 1	Introduction to computer hardware **Mr.S.Sunil kumar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 a.m.	Session 2	Components of mother boards & its types-ports **Mr.K.Jeyaprakasam**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to 3.40 p.m.	Session 3	Slots, connectors, add on cards **Mr.J.G.Sabarish**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Power supply units & Storage devices. **Mr.S.Sunil kumar**

Day 2 20.03.18	9.30 a.m.to 11.10 a.m.	Session 1	Magnetic disc, RAM ,ROM &PROM **Mr.J.G.Sabarish**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 p.m.	Session 2	EPROM, Floppy, CD Rom, CDRW and DVD **Mr.K.Jeyaprakasam**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Virtual memory and Cache memory **Mr.S.Sunil kumar**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Linear & Physical memory and video memory. **Mr.S.Sunil kumar**

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Day 3 21.03.18	9.30 a.m.to 11.10 a.m.	Session 1	Input devices-keyboard, mouse, types of mouse **Mr.S.Sunil kumar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 p.m.	Session 2	Joy stick, how input is taken in & given out, gaming device **Mr.S.Sunil kumar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Output devices- monitors-different types of monitors **Mr.J.G.Sabarish**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Printers & its types, projectors **Mr.K.Jeyaprakasam**

Day 4 22.03.18	9.30 a.m.to 11.10 a.m.	Session 1	Introduction mother boards **Mr.S.Sunil kumar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 p.m.	Session 2	Types of Ports **Mr.S.Sunil kumar**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Slots, connectors, add on cards **Mr.J.G.Sabarish**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Power supply units, and cabinet types. **Mr.K.Jeyaprakasam**

Day 5 23.03.18	9.30 a.m.to 11.10 a.m.	Session 1	Printers, floppy drive and Microphone **Mr.S.Sunil kumar**
	11.10 a.m. to 11.30 a.m.	*Tea Break*	
	11.30 a.m. to 1.10 p.m.	Session 2	Scanner, Network, Hardware failure **Mr.K.Jeyaprakasam**
	1.10 p.m. to 2.00 p.m.	*Lunch Break*	
	2.00 p.m. to3.40 p.m.	Session 3	Testing, CMOS, CDROM and Hard disk drive **Mr.J.G.Sabarish**
	3.40 p.m. to 3.50 p.m.	*Tea Break*	
	3.50 p.m. to 4.30 p.m.	Session 4	Monitor, Mother Board, Sound Card and Video Card, Tips. **Mr.S.Sunil kumar**
	4.30 p.m. to 5.00 p.m.	**Valedictory**	

NPR COLLEGE OF ENGG & TECHNOLOGY * NATHAM

PROGRAM COORDINATOR **HoD/ECE** **IQAC** **PRINCIPAL**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

STUDENT ATTENDANCE

SL. No	Register Number	Student Name	Year	19.03.18		20.03.18		21.03.18		22.03.18		23.03.18	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	17ECAO04001	ARJUN KUMAR T B	IV ECE	P	P	P	P	P	P	P	P	P	P
2	17ECAO04002	AROCKIYA PRIYA J	IV ECE	P	P	P	P	P	P	P	P	P	P
3	17ECAO04003	ARUN KUMAR T B	IV ECE	P	P	P	P	P	P	P	P	P	P
4	17ECAO04004	ARUN SHANKAR R	IV ECE	P	P	P	P	P	P	P	P	P	P
5	17ECAO04005	ASHIK AHAMED A	IV ECE	P	P	P	P	A	A	P	P	P	P
6	17ECAO04006	ASHWITHA G	IV ECE	P	P	P	P	P	P	P	P	P	P
7	17ECAO04007	BALAJI K S	IV ECE	P	P	P	P	P	P	P	P	P	P
8	17ECAO04008	BALA MURUGAN N G	IV ECE	P	P	P	P	P	P	P	P	P	P
9	17ECAO04009	BALASARASWATHI B	IV ECE	P	P	P	P	P	P	P	P	P	P
10	17ECAO04010	BHAGYALAKSHMI R	IV ECE	P	P	P	P	P	P	P	P	P	P
11	17ECAO04011	DEEPIKA A	IV ECE	P	P	P	P	P	P	P	P	P	P
12	17ECAO04012	DEVIRAMAN K	IV ECE	P	P	P	P	P	P	P	P	P	P
13	17ECAO04013	DHANASOWNDAR R M	IV ECE	P	P	P	P	P	P	P	P	P	P
14	17ECAO04014	DHEENADHAYALAN S	IV ECE	P	P	P	P	P	P	P	P	P	P
15	17ECAO04015	DIVYA PARVATHY B	IV ECE	P	P	P	P	P	P	P	P	P	P
16	17ECAO04016	FATHIMA NACHIYAR D	IV ECE	A	A	P	P	P	P	P	P	P	P
17	17ECAO04017	GAYATHRI L	IV ECE	P	P	P	P	P	P	P	P	P	P
18	17ECAO04018	GAYATHRI P	IV ECE	P	P	P	P	P	P	P	P	P	P
19	17ECAO04019	GOBI KRISHNAN R	IV ECE	P	P	P	P	P	P	P	P	P	P
20	17ECAO04020	GOKILA M	IV ECE	P	P	P	P	P	P	P	P	P	P
21	17ECAO04021	HARIKESH C	IV ECE	P	P	P	P	P	P	P	P	P	P
22	17ECAO04022	HASAN ARAFATH S	IV ECE	P	P	P	P	P	P	P	P	P	P
23	17ECAO04023	JAYARAM M	IV ECE	P	P	P	P	P	P	P	P	P	P
24	17ECAO04024	JENCY PRIYA J	IV ECE	P	P	P	P	P	P	P	P	P	P
25	17ECAO04025	JENNIFER J	IV ECE	P	P	P	P	P	P	P	P	P	P
26	17ECAO04026	JEYARANI@ MONIKA D	IV ECE	P	P	P	P	P	P	P	P	P	P
27	17ECAO04027	JEYASRI B	IV ECE	P	P	P	P	P	P	P	P	P	P
28	17ECAO04028	KARTHICK P	IV ECE	P	P	P	P	P	P	P	P	P	P
29	17ECAO04029	KARTHIKADEVI.B	IV ECE	P	P	P	P	P	P	P	P	P	P
30	17ECAO04030	KARTHIKEYAN.G	IV ECE	P	P	P	P	P	P	P	P	P	P
31	17ECAO04031	KATHIJA .M	IV ECE	P	P	P	P	P	P	P	P	P	P
32	17ECAO04032	KATHIRVEL.S	IV ECE	P	P	P	P	P	P	P	P	P	P
33	17ECAO04033	KOKILA.B	IV ECE	P	P	P	P	P	P	P	P	P	P
34	17ECAO04034	LATHA MAHESWARI.T	IV ECE	P	P	P	P	P	P	P	P	P	P
35	17ECAO04035	NAYANADHARA.J	IV ECE	P	P	P	P	P	P	P	P	P	P
36	17ECAO04036	AJITH KUMAR.P	III ECE	P	P	P	P	P	P	P	P	P	P
37	17ECAO04037	AMSAVALLI.P	III ECE	P	P	P	P	P	P	P	P	P	P
38	17ECAO04038	ARCHANA.J	III ECE	P	P	P	P	P	P	P	P	P	P
39	17ECAO04039	DARSHIKA.R	III ECE	P	P	P	P	P	P	P	P	P	P
40	17ECAO04040	DHANABAL.M	III ECE	P	P	P	P	P	P	P	P	P	P

NPR College of Engineering & Technology

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41	17ECAO04041	DIVYA.R.G	III ECE	/	/	/	/	/	/	/	/	/	/		
42	17ECAO04042	ELANCHEZHIAN.R	III ECE	/	/	/	/	/	/	/	/	/	/		
43	17ECAO04043	EVANGELIN SAROJINI.R	III ECE	/	/	/	/	/	/	/	/	/	/		
44	17ECAO04044	GAYATHRI.N	III ECE	/	/	/	/	/	/	/	/	/	/		
45	17ECAO04045	GNANA LAKSHMI.C	III ECE	/	/	/	/	/	/	/	/	/	/		
46	17ECAO04046	GOWSALYA.A	III ECE	/	/	/	/	/	/	/	/	/	/		
47	17ECAO04047	HAKKIM SAIT.A.T	III ECE	/	/	/	/	/	/	/	/	/	/		
48	17ECAO04048	HARISHASTHI KUMAR.G.R	III ECE	/	/	/	/	/	/	/	/	/	/		
49	17ECAO04049	HARITHA.D	III ECE	/	/	/	/	/	/	/	/	/	/		
50	17ECAO04050	INFANTA.J	III ECE	/	/	/	/	/	/	/	/	/	/		
51	17ECAO04051	JANANI DEVI.C	III ECE	/	/	/	/	/	/	/	/	/	/		
52	17ECAO04052	JAYASRI.K	III ECE	/	/	/	/	/	/	/	/	/	/		
53	17ECAO04053	JEYASRI.P	III ECE	/	/	/	/	/	/	/	/	/	/		
54	17ECAO04054	KALAI SELVI.V	III ECE	/	/	/	/	/	/	/	/	/	/		
55	17ECAO04055	KARTHICKEYAPANDIYAN.P	III ECE	/	/	/	/	/	/	/	/	/	/		
56	17ECAO04056	KAVIYASREE.AL	III ECE	/	/	/	/	/	/	/	/	/	/		
57	17ECAO04057	MANJULA.K	III ECE	/	/	/	/	/	/	/	/	/	/		
58	17ECAO04058	ARAVIND KUMAR J	II ECE	/	/	/	/	/	/	/	/	/	/		
59	17ECAO04059	DESOUZA DASMIN R	II ECE	/	/	/	/	/	/	/	/	/	/		
60	17ECAO04060	HANNAHASEENA.P	II ECE	/	/	/	/	/	/	/	/	/	/		
61	17ECAO04061	HEMALATHA R	II ECE	/	/	/	/	/	/	/	/	/	/		
62	17ECAO04062	HEMA MALINI A	II ECE	/	/	/	/	/	/	/	/	/	/		
63	17ECAO04063	HEMAVATHI L	II ECE	/	/	/	/	/	/	/	/	/	/		
64	17ECAO04064	JANAKIRAMAN J.R	II ECE	/	/	/	/	/	/	/	/	/	/		
65	17ECAO04065	JANANI S	II ECE	/	/	/	/	/	/	/	/	/	/		
66	17ECAO04066	KEERTHANA P	II ECE	/	/	/	/	/	/	/	/	/	/		
67	17ECAO04067	KESAVA PREM N	II ECE	A	A	/	/	/	/	/	/	/	/		
68	17ECAO04068	KISHORE RAJ M	II ECE	/	/	/	/	/	/	/	/	/	/		
69	17ECAO04069	LAKSHMI PREYA R	II ECE	/	/	/	/	/	/	/	/	/	/		
70	17ECAO04070	MANI KANDAN B	II ECE	/	/	/	/	/	/	/	/	/	/		
71	17ECAO04071	MEENAKSHI R	II ECE	/	/	/	/	/	/	/	/	/	/		
72	17ECAO04072	MOSES MELWIN RAJ S J	II ECE	/	/	/	/	/	/	/	/	/	A	A	
73	17ECAO04073	NANDHINI C	II ECE	/	/	/	/	/	/	/	/	/	/		
			PRESENT	72	72	73	73	72	72	73	73	72	72		
			ABSENT	01	01	-	-	01	01		-	01	01		
			COORDINATOR SIGNATURE												

PROGRAM COORDINATOR

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

17ECAO04-PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

QUIZ QUESTION PAPER & ANSWER

1. Line Printers that print one line at a time are _____
a) Laser Printers
b) Inkjet Printers
c) Drum Printers
d) Chain Printers
Answer: c

2. A _____ monitor looks like a television and are normally used with non-portable computer systems.
a) CRT
b) LCD
c) LED
d) Flat Panel Monitors
Answer: a

3. Which of the following is not a function of the Output Unit?
a) It produces results that can be easily understood by the user
b) It accepts the results produced by the computer
c) It supplies the data and instructions to the outside world
d) It supplies the data and instructions to the computer for further processing
Answer: d

4. PCI stands for _____
a) Peripheral Component Interconnect
b) Partial Component Interconnect
c) Peripheral Component Interaction
d) Partial Component Interaction
Answer: a

5. Components that provide internal storage to the CPU are _____
a) Registers
b) Program Counters
c) Controllers
d) Internal chips
Answer: a

6. Which of the following is used to hold running program instructions?
a) Primary Storage
b) Virtual Storage
c) Internal Storage
d) Minor Devices
Answer: a

7.Which of the following is non-volatile storage?
a) Backup
b) Secondary
c) Primary
d) Cache
Answer: b

8. Which of the following is used in main memory?
a) SRAM
b) DRAM
c) PRAM
d) DDR
Answer: b

9. Which of the following are types of ROMs?
a) SROM & DROM
b) PROM & EPROM
c) Only one type there is no further classification
d) PROM & EROM
Answer: b

10 RAID stands for _____
a) Redundant array of independent disks
b) Redundant array of individual disks
c) Reusable Array of independent disks
d) Reusable array of individual disks
Answer: a

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

STUDENT FEEDBACK

Name of the Student : K.S. BALAJI	**Year / Semester:** IV / 08th
Name of the Program: PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	It is really helpful to gain our knowledge			

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ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

STUDENT FEEDBACK

Name of the Student : Divya.R.G	**Year / Semester:** III / 06
Name of the Program: PC hardware assembling and trouble shooting	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person	✓			
5.	Time Management		✓		
6.	Overall rating of this course		✓		
7.	Any Other Comments / Suggestions	It improve our knowledge to do our project.			

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

STUDENT FEEDBACK

Name of the Student : C. Nandhini	**Year / Semester:** II – 04
Name of the Program: PC Hardware Assembling and Trouble shooting	

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person				
5.	Time Management	✓			
6.	Overall rating of this course		✓		
7.	Any Other Comments / Suggestions	It is really helpful to update our knowledge.			

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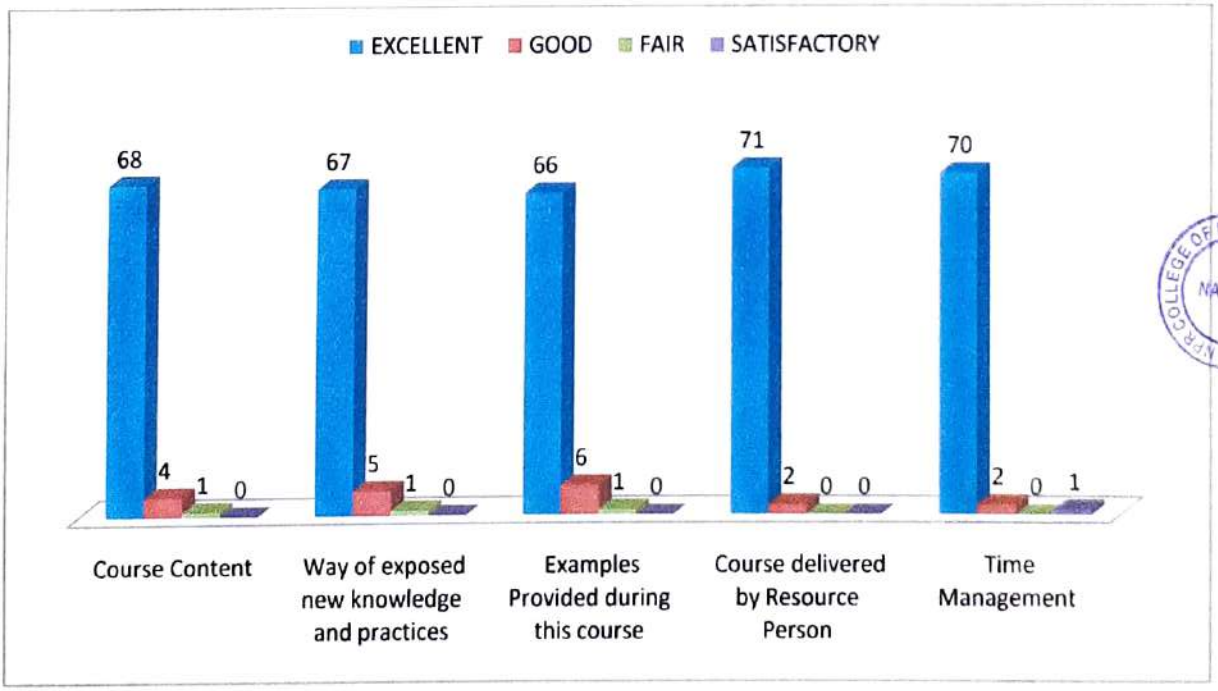
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

STUDENT FEEDBACK SUMMARY REPORT

TOTAL STRENGTH: 73 **DATE: 23.03.18**

S.NO.	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	68	4	1	0
2.	Way of exposed new knowledge and practices	67	5	1	0
3.	Examples Provided during this course	66	6	1	0
4.	Course delivered by Resource Person	71	2	0	0
5.	Time Management	70	2	0	1
6.	Average	68.4	3.8	0.6	0.2



PROGRAM COORDINATOR **HoD/ECE** **PRINCIPAL**

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ADD ON COURSE ON PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING

SUMMARY REPORT

The Department of Electronics and Communication Engineering organized Add on Course program**"PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING"** from 19.03.18 to 23.03.18 (5 Days) at NPRCET Seminar hall.

Ms. A.Deepika, IV ECE delivered the welcome address.

Dr.B.Maruthu Kannan, Principal of our college inaugurated the program and delivered the inaugural address. Resources Person Mr.S.Sunil Kumar shared their knowledge with our students. This course taught the fundamentals principle of computer hardware and software as well as assemble a computer system, install an operating system, and troubleshoot.

73 Students attended from ECE II, III and IV years. Students who participated and successfully completed the Quiz program has awarded with certificates.

Ms. C.Nandhini, II ECE delivered vote of thanks.

PROGRAM COORDINATOR **HoD/ECE** **PRINCIPAL**

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COURSE MATERIAL

MATERIAL LINK:

CHAPTER1-1.https://www.digitroniklabs.com/blog/using-Hardware-systems
CHAPTER-2:https://www.elprocus.com/real-time-applications-of- PC -systems/
CHAPTER-3:http://industrial. Trouble Shoot -computing.com/
CHAPTER-4:https://ipcsautomation.com/blog-post/ Hardware -system-in-automation/
CHAPTER-5:http://www.uninova.pt/sies2007/SIES2007_RZ_plenary_Lisbon_v1.pdf

FURTHER STUDY:

1. Hardware System Design Introduction to SoC System Architecture (Kindle Edition)by Mohit Arora

2.Real-Time Software Design for Hardware ystems (Kindle Edition) by Hassan Gomaa

3. Hardware Learning Dictionary (Kindle Edition) byJack Ganssle

4. Hardware Learning Software Development with C International Edition (Kindle Edition) by Kai, Qian Haring D.D. Et.Al

5. Troubleshoot sytems with the Yocto Project (Kindle Edition)by Rudolf Streif .

PROGRAM COORDINATOR HoD/ECE PRINCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr. Arun Kumar. B IV-ECE has attended the Add on Course on ***"PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING"*** held from 19.03.18 to 23.03.18 (5days-33 Hours) during the academic year 2017-2018

HOD-ECE
Dr.A.Gopisaminathan

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
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PRINCIPAL
Dr.B.Maruthukannan

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ms Sowitha .G IV - ECE has attended the Add on Course on ***"PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING"*** held from 19.03.18 to 23.03.18 (5days-33 Hours) during the academic year 2017-2018

HOD-ECE
Dr.A.Gopisaminathan

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
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PRINCIPAL
Dr.B.Maruthukannan

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr. Ajith Kumar. P III ECE has attended the Add on Course on ***"PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING"*** held from 19.03.18 to 23.03.18 (5days-33 Hours) during the academic year 2017-2018

HOD-ECE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Ms. Dharshika. R III ECE has attended the Add on Course on ***"PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING"*** held from 19.03.18 to 23.03.18 (5days-33 Hours) during the academic year 2017-2018

HOD-ECE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr. Aravind Kumar. J. II ECE has attended the Add on Course on ***"PC HARDWARE ASSEMBLING AND TROUBLE SHOOTING"*** held from 19.03.18 to 23.03.18 (5days-33 Hours) during the academic year 2017-2018

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PRINCIPAL
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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE

INDEX

COURSE CODE &NAME: **17MECC01- SMITHY OPERATIONS**

ACADEMIC YEAR: 2017-2018 YEAR/SEMESTER: II / III DURATION: 30 HOURS

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PROGRAM COORDINATOR **HoD/MECH** **IQAC** **PRINCIPAL**

S SURESH KUMAR

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Coordinator - IQAC
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PERMISSION LETTER

From:

S.Suresh Kumar, AP/MECH,

Program Coordinator,

NPR College of Engineering &Technology,

Natham.

To

The Principal,

NPR College of Engineering & Technology,

Natham.

Respected Sir,

Sub: Request for permission to conduct Certificate course program for MECH II-year students – Regarding

We have planned to conduct Certificate course program on **"SMITHY OPERATIONS"** to our students from 11/07/2017 to 11/08/2017 (30 Days) at 4.30 p.m. to 6.00 p.m. in our college premises. We are proposed **Mr.A.SELVA KUMARAN,** Managing Director, Prism Furn Tech, Dindigul as a resource person for this Certificate course program. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully,

Date : 03.07.2017

Place : Natham

Approved

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NPR College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Phone No: 04544- 246 500, 246501, 246502
Website : www.nprcolleges.org, www.nprcet.org, Email:nprcetprincipal@nprcolleges.org

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

RESOURCE PERSONS PROFILE

Name	:	Mr.A.Selva Kumaran
Designation	:	Managing Director
Company Name	:	PRISM FURN TECH, Dindigul.
About Resource Person	:	**Mr.A.Selva Kumaran** is currently working as Managing Director in Prism Furn Tech, Dindigul. He has completed his B.E (Mech) M.E in Sethu Institute of Technology,Madurai .He has more than 10 years Experienced in various smithy operations base company. He has Technical and Administrative skills with a demonstrated history of working in the die casting industries.
Name	:	Mr.K.Saravana Kumar
Designation	:	Assistant Engineer, Prism Furn Tech, Dindigul
Company Name	:	PRISM FURN TECH, Dindigul.
Company Name	:	Mr.K.Saravana Kumar currently working as Assistant Engineer in Prism Furn Tech,Dindigul. He has completed his DME (Tool & Die) in Govt.Institute of tool Engineering, Dindigul and also he completed his B.E in PSY Engineering College, Sivagangai .He has more than 10 years' Experience in in press tool and plastic moulding design. He has Technical and Administrative skills with a demonstrated history of working in the die casting industry.

PROGRAM COORDINATOR
(S SURESH KUMAR)

HoD/MECH

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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NPRCET/OFF/MECH/VAC/2017-2018 DATE: 03.07.2017

CIRCULAR

This is to inform that Department of Mechanical Engineering is planned to conduct a Certificate course program on **"SMITHY OPERATIONS"** for the students during this period of 11/07/2017 to 08/08/2017 (20 Days) 2017-2018. Interested students can enroll their name to the program coordinator on or before 07.07.2017.

The details of the training program are given below.

COURSE NAME	:	**17MECC01- SMITHY OPERATIONS**
RESOURCE PERSONS	:	1.Mr.A.Selva Kumaran , Managing Director, PRISM FURN TECH, Dindigul.
		2. Mr.K.Saravana Kumar, Assistant Engineer, PRISM FURN TECH, Dindigul
VENUE	:	MBA Seminar Hall
DATE & DURATION	:	11/07/2017 to 11/08/2017 & 30 Hours
TIME	:	4.30 p.m. to 6.00 p.m.
PROGRAM COORDINATOR	:	1.Mr.S.Suresh Kumar, AP/MECH, NPRCET, 2.Mr.M.Vimal Chanth,AP/MECH,NPRCET.

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Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Certificate Course on SMITHY OPERATIONS"

Date and Time	11/07/2017 & 3.30 p.m.
Venue	MBA Seminar Hall

Agenda

- Prayer Song
- Welcome Address : Mr. S.Parthasarathy , II MECH
- Felicitation Address : Dr.B.Maruthu Kannan, Principal, NPRCET.
- Presidential Address : Dr.K.K.Shyam Umasankar, Executive Director, NPRGI.
- Chief Guest Address : Mr.A.Selva kumaran, Managing Director, PRISM FURN TECH, Dindigul.
- Vote of Thanks : Mr.K.Krishnaraj, II MECH

Organized By

Department of Mechanical Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

COLLEGE OF ENGG & TECHNOLOGY NATHAM

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

17MECC01- SMITHY OPERATIONS - COURSE CONTENT

Week-1-Chapter 1:

THE BENCH WORK TOOLS AND ITS USES

- Introduction- Filter's vices- Bench vice- Surface Plate- 'V' –Block- Simple Scribing Block- Universal Surface Gauge- Try Square- Bevel Gauge- Files- Scrapers- Chisels- Hammers- Hack-Saw.

Week-2-Chapter 2:

THE BENCH WORK TOOLS, ITS USES AND PROCESSES

- Miscellaneous Tools- Punch- Calipers- Screw Drivers- Drills- Taps- Dies and stocks- Bench Work Processes- Marking- Chipping- Sawing- Filing- Draw filing

Week-3-Chapter 3:

SMITHY AND FORGING TOOLS AND EQUIPMENT

- Introduction- Principal Tools and Other Equipments Used in Hand Forging- Smith's forge or hearth- Anvil- Hammer- Swage block- Tongs- Chisels- Punches- Flatters- Set hammer- Fullers- Swages.

Week-4-Chapter 4:

SMITHY AND FORGING OPERATION

- Fuels Used in Furnaces- Forging Materials- Forging Temperatures- Forging Operations- Upsetting or Jumping- Drawing out- Cutting- Bending- Punching and drifting- Setting down- Forging Processes- Smith die forging- Impression die forging

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 50% marks in the Exam

Prepared By: S.Suresh Kumar, AP/MECH

Approved By:

NATHAM

HoD/MECH
Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401

IQAC
Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

REGISTERED STUDENTS NAME LIST

S. No.	Register Number	Student Name	Year
1	920816114040	NITHISHKUMAR P	II MECH
2	920816114041	PARTHASARATHY S	II MECH
3	920816114042	POOVALINGAM M	II MECH
4	920816114050	RAVI KUMAR P	II MECH
5	920816114051	SAHAYA INBARAJ A	II MECH
6	920816114052	SANTHOSH PANDY T	II MECH
7	920816114055	SATHYA PRAKASH K	II MECH
8	920816114062	SIVA KUMAR R	II MECH
9	920816114063	SURENDRAN S	II MECH
10	920816114064	THAMARAI KANNAN P	II MECH
11	920816114065	UDHAYA PRAKASH M	II MECH
12	920816114072	VIVEK BHARATHI G	II MECH
13	920816114073	YOGESHWARAN A	II MECH
14	920816114323	SATHISH KUMAR S	II MECH
15	920816114324	SIVA K	II MECH
16	920816114330	B VIJAY	II MECH
17	920816114501	GOKUL NATH S	II MECH
18	920816114004	AJITH KUMAR .M	II MECH
19	920816114008	BAKKEERMAIDEEN .Y	II MECH
20	920816114009	BAKYANATH .B	II MECH
21	920816114013	GANESH KUMAR .S	II MECH
22	920816114029	MANICKA PANDI .S	II MECH
23	920816114030	MANOJ KUMAR .K	II MECH
24	920816114033	MUJIBUR RAHMAN .S	II MECH
25	920816114304	ARUNPANDIAN.M	II MECH
26	920816114305	BALAJI.E	II MECH
27	920816114306	BALAJI.K	II MECH
28	920816114309	IMMANNUAL VIKESHRAJ.V	II MECH
29	920816114313	KRISHNARAJ.K	II MECH
30	920816114701	RAMAN.S	II MECH

PROGRAM COORDINATOR

S. SURESH KUMAR

HoD/MECH

Head of the Department
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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

COURSE SCHEDULE

Venue: Epl Laboratary **Date: 11.07.2017**

Time: 4.30.p.m to 6.00.p.m

External Resource Persons:

1.Mr.A.Selva kumaran, Managing Director,
PRISM FURN TECH, Dindigul.

2. Mr.K.Saravana Kumar, Assistant Engineer,
PRISM FURN TECH, Dindigul.

Internal Resource Persons:

1.Mr.S.Suresh Kumar,
AP/MECH, NPRCET.

2. Mr.M.Vimal Chanth,
AP/MECH, NPRCET.

S. No.	Date	Syllabus	Resource Person	Hours
1	11/07/2017	THE BENCH WORK TOOLS AND ITS USES Introduction- Filter's vices- Bench vice	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5
2	12/07/2017	Surface Plate- 'V' –Block- Simple Scribing Block	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech,	1.5
3	13/07/2017	Universal Surface Gauge- Try Square- Bevel Gauge- Files	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5
4	14/07/2017	Scrapers- Chisels- Hammers- Hack-Saw.	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech,	1.5
5	18/07/2017	THE BENCH WORK TOOLS, ITS USES AND PROCESSES Miscellaneous Tools- Punch	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5
6	19/07/2017	Calipers- Screw Drivers- Drills- Taps	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech,	1.5

7	20/07/2017	Dies and stocks- Bench Work Processes	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5
8	21/07/2017	Marking- Chipping	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech,	1.5
9	25/07/2017	Sawing- Filing- Draw filing	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5
10	26/07/2017	SMITHY AND FORGING TOOLS AND EQUIPMENT Introduction	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech,	1.5
11	27/07/2017	Principal Tools and Other Equipment's	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5
12	28/07/2017	Used in Hand Forging- Smith's forge or hearth	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech,	1.5
13	01/08/2017	Anvil- Hammer- Swage block- Tongs	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5
14	02/08/2017	Chisels- Punches- Flatters- Set hammer- Fullers- Swages	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech,	1.5
15	03/08/2017	SMITHY AND FORGING OPERATION Fuels Used in Furnaces- Forging	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5
16	04/08/2017	Forging Operations- Upsetting or Jumping- Drawing out- Cutting	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech,	1.5
17	08/08/2017	Bending- Punching and drifting-	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech,	1.5

NATHAM

18	09/08/2017	Setting down- Forging Processes	Mr.K.Saravana Kumar Assistant Engineer, Prism Furn Tech.	1.5
19	10/08/2017	Smith die forging-	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech.	1.5
20	11/08/2017	Impression die forging	Mr.A.Selva Kumaran Managing Director, Prism Furn Tech.	1.5
Total Hours				**30**

PROGRAM COORDINATOR
S. SURESH KUMAR

HoD/MECH

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Natham, Dindigul (DT) - 624 401.

Coordinator - IQAC
NPR College of Engineering & Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

ATTENDANCE SHEET

S. No	Reg. No	Student Name	Year	Date									
				27/8	28/8	1/8	2/8	3/8	4/8	8/8	10/8	11/8
1	17MECC01040	ABDUL RAHUMAN.A	II	/	/	/	/	/	/	/	/	/	/
2	17MECC01041	ABDUL RASHEED.G	II	/	/	/	/	/	/	/	/	/	/
3	17MECC01042	AJITHKUMAR.P.M	II	/	/	/	/	/	/	/	/	/	/
4	17MECC01050	ARAVIND.A	II	/	a	/	/	/	/	/	/	/	a
5	17MECC01051	ARAVINDHAN.S	II	/	/	/	/	/	/	/	/	/	/
6	17MECC01052	ARJUN.M	II	/	/	/	/	/	/	/	/	/	/
7	17MECC01055	BAGAVATHI RAJ.N	II	/	/	/	a	/	/	/	/	/	/
8	17MECC01062	BANUCHANDER.R	II	/	/	/	/	/	/	/	/	/	/
9	17MECC01063	BOOBALAN.N	II	/	/	/	/	/	/	/	/	/	/
10	17MECC01064	DANIELRAJ.R	II	/	/	/	/	/	/	/	/	/	/
11	17MECC01065	FRANCIS ROTRICKS.D	II	/	/	/	/	/	/	/	/	/	/
12	17MECC01072	GOKULARAVINDHAN.M	II	/	/	/	/	/	/	/	/	a	/
13	17MECC01073	GOPINATH.V	II	/	/	/	/	/	/	/	/	/	/
14	17MECC01323	JANARTHANAN.G	II	/	/	/	/	/	/	/	/	/	/
15	17MECC01324	JEGAN.S	II	/	/	/	/	a	/	/	/	/	/
16	17MECC01330	KARTHIKEYAN.K	II	/	/	/	/	/	/	/	/	/	/
17	17MECC01501	KARTHIKEYAN.R	II	/	/	/	/	/	/	/	/	/	/
18	17MECC01004	MANIKANDAN.G	II	/	a	/	/	/	/	/	/	/	/
19	17MECC01008	MANIKANDAN.M	II	/	/	/	/	/	/	/	/	/	/
20	17MECC01009	MANIKANDAN.S	II	/	/	/	/	/	/	/	/	/	/
21	17MECC01013	KARTHIK.A	II	/	/	/	/	/	/	/	a	/	/
22	17MECC01029	RANJITH KANNAN.R	II	/	/	/	/	/	/	/	/	/	/
23	17MECC01030	MOHAMEDAZARUDEEN.B	II	/	/	/	/	/	/	/	/	/	/
24	17MECC01033	PANDIARAJAN.S(H)	II	a	/	/	/	/	/	/	/	/	/
25	17MECC01304	PRADEEP.R	II	/	/	/	/	/	/	/	/	/	/
26	17MECC01305	SANTHOSH.M	II	/	/	/	/	/	/	/	/	/	/
27	17MECC01306	SARAVANAN.A(H)	II	/	/	/	/	/	/	/	/	/	/
28	17MECC01309	VEERAPATHRAN.R	II	/	/	/	/	/	/	/	/	/	/
29	17MECC01313	VENKATESH.R	II	/	/	/	/	/	/	/	/	/	/
30	17MECC01701	SABARI VIGNESH.P	II	/	/	/	a	/	/	/	/	a	/
PRESENT				29	28	30	28	29	30	30	29	28	29
ABSENT				1	2	0	2	1	0	0	1	2	1
SIGNATURE													

B. Vmur
HoD/MECH

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

ATTENDANCE SHEET

S. No	Reg. No	Student Name	Year	Date
1	17MECC01040	ABDUL RAHUMAN.A	II	
2	17MECC01041	ABDUL RASHEED.G	II	
3	17MECC01042	AJITHKUMAR.P.M	II	
4	17MECC01050	ARAVIND.A	II	
5	17MECC01051	ARAVINDHAN.S	II	
6	17MECC01052	ARJUN.M	II	
7	17MECC01055	BAGAVATHI RAJ.N	II	
8	17MECC01062	BANUCHANDER.R	II	
9	17MECC01063	BOOBALAN.N	II	
10	17MECC01064	DANIELRAJ.R	II	
11	17MECC01065	FRANCIS ROTRICKS.D	II	
12	17MECC01072	GOKULARAVINDHAN.M	II	
13	17MECC01073	GOPINATH.V	II	
14	17MECC01323	JANARTHANAN.G	II	
15	17MECC01324	JEGAN.S	II	
16	17MECC01330	KARTHIKEYAN.K	II	
17	17MECC01501	KARTHIKEYAN.R	II	
18	17MECC01004	MANIKANDAN.G	II	
19	17MECC01008	MANIKANDAN.M	II	
20	17MECC01009	MANIKANDAN.S	II	
21	17MECC01013	KARTHIK.A	II	
22	17MECC01029	RANJITH KANNAN.R	II	
23	17MECC01030	MOHAMEDAZARUDEEN.B	II	
24	17MECC01033	PANDIARAJAN.S(H)	II	
25	17MECC01304	PRADEEP.R	II	
26	17MECC01305	SANTHOSH.M	II	
27	17MECC01306	SARAVANAN.A(H)	II	
28	17MECC01309	VEERAPATHRAN.R	II	
29	17MECC01313	VENKATESH.R	II	
30	17MECC01701	SABARI VIGNESH.P	II	
PRESENT				26 26 29 28 26 29 27 27 28 26
ABSENT				2 4 1 2 4 1 3 3 2 4
SIGNATURE				

HoD/MECH

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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QUIZ QUESTION PAPER

1. In forging process, metals are shaped by _____
   a) impact
   b) cohesion
   c) tense
   d) none of the mentioned

2. Which method is considered as one of the oldest methods of giving required shapes to the metals ?
   a) casting
   b) forging
   c) forming
   d) none of the mentioned

3. Smithy forging can also be termed as open die forging.
   a) true
   b) false

4. Which of the following is the example of impact pressure forging ?
   a) striking a blow
   b) shaping by press
   c) all of the mentioned
   d) none of the mentioned

5. Cold forging is also known as simply forging.
   a) true
   b) false

6. Which type of forging is done by deforming the metal at room temperature?
   a) cold forging
   b) simply forging
   c) hot forging
   d) all of the mentioned

7. Hot forging is also known as simply forging.
   a) true
   b) false

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NATHAM

8. The upset type of forging makes increment in the diameter of the workpiece.
   a) true
   b) false
   . Which type of forging is done by blacksmith?
   a) hand forging
   b) machine forging
   c) both hand forging and machine forging
   d) none of the mentioned

9. For which purpose, hand forging is used?
   a) Maintenance work
   b) production of small articles tools
   c) repair work
   d) all of the mentioned

10. Cast iron is forgeable.
   a) true
   b) false

PROGRAM COORDINATOR
S. SURESH KUMAR

HoD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

STUDENT FEEDBACK

Name of the Student: S. PARTHASARATHY	**Year / Semester:** II / III
Name of the Program: Certificate course on Smithy operations	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content		✓		
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course			✓	
4.	Course delivered by Resource Person	✓		✓	
5.	Time Management	✓			
6.	Overall rating of this course		✓		
7.	Any Other Comments / Suggestions	—			

PROGRAM COORDINATOR
(S. SURESH KUMAR)

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

HoD/MECH
Head of the Department
Department of Mechanical Engineering
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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

STUDENT FEEDBACK

Name of the Student: R. SIVA KUMAR	**Year / Semester:** II / III
Name of the Program: Certificate course on Smithy operations	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content				✓
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person				✓
5.	Time Management		✓		
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	—			

PROGRAM COORDINATOR
S. SURESH KUMAR

HoD/MECH

Head of the Department
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Natham, Dindigul (DT) - 624 401.

NPR College of Engineering & Technology

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

STUDENT FEEDBACK

Name of the Student: BALAJI. K	**Year / Semester:** II / III
Name of the Program: Certificate course on Smithy operations	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices				✓
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person				
5.	Time Management	✓			
6.	Overall rating of this course			✓	
7.	Any Other Comments / Suggestions	—			

PROGRAM COORDINATOR
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DEPARTMENT OF MECHANICALENGINEERING

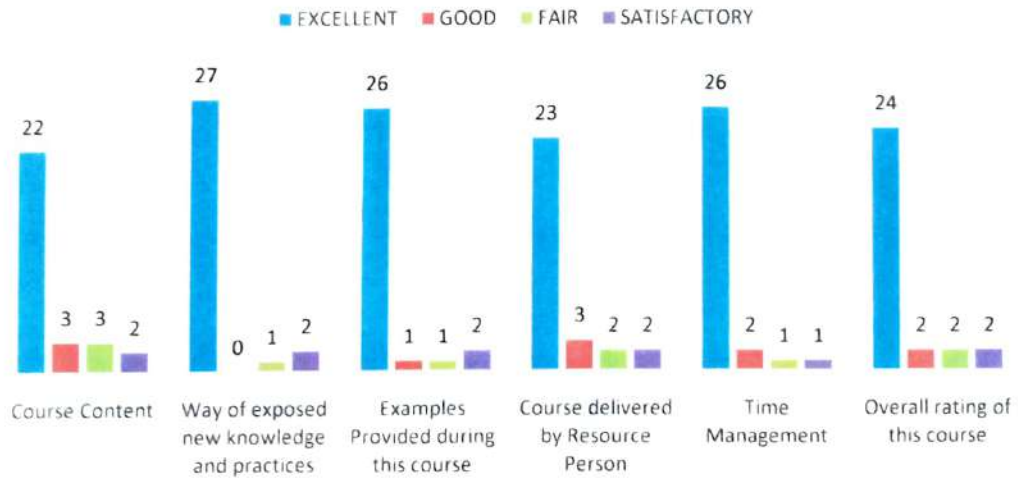
CERTIFICATECOURSE ON SMITHY OPERATIONS

STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 30 **DATE: 11.08.2015**

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	22	3	3	2
2.	Way of exposed new knowledge and practices	27	0	1	2
3.	Examples Provided during this course	26	1	1	2
4.	Course delivered by Resource Person	23	3	2	2
5.	Time Management	26	2	1	1
6.	Overall rating of this course	24	2	2	2
	Average	24.67	1.83	1.67	1.83

CERTIFICATECOURSE ON SMITHY OPERATIONS



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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

SUMMARY REPORT

The Department of Mechanical Engineering organized Add-On Course On program **"SMITHY OPERATIONS"** from 11.07.2017 to 11.08.201 (30 Days) at Engineering Practice Laboratory.

Mr. S.Parthasarathy ,II MECH has delivered welcome address.

Dr.B.Maruthukannan, Vice-Principal of our college inaugurated the program delivered the inaugural address. Resources person Mr.A.Selva Kumaran,Managing Director,Prism furn Tech Dindigul has shared their knowledge with our students. This twenty days course gives over view about Smithy Operations.

They also shared their knowledge of the smithy operations with software .So that students enable to have skills that will help them to resolve complex real world problems in Smith forging field.

The students learnt various existing and emerging technologies of manufacturing sector.

30 Students were attended from Mechanical Engineering second year. Students those participated and successfully completed the Quiz program has awarded with certificates.

Mr.K.Krishnaraj, II MECH was delivered vote of thanks address.

PROGRAM COORDINATOR
(S. SURESH KUMAR)

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE COURSE ON SMITHY OPERATIONS

COURSE MATERIAL

Material Link:

Chapter 1: https://nptel.ac.in/courses/103/103/103103155/

Chapter:2.https://nptel.ac.in/courses/112/104/112104195/

Chapter:3https://www.youtube.com/watch?v=4PyKeFGjHOE

Chapter 4: https://nptel.ac.in/courses/112/104/112104172/#

Further Study:

1. Hajra Chouldhary S.K and Hajra Choudhury, AK., "Elements of workshop Technology", volume I and II, Media promoters and Publishers Private Limited, Mumbai, 1997
2. Kalpakjian, S, "Manufacturing Engineering and Technology", Pearson Education India Edition, 2006
3. Gowri P. Hariharan, A.Suresh Babu, "Manufacturing Technology I", Pearson Education, 2008
4. Roy, A. Lindberg, "Processes and Materials of Manufacture", PHI / Pearson education, 2006
5. Paul Degarma E, Black J.T and Ronald A. Kosher, "Materials and Processes, in Manufacturing" Eight Edition, Prentice – Hall of India, 1997.
6. Sharma, P.C., "A Text book of production Technology", S.Chand and Co. Ltd., 2004.
7. Rao, P.N, "Manufacturing Technology Foundry, Forming and Welding", 2ndEdition, TMH-2003: 2003

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NPR COLLEGE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF MECHANICAL ENGINEERING

"CERTIFICATE COURSE ON SMITHY OPERATIONS"

Certificate of participation

This is to certify that Mr.SIVAKUMAR.R ---------- of II Year Mechanical Engineering has attended the 30 days course on **SMITHY OPERATIONS** organised by Department of Mechanical Engineering from 11th JULY 2017 to 11.08.2017.

B. Vasu
HOD/MECH

COLLEGE OF ENGG & TECHNOLOGY NATHAM NPR

Dr. J...

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B. Vasu
HOD/MECH

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RAJAN, M.E., M.Tech., Ph.D.,
PRINCIPAL

Principal
N.P.R. College of Engineering & Technology
Natham

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Certificate of participation

This is to certify that MY. SIVA. K of II Year Mechanical Engineering has attended the 30 days course on **SMITHY OPERATIONS** organised by Department of Mechanical Engineering from 11th JULY 2017 to 11.08.2017.

B. Vasu
HOD/MECH

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF MECHANICAL ENGINEERING

"CERTIFICATE COURSE ON SMITHY OPERATIONS"

Certificate of participation

This is to certify that Mr. VIJAY.B ---------- of II Year Mechanical Engineering has attended the 30 days course on **SMITHY OPERATIONS** organised by Department of Mechanical Engineering from 11th JULY 2017 to 11.08.2017.

B.V
HOD/MECH

NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

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Principal
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DEPARTMENT OF MECHANICAL ENGINEERING

"CERTIFICATE COURSE ON SMITHY OPERATIONS"

Certificate of participation

This is to certify that --- MR. RAMAN.S --- of II Year Mechanical Engineering has attended the 30 days course on **SMITHY OPERATIONS** organised by Department of Mechanical Engineering from 11th JULY 2017 to 11.08.2017.

B. Vasu

HOD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

INDEX

COURSE NAME: **17MEAO01 REFRIGERATION MECHANISM**

ACADEMIC YEAR: 2017-2018 SEMESTER: ODD DURATION: 45HOURS

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PROGRAM COORDINATOR

G. Sundararaju
AP - Mech

HoD-MECH

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IQAC

Coordinator - IQAC
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

PERMISSION LETTER

From

G.Sundararajan,

Assistant Professor,

Department of Mechanical Engineering,

NPR College of Engineering & Technology,

Natham.

To

The Principal,

NPR College of Engineering and Technology,

Natham.

Respected Sir,

Sub: Request for permission to conduct Add on course program for Mechanical Engineering Third and final year students -reg

We have planned to conduct Add on course program on **"REFRIGERATION MECHANISM"** to our Third and Final year mechanical engineering students from 11.07.2017 to 21.08.2017(30 Days) at 4.30 p.m. to 6.00 p.m. in our college premises. We are proposed **Mr. V. Raja, R & A/C Mechanic** as a resource person for this Add on course program. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully,

G. Sundar

(G. SUNDARARAJAN)

Place: Natham

Date: 30.06.2017

Principal
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

RESOURCE PERSON PROFILE

Name : Mr. V. Raja.

Designation : R & A/C Mechanic

Company Name : Raja Refrigeration works, Madurai.

About Resource Person : V. Raja is currently working as R& A/C Mechanic with Raja Refrigeration works, Madurai, India.
He has completed his R&AC-Diploma course in Chennai. He has 12 years' experience in the same field.

PROGRAM COORDINATOR

G. Sundararajam
AP-Mech

HoD-MECH

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NPRCET/OFF/MECH/VAC/2017-2018

DATE: 03.07.2017

CIRCULAR

This is to inform that Department of Mechanical Engineering is planned to conduct a Add on course program on "**REFRIGERATION MECHANISM**" for the students during this period of 11.07.2017 to 21.08.2017 (30 Days).Interested students can enroll their name to the program coordinator on or before 05.07.2017.

The details of the training program are given below.

COURSE NAME	:	**REFRIGERATION MECHANISM**
RESOURCE PERSON	:	Mr. V. Raja, R & A/C Mechanic
VENUE	:	Thermal Lab
DATE & DURATION	:	11.07.2017 to 21.08.2017 & 45 Hours
PROGRAM COORDINATORS	:	Mr. K.ARUNA SENTHIL KUMAR, AP/MECH, Mr. G.SUNDARARAJAN,AP/MECH NPRCET.

PRINCIPAL

Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Add on Course on

REFRIGERATION MECHANISM"

On 11th July, 2017

Venue: NPRCET Seminar hall at 9.30 A.M.

Chief Guest

Mr. V. Raja, R & A/C Mechanic

Dr.K.K.Shyam Umasankar

Executive Director, NPRGI.

Presides over the function

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Mechanical Engineering,

NPR College of Engineering and Technology,

NPR Nagar, Natham.

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

COURSE CONTENT

Week 1 - Chapter 1:

- Introduction to Refrigeration
- Applications
- Important terminologies
- Components

Week 2 - Chapter 2:

- Types of Refrigeration systems
- Vapour absorption refrigeration system
- Vapour compression refrigeration system

Week 3 - Chapter 3:

- Study of refrigerators
- Study of water coolers
- Study of bottle coolers
- Study of deep freezers

Week 4 - Chapter 4:

- Refrigeration tools
- Electrical components and wiring systems
- Gas charging

Week5 -Chapter 5:

- Trouble shooting
- Do's and Don'ts
- Maintenance Procedure

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 75% attendance.
- Student should secure 50% marks in the Exam

Prepared By: Mr.G.Sundararajan, AP/MECH

Approved By,

PROGRAM COORDINATOR	HoD-MECH	IQAC	PRINCIPAL
G.Sundararajan AP-MECH	Head of the Department Department of Mechanical Engineering NPR College of Engineering & Technology Natham, Dindigul (DT) - 624 401.	Coordinator - IQAC NPR College of Engineering & Technology Natham, Dindigul (Dt)-624 401.	Principal NPR College of Engineering & Technology Natham, Dindigul (Dt) - 624 401.

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

REGISTERED STUDENTS NAME LIST (IVYEAR)

SNo	REGISTER NUMBER	STUDENT NAME
1.	920814114003	ABINANTH.T
2.	920814114005	AJIPKHAN.I
3.	920814114006	AJITH.J
4.	920814114011	ALEXSANDAR.S
5.	920814114013	ARAVIND.A
6.	920814114016	ARJUN.S
7.	920814114019	BAGAVATHI RAJ.N
8.	920814114022	BANUCHANDER.R
9.	920814114032	GULAM DASTHAGEER.S
10.	920814114041	IMTHADULLAH.M
11.	920814114046	KALAISELVAN.M
12.	920814114053	KISHORE ASISI.A
13.	920814114056	MANIKANDAN.G
14.	920814114301	ARUN KUMAR.V
15.	920814114304	DURGARAMAN S
16.	920814114063	MOHAMED ARIEF.I
17.	920814114076	PRASANNA KUMAR.S
18.	920814114077	PRAVEEN VENKATESH.S
19.	920814114081	RAJAGURU.M(H)
20.	920814114088	RAMKUMAR.M
21.	920814114089	RAM KUMAR.K
22.	920814114095	SARAVANAN.P
23.	920814114096	SARAVANA RAMAMOORTHY.R
24.	920814114101	SHIVARAMAN.M

PROGRAM COORDINATOR

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HoD-MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

REGISTERED STUDENTS NAME LIST (III YEAR)

SNo	REGISTER NUMBER	STUDENT NAME
1.	920815114001	AAKASH ALAGARSAMY.S
2.	920815114002	AAKASH KUMAR.R
3.	920815114007	AJITH KUMAR.R
4.	920815114011	ANAND.R
5.	920815114016	ARUN KARTHICK.B.B
6.	920815114025	BOOBALAN.M
7.	920815114034	DINESHKUMAR.P
8.	920815114051	KARTHIKEYAN.T
9.	920815114058	KRISHNA KUMAR.S
10.	920815114068	MURALIDHARAN.R
11.	920815114074	NAVEEN KUMAR.C
12.	920815114080	PRADEEP.M
13.	920815114088	RAM THILAK.R
14.	920815114098	SELVAKUMAR.M
15.	920815114108	SURESH KUMAR.S
16.	920815114116	VIJAYAGANESH.B
17.	920815114122	YASARARAFATH.K
18.	920815114311	J.MURUGESAN
19.	920815114314	PRASANTH.G
20.	920815114316	P. TAMIL SELVAN
21.	920815114317	VIGNESH.R

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

COURSE SCHEDULE

Venue: Thermal Lab

Date: 07.07.2017

External Resource Person:

Mr. V. Raja, R & A/C Mechanic

Internal Resource Persons:

Mr.K.ArunaSenthil Kumar AP/MECH

Mr.G.Sundararajan,AP/MECH.

S. No.	Date	Syllabus	Resource Person	hours
1	11.07.2017	Introduction to Refrigeration	Mr.K.Aruna Senthil Kumar, AP/Mech	1.5
2	12.07.2017	Applications	Mr. G.Sundararajan, AP-Mech	1.5
3	13.07.2017	Important terminologies	Mr.K.Aruna Senthil Kumar, AP/Mech	1.5
4	14.07.2017 & 17.07.2017	Components	Mr. V. Raja, R & A/C Mechanic	3
5	18.07.2017 & 19.07.2017	Types of Refrigeration systems	Mr. G.Sundararajan, AP-MECH	3
6	20.07.2017 & 21.07.2017	Vapour absorption refrigeration system	Mr. V. Raja, R & A/C Mechanic	3
7	24.07.2017 & 25.07.2017	Vapour compression refrigeration system	Mr.K.Aruna Senthil Kumar, AP/Mech	3
8	26.07.2017 & 27.07.2017	Study of refrigerators	Mr.K.Aruna Senthil Kumar, AP/Mech	3
9	28.07.2017	Study of water coolers	Mr. G.Sundararajan, AP-MECH	1.5
10	31.07.2017	Study of bottle coolers	Mr. V. Raja, R & A/C Mechanic	1.5
11	01.08.2017 & 02.08.2017	Study of deep freezers	Mr.K.Aruna Senthil Kumar, AP/Mech	3
12	03.08.2017 – 04.08.2017 , 05.08.2017& 07.08.2017	Refrigeration tools	Mr. V. Raja, R & A/C Mechanic	6

13	08.08.2017 – 09.08.2017 & 10.08.2017 - 11.08.2017	Electrical components and wiring systems	Mr. V. Raja, R & A/C Mechanic	6
14	16.08.2017 & 17.08.2017	Gas charging	Mr. V. Raja, R & A/C Mechanic	3
15	18.08.2017	Trouble shooting	Mr. V. Raja, R & A/C Mechanic	1.5
16	19.08.2017	Do's and Don'ts	Mr. V. Raja, R & A/C Mechanic	1.5
17	21.08.2017	Maintenance Procedure	Mr. V. Raja, R & A/C Mechanic	1.5
Total Hours				45

PROGRAM COORDINATOR

G. Sundararajan
AP-Mech

HoD-MECH

Head of the Department
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Coordinator - IQAC
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

ATTENDANCE SHEET

S.No	Roll.No	Student Name	Year	11/3	12/3	13/3	14/3	17/3	18/3	19/3	20/3	21/3	24/3	25/3	26/3	27/3	28/3	31/3
1	17MEAO02001	AAKASH ALAGARSAMY.S	III	/	/	/	/	/	/	/	/	/	a	/	/	a	/	
2	17MEAO02002	AAKASH KUMAR.R	III	/	/	/	/	/	/	/	/	/	/	/	a	/	a	
3	17MEAO02003	AJITH KUMAR.R	III	/	/	/	/	/	a	/	/	a	/	/	/	/	/	
4	17MEAO02004	ANAND.R	III	/	/	/	/	/	/	/	a	/	/	/	/	/	/	a
5	17MEAO02005	ARUN KARTHICK.B.B	III	/	a	/	/	/	/	/	/	/	/	/	/	a	/	
6	17MEAO02006	BOOBALAN.M	III	/	/	/	/	/	/	a	/	/	a	/	/	/	/	
7	17MEAO02007	DINESHKUMAR.P	III	/	/	a	/	a	/	/	/	/	/	/	/	/	a	
8	17MEAO02008	KARTHIKEYAN.T	III	/	/	/	/	/	/	/	/	/	/	/	a	/	/	
9	17MEAO02009	KRISHNA KUMAR.S	III	a	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	17MEAO02010	MURALIDHARAN.R	III	/	/	/	a	/	/	/	/	/	/	/	/	a	/	
11	17MEAO02011	NAVEEN KUMAR.C	III	/	/	/	/	/	a	/	/	/	/	/	/	/	/	a
12	17MEAO02012	PRADEEP.M	III	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
13	17MEAO02013	RAM THILAK.R	III	/	/	/	/	/	/	/	a	/	/	/	/	/	/	
14	17MEAO02014	SELVAKUMAR.M	III	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
15	17MEAO02015	SURESH KUMAR.S	III	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
16	17MEAO02016	VIJAYAGANESH.B	III	/	a	/	/	/	/	/	/	/	/	/	/	/	/	
17	17MEAO02017	YASARARAFATH.K	III	/	/	/	/	/	a	/	/	/	/	/	/	/	/	
18	17MEAO02018	J.MURUGESAN	III	/	/	/	/	a	/	/	/	/	/	/	/	/	/	
19	17MEAO02019	PRASANTH.G	III	/	/	/	a	/	/	a	/	/	a	/	/	/	/	
20	17MEAO02020	P. TAMIL SELVAN	III	a	/	/	/	/	/	/	/	/	/	/	/	/	/	a
21	17MEAO02021	VIGNESH.R	III	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
22	17MEAO02022	ABINANTH.T	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
23	17MEAO02023	AJIPKHAN.I	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
24	17MEAO02024	AJITH.J	IV	/	/	a	/	/	/	/	/	/	/	/	/	/	/	
25	17MEAO02025	ALEXSANDAR.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
26	17MEAO02026	ARAVIND.A	IV	/	/	/	/	/	/	/	a	/	/	/	/	/	/	
27	17MEAO02027	ARJUN.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
28	17MEAO02028	BAGAVATHI RAJ.N	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
29	17MEAO02029	BANUCHANDER.R	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
30	17MEAO02030	GULAM DASTHAGEER.S	IV	/	/	/	/	/	/	/	/	a	/	/	/	/	/	
31	17MEAO02031	IMTHADULLAH.M	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
32	17MEAO02032	KALAISELVAN.M	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
33	17MEAO02033	KISHORE ASISI.A	IV	/	/	/	a	/	/	/	/	/	/	/	/	/	/	
34	17MEAO02034	MANIKANDAN.G	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
35	17MEAO02035	ARUN KUMAR.V	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
36	17MEAO02036	DURGARAMAN.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
37	17MEAO02037	MOHAMED ARIEF.I	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
38	17MEAO02038	PRASANNA KUMAR.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
39	17MEAO02039	PRAVEEN VENKATESH.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
40	17MEAO02040	RAJAGURU.M(H)	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

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41	17MEAO02041	RAMKUMAR.M	IV	
42	17MEAO02042	RAM KUMAR.K	IV	
43	17MEAO02043	SARAVANAN.P	IV	
44	17MEAO02044	SARAVANA RAMAMOORTHY.R	IV	
45	17MEAO02045	SHIVARAMAN.M	IV	
Present				
Absent				
Coordinator signature				

HoD/MECH

Head of the Department
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NPR College of Engineering & Technology
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PRINCIPAL

Natham, Dindigul (Dt) - 624 401

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

ATTENDANCE SHEET

S.No	Roll.No	Student Name	Year	1/8	2/8	3/8	4/8	5/8	7/8	8/8	9/8	10/8	11/8	16/8	17/8	18/8	19/8	21/8
1	17MEAO02001	AAKASH ALAGARSAMY.S	III	/	/	/	/	a	/	/	c	/	/	/	/	/	/	/
2	17MEAO02002	AAKASH KUMAR.R	III	/	a	/	/	/	a	/	a	/	/	/	/	/	/	/
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15	17MEAO02015	SURESH KUMAR.S	III	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/
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17	17MEAO02017	YASARARAFATH.K	III	/	/	/	a	/	a	/	/	/	/	/	a	/	a	/
18	17MEAO02018	J.MURUGESAN	III	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/
19	17MEAO02019	PRASANTH.G	III	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20	17MEAO02020	P. TAMIL SELVAN	III	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21	17MEAO02021	VIGNESH.R	III	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
22	17MEAO02022	ABINANTH.T	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
23	17MEAO02023	AJIPKHAN.I	IV	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/
24	17MEAO02024	AJITH.J	IV	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/
25	17MEAO02025	ALEXSANDAR.S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26	17MEAO02026	ARAVIND.A	IV	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
27	17MEAO02027	ARJUN.S	IV	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
28	17MEAO02028	BAGAVATHI RAJ.N	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a
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35	17MEAO02035	ARUN KUMAR.V	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36	17MEAO02036	DURGARAMAN S	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37	17MEAO02037	MOHAMED ARIEF.I	IV	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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38	17MEAO02038	PRASANNA KUMAR.S	IV	
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45	17MEAO02045	SHIVARAMAN.M	IV	
Present				42 43 42 43 42 43 42 43 42 43 42 43 42 43 42
Absent				2 3 2 3 2 3 2 3 2 3 2 3 2 3 2
Coordinator signature				

HoD-MECH

PRINCIPAL

Head of the Department
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

QUIZ QUESTION PAPER & ANSWER

1.Freon group of refrigerants are

Ans: Nontoxic and non-inflammable

2.The boiling point of ammonia is

Answer: Non-inflammable and toxic

3. For obtaining high COP, the pressure range of compressor should be

Answer: Low

4. A reversible engine has ideal thermal efficiency of 30%. When it is used as a refrigerating machine with all other conditions unchanged, the coefficient of performance will be

Answer: 2.33

5. Cooling water is required for following equipment in ammonia absorption plant

Answer: Condenser, absorber and separator (rectifier)

6. What Is Refrigeration?

Answer: Refrigeration is the process of continuously cooling or extraction of heat from the atmosphere or surroundings with the help of external work.

7. The freezing point of sulphur dioxide is

Answer : -75.2°C

8. . In a refrigeration system, the expansion device is connected between the

Answer : Receiver and evaporator

09. The vapour compression refrigerator employs the following cycle

Answer: Reversed Carnot

10. The bank of tubes at the back of domestic refrigerator is

Answer: Condenser tubes.

G. Sundararajan

PROGRAM COORDINATOR

G. Sundararajan
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HoD/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

STUDENT FEEDBACK

Name of the Student :	S. Arjun	Year / Semester:	II / IV
Name of the Program:	Refrigeration Mechanism		

CONTENT	EXCELLENT	GOOD	SATISFACTORY
COURSE CONTENT	✓		
TECHNICAL SKILL		✓	
INTERACTION			✓
PRACTICAL SESSION	✓		
COMMUNICATION		✓	

Any Other Comments / Suggestions:

Nil

G. Sundararajan
PROGRAM COORDINATOR
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B. V...
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 45 **DATE:05.09.17**

CONTENT	EXCELLENT	GOOD	SATISFACTORY
COURSE CONTENT	33	7	5
TECHNICAL SKILL	34	7	4
INTERACTION	37	5	3
PRACTICAL SESSION	38	4	3
COMMUNICATION	31	8	6
AVERAGE	34.6	6.2	4.2



PROGRAM COORDINATOR

G. Sundararajan

HoD-MECH

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Principal
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Natham, Dindigul (Dt) - 624 401

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

SUMMARY REPORT

The Department of Mechanical Engineering organized an ADD ON Course On program **"REFRIGERATION MECHANISM"** from 11.07.2017 to 21.08.2017 (30 Days) in Thermal Lab.

Mr.Ajith Kumar.R, III MECH delivered the welcome address.

Dr. B. Maruthukannan, Principal of our college inaugurated the program and delivered the inaugural address. Resources persons Mr. V. Raja, R & A/C Mechanic, Madurai shared his technical experience with our students. This thirty days course gave over view about Refrigeration Mechanism and provides overview of an exciting growing field. This program also taught the basic Refrigeration Mechanism and equipments. He also shared his knowledge of the fundamentals and principles in achieving Refrigeration. So that students enable to have skills that would help them to resolve complex real world problems in industrial field.

The students learnt various existing and emerging technologies of Refrigeration Mechanism.

Mr.Manikandan.G, IV MECH was delivered the of thanks address.

PROGRAM COORDINATOR

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON REFRIGERATION MECHANISM

COURSE MATERIAL

Material Link:

Chapter 1: https://nptel.ac.in/courses/112/105/112105128/

Chapter 2: https://nptel.ac.in/courses/112/103/112103275/

Chapter 3: https://nptel.ac.in/content/storage2/courses/112105129/

Chapter 4: https://nptel.ac.in/content/storage2/courses/112105132/

Chapter 5: https://nptel.ac.in/content/storage2/courses/112105136/

Further Study:

1. Zhao, L.; Cai, W.; Ding, X.; Chang, W. Model-based optimization for vapor compression refrigeration cycle. Energy 2013, 55, 392–402. [CrossRef].
2. Rezayan, O.; Behbahaninia, A. Thermoeconomic optimization and exergy analysis of CO2 /NH3 cascade refrigeration systems. Energy 2011, 36, 888–895. [CrossRef]
3. Shi, Y.; Nie, X.; Zhang, B.; Zhou, D.; Wang, J.; Wang, Z. Design and experimental investigation on a 150K auto-cascade refrigeration system. In Proceedings of the 2011 International Conference on Materials for Renewable Energy & Environment, IEEE, Shanghai, China, 20–22 May 2011; Volume 2, pp. 1240–1244.
4. Fernandez-Seara, J.; Sieres, J.; Vazquez, M. Compression–absorption cascade refrigeration system. Appl. Therm. Eng. 2006, 26, 502–512. [CrossRef]
5. Chen, Y.; Han, W.; Jin, H. An absorption–compression refrigeration system driven by a mid-temperature heat source for low-temperature applications. Energy 2015, 91, 215–225.
6. Garimella, S.; Brown, A.M.; Nagavarapu, A.K. Waste heat driven absorption/vapor-compression cascade refrigeration system for megawatt scale, high-flux, low-temperature cooling. Int. J. Refrig. 2011, 34, 1776–1785. [CrossRef] Wilbert .F.stoecker and Jerold.w.jones, Refrigeration and Air-conditioning, 3rd edition.

G. Sundararajan
PROGRAM COORDINATOR
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B.V.
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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. R. ANAND, II Year Mechanical Engineering

For successful completion of Add-on Course on
"REFRIGERATION MECHANISM"
Conducted from 11.07.2017 to 21.08.2017

HoD/MECH

Dr. J. SUNDARARAJAN, B.E., M.Tech., Ph.D., Principal

PRINCIPAL

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This certificate is presented to

Mr. P. TAMILSELVAN, III Year Mechanical Engineering

For successful completion of Add-on Course on
"REFRIGERATION MECHANISM"
Conducted from 11.07.2017 to 21.08.2017

HoD/MECH

Dr. J. [illegible] M.E., M.Tech., Ph.D.,
Principal
NPR College of Engineering & Technology

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DEPARTMENT OF MECHANICAL ENGINEERING

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This certificate is presented to

Mr. M. AJITH, IV Year Mechanical Engineering

For successful completion of Add-on Course on
"REFRIGERATION MECHANISM"
Conducted from 11.07.2017 to 21.08.2017

HoD/MECH

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D., Principal
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CERTIFICATE OF COMPLETION

This certificate is presented to

Mr. A. ARAVIND, IV Year Mechanical Engineering

For successful completion of Add-on Course on
"REFRIGERATION MECHANISM"
Conducted from 11.07.2017 to 21.08.2017

HoD/MECH

PRINCIPAL

N.P.R. College of Engineering & Technology

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

INDEX

COURSE NAME: **17MEAO02- INDUSTRIAL PNEUMATIC SYSTEMS**

ACADEMIC YEAR: 2017-2018 SEMESTER: II&III/IV &VI DURATION: **30HOURS**

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PROGRAM COORDINATOR

HoD-MECH

IQAC

PRINCIPAL

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Coordinator - IQAC
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

PERMISSION LETTER

From:

G.SethuRaj,

Assistant Professor,

Department of Mechanical Engineering,

NPR College of Engineering & Technology,

Natham.

To

The Principal,

NPR College of Engineering and Technology,

Natham.

Respected Sir,

Sub: Request for permission to conduct Add on course program for II & III Mechanical Engineering students– reg

We have planned to conduct Add on course program on '**INDUSTRIAL PNEUMATIC SYSTEMS**' to our students from 23.1.18 to 22.2.18 (20 Days) at 4.30 p.m. to 6.00 p.m. in our college premises. We are proposed **Mr. Chellapandi, Production Manager, SKY Pneumatics, Dindigul** as a resource person for this Add on course program. Kindly permit us to conduct the same.

Thanking you.

Place: Natham

Date:09.01.2018

Yours faithfully,

(G. Sethu Raj)

NPR College of Engineering & Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

RESOURCE PERSON PROFILE

Name : Mr. Chellapandi

Designation : Production Manager,

Company Name : SKY Pneumatics, Dindigul.

About Resource Person :

Mr. Chellapandi is currently working as Production Manager with SKY Pneumatics, Dindigul. He has completed his B.E (Mech) in Sri Krishna College of Engineering & Technology, Coimbatore. He is experienced technical person with a demonstrated history of working in the Production industry.

PROGRAM COORDINATOR **HoD-MECH** **PRINCIPAL**

G. Sethu Raj

Head of the Department
Department of Mechanical Engineering
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NPRCET/OFF/MECH/VAC/2017-2018 DATE: 08.01.2018

CIRCULAR

This is to inform that Department of Mechanical Engineering is planned to conduct a Add on course program on **'INDUSTRIAL PNEUMATIC SYSTEMS'** for the students during this period from 23.1.18 to 22.2.18 (20 Days). Interested students can enroll their name to the program coordinators on or before 19.01.2018.

The details of the training program are given below.

COURSE NAME	:	**INDUSTRIAL PNEUMATIC SYSTEMS**
RESOURCE PERSON	:	Mr. Chellapandi, Production Manager, SKY Pneumatics, Dindigul.
VENUE	:	Mechatronics Lab
DATE & DURATION	:	23.1.18 to 22.2.18 & 30 Hours
PROGRAM COORDINATORS	:	1)Mr.G.Sethuraj, AP/MECH, NPRCET. 2) Mr.S.Joshua, AP/MECH, NPRCET.

PRINCIPAL

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Natham, Dindigul - 624 401.

Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS"

On 23th January, 2018

Venue: NPRCET seminar hall at 9.30 A.M.

Chief Guest

Mr.J. Chellapandi,

Production Manager,

SKY Pneumatics, Dindigul.

Dr.K.K.Shyamsumasankar

Executive Director, NPRGI.

Presides over the function

Dr.B.Maruthukannan

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Mechanical Engineering,

NPR College of Engineering and Technology,

NPR Nagar, Natham.

NPR College of Engineering & Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

COURSE CONTENT

Week 1 - Chapter 1:

- Introduction
- Quick intro into what lays ahead and how the course is structured.

Week 2 - Chapter 2:

- Basic Pneumatic System
- See how the basic Pneumatic System looks like

Week 3 - Chapter 3:

- Actuators
- Actuator Working Principle
- Differences Between SA And DA Cylinders
- Usual Linear Cylinders
- Cushioning
- Rotary Cylinders
- Mistakes To Avoid

Week 4 - Chapter 4:

- Valves
- Directional Control Valves
- 2/2 Directional Control Valves
- 3/2 Directional Control Valve
- 5/2 Directional Control Valve
- Additional Valves
- Speed Controllers
- Binary Functions

Week 5 -Chapter 5:

- FRL Group
- Filter
- Pressure Regulator
- Lubricator

Week 6 -Chapter 6:

- Compressed Air Production And Preparation
- Air Compressor
- Air Tank
- Centralized Air Preparation
- Dew point
- Dehumidifiers
- Main Line Air Filter
- Air quality standard

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 75% attendance.
- Student should secure 50% marks in the Exam.

Prepared By: Mr.G.Sethuraj, AP/MECH

Approved By,

HoD-MECH

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
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Coordinator - IQAC
NPR College of Engineering & Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

REGISTERED STUDENTS NAME LIST

S.No	REGISTER NUMBER	STUDENT NAME
1.	920816114003	AJITHKUMAR .V
2.	920816114006	ARAVIND KUMAR .S
3.	920816114010	BHUVANESH KUMAR .C
4.	920816114011	DINESH KUMAR .M
5.	920816114023	KARTHIKEYAN. K.V
6.	920816114027	MALAI KANCHI .R
7.	920816114302	ANDIYAPPAN.M
8.	920816114042	POOVALINGAM M
9.	920816114046	RAJAPANDI M
10.	920816114051	SAHAYA INBARAJ A
11.	920816114052	SANTHOSH PANDY T
12.	920816114060	SIKKANDAR KANI N
13.	920816114069	VIGNESH R
14.	920816114070	VIGNESH T
15.	920816114073	YOGESHWARAN A
16.	920816114319	PRAVEEN M
17.	920816114322	SATHISH KUMAR B
18.	920815114002	AAKASH KUMAR.R
19.	920815114006	AJITH KUMAR.R
20.	920815114008	ALAGESAN.M
21.	920815114010	ALLENPAUL.J
22.	920815114011	ANAND.R
23.	920815114015	ARUNACHALAM.K
24.	920815114028	CHELLAPPANDI.R
25.	920815114036	GANESAN.L
26.	920815114051	KARTHIKEYAN.T
27.	920815114059	MAHABOOB JAHIR.S
28.	920815114303	BALAJI.J
29.	920815114070	MUTHUMANI.K
30.	920815114073	NAVANEETHAKRISHNAN.R

PROGRAM COORDINATOR

(G. Sethuraj)

HoD-MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

COURSE SCHEDULE

Venue: Mechatronics Lab **Date: 11.01.2018**

External Resource Person:

Mr. Chellapandi,
Production Manager,
SKY Pneumatics, Dindigul.

Internal Resource Persons:

1) 1)Mr.G.Sethuraj,
AP/MECH,
NPRCET.
2) Mr.S.Joshua,
AP/MECH,
NPRCET.

S. No.	Date	Syllabus	Resource Person	Hours
1.	23.01.2018	Introduction & Quick intro into what lays ahead and how the course is structured.	Mr. Chellapandi, Production Manager,	1.5
2.	24.01.2018	Basic Pneumatic System- How the basic Pneumatic System	Mr.G.Sethuraj, AP/MECH,	1.5
3.	29.01.2018	Actuators- Actuator Working Principle	Mr.S.Joshua, AP/MECH,	1.5
4.	30.01.2018	Differences Between SA And DA Cylinders- Usual Linear	Mr.S.Joshua, AP/MECH,	1.5
5.	01.08.2018	Cushioning- Rotary Cylinders	Mr. Chellapandi, Production Manager,	1.5
6.	02.02.2018	Mistakes To Avoid	Mr.S.Joshua, AP/MECH,	1.5
7.	03.02.2018	Directional Control Valves	Mr.G.Sethuraj, AP/MECH,	1.5
8.	05.02.2018	2/2 Directional Control Valves	Mr.S.Joshua, AP/MECH,	1.5
9.	06.02.2018	3/2 Directional Control Valve	Mr.G.Sethuraj, AP/MECH,	1.5
10.	07.02.2018	5/2 Directional Control Valve	Mr. Chellapandi, Production Manager,	1.5
11.	08.02.2018	Additional Valves	Mr.G.Sethuraj, AP/MECH,	1.5

12.	09.02.2018	Speed Controllers	Mr. Chellapandi, Production Manager,	1.5
13.	12.02.2018	Binary Functions	Mr.G.Sethuraj, AP/MECH,	1.5
14.	14.02.2018	FRL Group & Filter	Mr. Chellapandi, Production Manager,	1.5
15.	15.02.2018	Pressure Regulator	Mr.S.Joshua, AP/MECH,	1.5
16.	16.02.2018	Lubricator	Mr.G.Sethuraj, AP/MECH,	1.5
17.	19.02.2018	Compressed Air Production And Preparation- Air Compressor- Air Tank	Mr. Chellapandi, Production Manager,	1.5
18.	20.02.2018	Centralized Air Preparation- Dew point	Mr.S.Joshua, AP/MECH,	1.5
19.	21.02.2018	Dehumidifiers	Mr.G.Sethuraj, AP/MECH,	1.5
20.	22.02.2018	Main Line Air Filter- Air quality standard	Mr. Chellapandi, Production Manager,	1.5
Total Hours				**30**

PROGRAM COORDINATOR

HoD-MECH

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Coordinator - IQAC
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

ATTENDANCE LIST

S.No	Roll.No	Student Name	23/1	24/1	29/1	30/1	1/2	5/2	6/2	7/2	8/2	9/2	12/2	13/2	14/2	15/2	16/2	19/2	20/2	21/2	22/2
1.	18MEAO03001	AJITHKUMAR .V	/	/	/	a	/	a	/	/	/	/	/	a	/	a	/				
2.	18MEAO03002	ARAVIND KUMAR .S	/	a	/	a	/	/	/	/	/	/	a	/	/	/	a	/	/		
3.	18MEAO03003	BHUVANESH KUMAR .C	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/		
4.	18MEAO03004	DINESH KUMAR .M	/	/	a	/	/	/	a	/	/	/	/	/	a	/	/	a	/		
5.	18MEAO03005	KARTHIKEYAN. K.V	/	a	/	/	/	/	/	/	/	/	a	/	/	/	/	/	a		
6.	18MEAO03006	MALAI KANCHI .R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
7.	18MEAO03007	ANDIYAPPAN.M	/	/	/	/	/	/	/	/	a	/	a	/	a	/	/				
8.	18MEAO03008	POOVALINGAM M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
9.	18MEAO03009	RAJAPANDI M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
10.	18MEAO03010	SAHAYA INBARAJ A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
11.	18MEAO03011	SANTHOSH PANDY T	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/				
12.	18MEAO03012	SIKKANDAR KANI N	a	/	/	/	a	/	/	/	/	/	/	/	/	/	/				
13.	18MEAO03013	VIGNESH R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
14.	18MEAO03014	VIGNESH T	/	/	/	/	/	/	/	a	/	a	/	/	/	a	/				
15.	18MEAO03015	YOGESHWARAN A	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/				
16.	18MEAO03016	PRAVEEN M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
17.	18MEAO03017	SATHISH KUMAR B	/	/	/	/	/	/	a	/	/	a	/	/	/	/	a				
18.	18MEAO03018	AAKASH KUMAR.R	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/				
19.	18MEAO03019	AJITH KUMAR.R	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/				
20.	18MEAO03020	ALAGESAN.M	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/				
21.	18MEAO03021	ALLENPAUL.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
22.	18MEAO03022	ANAND.R	/	a	/	/	/	/	/	/	/	a	/	/	/	/	/				
23.	18MEAO03023	ARUNACHALAM.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
24.	18MEAO03024	CHELLAPPANDI.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
25.	18MEAO03025	GANESAN.L	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
26.	18MEAO03026	KARTHIKEYAN.T	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/				
27.	18MEAO03027	MAHABOOB JAHIR.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
28.	18MEAO03028	BALAJI.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
29.	18MEAO03029	MUTHUMANI.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				
30.	18MEAO03030	NAVANEETHAKRISHNAN.R	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/				

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Present	28	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Absent	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Coordinator signature																				

HoD-MECH

Head of the Department
Department of Mechanical Engineering
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

QUIZ QUESTION PAPER & ANSWER

1. In pneumatic systems time lags are obtained by

A. Pneumatic-electric elements **B. Making the air to fill a volume after passing through a restriction**

C. Elongating the path of air D. Any of the above

2. In pneumatic control systems compensation is provided by which of the following ?

A. Bimetal strips B. Extension tubes

C. Flapper nozzle mechanism **D. Restriction volume combinations**

3. The compressed air, in pneumatic control systems, is not

A. Lubricated B. Filtered

C. Regulated D. All of the above

4. In pneumatic control systems the control panel used as final control element converts

A. Pressure signal to electric signal **B. Pressure signal to position change**

C. Electric signals to be sure signal D. Position change to pressure signal

5. A pneumatic amplifier

A. Amplifiers flow **B. Amplifiers differential pressure**

C. Amplifiers change in air volume D. Any of the above

6. In which type of system does power transmission takes place through compressed air?

a) Fluid power system b) Hydraulic system

c) Pneumatic system d) Stepper motors

7. The compressed air flows to the actuator through ____

a) pipes and valves b) shafts

c) motors d) flow control valve

8. The compressed air is delivered to the pneumatic system through the air compressor.

a) True b) False

9. What is the function of the air dryer?

a) Removes dirt **b) Removes moisture**

c) Controls the rate of flow d) Controls the pressure

10. Which part of the Pneumatic system stores the compressed air?

a) Air dryer b) Air compressor

c) Air receiver tank d) Air lubricator

11. Pneumatic systems are very fast in operation.

a) True b) False

12. Which among the following is not the component of FRL unit?

a) Air filter **b) Air dryer**

c) Air regulator d) Air lubricator

12. What is the function of the flow control valve?

a) Controls the direction of flow of air b) The moisture is separated and removed

c) It converts the mechanical energy to hydraulic energy **d) It controls the rate of flow of compressed air**

13. The direction control valve controls ____

a) direction of flow b) rate of flow

c) moisture d) force and motion

PROGRAM COORDINATOR

HoD-MECH

Head of the Department
Department of Mechanical Engineering
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

STUDENT FEEDBACK

Name of the Student : T. vignesh	**Year / Semester:** II / IV
Name of the Program: Industrial Pneumatic systems	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course			✓	
4.	Course delivered by Resource Person	✓			
5.	Time Management		✓		
6.	Overall rating of this course			✓	
7.	Any Other Comments / Suggestions	Nil			

PROGRAM COORDINATOR
G. Sethu Raj

HoD-MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

STUDENT FEEDBACK

Name of the Student :	M. Praveen	**Year / Semester:**	II / IV
Name of the Program:	Industrial Pneumatic Systems		

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course			✓	
4.	Course delivered by Resource Person	✓			
5.	Time Management		✓		
6.	Overall rating of this course			✓	
7.	Any Other Comments / Suggestions	Nil			

1.

PROGRAM COORDINATOR

G. Sethu Raj

HoD-MECH

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
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PRINCIPAL

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DEPARTMENT OF MECHANICAL ENGINEERING
ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS
STUDENT FEEDBACK

Name of the Student : R. Anand	**Year / Semester:** II / IV
Name of the Program: Industrial Pneumatic systems	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course			✓	
4.	Course delivered by Resource Person	✓			
5.	Time Management		✓		
6.	Overall rating of this course			✓	
7.	Any Other Comments / Suggestions	Nil			

PROGRAM COORDINATOR
G. Sethu Raj

HoD-MECH
Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

PRINCIPAL
Principal
NPR College of Engineering & Tech...
Natham, Dindigul (Dt) - 624 40...

NPR College of Engineering & Technology

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 30 **DATE: 05.03.17**

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	24	4	2	0
2.	Way of exposed new knowledge and practices	23	2	3	2
3.	Examples Provided during this course	21	4	2	3
4.	Course delivered by Resource Person	19	6	4	1
5.	Time Management	22	5	1	2
6.	Overall rating of this course	23	4	1	2
	Average	22	4.16	2.16	1.66



PROGRAM COORDINATOR

HoD-MECH
Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

PRINCIPAL
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

SUMMARY REPORT

The Department of Mechanical Engineering organized an Add-On Course program **'Industrial Pneumatic Systems'** from 23.1.18 to 22.2.18 (20Days) at Mechatronics Lab. Mr. Ajithkumar .V, III Mech delivered the welcome address.

Dr. B.Maruthukannan, Principal of our college inaugurated the program delivered and inaugural address. Resources person Mr. Chellapandi, Production Manager, SKY Pneumatics, Dindigul shared his knowledge with our students. This twenty days course gave over view about Lean Manufacturing System.

He also shared his technical experience of the fundamentals and principles in Industrial Pneumatic Systems.. So that students enable to have skills that would help them to resolve complex real world problems in industrial field. The students learnt various existing and emerging technologies of Industrial Pneumatic Systems. M. Mahaboob Jahir.S, II Mech was delivered the vote of thanks.

PROGRAM COORDINATOR

G. Sethu Raj

HoD-MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON INDUSTRIAL PNEUMATIC SYSTEMS

COURSE MATERIAL

Material Link:

Chapter1:https://www.hydraulicspneumatics.com/technologies/21884114/ pneumatic-and-hydraulic-systems

Chapter2:https://www.hydraulicspneumatics.com/technologies/article/21884206/air-and-hydraulic-pumps

Chapter3:https://www.hydraulicspneumatics.com/technologies//21884209/ directional-control-valves

Chapter 4: https://www.hydraulicspneumatics.com/technologies/2181234 relief-and-unloading-pressure

Chapter 5: https://www.hydraulicspneumatics.com/technologies/21884582/ relief-and-unloading-pressure

Chapter 6:https://www.hydraulicspneumatics.com/technologies//21884592/ directional-control-valves

Further Study:

[1] M. Taghizadeh, et al.,"Modeling and identification of a solenoid valve for PWM control applications," C R. Mecanique, pp. 131-140, April 2009.

[2]E.E. Topc,et al.,"Development of electro-pneumatic fast switching valve and investigation of its characteristics," Mechatronics, pp. 365-378, January 2006.

[3]M. Taghizadeh, et al.,"Improving dynamic performances of PWM-driven servo-pneumatic systems via a novel pneumatic circuit,". ISA Transactions, pp. 512-518, May2009.

[4]J. Swider, et al., "Programmable controller designed for electro-pneumatic systems," Journal of Materials Processing Technology, pp. 1459–14652005.

[5]P. Beater, "Pneumatic Drives: System Design, Modelling and Control," Springer, pp. 25-36.

[6]A. Messina, et al. "Experimenting and modelling the dynamics of pneumatic actuators controlled by the pulse width modulation (PWM) technique". Mechatronics, January, pp. 859–8812005

[7]J. Wang,et al.,"A practical control strategy for servo-pneumatic actuator systems" Control Engineering Practice, pp. 1483-14881999

[8]M. M. Gade1, et al.,"design of a self-dither controller for an electro-pnematic fin a actuator of a missile" Proceedings of the International Conference on Aerospace Science and Technology, June2008

[9]T. Leephakpreeda, "Fuzzy logic based PWM control and neural controlled-variable estimation of pneumatic artificial muscle actuators" Expert Systems with Applications pp. 7837–78502011

[10]M. Sorli, et al.,"Dynamic analysis of pneumatic actuators" Simulation Practice and Theory, April, pp. 589-602

PROGRAM COORDINATOR — HoD-MECH — PRINCIPAL

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Department of Mechanical Engineering

Certificate of Participation

This is to certify that

Mr. MALAI KANCHI. R – II year Mechanical Engg.

has Completed the Add on course on

'INDUSTRIAL PNEUMATIC SYSTEMS' held

from 23.01.2018 to 22.02.2018.

HoD-Mech

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Principal

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Department of Mechanical Engineering

Certificate of Participation

This is to certify that

Mr. R. ANAND, III YEAR MECHANICAL ENGG.

has Completed the Add on course on

'INDUSTRIAL PNEUMATIC SYSTEMS' held

from 23.01.2018 to 22.02.2018.

HoD-Mech

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Principal

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Department of Mechanical Engineering

Certificate of Participation

This is to certify that

Mr. T. VIGNESH, II year Mechanical Engineering

has Completed the Add on course on

'INDUSTRIAL PNEUMATIC SYSTEMS' held

from 23.01.2018 to 22.02.2018.

HoD-Mech

Principal

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Department of Mechanical Engineering

Certificate of Participation

This is to certify that

Mr. K. MUTHUMANI, III year - Mechanical Engineering

has Completed the Add on course on

'INDUSTRIAL PNEUMATIC SYSTEMS' held

from 23.01.2018 to 22.02.2018.

HoD-Mech

Principal

Principal
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Department of Mechanical Engineering

Certificate of Participation

This is to certify that

Mr. J. BALAJI . III year . Mechanical Engineering

has Completed the Add on course on

'INDUSTRIAL PNEUMATIC SYSTEMS' held

from 23.01.2018 to 22.02.2018.

HoD-Mech

Principal

Principal
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

Index

Course Code & Name: 18MEAO04-Maintenance of Machines

Academic Year: 2017-2018 Year/Semester: III&IV/ V&VII Duration: 45 Hours

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Program Co-ordinator

T. Balu

Seetharaman

HoD-Mech

Head of the Department
Department of Mechanical Engineering
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IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624401

Principal

Principal
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PERMISSION LETTER

From:

T.Balasubramani,
Assistant Professor,
Mechanical Engineering,
NPR College of Engineering & Technology,
Natham.

To

The Principal,
NPR College of Engineering & Technology,
Natham.

Respected Sir,

Sub: Request for permission to conduct Add-on course for MECH -III & IV year students –Reg.

We have planned to conduct Add-on course on **'MAINTENANCE OF MACHINES'** to our students from 23.01.2018 to 10.04.2018 (30 Days) at 4.30 p.m. to 6.00 p.m. in our college premises. We have proposed Mr. R. Shanmugam, Maintenance Supervisor & Mr.M.Karthick, Maintenance Supervisor as a resource person for this Add-on course program. Kindly permit us to conduct the same.

Thanking you.

Yours faithfully,

Date: 22.12.2017

Submitted to Principal

Place: Natham

(K. ARUNA SENTHIL KUMAR)
HoD - MECH.

[T. Balasubramani]

COLLEGE OF ENGG & TECHNOLOGY * NPR * NATHAM

Approved by

Principal
N.P.R. College of Engineering & Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

Resource Persons Profile

Name	:	**Mr. R. Shanmugam**
Designation	:	Maintenance Supervisor
Company Name	:	Texmo Industries Coimbatore
About Resource Person	:	Mr.R.Shanmigam is currently working as **Maintenance Supervisor** in Texmo industries Coimbatore, India. He has completed his Diploma in Mechanical Engineering at Christian Polytechnic College, Dindigul. He has 15 years experienced in the same field.

Name	:	Mr.M.Karthik
Designation	:	Maintenance Supervisor
Company Name	:	Aquapump Industries, Coimbatore
About Resource Person	:	Mr.M.Karthik is currently working as Maintenance Supervisor in Aquapump Industries, Coimbatore, India. He has completed his B.E-Mechanical Engineering in Kumaraguru College of Technology, Coimbatore. He has 10 years experienced in the same field.

Program Co-ordinator

T. Balasubramani

HoD-Mech

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
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Principal

Principal
N.P.R. College of Engineering & Technology
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NPRCET/OFF/VAC/2017-2018 Date:02.01.2018

CIRCULAR

This is to inform that Department of Mechanical Engineering has planned to conduct an Add-on course program on 'MAINTENANCE OF MACHINES' for the students during this period of 23.01.2018 to 10.04.2018 (30 Days) 2017-2018.Interested students can enroll their name to the program coordinator on or before 08.01.2018

The details of the training program are given below.

Course Code & Name	:	**18MEAO04**- Maintenance of Machines
Resource Persons	:	1. **Mr. R. Shanmugam**, Maintenance Supervisor 2. **Mr. M.Karthik,** Maintenance Supervisor
Venue	:	Manufacturing Technology Lab
Date	:	23.01.2018 to 10.04.2018
Duration	:	45 Hours
Time	:	4.30 p.m. to 6.00 p.m.
Program Co-ordinator	:	Mr.T.Balasubramani, AP-Mech, NPRCET.

Copy to:

1.All HoDs

2.All the class room

3.Notice Board

4.file

5.Program co-ordinator

Principal

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

COLLEGE OF ENGG. & TECHNOLOGY * NPRC * NATHAM

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

Add-on Course

on

'MAINTENANCE OF MACHINES'

on 23rd Jan , 2018

Venue: MBA Seminar hall (Second Floor) at 9.30 a.m.

Chief Guest

Mr. R. Shanmugam,

Maintenance Supervisor,

Texmo industries, Coimbatore.

&

Mr. M.Karthik,

Maintenance Supervisor,

Aquapump Industries, Coimbatore.

Dr.B.Maruthukannan,

Principal,

NPR College of Engineering & Technology

Felicitates the function

Organized by

Department of Mechanical Engineering,

NPR College of Engineering & Technology,

NPR Nagar, Natham.

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

COURSE CONTENT

Week 1 - Chapter 1:

- Introduction of maintenance
- Objectives of maintenance
- Important terminologies
- Components.

Week 2 - Chapter 2:

- Components
- Types of maintenance
- Preventive maintenance

Week 3 - Chapter 3:

- Maintenance policy
- Condition monitoring

Week 4 - Chapter 4:

- Off load testing
- Repair methods for Bed
- Repair methods for basic machine element
- Failure analysis

Week 5 - Chapter 5:

- Repair methods for material handling equipment
- Equipment record

Week 6 - Chapter 6:

- Do's and Don'ts
- Computer role in Maintenance Procedure



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Criteria to get Certificate:

- Students should register their names for this course
- Students must have 85% attendance
- Student should secure 75% marks in the Exam

Prepared by: Mr.T.Balasubramani, AP/MECH

Approved by,

HoD-Mech

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401.

Principal

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

Registered Students Name List

S.No	REGISTER NUMBER	STUDENT NAME
1.	920814114009	AJITHKUMAR.R
2.	920814114010	AJITH KUMAR.P
3.	920814114011	ALEXSANDAR.S
4.	920814114012	ANUSHKUMAR.P
5.	920814114019	BAGAVATHI RAJ.N
6.	920814114020	BALAJI.A
7.	920814114025	DHINESH .S
8.	920814114026	DIVAN MUHIL.L
9.	920814114032	GULAM DASTHAGEER.S
10.	920814114038	HARI KUMAR.M.B
11.	920814114039	HARIMATHI.V
12.	920814114040	HARI VIGNESH.J
13.	920814114043	JEGAN.S
14.	920814114044	JEYASURYA.P
15.	920814114045	JOTHI THANGARAJ.M
16.	920814114046	KALAISELVAN.M
17.	920814114048	KARTHIKEYAN.K
18.	920814114050	KARTHIKEYAN.V
19.	920814114051	KARTHI KEYAN.V
20.	920814114059	MANIKANDAPRABHU.M
21.	920814114064	MOHAMED ARSADDEEN.F
22.	920814114065	MOHAMEDAZARUDEEN.B
23.	920814114066	MOHAMMED ASARUTHEEN.K
24.	920814114068	MOHAMMED YUSUF.A.S
25.	920814114077	PRAVEEN VENKATESH.S
26.	920814114078	RAGU RAMAN.K
27.	920814114084	RAJKUMAR.T(H)
28.	920814114085	RAJ MOHAN.K
29.	920814114086	RAMACHANDRAN.S
30.	920814114102	SIVAKUMAR.S
31.	920814114103	SURESH.K
32.	920814114104	SURESHKUMAR.S

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33.	920814114111	VEERAPATHRAN.R
34.	920814114114	VIJAYPANDI.S
35.	920814114115	VINOTH.S(H)
36.	920814114116	VIVEK.S(H)
37.	920814114309	NARAYANA PRABHU
38.	920814114312	PRASANNA.M
39.	920814114313	RAGHUL.R
40.	920814114315	SARANAN SUBHAIAH.A
41.	920816114024	KARTHICK.M
42.	920816114026	MAHESHWARAN.M.S
43.	920816114303	ARUN.S
44.	920816114304	BALAJI.E
45.	920816114307	DUTHISAN.S

Program Co-ordinator

T Balasubramani

HoD-Mech

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

COURSE SCHEDULE

Venue: Manufacturing Technology Lab

Date:11.01.2018

Time: 4.30.p.m to 6.00.p.m

External Resource Persons:	**Internal Resource Persons:**
Mr. R. Shanmugam, Maintenance Supervisor Mr. M.Karthik, Maintenance Supervisor	Mr.T.Balasubramani, AP/MECH

S. No.	Date	Syllabus	Resource Person	Hours
1	23.01.2018	Introduction of maintenance	Mr. T.Balasubramani, AP - Mech	1.5
2	24.01.2018	Objectives of maintenance	Mr. T.Balasubramani, AP - Mech	1.5
3	25.01.2018	Important terminologies	Mr. M.Karthik, Maintenance Supervisor,	1.5
4	27.01.2018	Mean time between failure	Mr. M.Karthik, Maintenance Supervisor,	1.5
5	29.01.2018	Components for maintenance	Mr. T.Balasubramani, AP - Mech	1.5
6	30.01.2018	Mean time top repair	Mr. T.Balasubramani, AP - Mech	1.5
7	31.02.2018	Types of maintenance	Mr. T.Balasubramani, AP - Mech	1.5
8	01.02.2018	Failure analysis	Mr.R. Shanmugam, Maintenance Supervisor	1.5
9	02.02.2018	Maintenance policy	Mr. M.Karthik, Maintenance Supervisor	1.5
10	03.02.2018	Maintenance schedules	Mr. M.Karthik, Maintenance Supervisor,	1.5
11	06.02.2018	Preventive maintenance	Mr. T.Balasubramani, AP - Mech	1.5
12	07.02.2018	Repair cycle	Mr. M.Karthik, Maintenance Supervisor,	1.5
13	14.02.2018	Predictive maintenance	Mr. T.Balasubramani, AP - Mech	1.5
14	15.02.2018	Condition monitoring	Mr. M.Karthik, Maintenance Supervisor,	1.5
15	16.02.2018	On load testing	Mr. T.Balasubramani, AP - Mech	1.5
16	17.02.2018	Off load testing	Mr. M.Karthik, Maintenance Supervisor,	1.5



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17	20.02.2018	Logical fault location method	Mr.R. Shanmugam, Maintenance Supervisor	1.5
18	21.03.2018	Repair methods for Bed,	Mr.R. Shanmugam, Maintenance Supervisor	1.5
19	22.03.2018	Repair methods for basic machine element ,	Mr. T.Balasubramani, AP - Mech	1.5
20	23.03.2018	Repair methods for material handling equipment	Mr.R. Shanmugam, Maintenance Supervisor	1.5
21	27.03.2018	Methods and instruments for CM	Mr. M.Karthik, Maintenance Supervisor,	1.5
22	28.03.2018	Equipment record	Mr. M.Karthik, Maintenance Supervisor,	1.5
23	29.03.2018	Temperature sensitive tapes	Mr.R. Shanmugam, Maintenance Supervisor	1.5
24	02.04.2018	Do's and Don'ts in maintenance	Mr. M.Karthik, Maintenance Supervisor,	1.5
25	03.04.2018	Repair methods of bearings	Mr.R. Shanmugam, Maintenance Supervisor	1.5
26	04.04.2018	Computer role in maintenance Procedure	Mr.R. Shanmugam, Maintenance Supervisor	1.5
27	05.04.2018	Repair methods gears,	Mr.R. Shanmugam, Maintenance Supervisor	1.5
28	06.04.2018	Job order	Mr. T.Balasubramani, AP - Mech	1.5
29	09.04.2018	lead screws	Mr.R. Shanmugam, Maintenance Supervisor	1.5
30.	10.04.2018	Sensor in maintenance	Mr.R. Shanmugam, Maintenance Supervisor	1.5
Total Hours				45

Program Co-ord

HoD-Mech

IQAC

Principal

T. Balasubramani

Head of the Department
Department of Mechanical Engineering
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Coordinator - IQAC
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt)-624 401.

Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

N.P.R. COLLEGE OF ENGG. & TECHNOLOGY NATHAM

NPR College of Engineering & Technology

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

Attendance Sheet

S.No	Reg.No	Student Name	23/1	24/1	25/1	26/1	27/1	29/1	30/1	31/1	1/2	2/2	3/2	6/2	7/2	14/2	15/2
1.	18MEAO040001	AJITHKUMAR.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	18MEAO040002	AJITH KUMAR.P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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11.	18MEAO040011	HARIMATHI.V	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
12.	18MEAO040012	HARI VIGNESH.J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	18MEAO040013	JEGAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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33.	18MEAO040033	VEERAPATHRAN.R	/	/	/	/	/	/	/	/	/	/	a	/	/	/	/
34.	18MEAO040034	VIJAYPANDI.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35.	18MEAO040035	VINOTH.S(H)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	18MEAO040036	VIVEK.S(H)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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37.	18MEAO040037	NARAYANA PRABHU	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38.	18MEAO040038	PRASANNA.M	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
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42.	18MEAO040042	MAHESHWARAN.M.S	/	/	/	/	/	/	/	/	/	a	/	/	/	a	/
43.	18MEAO040043	ARUN.S	/	/	/	/	/	/	/	/	/	a	/	/	/	/	/
44.	18MEAO040044	BALAJI.E	/		/	/	/	/	/	/	/	/	/	/	/	/	/
45.	18MEAO040045	DUTHISAN.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Present			45	45	44	44	45	44	45	45	45	43	42	44	45	42	45
Absent			-	-	1	1	-	1	-	-	-	2	3	1	-	3	-
Co-ordinator Signature			TBK	TBK	TBK	TBK	TBK	TBK	TBK	TBK	TBK	TBK	TBK	TBK	TBK	TBK	TBK

HoD-Mech

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
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Principal

Principal
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

Attendance Sheet

S.No	Reg.No	Student Name	16/3	17/3	20/3	22/3	23/3	27/3	29/3	2/4	3/4	4/4	5/4	6/4	9/4	10/4
1.	18MEAO040001	AJITHKUMAR.R	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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45.	18MEAO040045	DUTHISAN.S	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/
Present			A3	A5	A4	A5	A2	A5	A5	A4	A3	A2	A5	A3	A2	A4	A5
Absent			2	-	1	-	3	-	-	1	2	3	-	2	3	1	-
Co-ordinator Signature			TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR

HoD-Mech

Principal

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Principal
P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401

COLLEGE OF ENGG. & TECHNOLOGY * NPR * NATHAM

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

TEST QUESTION PAPER & ANSWER

1) What are the duties of a maintenance and repair worker?

The maintenance and repair worker duties includes

- Building partitions
- Make a plaster or drywall repairs
- Fix or paint roofs
- Fix worn or broken parts
- Maintain and repair specialized equipment's
- Inspect mechanical parts like motors, belts, drives, fluid levels and perform other maintenance actions
- Drywall repairs

2) What is the skill required to become maintenance and repair worker?

To become maintenance and repair worker you must know

- Basic calculation
- Safety practices and handling tools
- Basic plumbing repair skills
- Basic knowledge of electrical wiring
- Ability to decipher written or oral instructions
- Physical agility
- Able to lift and move heavy objects

3) Mention what are the challenges that maintenance and repair work usually face?

- Unusual working condition like bad weather or low temperature
- May have to work in an unusual shift
- May have to work in a messy area
- May sometimes be physically distressing and exhausting
- May have to work in dangerous places like working at height or working with electrical appliances and wires

4) What is the potential risk that repair and maintenance work usually face?

The potential risk that repair and maintenance worker faces are

- Faulty electrical: Risk of electrocuted always remains with repair and maintenance workers, if not equipped with electric-proof tools and attires. They are prone to burns, shocks, etc.
- Lifting equipment: Workers usually have to deal with heavy metal objects and lifting equipment is not inspected or maintained then they are at risk of a fatal accident
- Maintenance of working and walking surfaces: Slippery working surfaces, sharp tools and nails scattered on working surface, slip and trip, uneven and potholed are some potential hazard that may cause an accident
- Dust: It potential risk for the workers specially working in woodworking or iron industries

5) Mention what are the precaution measures taken by the repair and maintenance worker at working site?

The precaution measures taken at the working site is

- Overhead and side clearances are adequate to permit the safe operation of the lift truck



- Aisles, floors and passageways should be kept clear and free of hazards
- To avoid the accumulation of vapours from the refueling and operation of its lift trucks, workplace should be adequately ventilated

6) What care has to be taken care when doing gas welding?

While doing gas welding worker should

- Should wear proper protective before doing gas welding
- Valve protection caps should be in a secured place
- When cutting is done, they should be secured on a pallet or springboard
- Cylinder should be transported in a vertical situation
- For lifting cylinders, valve protection caps shall not be used for lifting from one vertical position to another
- Oxygen and fittings shall be kept away from oil or grease
- Any faulty or defective equipment should be reported to the Supervisor

7) How can one become a general maintenance worker?

To become general maintenance worker the individual should learn some basic skills in high school or technical classes, community college or postsecondary trade of vocational schools. Student aspire to become maintenance worker can also observe and learn maintenance skill.

8) While doing welding what are the safety measures that worker should follow?

While doing welding, workers should follow the rules like

- Respirator or welders mask: Use mask or respirators as per your projects, match the filter to the types of metals and coatings used
- Ventilation: Welding area should have proper ventilation; improper ventilation can cause "plume poisoning."
- Clean and tidy area: Make sure the area you working is clean and check for any leaks
- Storage: Flammable substance should be kept in a proper storage locker
- Eye protection: Eye protection can protect against injuries due to debris and the effects of the ultraviolet light
- Fire protection: The sparks from welding can set fire, proper fire extinguisher should be kept in reach of the welding area
- Protective clothing: Body parts like hands and legs should be a cover with protective and clothes which can bear heat and spark emitted from the welding

9) What are the factors that can lead to the psychological risks and stress?

Psychological risk arises from

- Excessive workloads
- Psychological harassment by third party
- Conflicting demand and lack of communication
- Lack of role clarity
- Lacking decision-making skill
- Poorly managed organization
- Working in overtime

10) What does the carpentry maintenance worker do?

Carpentry maintenance worker does many things like

- Assist in measuring, marking and arranging materials according to blue-print
- Cuts and shapes materials such as wood, fiberglass and drywall manually as well as with power tools
- Assists with the repairing and constructing miscellaneous items of the wooden structure

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- Assisting with replacing of floors, wall sidings, doors, etc.
- Installation of partitions, doors and walls
- Assisting with the erection of scaffolding
- Inspect wooden structure and build forms for pouring concrete

11) Mention what are the duties of a construction maintenance worker?

- Inspect the structures and identify the cause of the problem
- Fix the broken parts and giving final finishing touch to repair and construct repairs
- Sound knowledge of using hand and power tools like wrenches, hammers and screwdrivers
- Repair and maintain system that control the temperature
- Monitor the work orders and repair jobs accordingly
- Read catalogs, blueprints and manuals
- Check prices with suppliers
- Estimate costs of a job
- Do almost all types of maintenance work

12) Mention what are the tools used by road maintenance worker?

Tools used by road maintenance worker are

- Swiss hammer
- Drills
- Jackhammers
- Road-rollers
- Epoxy guns
- Chain drags
- Pressure washers
- Sand blasters, Saws, etc.

Program

Co-ordinator

T. BalaSubramani

HoD-Mech

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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

STUDENT FEEDBACK

Name of the Student : P. AJITH KUMAR	Year / Semester: IV / VII

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices		✓		
3.	Examples Provided during this course		✓		
4.	Course delivered by Resource Person	✓			
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	It is very useful.			

Program

Co-ordinator

T. BalaSubramani

HoD-Mech

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ADD-ON COURSE MAINTENANCE OF MACHINES

STUDENT FEEDBACK

Name of the Student : JEGAN S	Year / Semester: IV / VII

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person		✓		
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	I learned different types of maintenance activities. It is very useful.			

Program

Co-ordinator

T. Bala Subramani

HoD-Mech

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

NPR College of Engineering & Technology

NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD-ON COURSE MAINTENANCE OF MACHINES

STUDENT FEEDBACK

Name of the Student : N Narayana Prabu	Year / Semester: IV / VII

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1.	Course Content	✓			
2.	Way of exposed new knowledge and practices	✓			
3.	Examples Provided during this course	✓			
4.	Course delivered by Resource Person		✓		
5.	Time Management	✓			
6.	Overall rating of this course	✓			
7.	Any Other Comments / Suggestions	It was Interesting Program I learned so many knowledge through this.			

Program

Co-ordinator

T. Bala Subramani

HoD-Mech

Head of the Department
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COLLEGE OF ENGG. & TECHNOLOGY ★ NPR ★ NATHAM

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DEPARTMENT OF MECHANICAL ENGINEERING

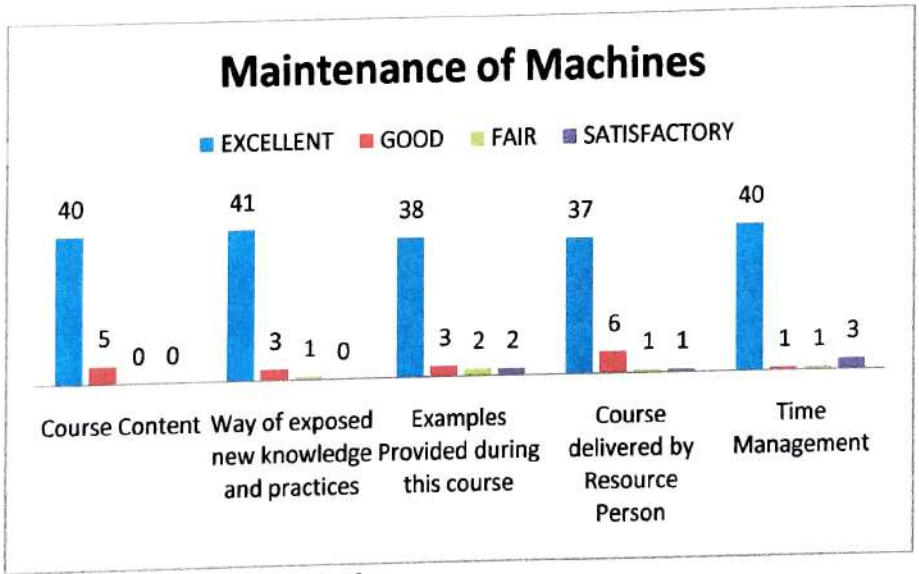
ADD-ON COURSE MAINTENANCE OF MACHINES

Student Feedback Summary Report

REGISTERED STUDENTS: 45

Date: 14.04.18

CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
Course Content	40	5	0	0
Way of exposed new knowledge and practices	41	3	1	0
Examples Provided during this course	38	3	2	2
Course delivered by Resource Person	37	6	1	1
Time Management	40	1	1	3
Overall rating of this course	39	2	2	2
AVERAGE	39.17	3.33	1.66	1.33



Program Co-ordinator

T. Bala Subramani

Hod-Mech

Head of the Department
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NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401

Principal

Principal
N.P.R. College of Engineering & Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

ADD ON COURSE ON**MAINTENANCE OF MACHINES**

SUMMARY REPORT

The Department of Mechanical Engineering organized Add-On Course On program on 'Maintenance of Machines' from 23.01.2018 to 10.04.2018 (30 Days) at Manufacturing Technology Lab room. Mr.S.Arun, IV-MECH has delivered welcome address.

Dr. B. Maruthukannan, Principalinaugurated the program delivered the inaugural address. Resources persons Mr. R. Shanmugam,Maintenance Supervisor,Mr. M. Karthik, MaintenanceSupervisorhas shared their knowledge with our students. This thirty days course gives over view about Maintenance of Machines and provides overview of an exciting growing field.They also shared their knowledge what faced on their working plants. So that students enable to have skills that will help them to resolve complex real world problems in industrial field.

The students learnt various existing and emerging technologies of Maintenance of Machines, 45 Students were attended from II and IV yearof Mechanical Engineering. Students those participated and successfully completed. Course attended students are awarded with certificates. Mr.E.Balaji, II-MECHwas delivered vote of thanks address.

Program Co-ordinator

HoD-Mech

Principal

T. BalaSubramani

Head of the Department
Department of Mechanical Engineering
NPR College of Engineering & Technology
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Principal
N.P.R. College of Engineering & Technology
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DEPARTMENT OF MECHANICAL ENGINEERING

Department of Mechanical Engineering

Add on Course on Maintenance of Machines

Course Material

Material Link:

Chapter 1: https://www.youtube.com/watch?v=f58SW0Hwcf0

Chapter 2: https://www.youtube.com/watch?v=aQeu5fynOLE

Chapter 3: https://www.youtube.com/watch?v=fFR1nYhF_iw

Chapter 4: https://www.youtube.com/watch?v=UOuTBCrW2kY

Chapter 5: https://www.youtube.com/watch?v=UhMH7JYNnCI

Further Study:

1. Bhattacharya S.N., "Installation, Servicing and Maintenance", S. Chand and Co., 1995
2. White E.N., "Maintenance Planning", I Documentation, Gower Press, 1979.
2. Garg M.R., "Industrial Maintenance", S. Chand & Co., 1986.
3. Higgins L.R., "Maintenance Engineering Hand book", 5th Edition, McGraw Hill, 1988.
4. Armstrong, "Condition Monitoring", BSIRSA, 1988.
5. Davies, "Handbook of Condition Monitoring", Chapman & Hall, 1996.
6. "Advances in Plant Engineering and Management", Seminar Proceedings - IIPE, 1996.
7.Srivastava S.K., "Industrial Maintenance Management", S. Chand and Co., 1981
8. Venkataraman .K "Maintancence Engineering and Management", PHI Learning, Pvt. Ltd.

Program
Co-ordinator

HoD-Mech

Principal

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Department of Mechanical Engineering

Certificate of Completion

This certificate is presented to

Mr. S. Duthisan, IV Mech

For successful completion of Add on Course on 'Maintenance of Machines'

Conducted from 23.01.2018 to 10.04.2018

HoD

Mr.K.Aruna Senthil Kumar

ATTESTED

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Principal

Dr.B.Maruthukannan

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Department of Mechanical Engineering

Certificate of Completion

This certificate is presented to

Mr. R. Raghul. IV Mech

For successful completion of Add on Course on 'Maintenance of Machines'

Conducted from 23.01.2018 to 10.04.2018

HoD

Mr.K.Aruna Senthil Kumar

ATTESTED

Dr. J.SUNDARARAJAN,
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Principal
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Natham, Dindigul (Dt) - 624 401.

Principal

Dr.B.Maruthukannan

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Department of Mechanical Engineering

Certificate of Completion

This certificate is presented to

Mr. S. Vinoth IV Mech

For successful completion of Add on Course on 'Maintenance of Machines'

Conducted from 23.01.2018 to 10.04.2018

HoD

Mr.K.Aruna Senthil Kumar

ATTESTED

J.SUNDARARAJAN,
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Principal
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Principal

Dr.B.Maruthukannan

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Department of Mechanical Engineering

Certificate of Completion

This certificate is presented to

Mr. K. Suresh. IV- Mech

For successful completion of Add on Course on 'Maintenance of Machines'

Conducted from 23.01.2018 to 10.04.2018

HoD

Mr.K.Aruna Senthil Kumar

ATTESTEL

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
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Principal

Dr.B.Maruthukannan

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Department of Mechanical Engineering

Certificate of Completion

This certificate is presented to

Mr. A. Balaji IV - Mech

For successful completion of Add on Course on 'Maintenance of Machines'

Conducted from 23.01.2018 to 10.04.2018

HoD

Mr.K.Aruna Senthil Kumar

ATTESTED

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Principal

Dr.B.Maruthukannan

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Department of Mechanical Engineering

Certificate of Completion

This certificate is presented to

Mr. V Harimathi IV - Mech

For successful completion of Add on Course on 'Maintenance of Machines'

Conducted from 23.01.2018 to 10.04.2018

HoD

Mr.K.Aruna Senthil Kumar

ATTESTED

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Principal

Dr.B.Maruthukannan

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

INDEX

COURSE CODE & NAME: **17BAA001 &DIGITAL MARKETING**

ACADEMIC YEAR : 2017 -2018 SEMESTER:ODD DURATION: 30 HOURS

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PROGRAM COORDINATOR

HoD/MBA

Head of the Department
Department of MBA
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IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401

PRINCIPAL

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NPR College of Engineering & Techn
Natham, Dindigul (Dt) - 624 401

04.12.2017

From

The Head of the Department,
Department of Management Studies.
NPR College of Engineering & Technology.
Natham.

To

The Principal.
NPR College of Engineering & Technology.
Natham.

Sub: Request for Permission to Conduct Add on course for MBA students - reg.

Respected Sir,

We have planned to Conduct a Add on course on "Digital Marketing" to our MBA students from 19.12.2017 to 23.12.2017 in our college Premises. We proposed Mrs. V. Kaveri, MBA., MPhil., PGDOMS, (Ph.D)., Assistant Professor Agni school of Business Excellence Dindigul. Kindly Permit us to Conduct the same.

Thanking you,

Yours sincerely,

Head of the Department i/c
Department of MBA
NPR College of Engineering & Technology
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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

RESOURCE PERSON PROFILE

Name	:	Mrs.V.KAVERI, MBA., M.Phil., PGDMM, (Ph.D).,
Designation	:	Assistant Professor,
Company Name	:	Agni School of Business Excellence, Dindigul.
About Resource Person	:	Kaveri is a passionate academician, researcher in Management Studies, with 10 years of accomplished experience in Management Studies. She is presently working as an Assistant Professor in Management Studies at Agni School of Business Excellence, Dindigul. She is an active team player, good motivator, student psychological counsellor. She is having an academic administration experience and also an in-charge of both internal and Anna University Examinations. She has completed B.Com, MBA, M.Phil, and doing Ph.D, in Management in Gandhigram Rural Institute - Deemed University, Dindigul.

NPR COLLEGE OF ENGG & TECHNOLOGY NATHAM

PROGRAM COORDINATOR

HOD/MBA

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

CIRCULAR

DATE: 11.12.2017

This is to inform that **Department of Management Studies** is planned to conduct anAdd - on course on **"DIGITAL MARKETING"** for the students during this semester **2017-2018**. Interested students can enroll their name to the program coordinator on or before **15.11.2017**.The details of the training program are given below.

COURSE NAME	:	**DIGITAL MARKETING**
RESOURCE PERSON	:	**Mrs.V.KAVERI,** MBA., M.Phil.,PGDMM, (Ph.D)., Assistant Professor Agni School of Business Excellence, Dindigul
VENUE	:	MBASeminar Hall
DATE & DURATION	:	**19.12.2017** to **23.12.2017 & 30 HOURS**
PROGRAM COORDINATOR	:	Ms.K.Narmatha, Assistant Professor, Department of Management Studies, NPR College of Engineering &Technology

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Copy to:

1. All the HoDs
2. All the Class Rooms
3. Notice Board
4. File
5. Program Coordinator

NPR College of Engineering & Technology

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The Management, Principal, Faculty and Students of Department of Management Studies cordially invite you for

ADD ON COURSE

On

DIGITAL MARKETING

Date: 19 December 2017 ***Time:*** 10.00 AM

VENUE:

NPR MBA Seminar Hall

Resource Person

Mrs.V.KAVERI MBA., M.Phil., PGDMM, (Ph.D).,
Assistant Professor
Agni School of Business Excellence, Dindigul

Dr. B. MARUTHUKANNAN
Principal
NPR College of Engineering & Technology
felicitates the function

Organized by

Department of Management Studies
NPR College of Engineering & Technology

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

COURSE CONTENT

CHAPTER 1:

- Introduction to Digital Marketing
- SEO Optimization
- Introduction to CRM

CHAPTER 2:

- Introduction to CRM
- Email Marketing
- Competitor and Website Analysis

CHAPTER 3:

- Market Research & Niche Potential
- Content Creation, Management & Promotion
- Introduction to Web Analytics
- Mobile Marketing

CHAPTER 4:

- Social Media Marketing
- Digital Marketing Budgeting, Planning & Forecast
- Digital Marketing Project Management

CHAPTER 5:

- Product Marketing (Facebook, Instagram, Google Ads)
- Affiliate Marketing
- Website Data Analytics
- Paid Ads Optimization Strategies
- Neuro-Marketing Fundamentals

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 60% marks in the Exam.

Prepared By: Ms.K.Narmatha, AP/MBA

Approved by,

PROGRAM COORDINATOR

HoD/MBA

Head of the Department
Department of MBA
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

IQAC

Coordinator - IQAC
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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

REGISTERED STUDENTS NAME LIST

Sl. No	Register No	STUDENT NAME	YEAR
1	920816631001	AMSAVALLI.T	II
2	920816631002	ANTONY JOSEPH PRASANTH.M	II
3	920816631003	DIVYA.K	II
4	920816631004	DURKA.K	II
5	920816631005	GAYATHRI.V	II
6	920816631006	JESINTHA MARY.T	II
7	920816631007	KAMAL SAV.G	II
8	920816631008	KAVIPRIYA.A	II
9	920816631009	KEERTHIKA.J	II
10	920816631010	MURUGAN.R	II
11	920816631012	SHANMUGAPRIYA.S	II
12	920816631013	SIBITHRA.R	II
13	920817631001	ALAMELUINDHU	I
14	920817631004	ASHOK KUMAR	I
15	920817631007	CRUZ ANTONY	I
16	920817631009	DHANALAKSHMI	I
17	920817631012	JAKCO NELSON	I
18	920817631014	JUNAITHA BANU	I
19	920817631015	KARTHIGA	I
20	920817631016	KARTHIGAYENI	I
21	920817631018	MANIKUMAR	I
22	920817631025	NARMADHA	I
23	920817631026	NIRRANJANA	I
24	920817631027	PARKAVI	I
25	920817631029	PRIYADHARSHINI	I
26	920817631031	SABEENA BEGAM	I
27	920817631036	VIJAYA LAKSHMI	I
28	920817631040	VINCE C	I

PROGRAM COORDINATOR

HoD/MBA
Head of the Department
Department of MBA
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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

COURSE SCHEDULE

Venue :MBA Seminar Hall

External Resource Persons : Mrs.V.Kaveri

Internal Resource Persons : Ms.K.Narmatha

Date : 19.12.2017 to 23.12.2017

Date	9.30 a.m. to11.10 a.m.	11.10 a.m.to 11.30 a.m.	11.30 a.m.to 1.10 p.m.	1.10 p.m. to 2.00 p.m.	2.00 p.m. to 3.40 p.m.	3.40 p.m. to 3.50 p.m.	3.50 p.m. to 4.30 p.m.
Day 1 19.12.2017	**SESSION I**	Break	**SESSION II Mrs.V.Kaveri**	Lunch	**SESSION III Ms.K.Narmatha**	Break	**SESSION IV Mrs.V.Kaveri**
	Inauguration		Introduction to Digital Marketing, SEO Optimization		Digital Marketing		Introduction to CRM
Day 2 20.12.2017	**SESSION I Mrs.V.Kaveri**		**SESSION II Ms.K.Narmatha**		**SESSION III Mrs.V.Kaveri**		**SESSION IV Ms.K.Narmatha**
	Introduction to CRM		Introduction to CRM		Email Marketing		Competitor and Website Analysis
Day 3 21.12.2017	**SESSION I Mrs.V.Kaveri**		**SESSION II Ms.K.Narmatha**		**SESSION III Mrs.V.Kaveri**		**SESSION IV Ms.K.Narmatha**
	Market Research & Niche Potential		Creation, Management & Promotion		Introduction to Web Analytics		Mobile Marketing
Day 4 22.12.2017	**SESSION I Mrs.V.Kaveri**		**SESSION II Ms.K.Narmatha**		**SESSION III Mrs.V.Kaveri**		**SESSION IV Ms.K.Narmatha**
	Social Media Marketing		Planning & Forecast		Digital Marketing Budgeting, Planning & Forecast		Digital Marketing Project Management
Day 5 23.12.2017	**SESSION I Mrs.V.Kaveri**		**SESSION II Ms.K.Narmatha**		**SESSION III Mrs.V.Kaveri**		**SESSION IV**
	Product Marketing (Facebook)		Website Data Analytics Affiliate Marketing		Paid Ads Optimization Strategies		Valediction

PROGRAM COORDINATOR **HoD/MBA** **IQAC** **PRINCIPAL**

Head of the Department
Department of MBA
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401

Coordinator - IQAC
NPR College of Engineering & Technology
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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

STUDENTS ATTENDANCE

Sl. No	Register No	STUDENT NAME	YR	19.12.2017		20.12.2017		21.12.2017		22.12.2017		23.12.2017	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	920816631001	AMSAVALLI.T	II	A	A	/	/	/	/	/	/	/	/
2	920816631002	ANTONY PRASANTH.M	II	/	/	/	/	/	/	/	/	/	/
3	920816631003	DIVYA.K	II	/	/	/	/	/	/	/	/	/	/
4	920816631004	DURKA.K	II	/	/	/	/	/	/	/	/	/	/
5	920816631005	GAYATHRI.V	II	/	/	/	/	/	/	/	/	/	/
6	920816631006	JESINTHA MARY.T	II	/	/	A	A	/	/	/	/	/	/
7	920816631007	KAMAL SAV.G	II	/	/	/	/	/	/	/	/	/	/
8	920816631008	KAVIPRIYA.A	II	/	/	/	/	A	A	/	/	/	/
9	920816631009	KEERTHIKA.J	II	/	/	/	/	/	/	/	/	/	/
10	920816631010	MURUGAN.R	II	/	/	/	/	/	/	/	/	A	A
11	920816631012	SHANMUGAPRIYA.S	II	/	/	/	/	/	/	/	/	/	/
12	920816631013	SIBITHRA.R	II	/	/	/	/	/	/	/	/	/	/
13	920817631001	ALAMELUINDHU	I	/	/	/	/	/	/	/	/	/	/
14	920817631004	ASHOK KUMAR	I	/	/	/	/	/	/	/	/	/	/
15	920817631007	CRUZ ANTONY	I	/	/	/	/	/	/	/	/	/	/
16	920817631009	DHANALAKSHMI	I	/	/	/	/	/	/	/	/	/	/
17	920817631012	JAKCO NELSON	I	/	/	/	/	/	/	/	/	/	/
18	920817631014	JUNAITHA BANU	I	/	/	/	/	/	/	/	/	/	/
19	920817631015	KARTHIGA	I	/	/	/	/	/	/	/	/	/	/
20	920817631016	KARTHIGAYENI	I	/	/	/	/	/	/	/	/	/	/
21	920817631018	MANIKUMAR	I	/	/	/	/	/	/	/	/	/	/
22	920817631025	NARMADHA	I	/	/	/	/	/	/	/	/	/	/
23	920817631026	NIRRANJANA	I	/	/	/	/	/	/	/	/	/	/
24	920817631027	PARKAVI	I	/	/	/	/	/	/	/	/	/	/
25	920817631029	PRIYADHARSHINI	I	/	/	/	/	/	/	/	/	/	/
26	920817631031	SABEENA BEGAM	I	/	/	/	/	/	/	/	/	/	/
27	920817631036	VIJAYA LAKSHMI	I	/	/	/	/	/	/	/	/	/	/
28	920817631040	VINCE C	I	/	/	/	/	/	/	/	/	/	/
Present				27	27	27	27	27	27	28	28	27	27
Absent				1	1	1	1	1	1	1	1	1	1
Faculty Signature													

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PROGRAM COORDINATOR

HoD/MBA

Head of the Department
Department of MBA
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

PRINCIPAL

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE

17BAA001 & DIGITAL MARKETING

SAMPLE QUIZ QUESTION PAPER & ANSWER

1. Digital marketing is often referred to as_____.
   A. online marketing
   B. internet marketing
   C. web marketing
   D. All of the above

Answer: D. All of the above

2. Which of the following is a type of digital marketing activity?
   A. Email marketing.
   B. Social web marketing.
   C. Viral marketing.
   D. All of the above

Answer: D. All of the above

3. Which of the following is not a traditional forms of digital marketing?
   A. radio
   B. TV
   C. billboard
   D. All of the above

Answer: D. All of the above

4. What is not true about digital marketing?
   A. Digital marketing is any form of marketing products or services that involves electronic devices.
   B. Digital marketing can be done online
   C. Digital marketing cannot be done online
   D. Digital marketing is often referred to as online marketing, internet marketing or web marketing.

Answer: C. Digital marketing cannot be done online

5. How many main pillars of digital marketing?
   A. 2
   B. 4
   C. 3
   D. 5

Answer: A. 2

6. Marketing that moves away from a transaction-based effort to a conversation (i.e. two-way dialogue) and can be described as a situation or mechanism through which marketers and a customer (e.g. stakeholders) interact usually in real-time is known as:
   A. Direct Marketing
   B. Electronic
   C. Interactive Marketing
   D. Indirect Marketing



Answer: C. Interactive Marketing

7. In the first 10 years, the web was heavily used as a static publishing and/or retailing (transactional) channel. This was known as:

A. Web 2.0.
B. Web 3.0.
C. Web 1.0.
D. Web 3.0.

Answer: C. Web 1.0.

8. Digital marketing includes_____.

A. voice broadcast
B. podcasting
C. RSA
D. Both A and B

Answer: D. Both A and B

9. A website`s front - or home page should include_____

A. A lengthy description of the organization
B. Logos depicting awards the site`s designers have received
C. Links to other websites
D. None of the above

Answer: D. None of the above

10.This is the process of marketing accomplished or facilitated through the application of electronic devices, appliances, tools, techniques, technologies and or systems.

A. Direct Marketing
B. Interactive Marketing
C. Electronic Marketing
D. Internet Marketing

Answer: C. Electronic Marketing

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Answer: C. Interactive Marketing

7. In the first 10 years, the web was heavily used as a static publishing and/or retailing (transactional) channel. This was known as:

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B. Web 3.0.
C. Web 1.0.
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A. Direct Marketing
B. Interactive Marketing
C. Electronic Marketing
D. Internet Marketing

Answer: C. Electronic Marketing

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

STUDENT FEEDBACK

Name of the Student : Sibirthra. P.	Year / Semester: II / IV
Name of the Program: DIGITAL MARKETING	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices		✓		
3	Examples Provided during this course	✓			
4	Course delivered by Resource Person		✓		
5	Time Management			✓	
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	Good.			

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

STUDENT FEEDBACK

Name of the Student : Manikumar.	Year / Semester: 2/2
Name of the Program: DIGITAL MARKETING	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices	✓			
3	Examples Provided during this course		✓		
4	Course delivered by Resource Person	✓		✓	
5	Time Management				✓
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	Nil			

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

STUDENT FEEDBACK

Name of the Student : Vince. C.	Year / Semester: 2 IV
Name of the Program: DIGITAL MARKETING	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices		✓		
3	Examples Provided during this course			✓	
4	Course delivered by Resource Person				✓
5	Time Management	✓			
6	Overall rating of this course		✓		
7	Any Other Comments / Suggestions	The program teach more topics.			

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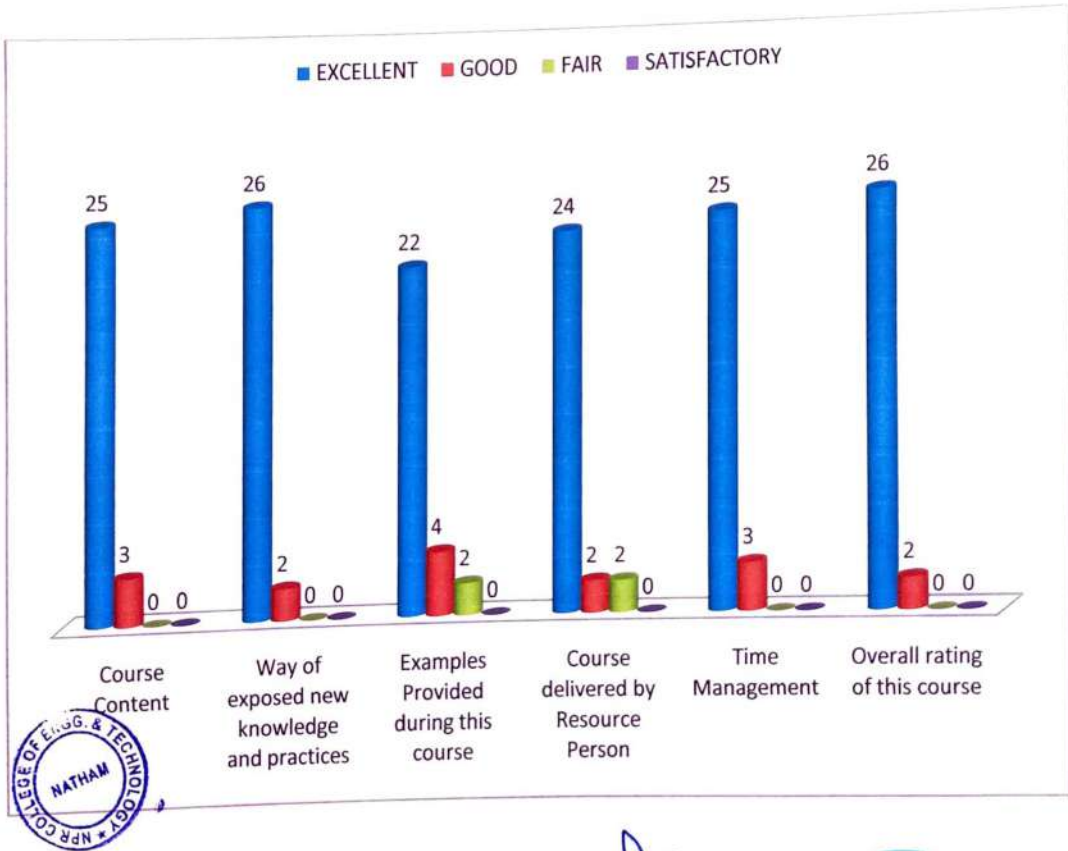
DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 28 **DATE: 24.12.2017**

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	25	3	0	0
2	Way of exposed new knowledge and practices	26	2	0	0
3	Examples Provided during this course	22	4	2	0
4	Course delivered by Resource Person	24	2	2	0
5	Time Management	25	3	0	0
6	Overall rating of this course	26	2	0	0
Average		24.67	2.67	0.67	0



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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

SUMMARY REPORT

The Department of Management Studies organized Add on Course **"DIGITAL MARKETING"** from **19.12.2017 to 23.12.2017** at MBA Seminar Hall. Ms.Gayathri.V, II MBA has delivers welcome address.

Dr.B.Maruthukannan, Principal of our college inaugurated the program delivered the inaugural address. A resources person **Mrs.V.Kaveri**, Assistant Professor of Agni School of Business has shared her knowledge with our students. This five days course gives over view about **DIGITAL MARKETING** and discusses overview of an exciting growing field ofmarketing platforms. This addon course program also taught the tools various tools for managing the various files.

They also discuss the benefits like various and different promotional techniques deployed to reach customers via digital technologies. So that students enable to have skills that will help them to think creative side for a business.The students learnt various existing and emerging technologies of DIGITAL MARKETING.

28 Students were attended from MBA I & III year. Students those participated and successfully completed the Quiz program has awarded with certificates.

Ms.Vijaya Lakshmi, I MBA was delivered vote of thanks.

NPR COLLEGE OF ENGG. & TECHNOLOGY NATHAM

PROGRAM COORDINATOR **HOD/MBA** **PRINCIPAL**

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE ON DIGITAL MARKETING

COURSE MATERIAL

MATERIAL LINK:

1. **https://www.lyfemarketing.com/blog/importance-of-digital-marketing/**
2. **https://digitalmarketinginstitute.com/blog/why-digital-marketing-is-important-for-small-business**
3. **https://blog.hubspot.com/marketing/what-is-digital-marketing**
4. **https://learndigital.withgoogle.com/digitalunlocked/course/digital-marketing**
5. **https://www.contentgarden.org/digital-marketing-fundamentals/**

REFERENCE:

1. Digital Marketing: Cases from India by Rajendra Nargundkar and RomiSainy, Notion Press, Inc
2. Understanding Digital Marketing: Marketing Strategies for Engaging the Digital Generation by Damian Ryan, Kogan Page Publisher
3. Marketing 4.0: Moving from Traditional to Digital by Philip Kotler, Publisher Wiley
4. Digital Marketing by Seema Gupta, McGraw Hill Education
5. Fundamentals of Digital Marketing by Punit Singh Bhatia, Pearson
6. The Art of Digital Marketing: The Definitive Guide to Creating Strategic, Targeted, and Measurable Online Campaigns by Ian Dodson, Wiley Publisher

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ADD ON COURSE

ON

"DIGITAL MARKETING"

Certificate of participation

This is to certify that of Ms. Vince. C I MBA has attended the Add On course on "**DIGITAL MARKETING**" organised by **Department of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 19.12.2017 to 23.12.2017.

HOD-MBA

Dr. J.SUNDARESAN, M.E., Ph.D.,
Principal
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Natham, Dindigul (Dt) - 624 401.

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ADD ON COURSE

ON

"DIGITAL MARKETING"

Certificate of participation

This is to certify that of Mr. Kamal Rao I MBA has attended the Add On course on "**DIGITAL MARKETING**" organised by **Department of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 19.12.2017 to 23.12.2017.

HOD-MBA

Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D., Principal
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ADD ON COURSE

ON

"DIGITAL MARKETING"

Certificate of participation

This is to certify that of Ms. Keerthiga J II-MBA has attended the Add On course on "**DIGITAL MARKETING**" organised by **Department of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 19.12.2017 to 23.12.2017.

HOD-MBA

Dr. J. [illegible]
Principal
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ADD ON COURSE

ON

"DIGITAL MARKETING"

Certificate of participation

This is to certify that of Mr. Antony Prasanth. M. D. MBA has attended the Add On course on "**DIGITAL MARKETING**" organised by **Department of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 19.12.2017 to 23.12.2017.

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ADD ON COURSE
ON
"DIGITAL MARKETING"

Certificate of participation

This is to certify that of Ms. Jesintha Mary. T. I MBA has attended the Add On course on "**DIGITAL MARKETING**" organised by **Department of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 19.12.2017 to 23.12.2017.

HOD-MBA

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

INDEX

COURSE CODE & NAME : **17BACC02 & HR ANALYTICS**

ACADEMIC YEAR: 2017 -2018 SEMESTER: EVEN DURATION: 35 HOURS

S.NO	PARTICULARS	PAGE NO
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7	COURSE SCHEDULE	8
8	STUDENTS ATTENDANCE	9
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PROGRAM COORDINATOR

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IQAC

Coordinator - IQAC
NPR College of Engineering & Technology
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03.01.2018

From

The Head of the Department.
Department of Management studies.
NPR College of Engineering & Technology.
Natham.

To

The Principal.
NPR College of Engineering & Technology,
Natham.

Respected Sir,

Sub : Request for permission to Conduct Certificate Course for MBA students - Regarding.

We have planned to Conduct a Certificate Course on "HR Analytics" to our MBA students from 26.02.2018, 27.02.2018, 02.03.2018, 05.03.2018 & 12.03.2018. The Proposed chief guest is internal faculty Mr. N. Murugesan, Assistant Professor, Department of Management Studies, NPR College of Engineering & Technology as a resource person.

In addition, the Certificate Course will ensure that information delivered to students is standardized. We will also require your support in reaching out to the students.

Kindly permit us to conduct the same.

Thanking you,

Yours faithfully,

PRINCIPAL
NPR College of Engineering & Technology
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Head of the Department
Department of MBA
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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

RESOURCE PERSON PROFILE

Name	:	Mr.N.Murugesan
Designation	:	Assistant Professor - MBA
Company Name	:	NPR College of Engineering & Technology, Natham.
About Resource Person	:	Mr. N. Murugesan is currently working as an Assistant professor in the Department of Management Studies. NPR College of Engineering and Technology, Natham since July 2015. He has completed his MBA in the specialization of HR and Finance in 2011. After that he has 1 year experience as a HR Executive in MMC Info tech Private Ltd., Chennai, from March-2012 to April-2013. Then he has 2 years experience of Assistant professor in Sree Vee Business School from June 2013 - July 2015.

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

RESOURCE PERSON PROFILE

Name	:	Mr.N.Murugesan
Designation	:	Assistant Professor - MBA
Company Name	:	NPR College of Engineering & Technology, Natham.
About Resource Person	:	Mr. N. Murugesan is currently working as an Assistant professor in the Department of Management Studies. NPR College of Engineering and Technology, Natham since July 2015. He has completed his MBA in the specialization of HR and Finance in 2011. After that he has 1 year experience as a HR Executive in MMC Info tech Private Ltd., Chennai, from March-2012 to April-2013. Then he has 2 years experience of Assistant professor in Sree Vee Business School from June 2013 - July 2015.

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

DATE: **19.02.2018**

CIRCULAR

This is to inform that the Department of **Management Studies** is planned to conduct a Certificate Courseon **"HR ANALYTICS"** for I & II year MBA Students in our college campus during 2017 - 2018. Interested students can enroll their name to the program coordinator on or before 22.02.2018. The details of the training program are given below.

COURSE NAME	:	**HR ANALYTICS**
RESOURCE PERSON	:	**Mr.N.MURUGESAN, MBA.,** Assistant Professor NPR College of Engineering & Technology, Natham.
VENUE	:	MBA Seminar Hall
DATE & DURATION	:	**26.02.2018** **27.02.2018** **02.03.2018** **05.03.2018** **12.03.2018 & 35 HOURS**

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3. Notice Board
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5. Program Coordinator

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The Management, Principal, Faculty and Students of Department of Management Studies cordially invite you for

ADD ON COURSE

On

HR ANALYTICS

Date: 26.02.2018 ***Time:*** 10.00 AM

VENUE:

NPRCET MBA Seminar Hall

Resource Person

Mr.N.MURUGESAN *M.B.A.,*
Assistant Professor - MBA
NPR College of Engineering & Technology

Dr.B.MARUTHUKANNAN
Principal
NPR College of Engineering and Technology
felicitates the function

Organized by

Department of Management Studies
NPR College of Engineering & Technology

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

REGISTERED STUDENTS NAME LIST

Sl. No	Register No	STUDENT NAME	YEAR	SIGNATURE
1	920816631001	AMSAVALLI.T	II	Amsavalli.T
2	920816631002	ANTONY JOSEPH PRASANTH.M	II	Antony Joseph Prasanth.M
3	920816631003	DIVYA.K	II	Divya.K
4	920816631004	DURKA.K	II	Durka.K
5	920816631005	GAYATHRI.V	II	Gayathri.V
6	920816631006	JESINTHA MARY.T	II	Jesintha mary.T
7	920816631007	KAMAL SAV.G	II	Kamal Sav.G
8	920816631008	KAVIPRIYA.A	II	KaviPriya.A
9	920816631009	KEERTHIKA.J	II	Keerthika.J
10	920816631010	MURUGAN.R	II	Murugan.R
11	920816631012	SHANMUGAPRIYA.S	II	
12	920816631013	SIBITHRA.R	II	Sibithra
13	920817631004	ASHOK KUMAR K	I	
14	920817631005	BACKIYA LAKSHMI R	I	
15	920817631009	DHANALAKSHMI R	I	
16	920817631011	GOWSALYA S	I	
17	920817631016	KARTHIGAYENI K	I	
18	920817631018	MANIKUMAR S	I	
19	920817631025	NARMADHA N	I	
20	920817631026	NIRRANJANA S	I	
21	920817631029	PRIYADHARSHINI D	I	
22	920817631031	SABEENA BEGAM S	I	
23	920817631033	SHANTHINI SR	I	
24	920817631036	VIJAYA LAKSHMI M	I	

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

COURSE CONTENT

DAY1:

- Introduction to HR Analytics
- HR Analytics 101
- Challenges Within HR Analytics
- Skill Sets

DAY2:

- Building the Business CaseVariables
- Proving Analytics' Value Using the HR Value Chain
- Applying the HR Value Chain in Real Life
- 11 Examples of Analytics Cases
- Building the Business Case for HR Analytics

DAY3:

- HR DataImplementation
- HR Data I
- HR Data II

DAY4:

- Statistics in HR
- HR Analytics Maturity
- Correlation Analysis
- Regression Analysis
- Data before Hypothesis

DAY5:

- Reporting Insights
- Predictive Analytics
- Reporting & Advising
- The Value of Visualization in HR
- Data Visualization

Criteria to get Certificate:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 57 % marks in the Exam.

Prepared by: Mr.N.Murugesan, AP-MBA

Approved by:

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Coordinator - IQAC
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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

COURSE SCHEDULE

Venue : MBA Seminar Lab

Internal Resource Persons : Mr.N.Murugesan, AP/MBA

Program Coordinator : Ms.K.Narmatha, AP/MBA

Date : 26.02.2018 to 12.03.2018

Date	9.30 a.m. to 11.10 a.m.	11.10 a.m.to 11.30 a.m.	11.30 a.m.to 1.10 p.m.	1.10 p.m. to 2.00 p.m.	2.00 p.m. to 3.40 p.m.	3.40 p.m. to 3.50 p.m.	3.50 p.m. to 4.30 p.m.
Day 1 26.02.2018	**SESSION I**	Break	**SESSION II Mr.N.Murugesan**	Lunch	**SESSION III Mr.N.Murugesan**	Break	**SESSION IV Ms.K.Narmatha**
	Inauguration		Introduction to HR Analytics		Challenges Within HR Analytics		Skill Sets
Day 2 27.02.2018	**SESSION I Mr.N.Murugesan**		**SESSION II Ms.K.Narmatha**		**SESSION III Mr.N.Murugesan**		**SESSION IV Mr.N.Murugesan**
	Building the Business CaseVariables		Proving Analytics' Value Using the HR Value Chain		Applying the HR Value Chain in Real Life		Building the Business Case for HR Analytics
Day 3 02.03.2018	**SESSION I Mr.N.Murugesan**		**SESSION II Mr.N.Murugesan**		**SESSION III Ms.K.Narmatha**		**SESSION IV Mr.N.Murugesan**
	HR Data Implementation		HR Data I		HR Data II		PRACTICAL
Day 4 05.03.2018	**SESSION I Mr.N.Murugesan**		**SESSION II Mr.N.Murugesan**		**SESSION III Mr.N.Murugesan**		**SESSION IV Ms.K.Narmatha**
	Statistics in HR		HR Analytics Maturity		Correlation Analysis Regression Analysis		Data Before Hypothesis?
Day 5 31.03.2018	**SESSION I Ms.K.Narmatha**		**SESSION II Mr.N.Murugesan**		**SESSION III Mr.N.Murugesan**		**SESSION IV**
	Reporting Insights Predictive Analytics		Reporting & Advising		The Value of Visualization in HR		Valedictory

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

STUDENTS ATTENDANCE

Sl. No	Register No	STUDENT NAME	YR	26.02.18		27.02.18		02.03.18		05.03.18		12.03.18	
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	920816631001	AMSAVALLI.T	II	P	P	P	P	P	P	P	P	P	P
2	920816631002	ANTONY PRASANTH.M	II	P	P	P	P	P	P	P	P	P	P
3	920816631003	DIVYA.K	II	P	P	P	P	P	P	P	P	A	A
4	920816631004	DURKA.K	II	P	P	P	P	P	P	P	P	P	P
5	920816631005	GAYATHRI.V	II	P	P	A	A	P	P	P	P	P	P
6	920816631006	JESINTHA MARY.T	II	P	P	P	P	P	P	P	P	P	P
7	920816631007	KAMAL SAV.G	II	P	P	P	P	P	P	P	P	P	P
8	920816631008	KAVIPRIYA.A	II	P	P	P	P	P	P	P	P	P	P
9	920816631009	KEERTHIKA.J	II	P	P	P	P	P	P	P	P	P	P
10	920816631010	MURUGAN.R	II	P	P	P	P	P	P	P	P	P	P
11	920816631012	SHANMUGAPRIYA.S	II	A	A	P	P	P	P	P	P	P	P
12	920816631013	SIBITHRA.R	II	P	P	P	P	P	P	P	P	P	P
13	920817631004	ASHOK KUMAR K	I	P	P	P	P	P	P	P	P	P	P
14	920817631005	BACKIYA LAKSHMI R	I	P	P	P	P	P	P	P	P	P	P
15	920817631009	DHANALAKSHMI R	I	P	P	P	P	P	A	A	A	P	P
16	920817631011	GOWSALYA S	I	P	P	P	P	P	P	P	P	P	P
17	920817631016	KARTHIGAYENI K	I	P	P	P	P	P	P	P	P	P	P
18	920817631018	MANIKUMAR S	I	P	P	P	P	P	P	P	P	P	P
19	920817631025	NARMADHA N	I	P	P	P	P	P	P	P	P	P	P
20	920817631026	NIRRANJANA S	I	P	P	P	P	P	P	P	P	P	P
21	920817631029	PRIYADHARSHINI D	I	P	P	P	P	P	P	P	P	P	P
22	920817631031	SABEENA BEGAM S	I	P	P	P	P	P	P	P	P	P	P
23	920817631033	SHANTHINI SR	I	P	P	P	P	P	P	P	P	P	P
24	920817631036	VIJAYA LAKSHMI M	I	P	P	P	P	P	P	P	P	P	P
Present				23	23	23	23	24	23	23	23	23	23
Absent				1	1	1	1	Nil	1	1	1	1	1
Faculty Signature													

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

QUIZ QUESTION PAPER & ANSWER

1. Employee turnover rate focuses on stability of employee in the organization.
   A. True
   B. False
2. What does a tree diagram is used for?
   A. Allow a Team to Identify Root Causes B. Show a Causality Relationship
   C. Present Data from a Check Sheet D. Reveal the True Level of a Problems
   Complexity
3. Which type of data place things in one of two mutually exclusive categories
   A. Binomial B. Nominal
   C. Discrete D. None of the above
4. Which type of data involves, items being assigned to categories that do have some kind of implicit or natural order
   A. Binomial B. Nominal
   C. Ordinal D. None of the above
5. Benefits that are required by law to provide to all employees are called
   A. Medical Benefits B. Direct Benefits
   C. Indirect Benefits D. Statutory Benefits
6. Who has defined personnel management as a field of management which has to do with planning and controlling various operative functions of procuring, developing, maintaining and utilising about force?
   (a) Harold Koontz (b) Glueck
   (c) Michael Jucius (d) Flippo
7. Resources and capabilities that serve as a source of competitive advantage for a firm over its rivals are called _____.
   (a) Core competency (b) Core competence
   (c) Competitive advantage (d) Competency
8. Human Resource planning is compulsory for _____.
   (a) Effective employee development programme (b) Base for recruitment
   (c) Base for selection policy (d) All of these
9. Job analysis, HR planning, recruitment, selection, placement, inductions and internal mobility are few important functions which come under the heading of_____ of HRM.
   (a) Integration function (b) Development
   (c) Maintenance (d) Procurement function
10. Directing is one of the important functions of HRM which comes under_____.
   (a) Managerial function (b) Operative function
   (c) Technical function (d) Behavioral function

Answers:

1. b 2.d 3.a 4.d 5.d 6.c 7.d 8.a 9.a 10.a

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

STUDENT FEEDBACK

Name of the Student : Ashok Kumar .K.	Year / Semester:
Name of the Program: HR ANALYTICS	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content				✓
2	Way of exposed new knowledge and practices	✓			
3	Examples Provided during this course			✓	
4	Course delivered by Resource Person	✓			
5	Time Management		✓		
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	Good.			

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DEPARTMENT OF MANAGEMENT STUDIES

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STUDENT FEEDBACK

Name of the Student : Shanthini. S.R.	Year / Semester: II / III
Name of the Program: HR ANALYTICS	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices		✓		
3	Examples Provided during this course			✓	
4	Course delivered by Resource Person	✓			
5	Time Management		✓		
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	I got more knowledge about HR Analytics.			

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

STUDENT FEEDBACK

Name of the Student : Gayathri. V	Year / Semester: II / IV.
Name of the Program: HR ANALYTICS	

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	✓			
2	Way of exposed new knowledge and practices		✓		
3	Examples Provided during this course	✓			
4	Course delivered by Resource Person			✓	
5	Time Management				✓
6	Overall rating of this course	✓			
7	Any Other Comments / Suggestions	This is very useful.			

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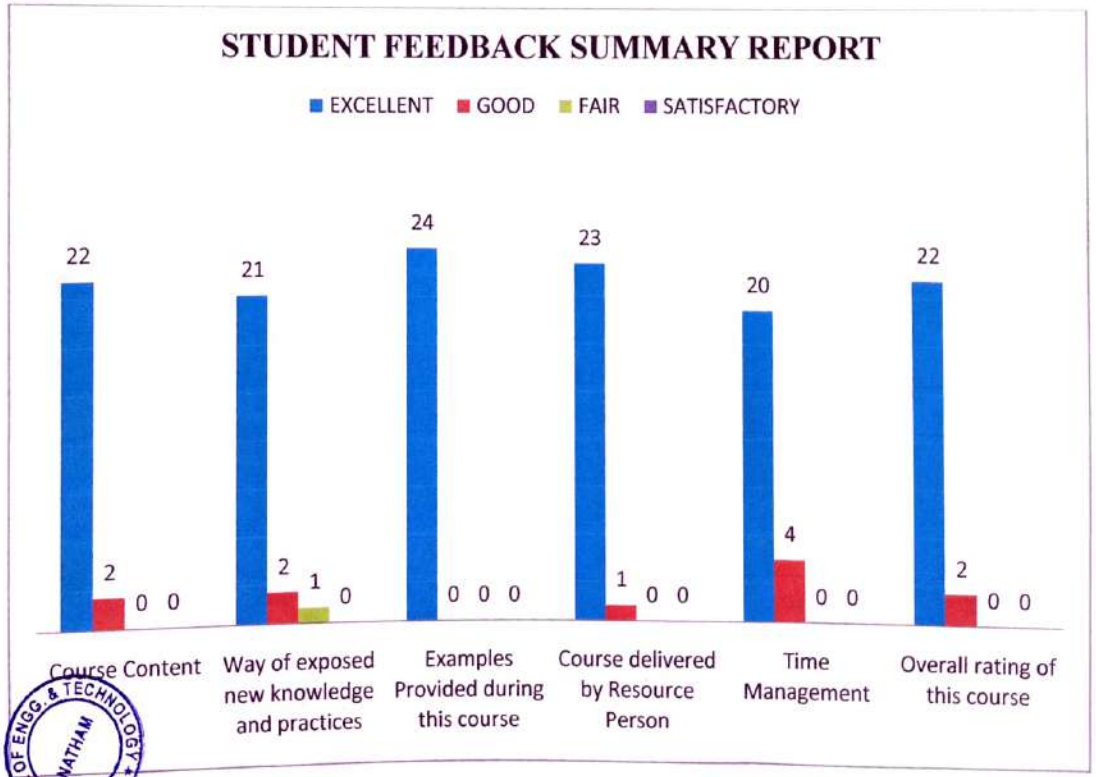
DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 24 **DATE: 13.03.2018**

S. No	CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
1	Course Content	22	2	0	0
2	Way of exposed new knowledge and practices	21	2	1	0
3	Examples Provided during this course	24	0	0	0
4	Course delivered by Resource Person	23	1	0	0
5	Time Management	20	4	0	0
6	Overall rating of this course	22	2	0	0
Average		22.00	1.83	0.17	0.00



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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

SUMMARY REPORT

Department of Management Studies organized **Add on Course** on **"HR ANALYTICS"** from **26.02.2018, 27.02.2018, 02.03.2018, 05.03.2018 & 12.03.2018**at MBA Seminar Hall.

Dr.B.Maruthukannan, Principal felicitated the course. This five days course gives over by **Mr.N.Murugesan, Asst Professor**, Department of Management Studies, NPR College of Engineering and Technology on**26.02.2018, 27.02.2018, 02.03.2018, 05.03.2018 & 12.03.2018** view about **HR ANALYTICS** and role of big data. **24 Students** were attended from MBA I &II Year. Certificate will be distribute to the all the participants.This course will give an opportunity to gain expertise in one of the most fascinating and fastest growing areas of Human resource through classroom related to Recruitment, Selection, and Procurement. This course will give the audience a rigorous, advanced foundation in HRM.

The Program was concluded by Valedictory function, the dignitaries who graced the occasion were Prof. Dr. B. Maruthukannan, NPR College of Engineering & Technology, Vote of thanks delivered by Ms.K.Narmatha, Assistant Professor, Department of Management Studies, NPR College of Engineering & Technology.

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DEPARTMENT OF MANAGEMENT STUDIES

ADD ON COURSE - HR ANALYTICS

COURSE MATERIAL

MATERIAL LINK:

- http://www.opentextbooks.org.hk/system/files/export/32/32088/pdf/Human_Resource_Management_32088.pdf
- http://ignou.ac.in/userfiles/Prof_%20Nayantara%20Padhi.pdf
- https://talenx.io/2020/06/06/what-is-hr-analytics/
- https://www.northeastern.edu/graduate/blog/human-resources-analytics/
- https://www.datapine.com/articles/workforce-people-hr-analytics

REFERENCE:

1. Human Analytics (2nd Edition) by P Jyothi, Oxford University Press.
2. Human Analytics (14th Edition) by Gary Dessler& Biju Varkkey, Pearson Publishers.
3. Human Analytics by C B Gupta, Sultan Chand & sons.

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ADD ON COURSE

ON

"HR ANALYTICS"

Certificate of participation

This is to certify that M.S. K. Divya II MBA. has attended the Add On course on "**HR ANALYTICS**" organised by **Department Of Management Studies,** NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 26.02.2018 to 12.03.2018.

HOD-MBA

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

PRINCIPAL

NPR COLLEGE OF ENGINEERING & TECHNOLOGY

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Website: www.nprcolleges.org, www.nprcet.org Email:nprgi@nprcolleges.org

ADD ON COURSE
ON
"HR ANALYTICS"

Certificate of participation

This is to certify that Ms. Kavipriya. D MBA has attended the Add On course on "**HR ANALYTICS**" organised by **Department Of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 26.02.2018 to 12.03.2018.

HOD-MBA

Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

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ADD ON COURSE

ON

"HR ANALYTICS"

Certificate of participation

This is to certify that Ms. Dharalakshmi. R II-MBA has attended the Add On course on "**HR ANALYTICS**" organised by **Department Of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 26.02.2018 to 12.03.2018.

HOD-MBA

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Certificate of participation

This is to certify that Mr. Mani Kumar S I-MBA has attended the Add On course on "**HR ANALYTICS**" organised by **Department Of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 26.02.2018 to 12.03.2018.

HOD-MBA

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Certificate of participation

This is to certify that Ms. Shanthini. R I-MBA has attended the Add On course on "**HR ANALYTICS**" organised by **Department Of Management Studies**, NPR COLLEGE OF ENGINEERING & TECHNOLOGY from 26.02.2018 to 12.03.2018.

HOD-MBA

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DEPARTMENT OF SCIENCE & HUMANITIES

ADD ON COURSE ON VERBAL COMMUNICATION I

INDEX

COURSE CODE & NAME: **17SHAO01 & VERBAL COMMUNICATION I**

ACADEMIC YEAR: 2017-2018 SEMESTER: ODD DURATION: 32HOURS

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PROGRAM COORDINATOR HoD/S&H IQAC PRINCIPAL

Head of the Department
Department of Mathematics
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

Coordinator - IQAC
NPR College of Engineering & Technology
Natham, Dindigul (Dt)-624 401.

PRINCIPAL
N.P.R. COLLEGE OF ENGINEERING & TECHNOL
NATHAM - 624 401.

From

K. Yoganath,
Head of the Department,
Department of Science & Humanities,
NPR College of Engineering & Technology,
Natham.

To

The Principal,
NPR College of Engineering & Technology,
Natham.

Respected Sir,

Subject: Requesting permission to Conduct Add on Course for I year students - Reg.

We have planned to Conduct Add on Course on Verbal Communication - I to our students from 9/10/17 to 30/10/17 [9/10/17, 10/10/17, 11/10/17, 12/10/17, 13/10/17, 14/10/17, 16/10/17, 20/10/17, 23/10/17, 24/10/17, 25/10/17, 26/10/17, 27/10/17, 28/10/17, 30/10/17] in Our College premises.

We proposed Mr. G. Balaji, AP(SG)-English & Mrs. T. Kavitha AP-English as the resource persons from Our College for this program. Kindly permit us to Conduct the same.

Thanking You.

Yours faithfully,

Y.gm

place: Natham
Date: 25/9/2017

NPR COLLEGE OF ENGG. & TECHNOLOGY * NATHAM

/ FORWARDED TO ADMIN. OFFICE /

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DEPARTMENT OF SCIENCE & HUMANITIES

ADD ON COURSE ON VERBAL COMMUNICATION I

RESOURCE PERSONS PROFILE

Name : Mr. G. Balaji

Designation : Associate Professor

Institution Name : NPR College of Engineering And Technology, Natham.

About Resource Person : He has been working as the Head of the Department, English in NPR College of Engineering & Technology. He has 12 years of experience in the teaching field. His area of interest is literature and communication.

Name : Mrs. I. Kavitha

Designation : Assistant Professor

Institution Name : NPR College of Engineering And Technology, Natham.

About Resource Person : She has been working as an Assistant Professor, English in NPR College of Engineering & Technology. She has 10 years of experience in the teaching field. Her area of interest is Literature and Novels.

NPR COLLEGE OF ENGG. & TECH. NATHAM

PROGRAM COORDINATOR

HoD/S&H

Head of the Department
Department of Mathematics
NPR College of Engineering & Technology
Natham, Dindigul (DT) - 624 401.

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NPRCET/OFF/S&H/VAC/2017-2018 DATE: 28.09.2017

CIRCULAR

This is to inform that Department of Science & Humanities is planned to conduct an Add on Course on **"VERBAL COMMUNICATION I"** for I year students. Interested students can enroll their name to the program coordinator on or before 05.10.2017.

The details of the training program are given below.

COURSE NAME : **VERBAL COMMUNICATION I**

RESOURCE PERSONS : 1.Mr. G. Balaji
Assistant professor
NPR College of Engineering and Technology, Natham.

2.Mrs. I. Kavitha
Assistant professor
NPR College of Engineering and Technology, Natham.

VENUE : EG - DRAWING HALL

DATE & DURATION : 09.10.17, 10.10.17, 11.10.17, 12.10.17, 13.10.17,
14.10.17, 16.10.17, 20.10.17, 21.10.17, 23.10.17,
24.10.17, 25.10.17, 26.10.17, 27.10.17, 28.10.17,
30.10.2017 & 32 Hours

PROGRAM COORDINATOR : Mrs. P. Anarkale, AP/English
NPR College of Engineering & Technology

NPR COLLEGE OF ENGG. & TECH. NATHAM

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NATHAM - 624 401.

Copy to:

1. All the HoDs
2. All the Classrooms
3. Notice Board
4. File
5. Program Coordinator

NPR College of Engineering & Technology

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The Management, Principal, Staff and Students

Cordially invite you for the inauguration of

"Add On Course on Verbal Communication I"

On 9th Oct, 2017

Venue: EG – Drawing Hall at 9.30 A.M.

Inaugural Address

Mr.G.Balaji,

NPR College of Engineering & Technology.

Felicitation Address

Dr. B. Maruthu Kannan

Principal,

NPR College of Engineering & Technology

Organized by

Department of Science & Humanities,

NPR College of Engineering and Technology,

NPR Nagar, Natham.

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DEPARTMENT OF SCIENCE AND HUMANITIES

ADD ON COURSE ON VERBAL COMMUNICATION I

COURSE CONTENT

Chapter 1: Aspects of Communication

Introduction of communication skills - characteristics of language- Importance and benefits of effective communication Analysis vs. Reporting

Chapter 2: Types of Communication

Components and process of communication - Better Public speaking &Presentation - The 7 C's of effective communication I

Chapter 3: History of Literature

History of English Language - Literary Forms - Mass Communication - Journalism

Chapter 4: Network of Communication

Summary and class discussion - 'Ice Breakers in communication

Chapter 5: Oral Communication

Jargon Busting (Communication without creating barriers) - Questioning Techniques

Criteria to getCertificate:

- Students should register their names for this course
- Students must have 85% attendance.
- Student should secure 50% marks in the Exam.

Prepared By: Mrs. P. Anarkale, AP/ English P. Anarkale

Approved by,

COLLEGE OF ENGG. & TECHNOLOGY * NPR * NATHAM

HoD/S&H

IQAC

PRINCIPAL

Head of the Department
Department of Mathematics
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Natham, Dindigul (DT) - 624 401.

Coordinator - IQAC
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DEPARTMENT OF SCIENCE& HUMANITIES
ADD ON COURSE ON VERBAL COMMUNICATION I
REGISTERED STUDENTS NAME LIST

S. No	Register Number	Student Name	Year
1.	920817103001	AAKASH.C	I CIVIL
2.	920817103002	ABINAYA.N.S.	I CIVIL
3.	920817103008	DEIVENDRAN.S	I CIVIL
4.	920817103009	DHAYUB NAVASH KHAN.S	I CIVIL
5.	920817103010	GOKUL.S	I CIVIL
6.	920817103011	GOWTHAM.S	I CIVIL
7.	920817103012	GUHAN.S	I CIVIL
8.	920817103015	KARTHIKEYAN.D	I CIVIL
9.	920817103017	LOGESH.T	I CIVIL
10.	920817103018	MANIKANDAN.K	I CIVIL
11.	920817103019	MANOJ PRABHAKAR.N	I CIVIL
12.	920817103025	POTHIYALAGAN.C	I CIVIL
13.	920817103026	PREMKUMAR.K	I CIVIL
14.	920817103029	RAMANASWETHA.U.B	I CIVIL
15.	920817103037	SURYA.R	I CIVIL
16.	920817103038	SURYANARAYANAN.V.M	I CIVIL
17.	920817103041	VISITHRA.K	I CIVIL
18.	920817104001	AARTHI R	I CSE
19.	920817104002	ABIRAMI M	I CSE
20.	920817104003	AISHWARYA A	I CSE
21.	920817104004	AISHWARYA R(16.09.99)	I CSE
22.	920817104005	AISHWARYA R(12.12.99)	I CSE
23.	920817104006	AISHWERYA SRI R	I CSE
24.	920817104009	AMRUTHAA SHREE R	I CSE
25.	920817104011	BONSIYA.R	I CSE
26.	920817104012	CHELLAPANDIAN R	I CSE
27.	920817104013	DEV M	I CSE
28.	920817104022	KAVIYARASAN A	I CSE
29.	920817104023	KEERTHANA G	I CSE
30.	920817104024	KODEESWARAN S	I CSE
31.	920817104026	LOGESHWARI S	I CSE
32.	920817104032	NAGAJOTHI C	I CSE
33.	920817104035	NATHISHKUMAR R	I CSE
34.	920817104043	PREETHI A	I CSE
35.	920817104044	RAJADURAI R	I CSE
36.	920817104045	ROFINA BEGAM N	I CSE
37.	920817104046	SANGEERANI P	I CSE
38.	920817104047	SASTIANANDHAN M	I CSE
39.	920817104048	SHARMA A	I CSE
40.	920817104049	SUBASRI S	I CSE
41.	920817104051	VARSHA M	I CSE
42.	920817105001	ABDULAJEESH A	I EEE
43.	920817105002	ABUDHAGIR K	I EEE
44.	920817105003	ARUNKUMAR P	I EEE
45.	920817105004	CIRPA A	I EEE
46.	920817105005	DINESHKUMAR K	I EEE
47.	920817105010	MOHAMED FAIZ A	I EEE
48.	920817105011	MOHAMED RIYASDEEN A	I EEE
49.	920817105012	NISHA M	I EEE
50.	920817105018	SABARISH R	I EEE

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51.	920817105022	VIGNESH P	I EEE
52.	920817106001	AKASH R	I ECE
53.	920817106002	ARUN PANDIAN R	I ECE
54.	920817106003	ATCHAYA R	I ECE
55.	920817106004	BALACHANDAR S	I ECE
56.	920817106005	BHUVANESHWARAN S	I ECE
57.	920817106006	BHUVANESHWARI V	I ECE
58.	920817106007	DEEPA T	I ECE
59.	920817106012	DHANALAKSHMI R	I ECE
60.	920817106013	DHARINI S	I ECE
61.	920817106014	GAYATHRI A K	I ECE
62.	920817106021	JEEVITHA M	I ECE
63.	920817106024	KEERTHANA B	I ECE
64.	920817106025	KEERTHIKA K	I ECE
65.	920817106026	MADHUMITHA J A	I ECE
66.	920817106038	POOJA G S	I ECE
67.	920817106039	PREETHI G	I ECE
68.	920817106041	RAJALAKSHMI S	I ECE
69.	920817106043	SANDHURU M	I ECE
70.	920817106060	SUJITHA M	I ECE
71.	920817106061	SURYA KALA V	I ECE
72.	920817106063	THANGAKALYANI K S	I ECE
73.	920817106064	THARALAKSHMI S	I ECE
74.	920817114001	AAKASH.K	I MECH
75.	920817114002	ABDULLA BEE.A	I MECH
76.	920817114003	ABISHEK.J.D.	I MECH
77.	920817114004	AHAMED KUTHUS.S	I MECH
78.	920817114005	AKASH.G	I MECH
79.	920817114006	ALAGESAN.V	I MECH
80.	920817114007	ALAN JACOB.J	I MECH
81.	920817114008	AMEER KHAN.J	I MECH
82.	920817114015	DHANASEKARAN.R	I MECH
83.	920817114019	GOKULNATH.R	I MECH
84.	920817114020	GOWTHAM.G	I MECH
85.	920817114025	HARISH.S	I MECH
86.	920817114029	IMRAN KHAN.M	I MECH
87.	920817114059	NITHISHKUMAR.V	I MECH
88.	920817114060	PANDI.V	I MECH
89.	920817114061	PRAVEENKUMAR.P	I MECH
90.	920817114062	PRABU.M	I MECH
91.	920817114064	PRAVEENKUMAR.S	I MECH
92.	920817114074	RUTHRESH.S	I MECH
93.	920817114075	SAMSUDEEN.A	I MECH
94.	920817114087	SURYA.T	I MECH
95.	920817114089	TAMIL SELVAM.T	I MECH

PROGRAM COORDINATOR **HoD/S&H**

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DEPARTMENT OF SCIENCE & HUMANITIES

ADD ON COURSE ON VERBAL COMMUNICATION I

COURSE SCHEDULE

Venue: EG Drawing Hall

Internal Resource Persons:

1. Mr. G. Balaji

2.Mrs. I. Kavitha

S.No.	Date	Time	Topic	Resource Person
1	09.10.17	4.00 P.M to 5.00 P.M	Chapter 1 - Introduction of communication skills	Mr. G. Balaji
2	09.10.17	5.00 P.M to 6.00 P.M	Chapter 1 - Introduction of communication skills	Mr. G. Balaji
3	10.10.17	4.00 P.M to 5.00 P.M	Chapter 1 - Introduction of communication skills	Mr. G. Balaji
4	10.10.17	5.00 P.M to 6.00 P.M	Chapter 1 - characteristics of language	Mrs. I. Kavitha
5	11.10.17	4.00 P.M to 5.00 P.M	Chapter 1 - characteristics of language	Mrs. I. Kavitha
6	11.10.17	5.00 P.M to 6.00 P.M	Chapter 1 - characteristics of language	Mrs. I. Kavitha
7	12.10.17	4.00 P.M to 5.00 P.M	Chapter 1 - Importance and benefits of effective communicationAnalysis vs. Reporting	Mr. G. Balaji
8	12.10.17	5.00 P.M to 6.00 P.M	Chapter 1 - Importance and benefits of effective communicationAnalysis vs. Reporting	Mr. G. Balaji
9	13.10.17	4.00 P.M to 5.00 P.M	Chapter 2- Components and process of communication	Mrs. I. Kavitha
10	13.10.17	5.00 P.M to 6.00 P.M	Chapter 2- Components and process of communication	Mrs. I. Kavitha
11	14.10.17	4.00 P.M to 5.00 P.M	Chapter 2- Components and process of communication	Mrs. I. Kavitha
12	14.10.17	5.00 P.M to 6.00 P.M	Chapter 2- Better Public speaking &Presentation	Mr. G. Balaji
13	16.10.17	4.00 P.M to 5.00 P.M	Chapter 2- Better Public speaking &Presentation	Mr. G. Balaji
14	16.10.17	5.00 P.M to 6.00 P.M	Chapter 2- Better Public speaking &Presentation	Mr. G. Balaji
15	20.10.17	4.00 P.M to 5.00 P.M	Chapter 2- The 7 C's of effective communication I	Mrs. I. Kavitha
16	20.10.17	5.00 P.M to 6.00 P.M	Chapter 2- The 7 C's of effective communication I	Mrs. I. Kavitha
17	21.10.17	4.00 P.M to 5.00 P.M	Chapter 2- The 7 C's of effective communication I	Mrs. I. Kavitha
18	21.10.17	5.00 P.M to 6.00 P.M	Chapter 3- History of English Language	Mr. G. Balaji

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19	23.10.17	4.00 P.M to 5.00 P.M	Chapter 3- History of English Language	Mr. G. Balaji
20	23.10.17	4.00 P.M to 5.00 P.M	Chapter 3- Literary Forms	Mrs. I. Kavitha
21	24.10.17	5.00 P.M to 6.00 P.M	Chapter 3- Literary Forms	Mrs. I. Kavitha
22	24.10.17	4.00 P.M to 5.00 P.M	Chapter 3- Literary Forms	Mrs. I. Kavitha
23	25.10.17	5.00 P.M to 6.00 P.M	Chapter 3- Mass Communication	Mr. G. Balaji
24	25.10.17	4.00 P.M to 5.00 P.M	Chapter 3- Mass Communicatin	Mr. G. Balaji
25	26.10.17	5.00 P.M to 6.00 P.M	Chapter 3-Journalism	Mrs. I. Kavitha
26	26.10.17	4.00 P.M to 5.00 P.M	Chapter 3-Journalism	Mrs. I. Kavitha
27	27.10.17	5.00 P.M to 6.00 P.M	Chapter 4-Summary and class discussion	Mr. G. Balaji
28	27.10.17	4.00 P.M to 5.00 P.M	Chapter 4- 'Ice Breakers in communication	Mrs. I. Kavitha
29	28.10.17	5.00 P.M to 6.00 P.M	Chapter 4-Ice Breakers in communication	Mrs. I. Kavitha
30	28.10.17	4.00 P.M to 5.00 P.M	Chapter 5-'Jargon Busting'(Communication without creating barriers).	Mr. G. Balaji
31	30.10.17	5.00 P.M to 6.00 P.M	Chapter 5-'Jargon Busting'(Communication without creating barriers).	Mr. G. Balaji
32	30.10.17	4.00 P.M to 5.00 P.M	Chapter 5-Questioning Techniques	Mrs. I. Kavitha

COLLEGE OF ENGG. & TECHNOLOGY * NPR * NATHAM

PROGRAM COORDINATOR

HoD/S&H

IQAC

PRINCIPAL

Head of the Department
Department of Mathematics
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Coordinator - IQAC
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DEPARTMENT OF SCIENCE& HUMANITIES
ADD ON COURSE ON VERBAL COMMUNICATION I
STUDENT ATTENDANCE

S. No.	Register Number	Student Name	Year	1	2	3	4	5	6	7	8
				9/10/17	10/10/17	11/10/17	12/10/17	13/10/17	14/10/17	16/10/17	20/10/17
1.	17SHAO01001	AAKASH.C	I CIVIL	/	/	/	/	/	/	/	/
2.	17SHAO01002	ABINAYA N.S.	I CIVIL	/	/	/	/	/	/	/	/
3.	17SHAO01003	DEIVENDRAN.S	I CIVIL	A	A	A	A	A	A	A	A
4.	17SHAO01004	DHAYUB NAVASH KHAN.S	I CIVIL	/	/	/	/	/	/	/	/
5.	17SHAO01005	GOKUL.S	I CIVIL	/	/	/	/	/	/	/	/
6.	17SHAO01006	GOWTHAM.S	I CIVIL	/	/	/	/	/	/	/	/
7.	17SHAO01007	GUHAN.S	I CIVIL	/	/	/	/	/	/	/	/
8.	17SHAO01008	KARTHIKEYAN.D	I CIVIL	/	/	/	/	/	/	/	/
9.	17SHAO01009	LOGESH.T	I CIVIL	/	/	/	/	/	/	/	/
10.	17SHAO01010	MANIKANDAN.K	I CIVIL	/	/	/	/	/	/	/	/
11.	17SHAO01011	MANOJ PRABHAKAR.N	I CIVIL	/	/	/	/	/	/	/	/
12.	17SHAO01012	POTHIYALAGAN.C	I CIVIL	/	/	/	/	/	/	/	/
13.	17SHAO01013	PREMKUMAR.K	I CIVIL	/	/	/	/	/	/	/	/
14.	17SHAO01014	RAMANASWETHA U.B	I CIVIL	/	/	/	/	/	/	/	/
15.	17SHAO01015	SURYA.R	I CIVIL	/	/	/	/	/	/	/	/
16.	17SHAO01016	SURYANARAYANAN.V.M	I CIVIL	/	/	/	A	/	/	/	/
17.	17SHAO01017	VISITHRA.K	I CIVIL	/	/	/	/	/	/	/	/
18.	17SHAO01018	AARTHI R	I CSE	/	/	/	/	/	/	/	/
19.	17SHAO01019	ABIRAMI M	I CSE	/	/	/	/	/	/	/	/
20.	17SHAO01020	AISHWARYA A	I CSE	/	/	/	/	/	/	/	/
21.	17SHAO01021	AISHWARYA R(16.09.99)	I CSE	/	/	/	/	/	/	/	/
22.	17SHAO01022	AISHWARYA R(12.12.99)	I CSE	/	/	/	/	/	/	/	/
23.	17SHAO01023	AISHWERYA SRI R	I CSE	/	/	/	/	/	/	/	/
24.	17SHAO01024	AMRUTHAA SHREE R	I CSE	/	/	/	/	/	/	/	/
25.	17SHAO01025	BONSIYA.R	I CSE	/	A	/	/	/	/	/	/
26.	17SHAO01026	CHELLAPANDIAN R	I CSE	/	/	/	/	/	/	/	/
27.	17SHAO01027	DEV M	I CSE	/	/	/	/	/	/	/	/
28.	17SHAO01028	KAVIYARASAN A	I CSE	/	/	/	/	/	/	/	/
29.	17SHAO01029	KEERTHANA G	I CSE	/	/	/	/	/	/	/	/
30.	17SHAO01030	KODEESWARAN S	I CSE	/	/	/	/	/	/	/	/
31.	17SHAO01031	LOGESHWARI S	I CSE	/	/	/	/	/	/	/	/
32.	17SHAO01032	NAGAJOTHI C	I CSE	/	/	/	/	/	/	/	/
33.	17SHAO01033	NATHISHKUMAR R	I CSE	/	/	/	/	/	/	/	/
34.	17SHAO01034	PREETHI A	I CSE	/	/	/	/	/	/	/	/
35.	17SHAO01035	RAJADURAI R	I CSE	/	/	/	/	/	/	/	/
36.	17SHAO01036	ROFINA BEGAM N	I CSE	/	/	/	/	/	/	/	/
37.	17SHAO01037	SANGEERANI P	I CSE	/	/	/	/	A	/	/	/

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38.	17SHAO01038	SASTIANANDHAN M	I CSE	A	A	A	A	A	A	A	A
39.	17SHAO01039	SHARMA A	I CSE	/	/	/	/	/	/	/	/
40.	17SHAO01040	SUBASRI S	I CSE	/	/	/	/	/	/	/	/
41.	17SHAO01041	VARSHA M	I CSE	/	/	/	/	/	/	/	/
42.	17SHAO01042	ABDULAJEESH A	I EEE	/	/	/	/	/	/	/	/
43.	17SHAO01043	ABUDHAGIR K	I EEE	/	/	/	/	/	/	/	/
44.	17SHAO01044	ARUNKUMAR P	I EEE	/	/	/	/	/	/	/	/
45.	17SHAO01045	CIRPA A	I EEE	/	/	/	/	/	/	/	/
46.	17SHAO01046	DINESHKUMAR K	I EEE	/	/	/	/	/	/	/	/
47.	17SHAO01047	MOHAMED FAIZ A	I EEE	/	/	/	/	/	/	/	/
48.	17SHAO01048	MOHAMED RIYASDEEN A	I EEE	/	/	/	/	/	/	/	/
49.	17SHAO01049	NISHA M	I EEE	/	/	/	/	/	/	/	/
50.	17SHAO01050	SABARISH R	I EEE	/	/	/	/	/	/	/	/
51.	17SHAO01051	VIGNESH P	I EEE	/	/	/	/	/	/	/	/
52.	17SHAO01052	AKASH R	I ECE	/	/	/	/	/	/	/	/
53.	17SHAO01053	ARUN PANDIAN R	I ECE	/	/	/	/	/	/	/	/
54.	17SHAO01054	ATCHAYA R	I ECE	/	/	/	/	/	/	/	/
55.	17SHAO01055	BALACHANDAR S	I ECE	/	/	/	/	/	/	/	/
56.	17SHAO01056	BHUVANESHWARAN S	I ECE	/	/	/	/	/	/	/	/
57.	17SHAO01057	BHUVANESHWARI V	I ECE	/	/	/	/	/	/	/	/
58.	17SHAO01058	DEEPA T	I ECE	/	/	/	/	/	/	/	/
59.	17SHAO01059	DHANALAKSHMI R	I ECE	/	/	/	/	/	/	/	/
60.	17SHAO01060	DHARINI S	I ECE	/	/	/	/	/	/	/	/
61.	17SHAO01061	GAYATHRI A K	I ECE	/	/	/	/	/	/	/	/
62.	17SHAO01062	JEEVITHA M	I ECE	/	/	/	/	/	/	/	/
63.	17SHAO01063	KEERTHANA B	I ECE	/	/	/	/	/	/	/	/
64.	17SHAO01064	KEERTHIKA K	I ECE	/	/	/	/	/	/	/	/
65.	17SHAO01065	MADHUMITHA J A	I ECE	/	/	/	A	/	/	/	/
66.	17SHAO01066	POOJA G S	I ECE	/	/	/	/	/	/	/	/
67.	17SHAO01067	PREETHI G	I ECE	/	/	/	/	/	/	/	/
68.	17SHAO01068	RAJALAKSHMI S	I ECE	/	/	/	/	/	/	/	/
69.	17SHAO01069	SANDHURU M	I ECE	/	/	/	/	/	/	/	/
70.	17SHAO01070	SUJITHA M	I ECE	/	/	/	/	/	/	/	/
71.	17SHAO01071	SURYA KALA V	I ECE	/	/	/	/	/	A	/	/
72.	17SHAO01072	THANGAKALYANI K S	I ECE	/	/	/	/	/	/	/	/
73.	17SHAO01073	THARALAKSHMI S	I ECE	/	/	/	/	/	/	/	/
74.	17SHAO01074	AAKASH.K	I MECH	/	/	/	/	/	/	/	/
75.	17SHAO01075	ABDULLA BEE.A	I MECH	/	/	/	/	/	A	/	/
76.	17SHAO01076	ABISHEK.J.D.	I MECH	/	/	/	/	/	/	/	/
77.	17SHAO01077	AHAMED KUTHUS.S	I MECH	/	/	/	/	/	/	/	/
78.	17SHAO01078	AKASH.G	I MECH	/	/	/	/	/	/	/	/
79.	17SHAO01079	ALAGESAN.V	I MECH	/	/	/	/	/	/	/	/

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80.	17SHAO01080	ALAN JACOB.J	I MECH	/	/	/	/	/	/	/	/
81.	17SHAO01081	AMEER KHAN.J	I MECH	/	/	/	/	/	/	/	/
82.	17SHAO01082	DHANASEKARAN.R	I MECH	/	/	/	/	/	/	/	/
83.	17SHAO01083	GOKULNATH.R	I MECH	/	/	/	/	/	/	/	/
84.	17SHAO01084	GOWTHAM.G	I MECH	/	/	/	/	/	/	/	/
85.	17SHAO01085	HARISH.S	I MECH	/	/	/	/	/	/	/	/
86.	17SHAO01086	IMRAN KHAN.M	I MECH	A	A	A	A	A	A	A	A
87.	17SHAO01087	PANDI.V	I MECH	/	/	/	/	/	/	/	/
88.	17SHAO01088	PRAVEENKUMAR.P	I MECH	/	/	/	/	/	/	/	/
89.	17SHAO01089	PRABU.M	I MECH	/	/	/	/	/	/	/	/
90.	17SHAO01090	PRAVEENKUMAR.S	I MECH	/	/	/	/	/	/	/	/
91.	17SHAO01091	RUTHRESH.S	I MECH	/	/	/	/	/	/	/	/
92.	17SHAO01092	SAMSUDEEN.A	I MECH	/	/	/	/	/	/	/	/
93.	17SHAO01093	SURYA.T	I MECH	/	/	/	/	/	/	/	/
94.	17SHAO01094	TAMIL SELVAM.T	I MECH	/	/	/	/	/	/	/	/
95.	17SHAO01095	VIGNESHKUMAR.M	I MECH	/	/	/	/	/	/	/	/
PRESENT				92	91	92	90	91	90	92	92
ABSENT				3	4	3	5	4	5	3	3
FACULTY SIGNATURE											

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82.	17SHAO01082	DHANASEKARAN.R	I MECH	/	/	/	/	/	/	/	/
83.	17SHAO01083	GOKULNATH.R	I MECH	/	/	/	/	/	/	/	/
84.	17SHAO01084	GOWTHAM.G	I MECH	/	/	/	/	/	/	/	/
85.	17SHAO01085	HARISH.S	I MECH	/	/	/	/	/	/	/	/
86.	17SHAO01086	IMRAN KHAN.M	I MECH	A	A	A	A	A	A	A	A
87.	17SHAO01087	PANDI.V	I MECH	/	/	/	/	/	/	/	/
88.	17SHAO01088	PRAVEENKUMAR.P	I MECH	/	/	/	/	/	/	/	/
89.	17SHAO01089	PRABU.M	I MECH	/	/	/	/	/	/	/	/
90.	17SHAO01090	PRAVEENKUMAR.S	I MECH	/	/	/	/	/	/	/	/
91.	17SHAO01091	RUTHRESH.S	I MECH	/	/	/	/	/	/	/	/
92.	17SHAO01092	SAMSUDEEN.A	I MECH	/	/	/	/	/	/	/	/
93.	17SHAO01093	SURYA.T	I MECH	/	/	/	/	/	/	/	/
94.	17SHAO01094	TAMIL SELVAM.T	I MECH	/	/	/	/	/	/	/	/
95.	17SHAO01095	VIGNESHKUMAR.M	I MECH	/	/	/	/	/	/	/	/
PRESENT				92	91	92	90	91	90	92	92
ABSENT				3	4	3	5	4	5	3	3
FACULTY SIGNATURE											

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DEPARTMENT OF SCIENCE& HUMANITIES
ADD ON COURSE ON VERBAL COMMUNICATION I
STUDENT ATTENDANCE

S. No.	Register Number	Student Name	Year	1 21/10/17	2 23/10/17	3 24/10/17	4 25/10/17	5 26/10/17	6 27/10/17	7 28/10/17	8 30/10/17
1.	17SHAO010	AAKASH.C	I CIVIL	/	/	/	/	/	/	/	/
2.	17SHAO01002	ABINAYA.N.S.	I CIVIL	/	/	/	/	/	/	/	/
3.	17SHAO01003	DEIVENDRAN.S	I CIVIL	A	A	A	A	A	A	A	A
4.	17SHAO01004	DHAYUB NAVASH KHAN.S	I CIVIL	/	/	/	/	/	/	/	/
5.	17SHAO01005	GOKUL.S	I CIVIL	/	/	/	/	/	/	/	/
6.	17SHAO01006	GOWTHAM.S	I CIVIL	/	/	/	/	/	/	/	/
7.	17SHAO01007	GUHAN.S	I CIVIL	/	/	/	/	/	/	/	/
8.	17SHAO01008	KARTHIKEYAN.D	I CIVIL	/	/	/	/	/	/	/	/
9.	17SHAO01009	LOGESH.T	I CIVIL	/	/	/	/	/	/	/	/
10.	17SHAO01010	MANIKANDAN.K	I CIVIL	/	/	/	/	/	/	/	/
11.	17SHAO01011	MANOJ PRABHAKAR.N	I CIVIL	/	/	/	/	/	/	/	/
12.	17SHAO01012	POTHIYALAGAN.C	I CIVIL	/	/	/	/	/	/	/	/
13.	17SHAO01013	PREMKUMAR.K	I CIVIL	/	/	/	/	/	/	/	/
14.	17SHAO01014	RAMANASWETHA.U.B	I CIVIL	/	/	/	/	/	/	/	/
15.	17SHAO01015	SURYA.R	I CIVIL	/	/	/	/	/	/	/	/
16.	17SHAO01016	SURYANARAYANAN.V.M	I CIVIL	/	/	A	/	/	/	/	/
17.	17SHAO01017	VISITHRA.K	I CIVIL	/	/	/	/	/	/	/	/
18.	17SHAO01018	AARTHI R	I CSE	/	/	/	/	/	/	/	/
19.	17SHAO01019	ABIRAMI M	I CSE	/	/	/	/	/	/	/	/
20.	17SHAO01020	AISHWARYA A	I CSE	/	/	/	/	/	/	/	/
21.	17SHAO01021	AISHWARYA R(16.09.99)	I CSE	/	/	/	/	/	/	/	/
22.	17SHAO01022	AISHWARYA R(12.12.99)	I CSE	/	/	/	/	/	/	/	/
23.	17SHAO01023	AISHWERYA SRI R	I CSE	/	/	/	/	/	/	/	/
24.	17SHAO01024	AMRUTHAA SHREE R	I CSE	/	/	/	/	/	/	/	/
25.	17SHAO01025	BONSIYA.R	I CSE	/	/	/	/	/	A	/	/
26.	17SHAO01026	CHELLAPANDIAN R	I CSE	/	/	/	/	/	/	/	/
27.	17SHAO01027	DEV M	I CSE	/	/	/	/	/	/	/	/
28.	17SHAO01028	KAVIYARASAN A	I CSE	/	/	/	/	/	/	/	/
29.	17SHAO01029	KEERTHANA G	I CSE	/	/	/	/	/	/	/	/
30.	17SHAO01030	KODEESWARAN S	I CSE	/	/	/	/	/	/	/	/
31.	17SHAO01031	LOGESHWARI S	I CSE	A	/	/	/	/	/	/	/
32.	17SHAO01032	NAGAJOTHI C	I CSE	/	/	/	/	/	/	/	/
33.	17SHAO01033	NATHISHKUMAR R	I CSE	/	/	/	/	/	/	/	/
34.	17SHAO01034	PREETHI A	I CSE	/	/	/	/	/	/	/	/
35.	17SHAO01035	RAJADURAI R	I CSE	/	/	/	/	/	/	/	/
36.	17SHAO01036	ROFINA BEGAM N	I CSE	/	/	/	/	/	/	/	/
37.	17SHAO01037	SANGEERANI P	I CSE	/	/	/	/	/	/	/	/
38.	17SHAO01038	SASTIANANDHAN M	I CSE	A	A	A	A	A	A	A	A
39.	17SHAO01039	SHARMA A	I CSE	/	/	/	/	/	/	/	/
40.	17SHAO01040	SUBASRI S	I CSE	/	/	/	/	/	/	/	/
41.	17SHAO01041	VARSHA M	I CSE	/	/	/	/	/	/	/	/
42.	17SHAO01042	ABDULAJEESH A	I EEE	/	/	/	/	/	/	/	/
43.	17SHAO01043	ABUDHAGIR K	I EEE	/	/	/	/	/	/	/	/
44.	17SHAO01044	ARUNKUMAR P	I EEE	/	/	/	/	/	/	/	/
45.	17SHAO01045	CIRPA A	I EEE	/	/	/	/	/	/	/	/

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46.	17SHAO01046	DINESHKUMAR K	I EEE									
47.	17SHAO01047	MOHAMED FAIZ A	I EEE									
48.	17SHAO01048	MOHAMED RIYASDEEN A	I EEE									
49.	17SHAO01049	NISHA M	I EEE									
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51.	17SHAO01051	VIGNESH P	I EEE									
52.	17SHAO01052	AKASH R	I ECE									
53.	17SHAO01053	ARUN PANDIAN R	I ECE									
54.	17SHAO01054	ATCHAYA R	I ECE									
55.	17SHAO01055	BALACHANDAR S	I ECE									
56.	17SHAO01056	BHUVANESHWARAN S	I ECE									
57.	17SHAO01057	BHUVANESHWARI V	I ECE									
58.	17SHAO01058	DEEPA T	I ECE									
59.	17SHAO01059	DHANALAKSHMI R	I ECE	A								
60.	17SHAO01060	DHARINI S	I ECE									
61.	17SHAO01061	GAYATHRI A K	I ECE									
62.	17SHAO01062	JEEVITHA M	I ECE									
63.	17SHAO01063	KEERTHANA B	I ECE						A			
64.	17SHAO01064	KEERTHIKA K	I ECE									
65.	17SHAO01065	MADHUMITHA J A	I ECE									
66.	17SHAO01066	POOJA G S	I ECE									
67.	17SHAO01067	PREETHI G	I ECE									
68.	17SHAO01068	RAJALAKSHMI S	I ECE									
69.	17SHAO01069	SANDHURU M	I ECE									
70.	17SHAO01070	SUJITHA M	I ECE									
71.	17SHAO01071	SURYA KALA V	I ECE									
72.	17SHAO01072	THANGAKALYANI K S	I ECE									
73.	17SHAO01073	THARALAKSHMI S	I ECE									
74.	17SHAO01074	AAKASH.K	I MECH									
75.	17SHAO01075	ABDULLA BEE.A	I MECH									
76.	17SHAO01076	ABISHEK.J.D.	I MECH									
77.	17SHAO01077	AHAMED KUTHUS.S	I MECH		A							
78.	17SHAO01078	AKASH.G	I MECH									
79.	17SHAO01079	ALAGESAN.V	I MECH									
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86.	17SHAO01086	IMRAN KHAN.M	I MECH	A	A	A	A	A	A	A	A	
87.	17SHAO01087	PANDI.V	I MECH									
88.	17SHAO01088	PRAVEENKUMAR.P	I MECH									
89.	17SHAO01089	PRABU.M	I MECH									
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93.	17SHAO01093	SURYA.T	I MECH									
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95.	17SHAO01095	VIGNESHKUMAR.M	I MECH									

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DEPARTMENT OF SCIENCE & HUMANITIES

ADD ON COURSE ON VERBAL COMMUNICATION I

17SHAO01 – VERBAL COMMUNICATION I - SAMPLE QUESTION PAPER & ANSWER

1. Communication is the transmission of. : A. Information B. Meaning.
i. Only A is correct. ii. Only B is correct. iii. Both A & B are correct iv. Neither A nor B is correct

2.A person has a sore throat and is unable to speak. This is an example of :
i. Physical barrier ii. Psychological barrier iii. Physiological barrier iv. Language barrier

3. The "I" habit is the habit of:
i. Talking about audience ii. Talking about ourselves iii. Talking about colleagues iv. Talking about friends.

4. When the content load of any message increases, the ability to _____ decreases.
i. Transfer ii. Encode iii. Remember iv. Speak

5. An individual's behavior in a foreign land becomes noticeable when it _____ in relation to the foreign culture.
i. Overlaps ii. Irritates iii. Deviates iv. Conforms

6. Which of the following is NOT an aspect of paralanguage?
i. Facial expressions ii. Rate of speech iii. Pitch of voice iv. Volume of voice

7. The process of listening to understand in order to make evaluations and judgments about the content of the message is called:
i. Critical listening ii. Appreciative listening iii. Diplomatic listening iv. Empathetic listening

8 .Which of the following is NOT a characteristic of a good listener?
i. The good listener has a mental framework to put ideas in. ii. The good listener actively engages the ideas the speaker presents. iii. The good listener asks questions. iv. Has strong convictions about his/her own ideas.

9. Which type of listening will help us to communicate in a better way in a socio-cultural environment?
i.Critical listening ii. Appreciative listening iii. Diplomatic listening iv. Empathetic listening

10. Summarizing given facts while speaking is an act of:
i. Comprehension ii. Repetition iii. Shortening iv. Elaborating

Answer: 1) iii; 2) i; 3) ii; 4) i; 5) iii; 6) i; 7) iii 8) iii 9) iv; 10) i

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DEPARTMENT OF SCIENCE & HUMANITIES
ADD ON COURSE ON VERBAL COMMUNICATION I
STUDENT FEEDBACK

Name of the Student : AAKASH-C	**Year / Semester:** I st CIVIL
Name of the Program: VERBAL COMMUNICATION I	

CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
COURSE CONTENT	✓			
TECHNICAL SKILL		✓		
INTERACTION	✓			
PRACTICAL SESSION		✓		✓
COMMUNICATION			✓	
ANY OTHER COMMENTS	NIL			

PROGRAM COORDINATOR

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ADD ON COURSE ON VERBAL COMMUNICATION I
STUDENT FEEDBACK

Name of the Student : R - Nathish Kumar	**Year / Semester:** 1st CSE
Name of the Program: VERBAL COMMUNICATION I	

CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
COURSE CONTENT		✓		
TECHNICAL SKILL				✓
INTERACTION	✓			
PRACTICAL SESSION		✓		
COMMUNICATION			✓	
ANY OTHER COMMENTS	It is very useful			

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ADD ON COURSE ON VERBAL COMMUNICATION I
STUDENT FEEDBACK

Name of the Student : S. Harish	**Year / Semester:** I / mech
Name of the Program: VERBAL COMMUNICATION I	

CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
COURSE CONTENT	✓			
TECHNICAL SKILL		✓		
INTERACTION			✓	
PRACTICAL SESSION				✓
COMMUNICATION		✓		
ANY OTHER COMMENTS	It is good			

P. Amalkal
PROGRAM COORDINATOR

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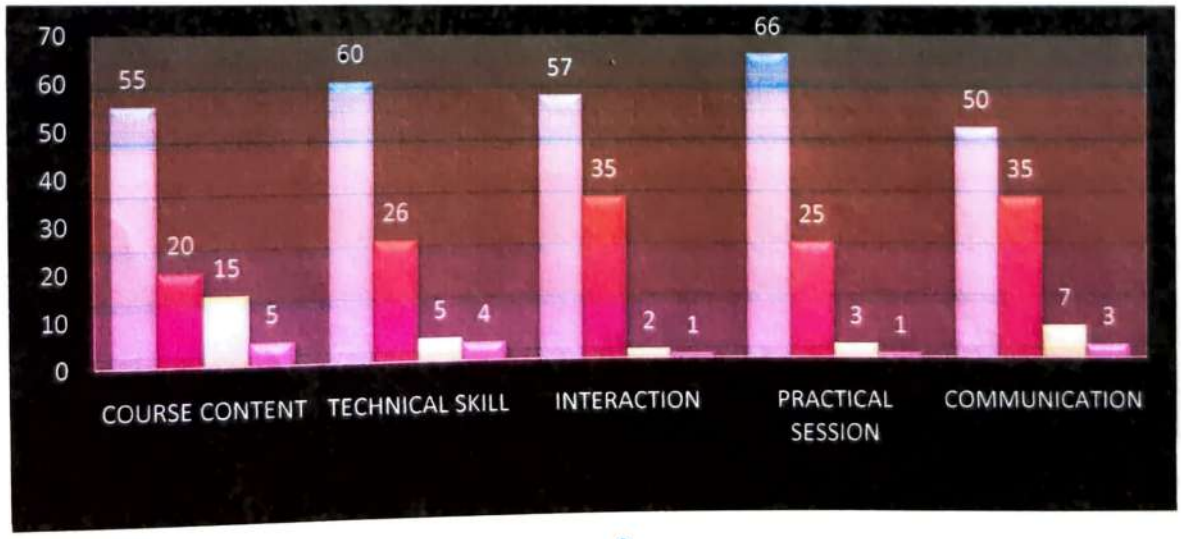
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DEPARTMENT OF SCIENCE & HUMANITIES
ADD ON COURSE ON VERBAL COMMUNICATION I
STUDENT FEEDBACK SUMMARY REPORT

REGISTERED STUDENTS: 95

DATE: 18.12.2017

CONTENT	EXCELLENT	GOOD	FAIR	SATISFACTORY
COURSE CONTENT	55	20	15	5
TECHNICAL SKILL	60	26	5	4
INTERACTION	57	35	2	1
PRACTICAL SESSION	66	25	3	1
COMMUNICATION	50	35	7	3
AVERAGE	57.6	28.2	6.4	2.8



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DEPARTMENT OF SCIENCE & HUMANITIES

ADD ON COURSE ON VERBAL COMMUNICATION I

SUMMARY REPORT

The Department of Science & Humanities organized Add on Course on **"VERBAL COMMUNICATION I"** from 09.10.17 to 30.10.17 at EG – Drawing Hall. Ms. R. Amruthaa Shree, I CSE has delivered welcome address.

Dr. B. Maruthukannan, Principal of our college inaugurated the program. Resource persons Mr. G. Balaji and Mrs. I. Kavitha has delivered the program content to the students. This session gives over view about Verbal Communication and provides an exciting growth in the field of language. They also convey the fundamentals and principles in verbal communication. The Students will improve their communication skills.

24 Students were attended from I CSE, 22 from I ECE, 17 from I Civil, 22 from I Mechanical and 10 from I EEE. Totally 95 students participated but unfortunately due to lack of attendance only 92 students completed this course and got their certificates. Certificates awarded to the students those who successfully completed this course and attended the Quiz program.

Ms. A. AbdullaBee, I Mechnical, delivered the vote of thanks.

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DEPARTMENT OF SCIENCE & HUMANITIES
ADD ON COURSE ON VERBAL COMMUNICATION I
COURSE MATERIAL

Material Link:

Chapter 1: https://www.ukessays.com/essays/english-literature/the-introduction-to-indian-writing-in-english-english-literature-essay.php

Chapter 2: http://khyberacademy.blogspot.com/2015/09/process-of-preparing-effective-business.html?m=1

Chapter 3: https://www.ewriter29.com/skills/communication-skills/beginnings-and-endings-of-messages/

Chapter 4: https://writingcenter.unc.edu/tips-and-tools/business-letters/

Chapter 5: https://www.slideshare.net/mobile/mraiyah/introduction-to-literary-forms

Further Study:

1. Boroditsky, Lera. "How language shapes thought", Scientific American 304.2(2011): 62-65, Academic Search Premier, Web.
2. Ruesh, Jurgeon and Weldon Kees, Non verbal Communication: Notes on visual perception of Human Relations. Berkeley: University of California Press, 1966.
3. Hussein, Basel Al-Sheikh, "The Sapir-Whorf Hypothesis Today", Theory and Practice in Language Studies, 2(2012):642-646.Web.
4. Pease, Allan and Barbara Pease. The definitive book of Body language, New Delhi: Manjul Publishing House, 2005.

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ADD ON COURSE
ON
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Certificate of Merit

This is to certify that Mr. C. Aakash, I Civil has attended the Add on Course on "**VERBAL COMMUNICATION I**" held from 09/10/2017 to 30/10/2017 during the academic year 2017-2018

HOD-S&H

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HOD-S&H

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HOD-S&H

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HOD-S&H

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HOD/S&H

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