CRITERION -2 TEACHING-LEARNING AND EVALUATION

KEY INDICATOR 2.5- EVALUATION PROCESS AND REFORMS

Metric No 2.5.1 Mechanism of Internal Assessment is Transparent and Robust in Terms of Frequency and Mode

S.No.	Content	Page No.
1.	Internal Assessment Schedule	3
2.	Internal Test circular	4
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5.	Question paper	8
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7.	Hall Arrangement	13
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18.	**Practical Examination** Model exam Schedule	48
19.	Question	56
21.	Answer sheet	60
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23.	Review marks	65

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

Internal Assessment Schedule

ANNA UNIVERSITY:: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

August - December 2021 - For all UG/PG - Programmes (ODD SEMESTER) – Except M.C.A 2 Years

Report No	Report Period	Test Period	Report Entry Period
I	18-08-2021 – 13-09-2021	----	13-09-2021 – 18-09-2021
II	14-09-2021 – 07-10-2021	01-10-2021 – 07-10-2021	07-10-2021 -- 13-10-2021
III	08-10-2021 – 05-11-2021	29-10-2021 – 05-11-2021	05-11-2021 --11-11-2021
IV	06-11-2021 – 30-11-2021	23-11-2021 – 30-11-2021	30-11-2021 -- 02-12-2021

Saturdays may be included as working days to make good the Shortages, if any.

01/09/2021

CONTROLLER OF EXAMINATIONS

01/09/2021 01-09-2021

NPR College of Engineering & Technology

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

NPRCET/Exam Cell/2021-22/01

27.09.2021

CIRCULAR

All the Head of the department are instructed to check the quality of the internal test –I question Papers of heir respective departments. Please follow the below mentioned procedures and report to the undersigned.

- Allocation of questions must be based on Bloom's taxonomy
- Submit the Question Bank for all the respective subjects within prescribed date.
- Instruct the faculty members to complete the evaluation process on the fourth day from the date of their respective test.
- Submit the internal and squad invigilators list to the COE section prior to the Internal test-I.

Principal

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Copy to

1. COE
2. All Hods/ Concerned Faculties
3. File

S.No	Name of the HoD	Department	Signature
1	Dr.A.Hemalatha	Civil	
2	Dr.R.Ramanan	CSE	
3	Dr.A.Gopi Saminathan	ECE	
4	Dr.P.Kanirajan	EEE	
5	Dr.S.Paulsingarayar	MECH	
6	Dr.B.Velmurugan	MBA	
7	Dr.T.Priya	S&H	

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NPRCET/Exam Cell/2021-22/01 20.09.2021

ODD SEMESTER (2021-22)-SEPTEMBER 2021

FIRST INTERNAL ASSESSMENT TEST –INSTRUCTIONS

First Internal tests for II,III & IV years will be conducted from 27.09.2021 (Monday) to 04.10.2021 (Wednesday). All the faculty members handling subject for III, V, and VII semester are requested to submit their question bank through the respective HoDs on or before 23.09.2021 (Tuesday).

Syllabus: First two units only

Important instructions regarding question paper setting

- Faculty handling members are requested to submit the question bank for their respective subjects
- The file name of the question bank is to be saved as (year-semester-department-subject code and name)
- Example: III-6 MECHANICAL- ME8692- Finite Element Analysis.
- Late submission of the question bank is not encouraged

Exam Cell Coordinator
G. SUNDARARAJAN

Principal
Dr. J.SUNDARARAJAN, B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Techn
Natham, Dindigul (Dt) - 624 4

Copy to

1. All Hods/ Concerned Faculties

2. File

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QUESTION PATTERN

Register Number: | | | | | | | | | | | | |

Department of ……Engineering

INTERNAL TEST- I / II

Subject code & Name:

Year &Semester:

Duration: 90 Minutes **Date:** **Maximum marks: 50**

Course Outcomes, Question Number, Marks:

COs	CO1	CO2
Ques. No.		
Max. Marks		

COs & K-Level:

CO1:

CO2:

K-Levels	K1: Remember	K2: Understand	K3:Apply	K4:Analyse	K5:Evaluate	K6:Create

Q.No	Answer All Questions	Bloom's Taxonomy K-level
	PART – A (5 x 2 = 10 marks)	
1.		
2.		
3.		
4.		
5.		

PART – B (1 x 8 = 8 marks)			
6.		(8)	
PART – C (2 x16 = 32 marks)			
7.		(16)	
8.	(i)	(8)	
	(ii)	(8)	

Faculty In-Charge **HoD**

Note: In Part C, questions can be set for 16 marks if the answer is very lengthy otherwise two or more sub-divisions can be included in each full question with break-up of marks indicated in brackets.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Register Number: | | | | | | | | | | | | |

INTERNAL EXAMINATION I – OCTOBER 2021

3rd Semester – ECE

EC8391- CONTROL SYSTEM ENGINEERING

Duration: **90 Minutes** Date: **01.10.2021** Maximum marks: **50**

Course Outcomes ,Question Number, Marks:

COs	CO1	CO2
Ques. No.	1,2,7	3,4,5,6,8
Max. Marks	20	30

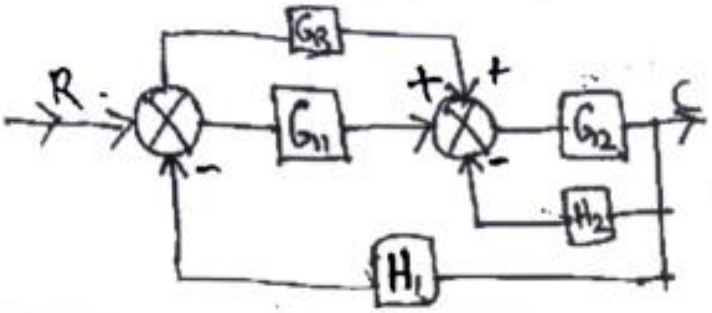
COs & K-Level:

CO1: Students can be able to identify the various control system components and their representations.

CO2: Students will be able to attain the time response and steady state error of control systems.

K-Levels	K1: Remember	K2: Understand	K3:Apply	K4:Analyse	K5:Evaluate	K6:Create

Q.No	Answer All Questions		Bloom's Taxonomy K-level
	PART – A (5 x 2 = 10 marks)		
1.	Compare open loop and closed loop system.		K1
2.	What is a Gear train? What are electrical Analogous of gears?		K1
3.	How the system is classified based on depending ratio?		K1
4.	A second order system bas a dumping ratio of 0.6 and natural frequency of oscillation is 10 rad/sec. Determine the damped freq of oscillation.		K1
5.	What is the effect of PI controller on the system performance?		K1
	PART – B (1 x 8 = 8 marks)		
6.	A unit step input is applied to the unity feedback system for which open loop transfer function G(S)=16/S(S+8). Find, 1. Its closed loop transfer function, 2. Natural frequency of oscillation ω_n, 3. Damping ratio z, 4. Damped frequency of oscillations, ω_d	(8)	K2
	PART – C (2 x16 = 32 marks)		
7.	Obtain C(S)/R(S) using block diagram reduction rules.	(16)	K2

			
8.	For a unity feedback control system the open loop transfer function G(s) = 10(s+2)/s2 (s+1). Find (a) the position, velocity and acceleration error constants, (b) the steady state error when the input is R(s) where R(s)=	(16)	K2

FACULTY IN-CHARGE **HoD**

Note: In Part C, questions can be set for 16 marks if the answer is very lengthy otherwise two or more sub-divisions can be included in each full question with break-up of marks indicated in brackets.

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B.E - INTERNAL TEST - I - September - 2021

Time: 11.15 a.m. – 12.45 p.m. **Time Table** **Date: 20.09.2021**

DATE	IV YEAR / VII SEMESTER				
	CIVIL	**CSE**	**EEE**	**ECE**	**MECH**
27.09.2021 (Monday)	CE8701 Estimation, Costing and Valuation Engineering	MG8591 Principles of Management	EE8703- Renewable Energy Systems	EC8751 Optical Communication	ME8792 Power Plant Engineering
28.09.2021 (Tuesday)	CE8702 Railways, Airports, Docks and Harbour Engineering	CS8792 Cryptography and Network Security	EE8702-Power System Operation and Control	EC8702 Ad hoc and Wireless Sensor Networks	ME8793 Process Planning and Cost Estimation
29.09.2021 (Wednesday)	CE8703 Structural Design and Drawing	CS8791 Cloud Computing	EE8701-High Voltage Engineering	EC8791 Embedded and Real Time Systems	ME8791 Mechatronics
30.09.2021 (Thursday)	EN8591 - Municipal Solid Waste Management	CS8079 - Human Computer Interaction	EI6703-Fibre Optics and Laser Instruments	EC8701 Antennas and Microwave Engineering	OIE751 - Robotics
01.10.2021 (Friday)	OME754 - Industrial Safety	GE8077 - Total Quality Management	EE8010- Power System Transients	EC8092 - Advanced Wireless Communication	ME8073 - Unconventional Machining Processes
04.10.2021 (Monday)		OIE751 - Robotics	OML555 – Testing of Materials	OIC751 - Transducers Engineering	ME8097 - Non Destructive Testing and Evaluation

DATE	III YEAR / V SEMESTER				
	CIVIL	CSE	EEE	ECE	MECH
27.09.2021 (Monday)	CE8501-Design of Reinforced Cement Concrete Elements	CS8591-Computer Networks	CS8392-Object Oriented Programming	EC8501-Digital Communication	ME8595-Thermal Engineering-II
28.09.2021 (Tuesday)	CE8502-Structural Analysis I	MA8551-Algebra and Number Theory	OMD551-Basic of Bio-Medical Instrumentation	EC8553-Discrete-Time Signal Processing	ME8593-Design of Machine Elements
29.09.2021 (Wednesday)	CE8591-Foundation Engineering	EC8691 - Microprocessors and Microcontrollers	EE8551-Microprocessors and Microcontrollers	EC8552-Computer Architecture& Organization	ME8501-Metrology and Measurements
30.09.2021 (Thursday)	EN8491-Water Supply Engineering	CS8501 - Theory of Computation	EE8552-Power Electronics	EC8551-Communication Networks	ME8594-Dynamics of Machines
01.10.2021 (Friday)	GI8013-Advanced Surveying	CS8592 -Object Oriented Analysis and Design	EE8501-Power System Analysis	EC8073-Medical Electronics	OAT551-Automotive Systems
04.10.2021 (Monday)	OA1551-Environmental and Agriculture	OMD553 - Telehealth Technology	EE8591-Digital Signal Processing	OMD551-Basic of Bio-Medical Instrumentation	-

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DATE	II YEAR / III SEMESTER				
	CIVIL	CSE	EEE	ECE	MECH
27.09.2021 (Monday)	MA8353- Transforms and Partial Differential Equations	MA8351- Discrete Mathematics	MA8353- Transforms and Partial Differential Equations	MA8352- Linear Algebra and Partial Differential Equations	MA8353- Transforms and Partial Differential Equations
28.09.2021 (Tuesday)	CE8301- Strength of Materials I	CS8351-Digital Principles & System Design	EE8391- Electromagnetic Theory	EC8351- Electronic Circuits- I	ME8391- Engineering Thermodynamics
29.09.2021 (Wednesday)	CE8302- Fluid Mechanics	CS8391-Data Structures	ME8792-Power Plant Engineering	EC8352- Signals and Systems	CE8394-Fluid Mechanics and Machinery
30.09.2021 (Thursday)	CE8351- Surveying	CS8392-Object Oriented Programming	EE8301-Electrical Machines - I	EC8392- Digital Electronics	ME8351- Manufacturing Technology - I
01.10.2021 (Friday)	CE8391- Construction Materials	EC8395- Communication Engineering	EC8353-Electron Devices and Circuits	EC8391- Control Systems Engineering	EE8353-Electrical Drives and Controls
04.10.2021 (Monday)	CE8393- Engineering Geol	-	EE8351-Digital Logic Circuits	EC8393- Fundamentals Of Data Structures in C	-

Exam Cell Coordinator
G. SUNDARARAJAN

Principal
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Copy to:
1. All HoDs
2. Notice Board
3. All class rooms

Internal Examination Hall Arrangement

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
EXAM HALL SEATING ARRANGEMENT: ACADEMIC YEAR (2021-2022) ODD
HALL NO: RBLH 305

S.No.	COLUMN-I			COLUMN-II			COLUMN-III		
1.	AFRIN SHIFANA A 920819106002	ABILASHA.M 920818106001	AARTHY M 920820106001	DHANALAKSHMI P 920819106013	DURGADEVI.B 920818106007	MAHESWARI R 920820106020	KARUNIAA J S 920819106023	NISHA.M 920818106018	SHARMILA DEVI G 920819106058
2.	AJITHA S 920820106003	ABINAYA .S 920818106002	CHRISTIYA I 920819106011	MALAVIKA A 920820106021	DURGADEVI.S 920818106008	GAYATHRI M 920819106018	SANO NISHA N 920819106052	NIVETHA.K.S 920818106019	MADHUMITHA P 920819106028
3.	AMIZHTHAA B 920819106004	BLESSING.X 920818106004	ARCHANA P 920820106006	DHATH VETHA S 920819106014	HARIPRIYA.M 920818106009	MANIYAMMAIYAR N 920820106022	SUMUGAPRIYA M 920819106062	PUSHPA PRIYADHARSHINI.R 920818106023	SOUNDHARYA S 920819106061
4.	MAHAVARSHINI S 920820106019	DHARSHINI.V 920818106005	DEVI SRI S 920819106012	MEERA JAFRIN A 920820106024	ILAKKIYA.B 920818106010	JYOTHIKA B 920819106021	KEERTHI M 920819106024	SARITHA RANI.K 920818106026	MUTHU RANJANI V 920819106037
5.	BLESSY JEBAMANI G 920819106010	SEEMA FATHIMA.S 920818106029	DHAARINI M J 920820106010	NIL			DIVYA DHARSHINI S 920819106017	KIRUTHIKA.R 920818106013	MUNEESWARI L 920820106026
6.	POWSIKA DEVI K 920819106044	VARSHIINI.B 920818106036	HARINI C 920820106013	NIL			NIL		

EXAM CELL MEMBER

HOD-ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EXAM HALL SEATING ARRANGEMENT: ACADEMIC YEAR (2021-2022) ODD

HALL NO: RBLH 303

S.No.	COLUMN-I			COLUMN-II			COLUMN-III		
1	AJITH KUMAR K 920819106004	JAYA PRATHAP.S 920818106011	AJAI GOWTHAM S 920820106002	DHINESH M 920819106015	RAJKUMAR.K 920818106024	JAWAHAR R 920820106015	KIRTHICK N 920819106025	PRAVEENKUMAR P 920820106029	PRASANNA D 920819106046
2	AKASH S 920820106001	JEYARAJ.S 920818106012	BALAJI M 920819106008	JEEVA S 920820106016	SATHISH KUMAR.G 920818106028	JOSEPHRUMSBIL T R 920819106020	KISHOREKRISHNA A I 920819106026	RAHUL RAJ R 920820106030	MANOJKUMAR. S 920819106030
3	ARAVINTH RAJ K 920819106006	MANOJ PRABHAKAR.V 920818106014	ARAVINTHAN S 920820106005	DIVESH V 920819106016	SURYA PRAKASH.V. M 920818106033	JEFFERY ALBERT J 920820106017	MANOJ KUMAR A 920819106009	ROHITH ABRAHAM J 920820106031	MOHAMED ASIF M 920819106031
4	ARIHARAN K 920820106007	MUKESH KANNA G 920818106016	BALAJI M 920819106009	LOKESH KANNA G 920820106018	VIGNESH.R 920818106038	KAMALESH K 920819106022	RAMVIGNHESH R P 920819106048	SABEER AHAMED T 920820106032	MOHAMEDIBRA HIM I 920819106032
5	ASMA KUSHAN T 920819106007	MUTHU VIGNESH.M 920818106017	BALASAKTHI S 920820106008	HARISHWAR S 920819106019	VIGNESH.S 920818106302	MANOJ S 920820106023	SELVA KUMAR M 920820106037	NAGA VISHWA G 920819106039	SAI SANKARA NARAYANAN S 920820106033
6.	MOHAN BABU R 920819106033	PONBHARATHI. V 920818106020	HEMESHWAR S 920820106011	MOHAN S 920819106034	MUHAMMED THOUFIQ AGAKISH R 920820106025	MURUGANATHA N M 920819106035	NANDHA KUMAR D 920819106301	SANJAI KUMAR S 920820106035	VIKRAM S 920819106063
7.	PRARHU C 920819106045	PUGALARASU S 920818106022	HAREESH V 920820106012	A.ASWATHAM AN LE	SIVAPRASAD K 920820106038	B.PARTHIBAN LE	S.PRADEEP LE	-	K.PASILAN LE

EXAM CELL MEMBER
[S. SUDHAKAR]

HOD/ECE

B.E - INTERNAL TEST - I - September – 2021

Internal Duty List

First Internal Examination for Higher Semester Sep/Oct 2021

Internal Invigilator Duty List

Date :22.09.2021

S.No.	Name of the Staff	Designation	Date		Signature
1	Mr. P.Balamurugan	AP/Civil	27.09.2021	29.09.2021	
2	Mr. K.Karuppasamy	AP/Civil	27.09.2021	04.10.2021	
3	Mrs. C.Selvi	AP/Civil	28.09.2021	29.09.2021	
4	Mr. C.Vijayakumar	AP/Civil	27.09.2021	28.09.2021	
5	Ms. E.Madhumathisurlya	AP/Civil	27.09.2021	04.10.2021	
6	Mr. K.Selvam	AP/Civil	28.09.2021	29.09.2021	
7	Mr. K.Shanthakumar	AP/Civil	27.09.2021	04.10.2021	
8	Mr. P.Manikandan	AP/Civil	28.09.2021	04.10.2021	
9	Mr. S.Alagu Dharmaraj	AP/Civil	27.09.2021	28.09.2021	
10	Mrs.i.Premasundari	AP/Civil	28.09.2021	04.10.2021	
11	Mr. T. K .Prasanna	AP/Civil	29.09.2021	30.09.2021	
12	Mr. U.Karthik	AP/Civil	27.09.2021	04.10.2021	
13	Mr. N.Karthic	AP/Civil	29.09.2021	30.09.2021	
14	Mr. A.Saranya Jenifer	AP/Civil	27.09.2021	04.10.2021	
15	Mr.S.Ponrasu	AP/Civil	29.09.2021	04.10.2021	
16	Mr. V.Prakash	AP/Civil	28.09.2021	30.09.2021	
17	Mr.G. Sethuraj	AP/Mech	29.09.2021		
18	Mr.G. Sundararajan	AP/Mech	27.09.2021		
19	Mr.S. Joshua	AP/Mech	30.09.2021		
20	Mr. T. Balasubramani	AP/Mech	27.09.2021	30.09.2021	
21	Mr. M. Mathan Raj	AP/Mech	30.09.2021		
22	Mr.B. Deepan	AP/Mech	28.09.2021	01.10.2021	
23	Mr.M. Vimal Chand	AP/Mech	30.09.2021		
24	Mr.K. Sathish Kumar	AP/Mech	29.09.2021		
25	Mr. L.Balasubramanian	AP/Mech	27.09.2021	29.09.2021	
26	Mr.B. Rajeshkannan	AP/Mech	01.10.2021		
27	Mr. Arangarajan Mookia	AP/Mech	27.09.2021	30.09.2021	
28	Mrs. T.Esther	AP/ECE	04.10.2021		
29	Mrs. S.Kamalam	AP/ECE	27.09.2021	29.09.2021	
30	Mr. K.Jayaprakasam	AP/ECE	01.10.2021		
31	Mr. J.G.Sabarish	AP/ECE	01.10.2021		
32	Mr. S.Surendhar	AP/ECE	29.09.2021	30.09.2021	
33	Mr. S.Sudhakar	AP/ECE	01.10.2021		
34	Mrs. A.Iniyamary	AP/ECE	27.09.2021	29.09.2021	

35	Mr. S.Vinayagam	AP/ECE	01.10.2021		
36	Mrs. S.Monika	AP/ECE	28.09.2021	01.10.2021	
37	Mrs. C.Kannika Parameshwari	AP/ECE	30.09.2021		
38	Mr. R.Naveenkumar	AP/ECE	04.10.2021	04.10.2021	
39	Mr. K.Sundarapandi	AP/ECE	27.09.2021	29.09.2021	
40	Mr. R.SundaraBharathi	AP/ECE	01.10.2021		
41	Mrs. M.Marikani	AP/ECE	29.09.2021	01.10.2021	
42	Mrs. J.Nayanadhara	AP/ECE	28.09.2021	30.09.2021	
43	Mrs. E. Thangadeepiga	AP/ECE	30.09.2021	01.10.2021	
44	Ms. S.Priyadharsini	AP/ECE	27.09.2021	29.09.2021	
46	Mr.S.Sathyamoorthi	AP/EEE	28.09.2021	30.09.2021	
47	Mr.T.Sivakumar	AP/EEE	28.09.2021	04.10.2021	
48	Mrs.K.Tamilselvi	AP/EEE	30.09.2021	04.10.2021	
49	Mr.M.Edwin Lawrance	AP/EEE	27.09.2021	28.09.2021	
50	Mr.K.Rajesh	AP/EEE	30.09.2021		
51	Mr.M.Thangapandian	AP/EEE	30.09.2021	01.10.2021	
52	Mrs.U.Sarayu	AP/EEE	28.09.2021	30.09.2021	
53	Mrs.S.T.Saranya	AP/EEE	30.09.2021		
54	Mr.S.Sathyamoorthi	AP/EEE	28.09.2021	04.10.2021	
55	Ms.K.Tamilselvi	AP/EEE	29.09.2021	04.10.2021	
56	Mrs.P.Kaleeswari	AP/CSE	28.09.2021	01.10.2021	
57	Mrs.J.Prisca Mary	AP/CSE	27.09.2021	29.09.2021	
59	Mrs.C.Kalpana	AP/CSE	29.09.2021	04.10.2021	
60	Mr.Arocklalrudayaraja	AP/CSE	01.10.2021		
61	Mrs.R.Vasuki	AP/CSE	28.09.2021	01.10.2021	
62	Mrs.G.Sashikala	AP/CSE	01.10.2021	04.10.2021	
63	Mrs.K.ShanmugaPriya	AP/CSE	28.09.2021	01.10.2021	
64	Mrs.M.Pavithra	AP/CSE	01.10.2021		

Exam Cell Coordinator
G. SUNDARARAJAN

Principal
Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal
N.P.R. 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.
An ISO 9001:2015 Certified Institution.
Phone No: 04544- 246 500, 246501, 246502.
Website : www.nprcolleges.org, www.nprcet.org, Email:nprcetprincipal@nprcolleges.org

SQUAD DUTY LIST

First Internal Examination for Higher Semester Sep/Oct 2021

Squad Duty List

Date :22.09.2021

S.No.	Name of the Staff	Designation	Allotted Department	Signature
1.	V.Muthukumar	Asso.Prof/Civil	ECE	
2.	Dr.T.Malaichamy	Preofessor/Mech	EEE	
3.	Dr.S.M.Vijayarajan	Asso.Prof/ECE	Civil	
4.	Mrs.S.T.Saranya	AP/EEE	CSE	
5.	Mrs.V.Sujitha	AP/CSE	Mech	

Exam Cell Coordinator

G. SUNDARARAJAN

Principal

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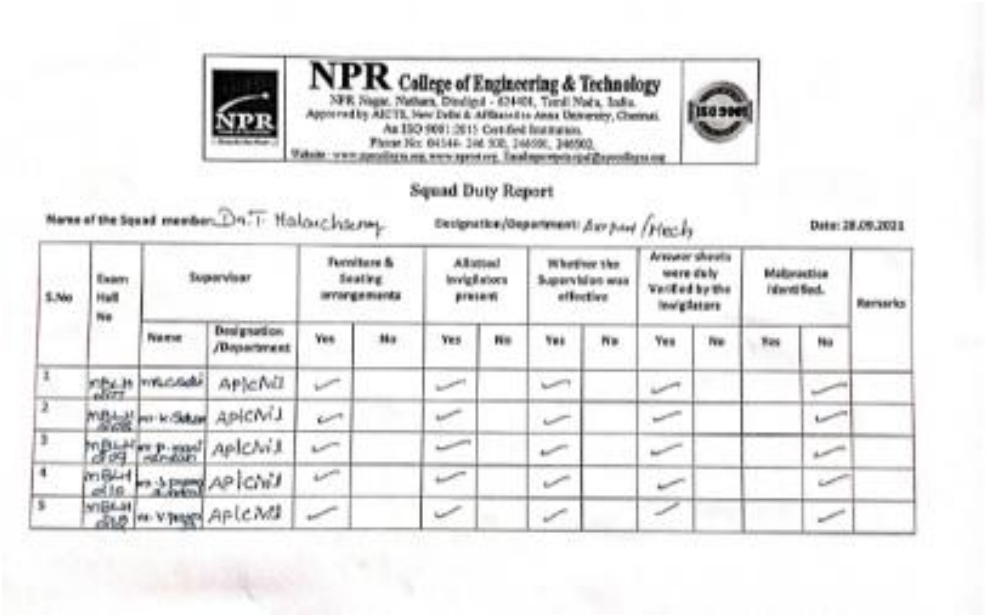
B.E., M.Tech., Ph.D.,
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Squad Duty List Report



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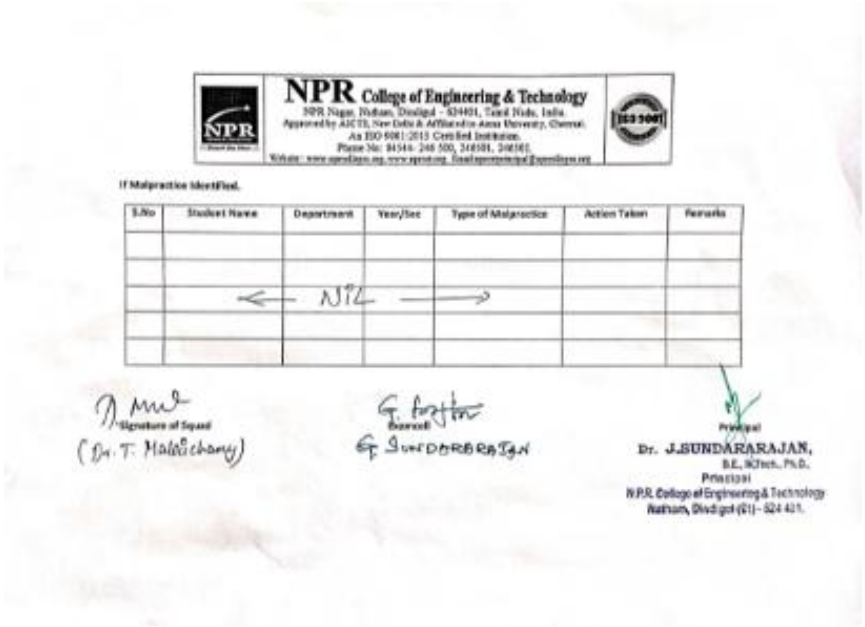
Squad Duty Report

Name of the Squad member: Dr.T. Halaichamy Designation/Department: Assistant Prof/Mech Date: 28.09.2021

S.No	Exam Hall No	Supervisor		Furniture & Seating arrangements		Allotted Invigilators present		Whether the Supervision was effective		Answer sheets were duly Verified by the Invigilators		Malpractice identified.		Remarks
		Name	Designation /Department	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
1			AP/CNJ	✓		✓		✓		✓			✓	
2			AP/CNJ	✓		✓		✓		✓			✓	
3			AP/CNJ	✓		✓		✓		✓			✓	
4			AP/CNJ	✓		✓		✓		✓			✓	
5			AP/CNJ	✓		✓		✓		✓			✓	



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If Malpractice identified,

S.No	Student Name	Department	Year/Sec	Type of Malpractice	Action Taken	Remarks
		← NIL →				

Signature of Squad
(Dr.T. Halaichamy)

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The sample of Internal marks entered in Anna University web portal is attached below.

Period 1 – Entry of Attended hours only
Period 2 – Entry of internal marks **(IM1)**
Period 3 – Entry of internal marks **(IM2)**
Period 4 – Entry of internal marks **(MODEL)**

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Assessment Details Entered

NOV. / DEC. EXAMINATION,2021 - EXAMINATIONS

Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

Branch Code / Name : 106 : B.E. Electronics and Communication Engineering **University : AUC**
Semester : 07

Register No.	Name of the Student	Subjects	Attend hr 1	Total hr 1	Attend hr 2	Total hr2	IM 2	Attend hr 3	Tot hr 3	IM 3	Attend hr 4	Total hr4	IM 4
920818106001	ABILASHA M	EC8092	21	21	15	15	99	15	16	100	22	22	100
		EC8701	21	21	17	17	97	16	17	98	17	17	98
		EC8702	21	21	14	14	98	14	14	99	20	20	99
		EC8711									60	60	99
		EC8751	22	22	16	16	98	15	16	97	16	16	97
		EC8761									60	60	100
		EC8791	21	21	14	14	96	15	15	97	21	21	99
		OIC751	21	21	16	16	100	16	16	100	21	21	100
920818106002	ABINAYA S	EC8092	21	21	15	15	99	16	16	100	22	22	100
		EC8701	21	21	17	17	99	17	17	99	17	17	99
		EC8702	21	21	14	14	99	14	14	99	20	20	99
		EC8711									60	60	99
		EC8751	22	22	16	16	98	16	16	98	16	16	98
		EC8761									60	60	100
		EC8791	21	21	14	14	94	15	15	94	21	21	98
		OIC751	21	21	16	16	100	16	16	100	21	21	100
920818106004	BLESSING X	EC8092	21	21	15	15	98	16	16	98	22	22	98
		EC8701	21	21	17	17	96	17	17	96	17	17	96
		EC8702	21	21	13	14	95	13	14	95	20	20	94
		EC8711									60	60	97
		EC8751	21	22	16	16	92	16	16	92	16	16	92
		EC8761									60	60	98
		EC8791	20	21	13	14	92	14	15	92	21	21	94
		OIC751	21	21	16	16	92	16	16	92	21	21	92
920818106005	DHARSHNI V	EC8092	21	21	15	15	95	15	16	95	22	22	98
		EC8701	20	21	16	17	93	16	17	93	16	17	93
		EC8702	20	21	14	14	91	14	14	91	20	20	90
		EC8711									54	60	95
		EC8751	19	22	14	16	90	14	16	90	14	16	90
		EC8761									54	60	99
		EC8791	21	21	14	14	90	14	15	90	19	21	92
		OIC751	20	21	15	16	90	15	16	90	21	21	90
920818106007	DURGA DEVI B	EC8092	21	21	14	15	97	15	16	97	20	22	98
		EC8701	20	21	17	17	95	17	17	95	17	17	95
		EC8702	21	21	14	14	92	14	14	92	18	20	93
		EC8711									60	60	96
		EC8751	20	22	15	16	90	15	16	90	15	16	90
		EC8761									60	60	99
		EC8791	21	21	14	14	90	14	15	90	21	21	94
		OIC751	20	21	16	16	98	16	16	98	20	21	98
920818106008	DURGA DEVI S	EC8092	21	21	15	15	97	15	16	97	22	22	98
		EC8701	21	21	17	17	96	17	17	96	17	17	96
		EC8702	20	21	14	14	98	14	14	98	20	20	97
		EC8711									60	60	98
		EC8751	22	22	16	16	98	16	16	98	16	16	98
		EC8761									60	60	98
		EC8791	21	21	14	14	96	15	15	96	21	21	94
		OIC751	21	21	16	16	98	16	16	98	21	21	98
920818106009	HARIPRIYA M	EC8092	21	21	15	15	98	16	16	99	22	22	98
		EC8701	21	21	17	17	96	17	17	96	17	17	96
		EC8702	21	21	14	14	97	14	14	97	20	20	98
		EC8711									60	60	97
		EC8751	22	22	16	16	98	16	16	98	16	16	98

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	EC8761									60	60	98
	EC8791	21	21	14	14	96	15	15	96	21	21	98
	OIC751	21	21	16	16	98	16	16	98	21	21	98
920818106010 ILAKKIYA B	EC8092	21	21	13	15	99	13	16	100	22	22	100
	EC8701	21	21	15	17	98	15	17	98	15	17	98
	EC8702	21	21	12	14	99	12	14	99	20	20	99
	EC8711									60	60	99
	EC8751	22	22	14	16	98	14	16	98	14	16	98
	EC8761									60	60	100
	EC8791	21	21	12	14	96	15	15	96	21	21	100
	OIC751	21	21	13	16	98	13	16	98	21	21	98
920818106011 JAYA PRATHAP S	EC8092	20	21	12	15	86	13	16	92	20	22	95
	EC8701	20	21	15	17	85	15	17	85	15	17	85
	EC8702	19	21	13	14	85	13	14	85	19	20	87
	EC8711									54	60	92
	EC8751	18	22	12	16	85	12	16	85	12	16	85
	EC8761									54	60	96
	EC8791	19	21	12	14	88	12	15	88	20	21	90
	OIC751	20	21	13	16	85	13	16	85	20	21	85
920818106012 JEYARAJ S	EC8092	21	21	14	15	98	14	16	99	21	22	98
	EC8701	21	21	15	17	85	15	17	85	15	17	85
	EC8702	21	21	13	14	89	13	14	89	19	20	91
	EC8711									60	60	95
	EC8751	22	22	14	16	88	14	16	88	14	16	88
	EC8761									60	60	100
	EC8791	21	21	13	14	88	14	15	88	20	21	92
	OIC751	21	21	14	16	90	14	16	90	20	21	90
920818106013 KIRUTHIKA R	EC8092	21	21	15	15	95	16	16	95	22	22	95
	EC8701	21	21	16	17	95	16	17	95	16	17	95
	EC8702	21	21	14	14	91	14	14	91	20	20	92
	EC8711									60	60	97
	EC8751	22	22	15	16	90	15	16	90	15	16	90
	EC8761									60	60	98
	EC8791	21	21	14	14	90	14	15	90	20	21	94
	OIC751	21	21	16	16	90	16	16	90	21	21	90
920818106014 MANOJ PRABHAKAR V	EC8092	19	21	14	15	92	14	16	92	22	22	95
	EC8701	20	21	16	17	85	16	17	85	16	17	85
	EC8702	20	21	14	14	86	14	14	86	20	20	87
	EC8711									57	60	92
	EC8751	18	22	14	16	86	14	16	86	14	16	86
	EC8761									57	60	98
	EC8791	19	21	14	14	86	14	15	86	20	21	90
	OIC751	20	21	14	16	90	14	16	90	20	21	90
920818106016 MUKESH KANNA G	EC8092	21	21	14	15	85	13	16	85	21	22	90
	EC8701	20	21	16	17	80	16	17	80	16	17	80
	EC8702	21	21	14	14	84	14	14	84	19	20	85
	EC8711									54	60	91
	EC8751	20	22	12	16	82	12	16	82	12	16	82
	EC8761									54	60	98
	EC8791	20	21	14	14	82	15	15	82	20	21	92
	OIC751	20	21	12	16	82	13	16	82	19	21	82
920818106017 MUTHU VIGNESH M	EC8092	21	21	15	15	99	15	16	99	21	22	100
	EC8701	21	21	17	17	94	17	17	94	17	17	94
	EC8702	21	21	14	14	95	14	14	95	20	20	97
	EC8711									60	60	98
	EC8751	22	22	15	16	96	15	16	96	15	16	96
	EC8761									60	60	100
	EC8791	21	21	14	14	98	15	15	98	21	21	100

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Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

	OIC751	21	21	15	16	96	15	16	96	21	21	96
920818106018 NISHA M	EC8092	21	21	15	15	95	16	16	95	22	22	96
	EC8701	21	21	15	17	95	15	17	95	15	17	95
	EC8702	21	21	13	14	97	13	14	97	20	20	98
	EC8711									60	60	97
	EC8751	22	22	16	16	96	16	16	96	16	16	96
	EC8761									60	60	99
	EC8791	21	21	14	14	98	14	15	98	21	21	98
	OIC751	21	21	16	16	96	16	16	96	21	21	96
920818106019 NIVETHA K S	EC8092	21	21	15	15	94	16	16	94	22	22	94
	EC8701	20	21	16	17	91	16	17	91	16	17	91
	EC8702	21	21	14	14	92	14	14	92	20	20	94
	EC8711									60	60	96
	EC8751	22	22	15	16	90	15	16	90	15	16	90
	EC8761									60	60	99
	EC8791	21	21	14	14	90	14	15	90	21	21	94
	OIC751	20	21	16	16	90	16	16	90	21	21	90
920818106020 PONBHARATHI V	EC8092	21	21	15	15	90	14	16	90	20	22	98
	EC8701	21	21	17	17	88	17	17	88	17	17	88
	EC8702	21	21	14	14	88	14	14	88	19	20	84
	EC8711									57	60	95
	EC8751	22	22	14	16	86	14	16	86	14	16	86
	EC8761									57	60	98
	EC8791	21	21	14	14	86	15	15	86	20	21	90
	OIC751	21	21	14	16	86	14	16	86	21	21	95
920818106022 PUGALARASU S	EC8092	21	21	15	15	91	15	16	91	20	22	98
	EC8701	21	21	17	17	85	17	17	85	17	17	85
	EC8702	21	21	14	14	90	14	14	90	19	20	92
	EC8711									57	60	96
	EC8751	22	22	15	16	84	15	16	84	15	16	84
	EC8761									57	60	98
	EC8791	21	21	14	14	84	15	15	84	21	21	90
	OIC751	21	21	15	16	84	15	16	84	21	21	95
920818106023 PUSHPA PRIYADHARSHINI R	EC8092	20	21	15	15	95	16	16	95	21	22	97
	EC8701	21	21	17	17	95	17	17	95	17	17	95
	EC8702	21	21	14	14	94	14	14	94	20	20	96
	EC8711									60	60	96
	EC8751	20	22	16	16	94	16	16	94	16	16	94
	EC8761									60	60	99
	EC8791	21	21	14	14	94	15	15	94	21	21	96
	OIC751	21	21	16	16	90	16	16	90	21	21	98
920818106024 RAJKUMAR K	EC8092	21	21	14	15	89	15	16	89	22	22	95
	EC8701	21	21	16	17	93	16	17	93	16	17	93
	EC8702	20	21	13	14	92	13	14	92	18	20	93
	EC8711									57	60	96
	EC8751	20	22	15	16	90	15	16	90	15	16	90
	EC8761									57	60	99
	EC8791	21	21	13	14	90	14	15	90	20	21	92
	OIC751	21	21	15	16	90	15	16	90	20	21	98
920818106026 SARITHARANI K	EC8092	21	21	14	15	98	16	16	99	22	22	98
	EC8701	21	21	16	17	95	16	17	95	16	17	95
	EC8702	21	21	14	14	98	14	14	98	20	20	98
	EC8711									60	60	98
	EC8751	22	22	16	16	96	16	16	96	16	16	96
	EC8761									60	60	98
	EC8791	21	21	14	14	96	15	15	96	21	21	94
	OIC751	21	21	16	16	98	16	16	98	21	21	98
920818106027 SARMATHI R	EC8092	21	21	15	15	99	16	16	99	22	22	100

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Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

	EC8701	21	21	17	17	95	17	17	95	17	17	95
	EC8702	21	21	14	14	97	14	14	97	20	20	98
	EC8711									60	60	98
	EC8751	22	22	16	16	92	16	16	92	16	16	92
	EC8761									60	60	100
	EC8791	21	21	14	14	92	15	15	92	21	21	100
	OIC751	21	21	16	16	92	16	16	92	21	21	92
920818106028 SATHISH KUMAR G	EC8092	21	21	14	15	88	15	16	88	22	22	95
	EC8701	21	21	16	17	88	16	17	88	16	17	88
	EC8702	21	21	12	14	94	12	14	94	20	20	95
	EC8711									57	60	95
	EC8751	22	22	15	16	86	15	16	86	15	16	86
	EC8761									57	60	99
	EC8791	21	21	12	14	86	14	15	86	20	21	90
	OIC751	21	21	15	16	86	15	16	86	20	21	86
920818106029 SEEMA FATHIMA S	EC8092	21	21	15	15	99	16	16	99	22	22	100
	EC8701	21	21	16	17	99	16	17	99	16	17	99
	EC8702	21	21	14	14	99	14	14	99	20	20	99
	EC8711									60	60	99
	EC8751	22	22	16	16	98	16	16	98	16	16	98
	EC8761									60	60	100
	EC8791	21	21	14	14	98	15	15	98	21	21	98
	OIC751	21	21	16	16	100	16	16	100	21	21	100
920818106031 SOWMIYA P	EC8092	21	21	15	15	98	16	16	98	22	22	98
	EC8701	21	21	16	17	98	16	17	98	16	17	98
	EC8702	21	21	14	14	98	14	14	98	20	20	98
	EC8711									60	60	99
	EC8751	22	22	15	16	98	15	16	98	15	16	98
	EC8761									60	60	99
	EC8791	21	21	14	14	98	15	15	98	21	21	100
	OIC751	21	21	16	16	98	16	16	98	21	21	98
920818106032 SREE RAGA SUDHA K	EC8092	21	21	14	15	97	16	16	99	22	22	97
	EC8701	21	21	16	17	97	16	17	97	16	17	97
	EC8702	21	21	14	14	98	14	14	98	20	20	98
	EC8711									60	60	98
	EC8751	22	22	16	16	96	16	16	96	16	16	96
	EC8761									60	60	99
	EC8791	21	21	14	14	96	15	15	96	21	21	98
	OIC751	21	21	16	16	96	16	16	96	21	21	96
920818106033 SURYA PRAKASH VM	EC8092	16	21	13	15	80	15	16	85	20	22	85
	EC8701	20	21	15	17	75	15	17	83	15	17	75
	EC8702	17	21	12	14	78	12	14	85	17	20	79
	EC8711									54	60	92
	EC8751	17	22	15	16	77	15	16	82	15	16	77
	EC8761									54	60	96
	EC8791	18	21	12	14	77	12	15	80	19	21	90
	OIC751	20	21	15	16	79	15	16	86	18	21	85
920818106035 SWETHA M	EC8092	19	21	15	15	97	14	16	97	21	22	98
	EC8701	20	21	16	17	84	16	17	84	16	17	84
	EC8702	16	21	13	14	89	13	14	89	20	20	90
	EC8711									54	60	91
	EC8751	17	22	14	16	86	14	16	86	14	16	86
	EC8761									54	60	99
	EC8791	18	21	13	14	86	14	15	86	20	21	94
	OIC751	20	21	14	16	80	14	16	88	21	21	95
920818106036 VARSHINI B	EC8092	21	21	15	15	99	16	16	100	22	22	100
	EC8701	21	21	17	17	99	17	17	99	17	17	99
	EC8702	21	21	14	14	99	14	14	99	20	20	99

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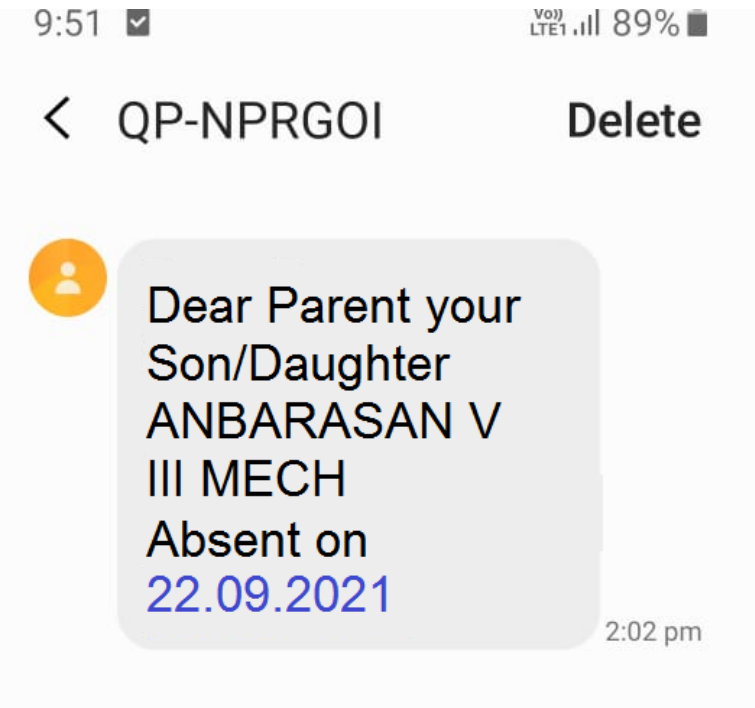
Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

	EC8711									60	60	99
	EC8751	22	22	16	16	98	16	16	98	16	16	98
	EC8761									60	60	100
	EC8791	21	21	14	14	98	15	15	98	21	21	100
	OIC751	21	21	16	16	100	16	16	100	21	21	100
920818106037 VENNILA A	EC8092	21	21	14	15	98	16	16	98	22	22	98
	EC8701	21	21	17	17	95	17	17	95	17	17	95
	EC8702	21	21	14	14	95	14	14	95	20	20	96
	EC8711									60	60	97
	EC8751	22	22	15	16	92	15	16	92	15	16	92
	EC8761									60	60	99
	EC8791	21	21	14	14	92	14	15	92	21	21	94
	OIC751	21	21	16	16	92	16	16	92	21	21	98
920818106038 VIGNESH R	EC8092	21	21	14	15	91	15	16	91	21	22	97
	EC8701	21	21	16	17	90	16	17	90	16	17	90
	EC8702	21	21	14	14	95	14	14	95	19	20	96
	EC8711									57	60	95
	EC8751	22	22	15	16	90	15	16	90	15	16	90
	EC8761									57	60	100
	EC8791	21	21	14	14	90	15	15	90	21	21	92
	OIC751	21	21	15	16	90	15	16	90	20	21	95
920818106039 VISHALINI B	EC8092	21	21	15	15	97	16	16	97	20	22	98
	EC8701	21	21	17	17	96	17	17	96	17	17	96
	EC8702	21	21	14	14	97	14	14	97	20	20	98
	EC8711									60	60	98
	EC8751	22	22	15	16	98	15	16	98	15	16	98
	EC8761									60	60	99
	EC8791	21	21	14	14	98	14	15	98	21	21	96
	OIC751	21	21	16	16	98	16	16	98	21	21	98
920818106040 VIVEKA S	EC8092	21	21	15	15	98	15	16	98	20	22	99
	EC8701	21	21	17	17	96	17	17	96	17	17	96
	EC8702	21	21	14	14	98	14	14	98	20	20	98
	EC8711									60	60	99
	EC8751	22	22	15	16	98	15	16	98	15	16	98
	EC8761									60	60	98
	EC8791	21	21	14	14	98	15	15	98	21	21	94
	OIC751	21	21	15	16	98	15	16	98	21	21	98
920818106302 VIGNESH S	EC8092	20	21	15	15	95	15	16	95	20	22	98
	EC8701	21	21	16	17	90	16	17	90	16	17	90
	EC8702	19	21	13	14	91	13	14	91	20	20	92
	EC8711									57	60	94
	EC8751	20	22	15	16	94	15	16	94	15	16	94
	EC8761									57	60	96
	EC8791	21	21	14	14	92	14	15	92	20	21	94
	OIC751	21	21	15	16	94	15	16	94	20	21	98

Continuous Internal Evaluation (CIE) Report to Parents

Absent Report to the Parents



V.Anbarasan -III-Mech Absent SMS

ANNA UNIVERSITY –STUDENT LOGIN WEBPORTAL

Welcome MANI BHARATHI R !!

PROFILE | EXAM SCHEDULE | REG.PREVIEW | ASSESSMENT | EXAM RESULTS | ELECTIVE | GRIEVANCE

Subject Code	Report Period I		Report Period II			Report Period III			
	Total Period	Attended Period	Total Period	Attended Period	Assessment Mark(Out of 100)	Total Period	Attended Period	Assessment Mark(Out of 100)	Tot Peri
GE6757	21	20	16	14	89	18	16	97	
ME6005	22	21	26	25	56	19	17	100	
ME6012	15	14	23	19	44	22	21	95	
ME6701	18	17	19	17	47	21	18	56	
ME6702	25	24	21	18	82	24	23	89	
ME6703	24	23	19	17	44	13	12	79	

Note:

1. The attendance details are given only in terms of periods. If the details are format like % of attendance, you may approach the concerned faculty mem necessary changes.
2. The assessment marks obtained are displayed for the maximum of 100 m
3. If any discrepancy is noticed by a student, it may be clarified with the conc members.

Anna University, Chennai

Office of the Controller of Examinations
Pre- Examination Monitoring System

Welcome HARISHWAR S !!

Result for April / May Examination,2022

Register Number : 920819106019
Name : HARISHWAR S
Branch : B.E. Electronics and Communication Engineering

Semester	Subject Code	Grade	Result
06	EC8004	B+	PASS
06	EC8095	B	PASS
06	EC8611	O	PASS
06	EC8651	A+	PASS
06	EC8652	B+	PASS
06	EC8661	O	PASS
06	EC8681	O	PASS
06	EC8691	B+	PASS
06	HS8581	A+	PASS
06	MG8591	B	PASS

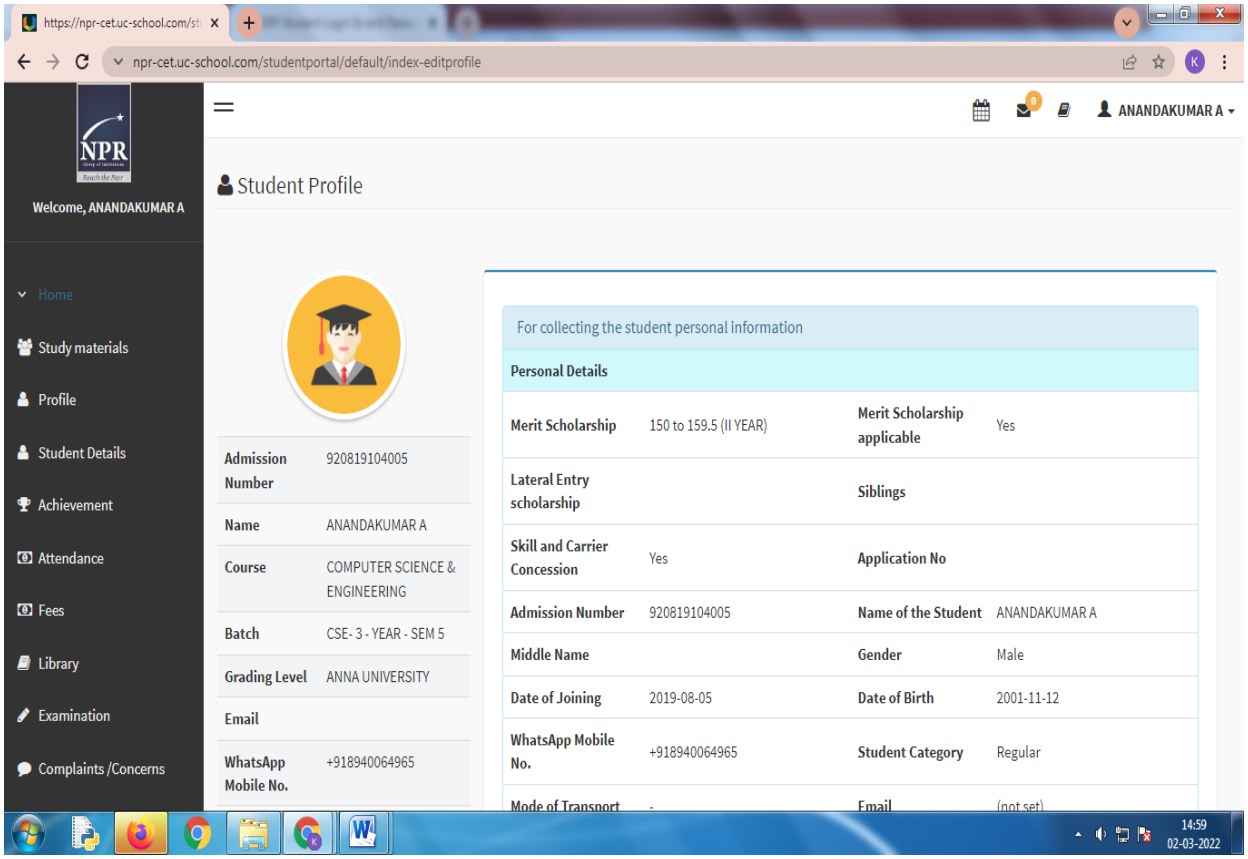


Fig: Students Profile in ERP Portal

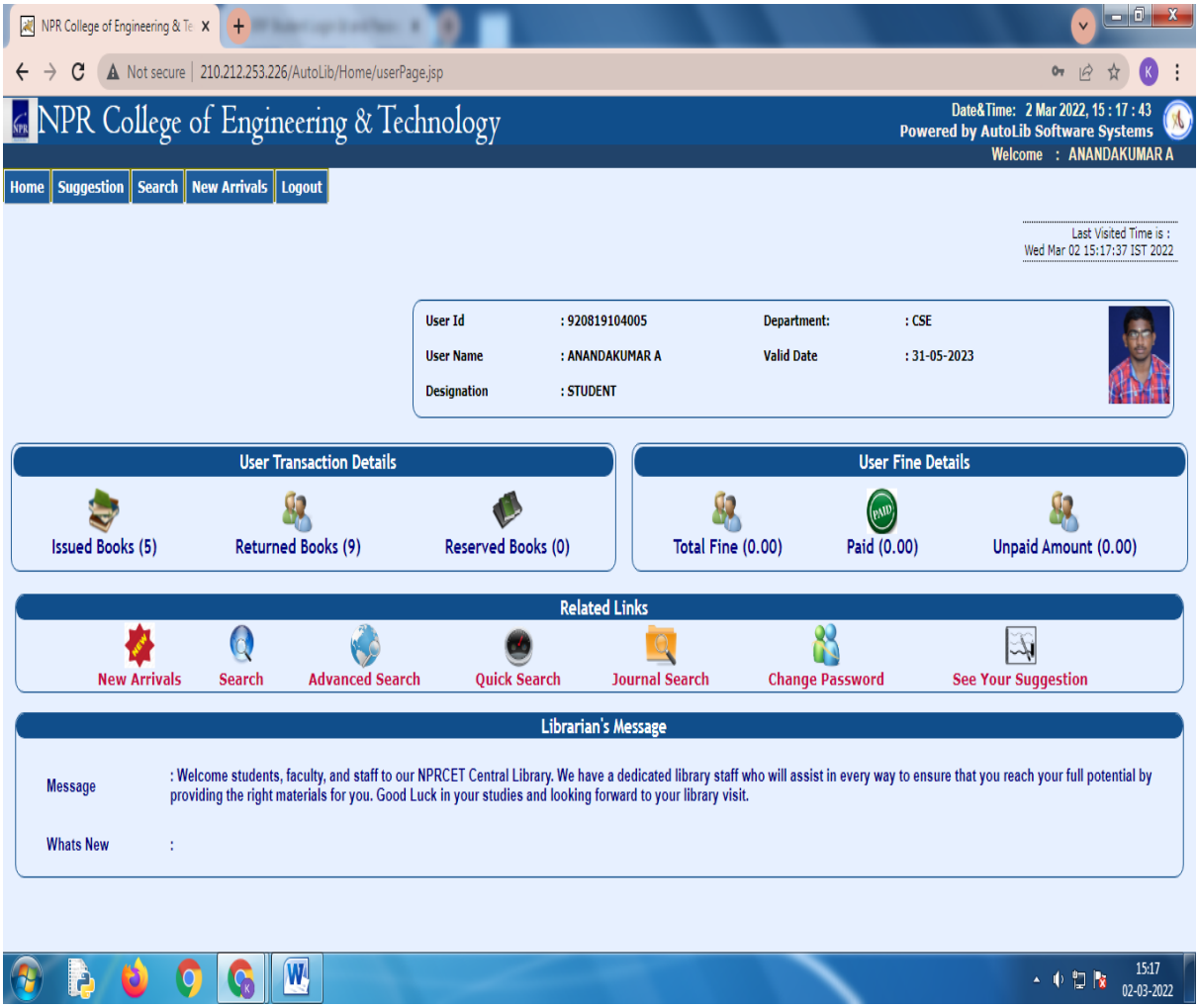


Fig: Library Book Links Utilized details in ERP

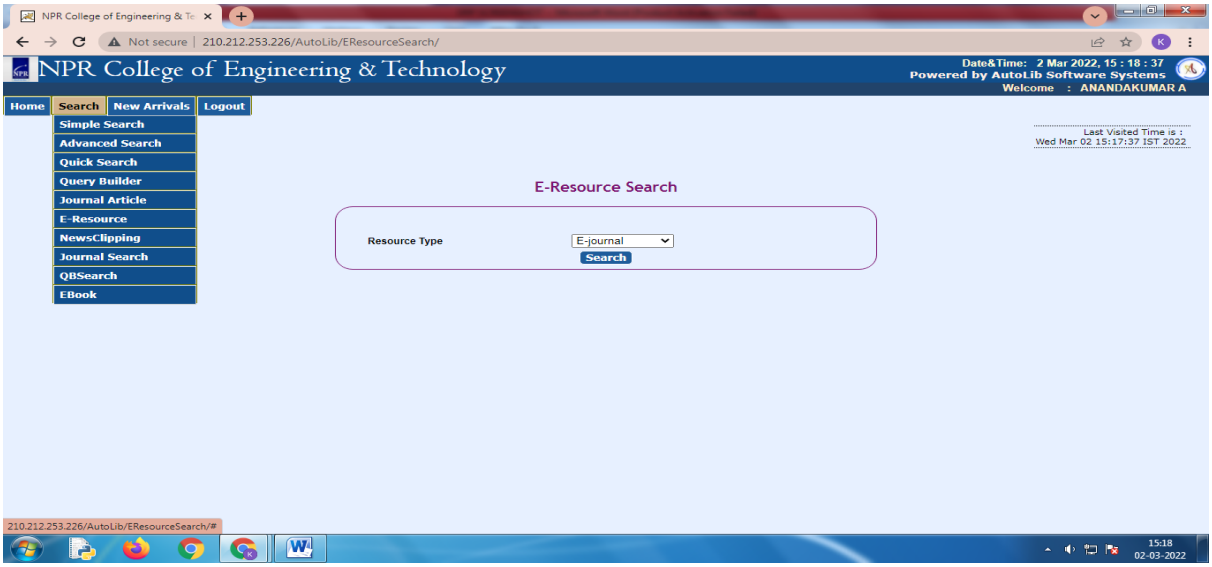


Fig: Library Enrty through ERP

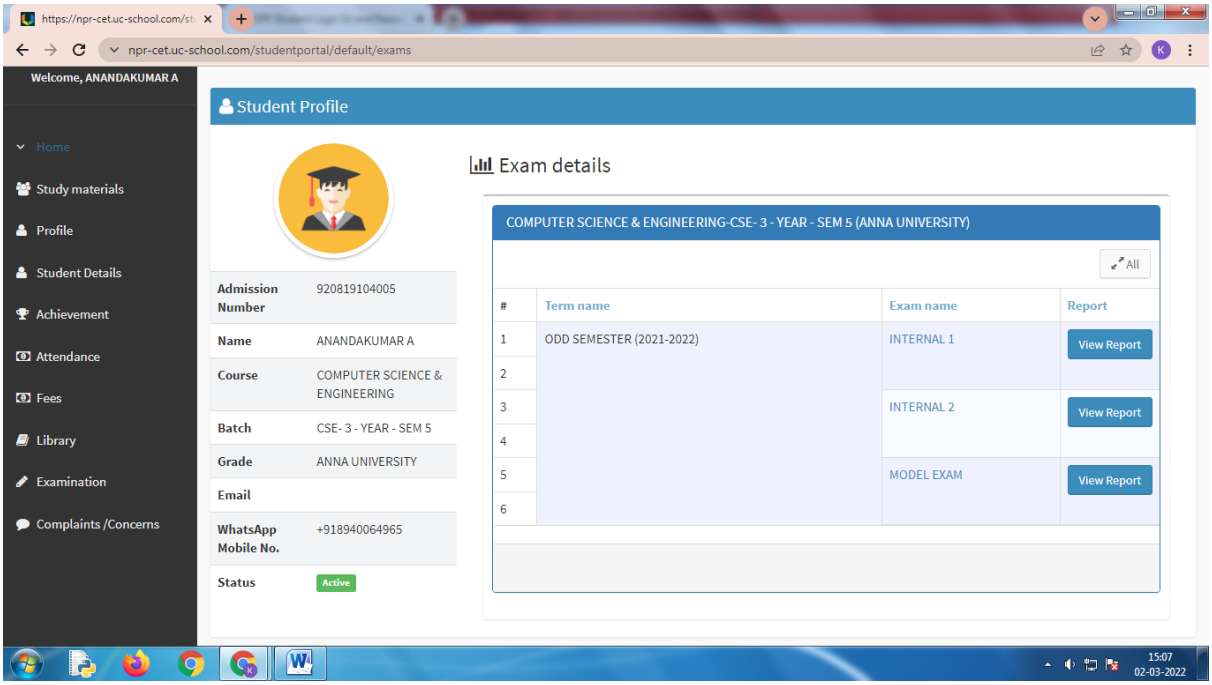


Fig: Internal Examination Details in ERP

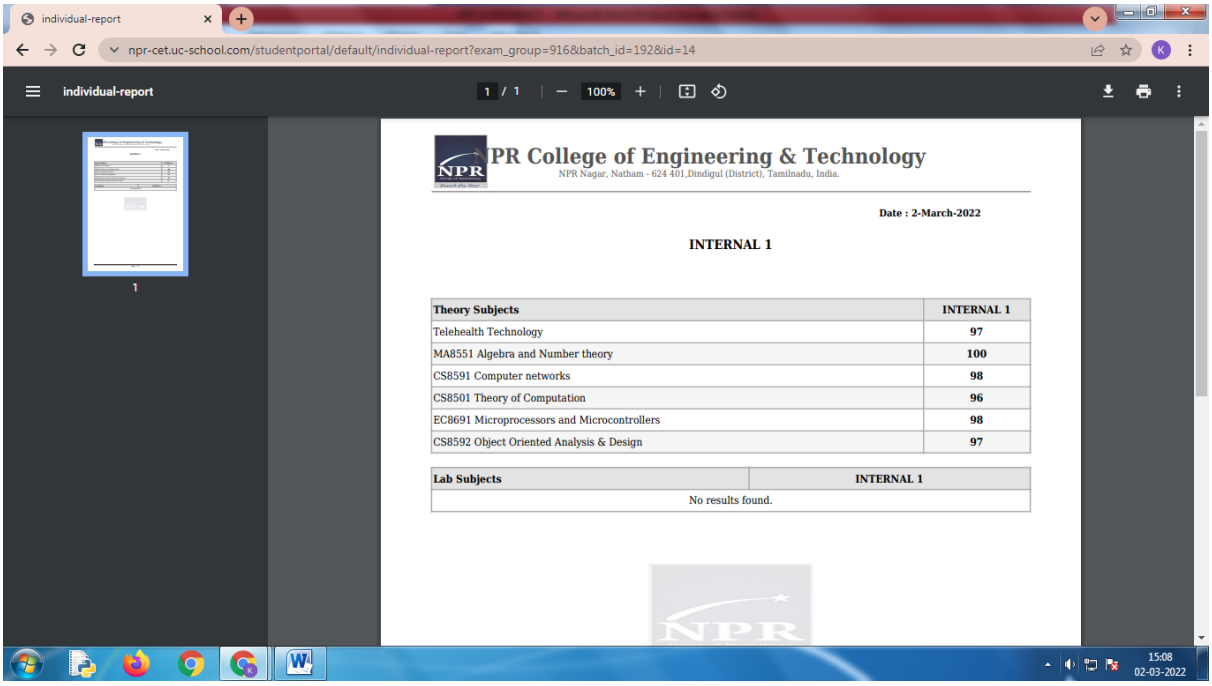
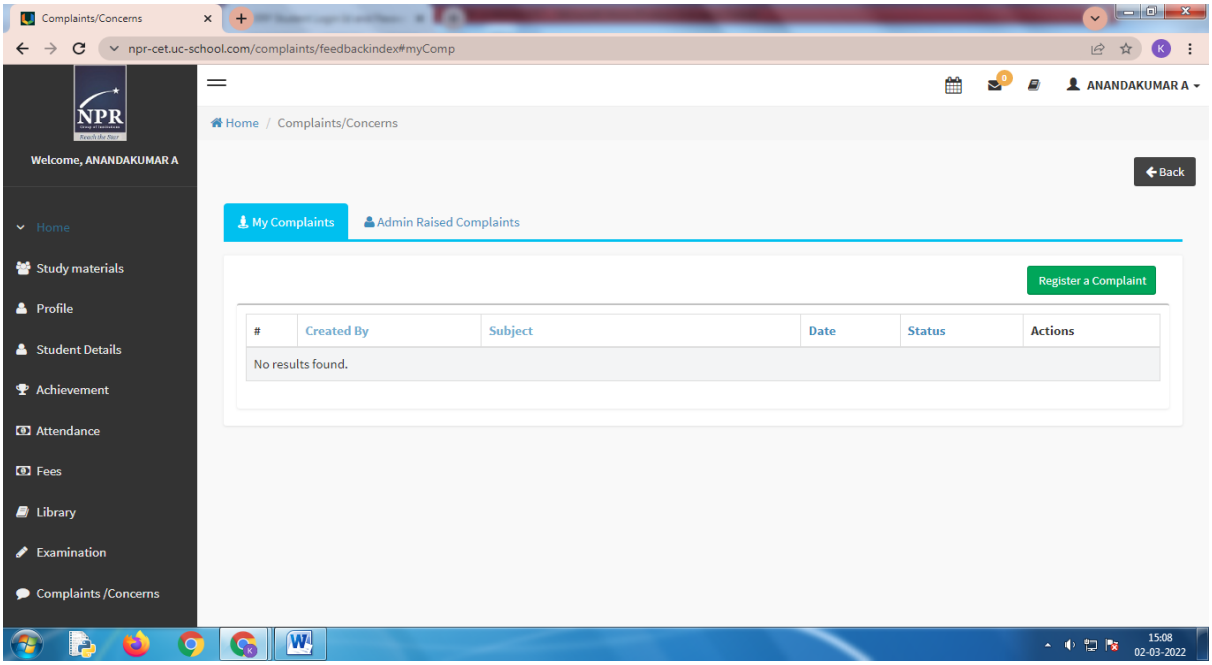


Fig: Internal Exam Marks Details in ERP



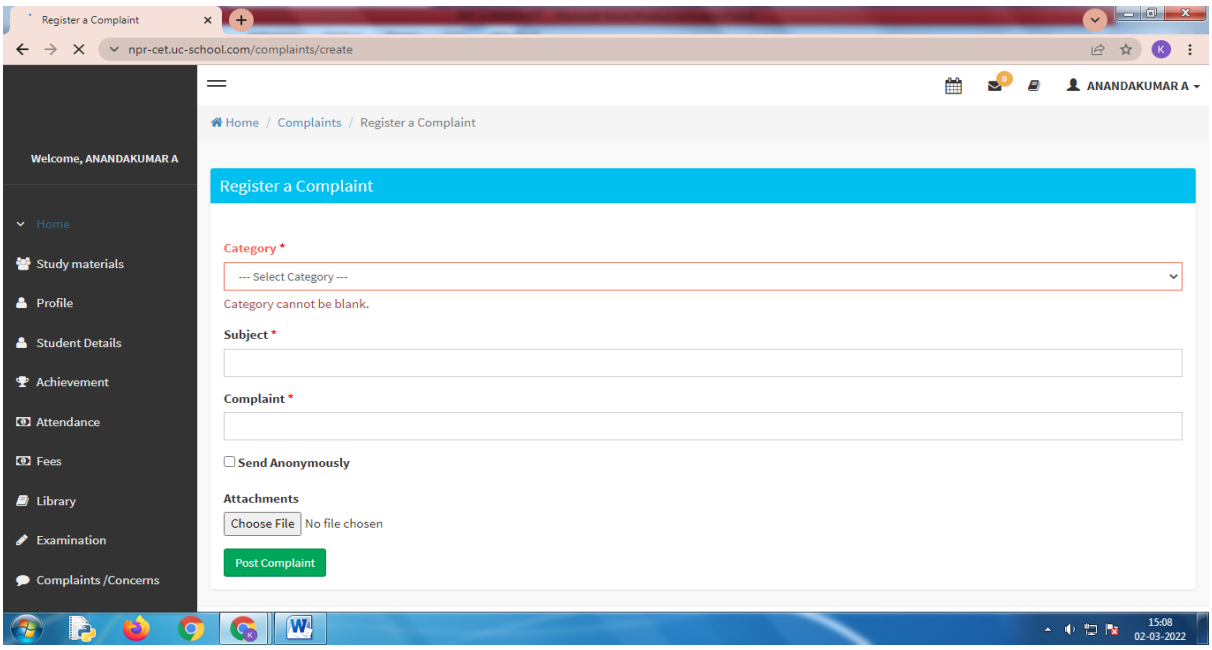


Fig: Students Grivenance in ERP

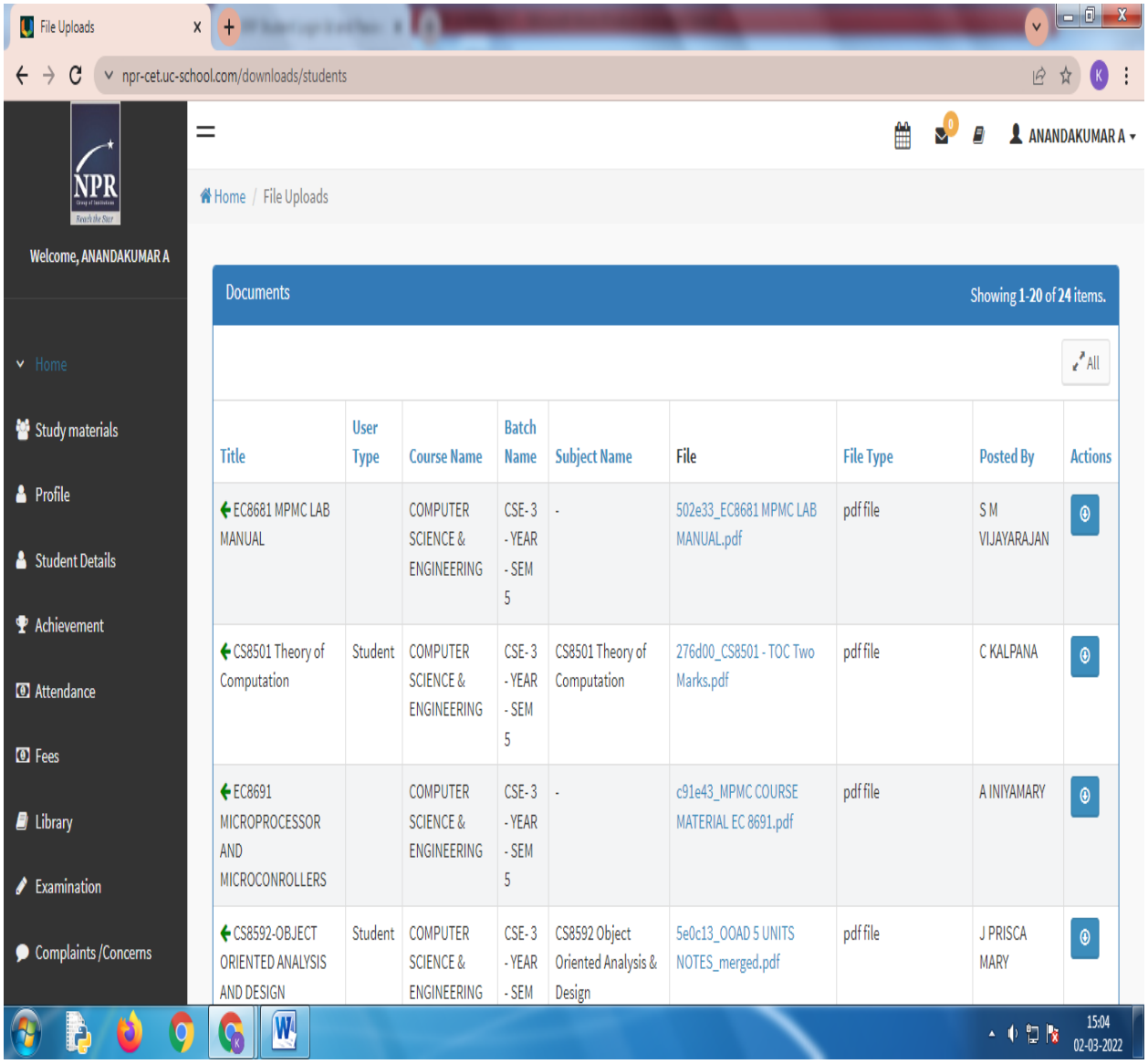


Fig: Notes Shared to the students

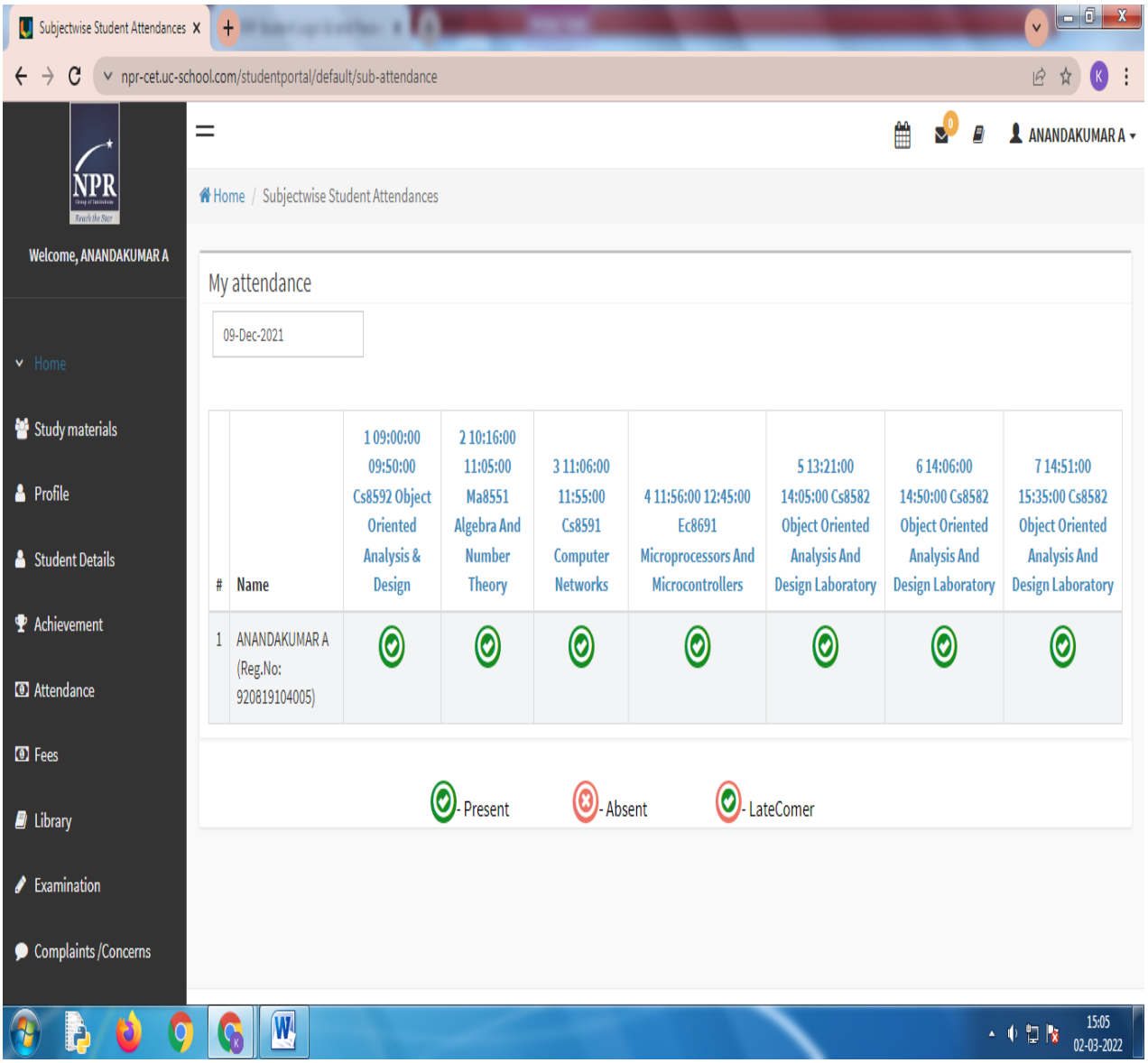


Fig: Students Attendance in ERP web portal

Sample reports of CIE

Scheme of Evaluation

1. Question pattern
2. Answer key & sheet

NPR College of Engineering & Technology
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Website : www.nprcolleges.org, www.nprcet.org, Email:nprcetprincipal@nprcolleges.org

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Register Number:

INTERNAL EXAMINATION I – OCTOBER 2021

3rd Semester – ECE

EC8391- CONTROL SYSTEM ENGINEERING

Duration: **90 Minutes** Date: 4.10.21 Maximum marks: **50**

Course Outcomes ,Question Number, Marks:

COs	CO1	CO2
Ques. No.	1,2,7	3,4,5,6,8
Max. Marks	20	30

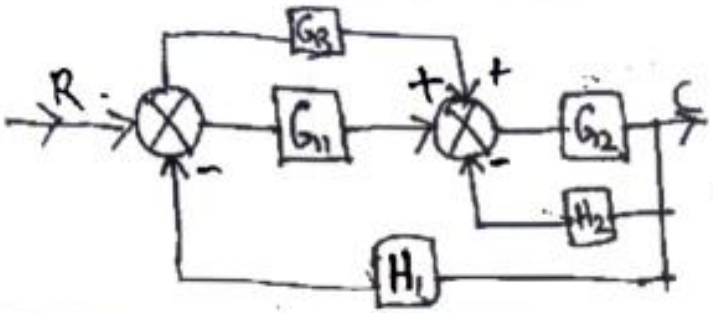
COs & K-Level:

CO1: Students can be able to identify the various control system components and their representations.

CO2: Students will be able to analyze the various time domain parameters.

K-Levels	K1: Remember	K2: Understand	K3:Apply	K4:Analyse	K5:Evaluate	K6:Create

Q.No	Answer All Questions		Bloom's Taxonomy K-level
	PART – A (5 x 2 = 10 marks)		
1.	Compare open loop and closed loop system.		K1
2.	What is a Gear train? What are electrical Analogous of gears?		K1
3.	How the system is classified based on depending ratio?		K1
4.	A second order system bas a dumping ratio of 0.6 and natural frequency of oscillation is 10 rad/sec. Determine the damped freq of oscillation.		K1
5.	What is the effect of PI controller on the system performance?		K1
	PART – B (1 x 8 = 8 marks)		
6.	A unit step input is applied to the unity feedback system for which open loop transfer function G(S)=16/S(S+8). Find, 1. Its closed loop transfer function, 2. Natural frequency of oscillation ω_n, 3. Damping ratio z, 4. Damped frequency of oscillations, ω_d	(8)	K2
	PART – C (2 x16 = 32 marks)		
7.	Obtain C(S)/R(S) using block diagram reduction rules.	(16)	K2

			
8.	For a unity feedback control system the open loop transfer function G(s) = 10(s+2)/s2 (s+1). Find (a) the position, velocity and acceleration error constants, (b) the steady state error when the input is R(s) where R(s)=	(16)	K2

FACULTY IN-CHARGE **HoD**

Note: In Part C, questions can be set for 16 marks if the answer is very lengthy otherwise two or more sub-divisions can be included in each full question with break-up of marks indicated in brackets.

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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INTERNAL EXAMINATION I– October 2021

EC8391- CONTROL SYSTEM ENGINEERING

Answer Key

PART – A

1. **Compare open loop and closed loop system.**

Open loop	Closed loop
Inaccurate and unreliable.	Accurate and reliable.
Simple and economical	Complex and costlier.
Stable	Great efforts are needed to design a stable system.

2. **What is a Gear train? What are electrical Analogous of gears?**
A gear train is a mechanical device that transmits energy from one part of the system to another part to attain Maximum power transfer. The electrical Analogous of gears is Transformers.

3. **How the system is classified based on depending ratio?**
The system is classified into 4 types
1. Undamped system
2. Underdamped system
3. Critically damped system
4. Over damped system

4. A second order system has a damping ratio of 0.6 and natural frequency of oscillation is 10 rad/sec. Determine the damped freq of oscillation.

$$\omega_d = \omega_n\sqrt{1-\zeta^2}$$
$$= 10\sqrt{1-(0.6)^2}$$
$$= 8rad/sec$$

5. What is the effect of PI controller on the system performance?
   - The PI controller increases the order of the system by one, which results in reducing the steady state error.
   - The system becomes less stable

PART-B

6. A unit step input is applied to the unity feedback system for which open loop transfer function G(S)=16/S(S+8). Find, 1. Its closed loop transfer function, 2. Natural frequency of oscillation ω_n, 3. Damping ratio ζ, 4. Damped frequency of oscillations, ω_d

i) $\frac{C(s)}{R(s)} = \frac{G(s)}{1+G(s)H(s)}$

$$= \frac{\frac{16}{s(s+8)}}{1+\frac{16}{s(s+8)}}$$

$$= \frac{16}{s^2+8s+16}$$

ii) The standard equation is,

S2+2zwns+wn2

Comparing S2+8S +16 with standard equation,

Wn2 = 16 2zwn =8

Wn =√16 z= 8 / 8

= 4 rad / sec z = 1

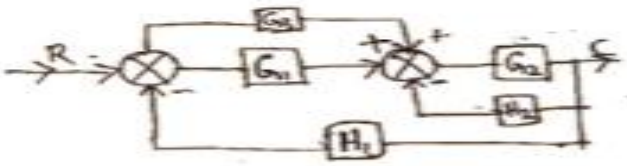
iv) wd = wn √1-z2

= 4√1-1

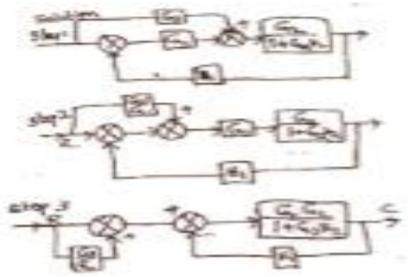
wd = 0 rad/sec

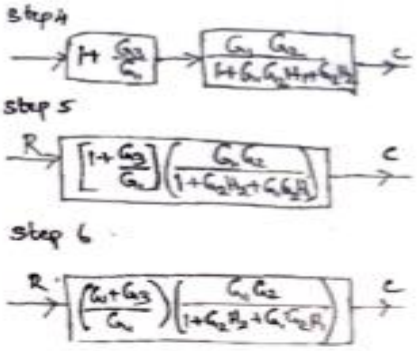
PART-C

7. Obtain C(S)R(S) using block diagram reduction rules.



Soln:





8. For a unity feedback control system the open loop transfer function G(s) = 10(s+2)/s2 (s+1). Find (a) the position, velocity and acceleration error constants, (b) the steady state error when the input is R(s) where R(s)=

Soln.

(a) To find the static error constants

For a unity feed back system, H(s) = 1

Position error Constant , $K_p = \lim_{s\to 0} G(s)H(s) = \lim_{s\to 0} G(s)$

$$= \lim_{s\to 0} \frac{10(s+2)}{s^2(s+1)} = \infty$$

Velocity error constant, $K_v = \lim_{s\to 0} sG(s)H(s) = \lim_{s\to 0} sG(s)$

$$= \lim_{s\to 0} s\frac{10(s+2)}{s^2(s+1)} = \infty$$

Acceleration error constant, $K_a = \lim_{s\to 0} s^2G(s)H(s) = \lim_{s\to 0} s^2G(s)$

$$= \lim_{s\to 0} s^2\frac{10(s+2)}{s^2(s+1)} = \frac{10\times 2}{1} = 20$$

b) To find steady state error

Error signal in s – domain, $E(s) = \frac{R(s)}{1+G(s)H(s)}$

$$\therefore \frac{E(s)}{R(s)} = \frac{1}{1+G(s)H(s)}, \quad \text{Given that } G(s)\frac{10(s+2)}{s^2(s+1)} \text{ and } H(s) = 1$$

$$\therefore \frac{E(s)}{R(s)} = \frac{1}{1+\frac{10(s+2)}{s^3(s+1)}} = \frac{s^3(s+1)}{s^3(s+1)+10(s+2)}$$

$$= \frac{s^4+s^3}{s^5+s^4+10s+20} = \frac{s^3+s^4}{20+10s+s^4+s^5} = \frac{s^3}{20}+\frac{s^4}{40}+\ldots$$

$$E(s) = R(s)\left[\frac{s^3}{20}+\frac{s^4}{40}+\ldots\right]$$

$$= \frac{1}{20}s^3R(s)+\frac{1}{40}s^4R(s)+\ldots$$

On taking inverse laplace transform,

$$e(t) = \frac{1}{20}\ddot{r}(t)+\frac{1}{40}\dddot{r}(t)+\ldots$$

Given that $R(s) = \frac{3}{s}-\frac{2}{s^3}+\frac{1}{3s^5}$

$$20+10s+s^4+s^5 \;\Big|\; \frac{s^3}{20}+\frac{s^4}{40}$$

$$s^4+s^5$$

$$s^4+\frac{s^5}{2}+\frac{s^6}{20}+\frac{s^7}{20}$$

$$\frac{s^5}{2}-\frac{s^6}{20}-\frac{s^7}{20}$$

$$\frac{s^5}{2}+\frac{s^6}{4}+\frac{s^7}{40}+\frac{s^8}{40}$$

$$\frac{-3}{10}s^6-\frac{3}{40}s^7-\frac{s^8}{40}$$

$$\therefore r(t) = L^{-1}[R(s)] = L^{-1}\left[\frac{3}{s}-\frac{2}{s^3}+\frac{1}{3s^5}\right] = \frac{1}{3}-2t+\frac{1}{3}\frac{t^4}{24} = \frac{1}{3}-2t+\frac{t^4}{6}$$

$$\dot{r}(t) = \frac{d}{dt}r(t) = -2+\frac{1}{6}2t = -2+\frac{t}{3}$$

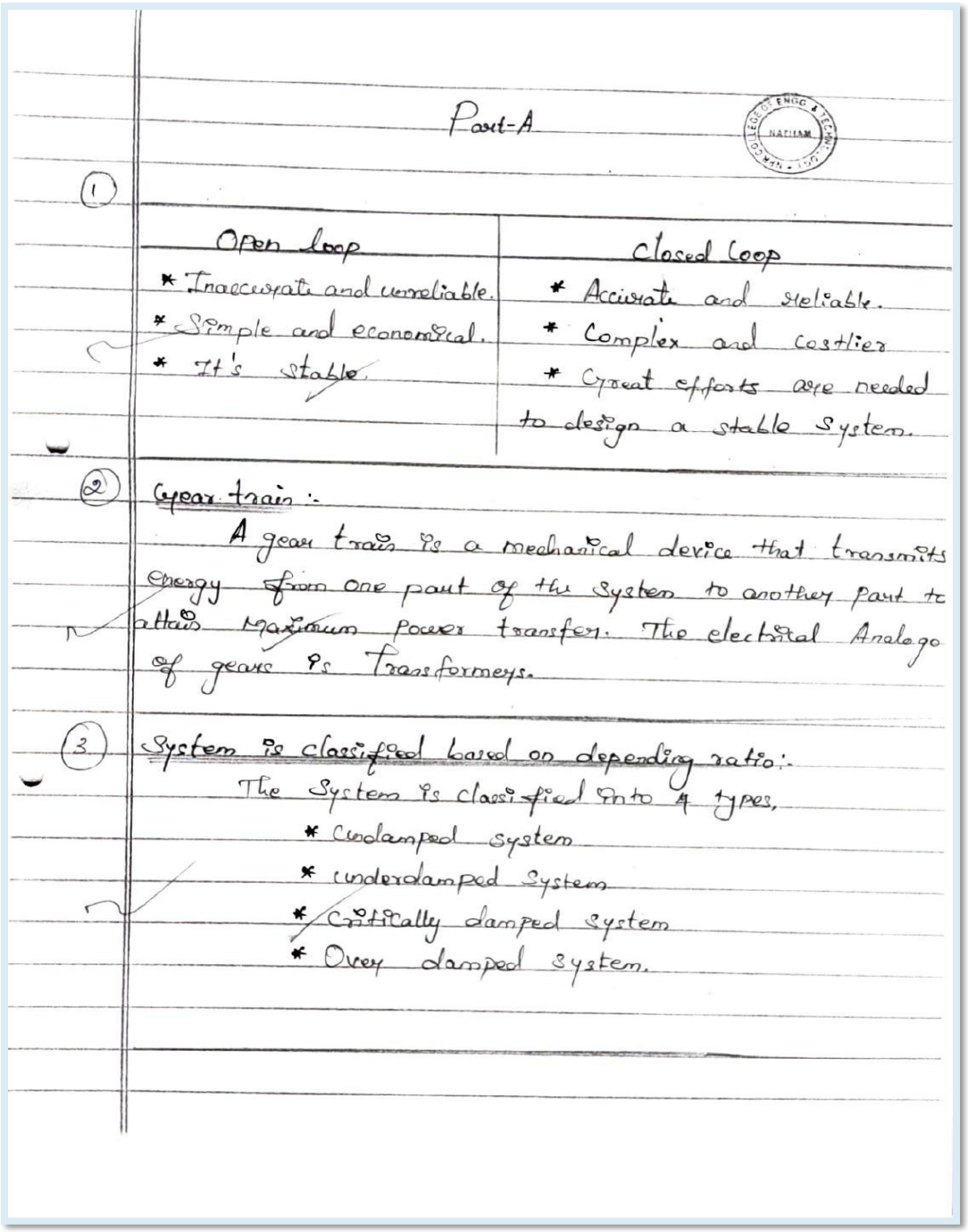
$$\ddot{r}(t) = \frac{d}{dt^2}r(t) = \frac{d}{dt}\dot{r}(t) = \frac{1}{3}$$

$$\dddot{r}(t) = \frac{d^3}{dt^3}r(t) = \frac{d}{dt}\ddot{r}(t) = 0$$

$\therefore$ Error signal in time domain, $e(t) = \frac{1}{20}\frac{d}{dt}\ddot{r}(t) = \frac{1}{20}\left(\frac{1}{3}\right) = \frac{1}{60}$

Steady state error, $e_{ss} = \lim_{t\to\infty} e(t) = \lim_{t\to\infty}\frac{1}{60} = \frac{1}{60}$

STUDENT ANSWER SHEET



Part-A

(1)

Open loop	Closed loop
* Inaccurate and unreliable.	* Accurate and reliable.
* Simple and economical.	* Complex and costlier
* It's stable.	* Great efforts are needed to design a stable system.

(2) Gear train :-

A gear train is a mechanical device that transmits energy from one part of the system to another part to attain Maximum power transfer. The electrical Analogo of gears is Transformers.

(3) System is classified based on depending ratio :-

The System is classified into 4 types,

* Undamped system
* underdamped system
* Critically damped system
* Over damped system.

(4) Given:-

damping ratio = 0.6

Natural frequency of oscillation is 10 rad/sec

Solv

$\omega_d = \omega_n \sqrt{1-\zeta^2}$

$= 10 \sqrt{1-(0.6)^2}$

$= 8$ rad/sec

(5) PI Controller:-

⇒ The PI Controller increases the order of the system by one, which results in reducing the steady state error.

⇒ The system becomes less stable.

Part-B

(6)

Solv

i) $\frac{C(s)}{R(s)} = \frac{G(s)}{1+G(s)H(s)}$

$= \frac{16/s(s+8)}{1+\frac{16}{s(s+8)}} = \frac{16}{s^2+8s+16}$

ii) The standard equation is,

$s^2 + 2\zeta\omega_n s + \omega_n^2$

Comparing $s^2 + 8s + 16$ with standard equation,

$\omega_n^2 = 16$ $\quad 2\zeta\omega_n = 8$

$\omega_n = \sqrt{16}$ $\quad 2\zeta = 8/8$

$= 4$ rad/sec $\quad \zeta = 1$

$\omega_d = \omega_n \sqrt{1-\zeta^2}$

$= 4\sqrt{1-1}$

$= 0$ rad/sec

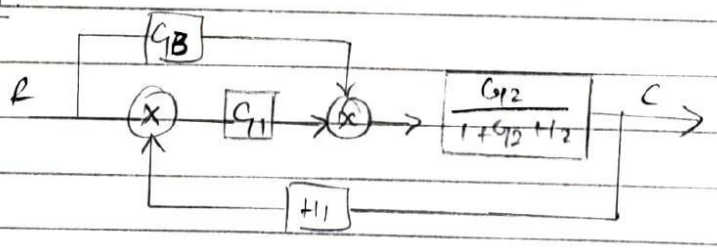
Part-C

(7)

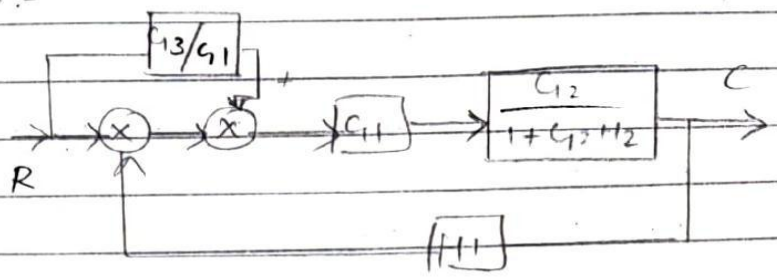
by solving, using a reduction rules.

Solv

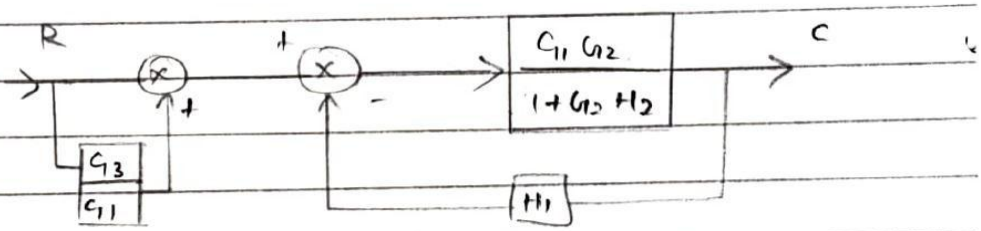
Step 1 :



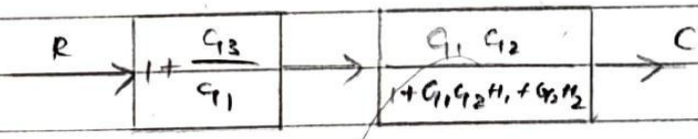
Step 2:-



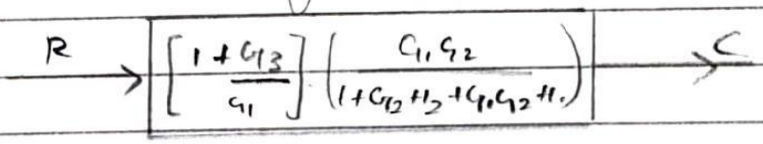
Step 3:-



Step 4:-



Step 5:-



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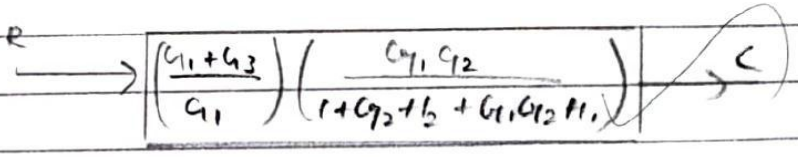

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Error signal in s-domain, $E(s) = \frac{R(s)}{1+G(s)H(s)}$

$\therefore \frac{E(s)}{R(s)} = \frac{1}{1+G(s)H(s)}$, given that $G(s) \frac{10(s+2)}{s^2(s+1)}$, $H(s)=1$

$= \frac{1}{1+\frac{10(s+2)}{s^2(s+1)}} = \frac{s^2(s+1)}{s^2(s+1)+10(s+2)}$

$= \frac{s^3+s^2}{s^3+s^2+10s+20} = \frac{s^2+s^3}{20+10s+s^2+s^3} = \frac{s^2}{20} + \frac{s^3}{40} + \cdots$

$E(s) = R(s)\left[\frac{s^2}{20} + \frac{s^3}{40} + \cdots\right]$

$= \frac{1}{20}s^2R(s) + \frac{1}{40}s^3R(s) + \cdots$

on taking Inverse laplace transform

$c(t) = \frac{1}{20}r(t) + \frac{1}{40}r(t) + \cdots$

$R(s) = \frac{3}{s} - \frac{2}{s^2} + \frac{1}{3s^3}$

(8) Given :- $G(s) = \frac{10(s+2)}{s^2(s+1)}$

Solv

a) To find the static error constants

$H(s) = 1 \Rightarrow$ unity feedback System

Position error constant $K_p = \lim_{s\to 0} G(s)H(s) = \lim_{s\to 0} G(s)$

$= \lim_{s\to 0} \frac{10(s+2)}{s^2(s+1)} = \infty$

Velocity error Constant, $K_v = \lim_{s\to 0} s\cdot G(s)H(s) = \lim_{s\to 0} s\cdot G(s)$

$= \lim_{s\to 0} s \cdot \frac{10(s+2)}{s^2(s+1)} = \infty$

cancellation

Acceleration error Constant $K_a = \lim_{s\to 0} s^2 G(s)H(s) = \lim_{s\to 0} s^2 G(s)$

$= \lim_{s\to 0} s^2 \frac{10(s+2)}{s^2(s+1)} = \frac{10\times 2}{1} = 20$

$$\frac{s^2}{10} + \frac{s^3}{10}$$

$$20+10s+5s^2+s^3 \;\Big|\; s^2+s^3$$

$$s^2+s^3+\frac{s^4}{3}+\dots$$

$$\frac{s^3}{2} - \frac{s^4}{2} - \frac{s^5}{20}$$

$$\frac{s^3}{2} + \frac{s^4}{4} + \frac{s^5}{10} + \dots$$

$$-\frac{3}{10}s^4 - \frac{3}{40}s^5 - s$$

$$\therefore r(t) = \mathcal{L}^{-1}[R(s)].$$

$$= \mathcal{L}^{-1}\left[\frac{3}{s} - \frac{2}{s^2} + \frac{1}{3s^3}\right]$$

$$= \frac{1}{3} - 2t + \frac{1}{3}\frac{t^2}{2!} = \frac{1}{3} - 2t + \frac{t^2}{6}$$

$$\dot{r}(t) = \frac{d}{dt} r(t) = -2 + \frac{1}{6}2t = -2 + t/3$$

$$\ddot{r}(t) = \frac{d}{dt^2} r(t) = \frac{d}{dt} \dot{r}(t) = \frac{1}{3}$$

$$\dddot{r}(t) = \frac{d^3}{dt^3} r(t) = \frac{d}{dt} \ddot{r}(t) = 0$$

$\therefore$ Error Signal in time domain, $e(t) = \frac{1}{20}\frac{d}{dt} r(t)$

$$= \frac{1}{20}\left(\frac{1}{3}\right) = \frac{1}{60}$$

Steady state error, $e_{ss} = \lim_{t\to\infty} e(t)$.

$$= \lim_{t\to\infty} \frac{1}{60}$$

$$= \frac{1}{60} //$$

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MODEL PRACTICAL EXAMINATION SCHEDULE

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ACADEMIC YEAR (2021-2022) – ODD SEMESTER

MODEL PRACTICAL EXAMINATION – NOV / DEC 2021

YEAR	SUBJECT	DATE & SESSION
II	EC8381 - Fundamentals of Data Structures in C Laboratory	26.11.2021 FN & AN
II	EC8361- Analog and Digital Circuits Laboratory	27.11.2021 FN & AN
III	EC8562 - Digital Signal Processing Laboratory	26.11.2021 FN & AN
III	EC8561 - Communication Systems Laboratory	27.11.2021 FN & AN
III	EC8563 - Communication Networks Laboratory	29.11.2021 FN & AN
IV	EC8711 - Embedded Laboratory	27.11.2021 FN & AN
IV	EC8761- Advanced Communication Laboratory	26.11.2021 FN & AN

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MODEL PRACTICAL EXAMINATION

LABORATORY SCHEDULE

EC8381 - FUNDAMENTALS OF DATA STRUCTURES IN C LABORATORY

VENUE: CSE MAIN LAB

Sl. No.	Degree / Branch / Semester	Date & Session of Exam	Time	Register No.	Total No. of students
1.	BE/ECE/3 BATCH-I	26.11.2021 FN	09.30 a.m. to 12.30 p.m.	920820106001 - 920820106008, 920820106010 - 920820106012, 920820106014 - 920820106027	25
2	BE/ECE/3 BATCH-II	26.11.2021 AN	01.00 p.m. to 04.00 p.m.	920820106028 – 920820106029, 920820106031 – 920820106046 920820106301 - 920820106307	25

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MODEL PRACTICAL EXAMINATION

LABORATORY SCHEDULE

EC8361- ANALOG AND DIGITAL CIRCUITS LABORATORY

VENUE: ELECTRONICS LAB

Sl. No.	Degree / Branch / Semester	Date & Session of Exam	Time	Register No.	Total No. of students
1.	BE/ECE/3 BATCH-I	27.11.2021 FN	09.30 a.m. to 12.30 p.m.	920820106001 - 920820106008, 920820106010 - 920820106012, 920820106014 - 920820106027	25
2	BE/ECE/3 BATCH-II	27.11.2021 AN	01.00 p.m. to 04.00 p.m.	920820106028 – 920820106029, 920820106031 – 920820106046 920820106301 - 920820106307	25

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MODEL PRACTICAL EXAMINATION

LABORATORY SCHEDULE

EC8562 - DIGITAL SIGNAL PROCESSING LABORATORY

VENUE: DSP LAB

Sl. No.	Degree / Branch / Semester	Date & Session of Exam	Time	Register No.	Total No. of students
1.	BE/ECE/5 BATCH-I	26.11.2021 FN	09.30 a.m. to 12.30 p.m.	920819106002 - 920819106004, 920819106006 – 920819106017, 920819106019 - 920819106026 920819106028 - 920819106037	33
2	BE/ECE/5 BATCH-II	26.11.2021 AN	01.00 p.m. to 04.00 p.m.	920819106038 - 920819106046 920819106048 - 920819106052 920819106054 - 920819106070 920819106302	32

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MODEL PRACTICAL EXAMINATION

LABORATORY SCHEDULE

EC8561 - COMMUNICATION SYSTEMS LABORATORY

VENUE: OCN LAB

Sl. No.	Degree / Branch / Semester	Date & Session of Exam	Time	Register No.	Total No. of students
1.	BE/ECE/5 BATCH-I	27.11.2021 FN	09.30 a.m. to 12.30 p.m.	920819106002 - 920819106004, 920819106006 – 920819106017, 920819106019 - 920819106026 920819106028 - 920819106037	33
2	BE/ECE/5 BATCH-II	27.11.2021 FN	01.00 p.m. to 04.00 p.m.	920819106038 - 920819106046 920819106048 - 920819106052 920819106054 - 920819106070 920819106302	32

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MODEL PRACTICAL EXAMINATION

LABORATORY SCHEDULE

EC8563 - COMMUNICATION NETWORKS LABORATORY

VENUE: EMBEDDED LAB

Sl. No.	Degree / Branch / Semester	Date & Session of Exam	Time	Register No.	Total No. of students
1.	BE/ECE/5 BATCH-I	29.11.2021 FN	09.30 a.m. to 12.30 p.m.	920819106002 - 920819106004, 920819106006 – 920819106017, 920819106019 - 920819106026 920819106028 - 920819106037	33
2	BE/ECE/5 BATCH-II	29.11.2021 FN	01.00 p.m. to 04.00 p.m.	920819106038 - 920819106046 920819106048 - 920819106052 920819106054 - 920819106070 920819106302	32

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MODEL PRACTICAL EXAMINATION

LABORATORY SCHEDULE

EC8711 - EMBEDDED LABORATORY

VENUE: Embedded Laboratory

Sl. No.	Degree / Branch / Semester	Date & Session of Exam	Time	Register No.	Total No. of students
1.	BE/ECE/7 BATCH-I	27.11.2021 FN	09.30 a.m. to 12.30 p.m.	920818106001, 920818106002, 920818106004, 920818106005, 920818106007-920818106014, 920818106016-920818106020	17
2	BE/ECE/7 BATCH-II	27.11.2021 AN	01.00 p.m. to 04.00 p.m.	920818106022-920818106024, 920818106026-920818106029, 920818106031-920818106033, 920818106035-920818106040, 920818106302	17

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MODEL PRACTICAL EXAMINATION

LABORATORY SCHEDULE

EC8761- ADVANCED COMMUNICATION LABORATORY

VENUE: OCN LAB

Sl. No.	Degree / Branch / Semester	Date & Session of Exam	Time	Register No.	Total No. of students
1.	BE/ECE/7 BATCH-I	26.11.2021 FN	09.30 a.m. to 12.30 p.m.	920818106001, 920818106002, 920818106004, 920818106005, 920818106007-920818106014, 920818106016-920818106020	17
2	BE/ECE/7 BATCH-II	26.11.2021 AN	01.00 p.m. to 04.00 p.m.	920818106022-920818106024, 920818106026-920818106029, 920818106031-920818106033, 920818106035-920818106040, 920818106302	17

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MODEL PRACTICAL EXAMINATION QUESTION

EC8563 & COMMUNICATION NETWORKS LABORATORY

Time: 3 Hours Max. Marks 100

Aim/Principle/Apparatus required/Procedure	Program/Drawing	Tabulation/Calculation & Results	Viva-Voce	Record	Total
10	**40**	**30**	**10**	**10**	**100**

1.	Create a scenario to analyze the performance of Ethernet LAN protocol through simulation in the following situations. i) Select 4 nodes and carry out data transfer between them with different packet sizes and different error generation. Disconnect one node and observe the performance and record. ii) Select 4 nodes and carry out data transfer between them. Analyze the result.
2.	Write a program to Implement any one of the Error Detection / Error Correction techniques and verify it.
3.	Write a program to compute Checksum at the transmitter end and re compute the same at receiver end for error detection
4.	Perform implementation of Stop and Wait Protocol using simulation/ programming
5.	Perform implementation of Sliding window Protocol using simulation/ programming
6.	Perform the implementation of Go-back-N Protocol using simulation/ programming
7.	Perform the Implementation of High-Level Data Link Control protocol (bit/byte stuffing)
8.	Write a Socket Program for implementing ping command.

9.	Write a program to implement Encryption and decryption of any message of 10 characters.
10.	With a suitable demonstration, Compare the performance of CSMA/CD and CSMA/CA protocols. Assume necessary parameters.
11.	Perform the implementation of Selective Repeat Protocol using simulation/ programming
12.	Perform file transfer between different hosts in a LAN using star topology and also analyze the performance when a node in the network is disconnected.
13.	Perform file transfer between different hosts in a LAN using Ring topology and also analyze the performance when a node in the network is disconnected.
14.	Implement distance vector routing algorithm (RIP) by having at least 5 hosts
15.	Implement Link state routing algorithm (OSPF) with 5 nodes
16.	Implement any one of the TCP Congestion Control Algorithm using NS and analyze its performance.
17.	Write a program to implement trace route command
18.	Write a program to implement lookup command
19.	With a suitable demonstration, create a scenario to analyze the performance of CSMA/CA protocol. Assume necessary parameters.
20.	Create a scenario to analyze the performance of CSMA/CD protocol. Assume necessary parameters.
21.	Write a program to implement IP address configuration.

INTERNAL EXAMINER

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MODEL PRACTICAL EXAMINATION QUESTION

EC8563 & COMMUNICATION NETWORKS LABORATORY

Time: 3 Hours Max. Marks 100

Aim/Principle/Apparatus required/Procedure	Program/Drawing	Tabulation/Calculation & Results	Viva-Voce	Record	Total
10	40	30	10	10	100

1.	Create a scenario to analyze the performance of Ethernet LAN protocol through simulation in the following situations. i) Select 4 nodes and carry out data transfer between them with different packet sizes and different error generation. Disconnect one node and observe the performance and record. ii) Select 4 nodes and carry out data transfer between them. Analyze the result.
2.	Write a program to Implement any one of the Error Detection / Error Correction techniques and verify it.
3.	Write a program to compute Checksum at the transmitter end and re compute the same at receiver end for error detection
4.	Perform implementation of Stop and Wait Protocol using simulation/ programming
5.	Perform implementation of Sliding window Protocol using simulation/ programming
6.	Perform the implementation of Go-back-N Protocol using simulation/ programming
7.	Perform the Implementation of High-Level Data Link Control protocol (bit/byte stuffing)
8.	Write a Socket Program for implementing ping command.

9.	Write a program to implement Encryption and decryption of any message of 10 characters.
10.	With a suitable demonstration, Compare the performance of CSMA/CD and CSMA/CA protocols. Assume necessary parameters.
11.	Perform the implementation of Selective Repeat Protocol using simulation/ programming
12.	Perform file transfer between different hosts in a LAN using star topology and also analyze the performance when a node in the network is disconnected.
13.	Perform file transfer between different hosts in a LAN using Ring topology and also analyze the performance when a node in the network is disconnected.
14.	Implement distance vector routing algorithm (RIP) by having at least 5 hosts
15.	Implement Link state routing algorithm (OSPF) with 5 nodes
16.	Implement any one of the TCP Congestion Control Algorithm using NS and analyze its performance.
17.	Write a program to implement trace route command
18.	Write a program to implement lookup command
19.	With a suitable demonstration, create a scenario to analyze the performance of CSMA/CA protocol. Assume necessary parameters.
20.	Create a scenario to analyze the performance of CSMA/CD protocol. Assume necessary parameters.
21.	Write a program to implement IP address configuration.

INTERNAL EXAMINER

HOD-ECE

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Model Exam Answer Sheet

Reg No: 920819106058

Model Practical Examination Date: 29.11.2021 AN

EC8563 / Communication Network Lab

Implement token bus and Ring topology using Vi-Rt sim

98%

Aim:

To implement the token bus and ring topology using Vi-Rt Sim simulator.

Requirement

Pc with VI-Rt Sim

Procedure:

1) Select VI-Rt Sim from the menu bar
2) Select simulation -> Token Bus / Token Ring
3) Write the program i window
4) Save and run the program.

Program (Token Bus):

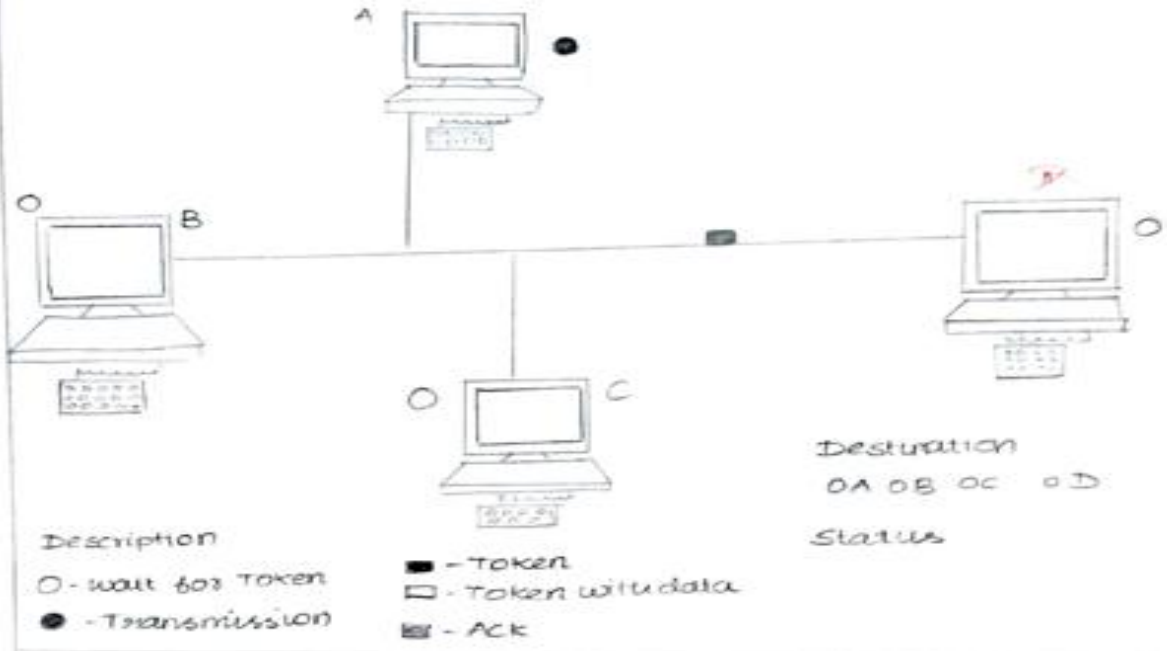
```
include <protocol.h>
Void main()
{
 Frame x;
 Token t;
 x = "FRIENDS";
 BUS = TOPOLOGY();
 CONSTRUCT_LOGICAL_RING();
 WANT_TO_TRANSMIT(A);
 repeat
  x = TOKEN_CAPTURE(A);
  until(x);
```

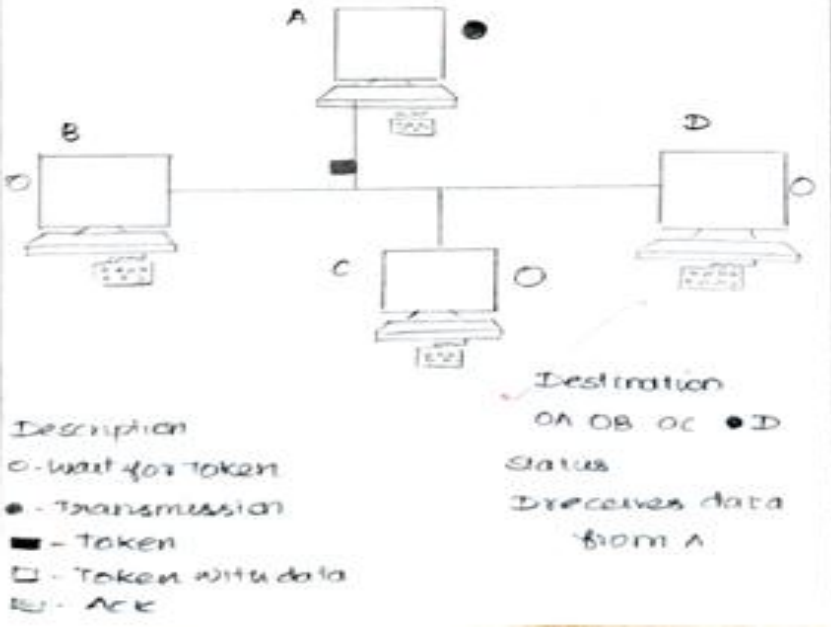
```
  TRANSMIT_DATA (A,D,X);
  STOP TOKEN_PASSING ( );
}
```

Program (Token Ring)

```
include <protocal.h>
Void main ( )
{
  Frame X;
  Token t ;
   X = "HAI";
   RING_TOPOLOGY( );
   CONSTRUCT_LOGICAL RING( );
   START TOKEN_PASSING(t);
   WANT TO_TRANSMIT (C);
     Repeat
       r = TOKEN_CAPTURE(C);
     until(r);
   TRANSMIT_DATA (C, B, X)
   STOP TOKEN_PASSING( )
}
```

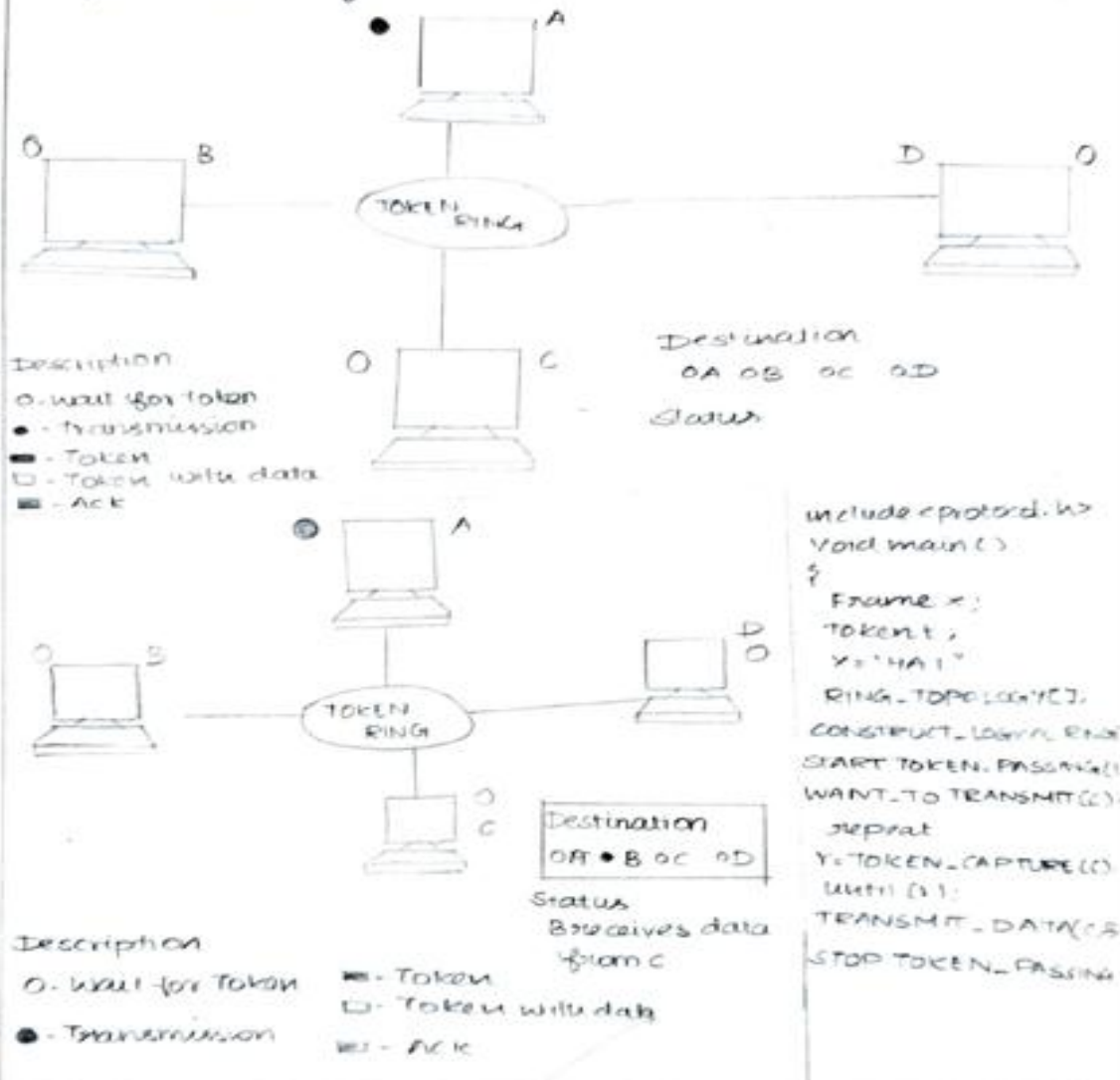
Output (Token Bus):






```
{
  Frame x;
  Token t;
  x = "FRIENDS";
  BUS_TOPOLOGY [];
  CONSTRUCT_LOGICAL
            RING[];
START TOKEN_PASSING(
WANT TO TRANSMIT(A);
 repeat
 t=TOKEN_CAPTURE(A)
 until(t);
 TRANSMIT_DATA(A,D)
 STOP TOKEN_PASSING()
}
```

Output (Token Ring):




```
include<protocol.h>
void main()
{
  Frame x;
  Token t;
  Y="HAI"
  RING_TOPOLOGY[];
CONSTRUCT_LOGICAL_RING
START TOKEN_PASSING()
WANT_TO TRANSMIT()
  repeat
Y=TOKEN_CAPTURE()
until(1);
TRANSMIT_DATA(
STOP TOKEN_PASSING
```

Result:

Thus the token bus and token ring topologies are simulated.

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Project Review Schedule

College Code and Name : 9208, NPR College of Engineering & Technology

Year / Semester : IV/VIII

Branch : Electronics and Communication Engineering

Subject Code and Name : EC8811- Project Work

Academic Year : 2021-2022

Batch	Register No	Students Name	Project Title	Project Guide
1	920818106001	ABILASHA.M	A Deep Learning Model for Brain Tumour Segmentation and Classification.	Mr.K.Jayaprakasam AP/ECE
	920818106010	ILAKKIYA.B		
	920818106031	SOWMIYA.P		
2.	920818106007	DURGADEVI.B	Real Time Authentication System Based on Voting Using Embedded Technology	Mr.J.G.Sabarish AP/ECE
	920818106037	VENNILA.A		
3	920818106004	BLESSING.X	Deep Convolution Neural Network on Breast Cancer Diagnostic Methodology.	Mrs.C.Kannika Parameshwari AP/ECE
	920818106032	SREE RAGA SUDHA.K		
	920818106036	VARSHIINI.B		
4	920818106002	ABINAYA. S	LIFI Based Automated Smart Trolley Using RFID	Mrs.A.Iniya Mary, AP/ECE
	920818106018	NISHA.M		
	920818106040	VIVEKA.S		
5	920818106008	DURGADEVI.S	Sensory Nerve Conduction with Non- Invasive Glucose Monitoring Using IOT	Mr.S.Sudhakar AP/ECE
	920818106023	PUSHPA PRIYADHARSHINI.R		
	920818106026	SARITHA RANI.K		
6	920818106009	HARIPRIYA.M	Mine Rescue Ensembles for Underground Coal Mining	Mr.S.Vinayagam, AP/ECE
	920818106029	SEEMA FATHIMA.S		
7	920818106019	NIVETHA.K. S	Blockchain Based Secure and Energy Efficient Routing Protocol for WSN	Dr.S.M.Vijayarajan, ASP/ECE
	920818106027	SARUMATHI.R		
	920818106039	VISHALINI.B		
8	920818106013	KIRUTHIKA.R	Smart Phone Based on Object Recognition Guidance for Visually Challenged People.	Dr.S.Surendhar, AP/ECE
	920818106035	SWETHA.M		
9	920818106014	MANOJ PRABHAKAR.V	Design Of Tire Pressure Monitoring System with Vehicle-to-Vehicle Communication Using IOT	Dr.S.Ponmalar ASP / ECE
	920818106017	MUTHU VIGNESH.M		
	920818106038	VIGNESH.R		
10	920818106020	PONBHARATHI.V	M2M (Machine to Machine Communication)	Ms.S.Priyadharsini AP/ECE
	920818106022	PUGALARASU.S		
	920818106028	SATHISH KUMAR.G		
11	920818106011	JAYA PRATHAP.S	Machine Learning Model for Fatigue Level Detection	Dr.M.Ameena Banu, Prof / ECE
	920818106012	JEYARAJ.S		
	920818106024	RAJKUMAR.K		
12	920818106016	MUKESH KANNA.G	Water Quality Monitoring and Waste Management Using IOT for Smart City.	Dr.A.Gopisaminathan Prof / ECE
	920818106033	SURYA PRAKASH.V.M		
	920818106302	VIGNESH.S		

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Class: IV ECE **ACADEMIC YEAR: 2021-22**

PROJECT ZEROTH REVIEW MARKS **Date : 14.03.2022**

S.No	Register No	Students Name	PPT (10)	Presentation (10)	Attendance (5)	Total (25)
1	920818106001	ABILASHA.M	10	10	5	25
	920818106010	ILAKKIYA.B	10	10	5	25
	920818106031	SOWMIYA.P	10	10	5	25
2	920818106005	DHARSHINI.V	0	0	0	AB
	920818106007	DURGADEVI.B	10	9	5	24
	920818106037	VENNILA.A	9	9	5	23
3	920818106004	BLESSING.X	9	9	5	23
	920818106032	SREE RAGA SUDHA.K	9	10	5	24
	920818106036	VARSHIINI.B	9	10	5	24
4	920818106002	ABINAYA .S	10	10	5	25
	920818106018	NISHA.M	8	10	5	23
	920818106040	VIVEKA.S	9	10	5	23
5	920818106008	DURGADEVI.S	10	9	5	25
	920818106023	PUSHPA PRIYADHARSHINI.R	9	10	5	24
	920818106026	SARITHA RANI.K	9	9	5	23
6	920818106009	HARIPRIYA.M	9	10	5	24
	920818106029	SEEMA FATHIMA.S	9	10	5	24
7	920818106019	NIVETHA.K.S	9	10	5	24
	920818106027	SARUMATHI.R	9	10	5	24
	920818106039	VISHALINI.B	7	8	5	20
8	920818106013	KIRUTHIKA.R	9	10	5	24
	920818106035	SWETHA.M	9	9	5	23
9	920818106014	MANOJ PRABHAKAR,.V	5	10	5	20
	920818106017	MUTHU VIGNESH.M	9	10	5	24
	920818106038	VIGNESH.R	9	6	5	20
10	920818106020	PONBHARATHI.V	10	5	5	20
	920818106022	PUGALARASU.S	10	5	5	20
	920818106028	SATHISH KUMAR.G	10	9	5	24
11	920818106011	JAYA PRATHAP.S	10	6	5	21
	920818106012	JEYARAJ.S	10	6	5	21
	920818106024	RAJKUMAR.K	10	9	5	24
12	920818106016	MUKESH KANNA.G	10	5	5	20
	920818106033	SURYA PRAKASH.V.M	10	5	5	20
	920818106302	VIGNESH.S	10	5	5	20

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Class: IV ECE **ACADEMIC YEAR: 2021-22**

PROJECT REVIEW 1 MARKS **Date: 01.04.2022**

S.No	Register No	Students Name	PPT (10)	Presentation (10)	Attendance (5)	Total (25)
1	920818106001	ABILASHA.M	10	10	5	25
	920818106010	ILAKKIYA.B	10	9	5	24
	920818106031	SOWMIYA.P	10	10	5	25
2	920818106005	DHARSHINI.V	0	0	0	AB
	920818106007	DURGADEVI.B	10	10	5	25
	920818106037	VENNILA.A	10	10	5	25
3	920818106004	BLESSING.X	10	10	5	25
	920818106032	SREE RAGA SUDHA.K	10	10	5	25
	920818106036	VARSHIINI.B	10	10	5	25
4	920818106002	ABINAYA .S	10	10	5	25
	920818106018	NISHA.M	10	9	5	24
	920818106040	VIVEKA.S	10	8	5	23
5	920818106008	DURGADEVI.S	10	10	5	25
	920818106023	PUSHPA PRIYADHARSHINI.R	10	10	5	25
	920818106026	SARITHA RANI.K	10	10	5	25
6	920818106009	HARIPRIYA.M	10	10	5	25
	920818106029	SEEMA FATHIMA.S	10	10	5	25
7	920818106019	NIVETHA.K.S	10	9	5	24
	920818106027	SARUMATHI.R	10	9	5	24
	920818106039	VISHALINI.B	10	8	5	23
8	920818106013	KIRUTHIKA.R	10	10	5	25
	920818106035	SWETHA.M	9	9	5	23
9	920818106014	MANOJ PRABHAKAR,.V	10	5	5	20
	920818106017	MUTHU VIGNESH.M	10	9	5	24
	920818106038	VIGNESH.R	10	8	5	23
10	920818106020	PONBHARATHI.V	10	8	5	23
	920818106022	PUGALARASU.S	10	8	5	23
	920818106028	SATHISH KUMAR.G	10	9	5	24
11	920818106011	JAYA PRATHAP.S	10	6	5	21
	920818106012	JEYARAJ.S	10	10	5	25
	920818106024	RAJKUMAR.K	10	7	5	22
12	920818106016	MUKESH KANNA.G	8	7	5	20
	920818106033	SURYA PRAKASH.V.M	8	7	5	20
	920818106302	VIGNESH.S	7	8	5	20

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Class: IV ECE **ACADEMIC YEAR: 2021-22**

PROJECT REVIEW 2 MARKS **Date: 29.04.2022**

S.No	Register No	Students Name	PPT (10)	Presentation (10)	Attendance (5)	Total (25)
1	920818106001	ABILASHA.M	10	9	5	24
	920818106010	ILAKKIYA.B	10	10	5	25
	920818106031	SOWMIYA.P	10	10	5	25
2	920818106005	DHARSHINI.V	0	0	0	AB
	920818106007	DURGADEVI.B	10	9	5	24
	920818106037	VENNILA.A	10	9	5	24
3	920818106004	BLESSING.X	10	10	5	25
	920818106032	SREE RAGA SUDHA.K	10	9	5	24
	920818106036	VARSHIINI.B	10	10	5	25
4	920818106002	ABINAYA .S	10	9	5	24
	920818106018	NISHA.M	10	9	5	24
	920818106040	VIVEKA.S	10	8	5	23
5	920818106008	DURGADEVI.S	10	10	5	25
	920818106023	PUSHPA PRIYADHARSHINI.R	10	9	5	24
	920818106026	SARITHA RANI.K	10	9	5	24
6	920818106009	HARIPRIYA.M	10	10	5	25
	920818106029	SEEMA FATHIMA.S	10	10	5	25
7	920818106019	NIVETHA.K.S	10	9	5	24
	920818106027	SARUMATHI.R	10	10	5	25
	920818106039	VISHALINI.B	9	9	5	23
8	920818106013	KIRUTHIKA.R	10	9	5	24
	920818106035	SWETHA.M	10	8	5	23
9	920818106014	MANOJ PRABHAKAR,.V	9	9	5	23
	920818106017	MUTHU VIGNESH.M	10	9	5	24
	920818106038	VIGNESH.R	10	8	5	23
10	920818106020	PONBHARATHI.V	10	8	5	23
	920818106022	PUGALARASU.S	10	7	5	22
	920818106028	SATHISH KUMAR.G	10	10	5	25
11	920818106011	JAYA PRATHAP.S	10	10	5	25
	920818106012	JEYARAJ.S	8	8	5	21
	920818106024	RAJKUMAR.K	8	7	5	20
12	920818106016	MUKESH KANNA.G	9	9	5	23
	920818106033	SURYA PRAKASH.V.M	8	7	5	20
	920818106302	VIGNESH.S	7	9	5	21

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Class: IV ECE **ACADEMIC YEAR: 2021-22**

PROJECT REVIEW 3 MARKS **Date: 30.05.2022**

S.No	Register No	Students Name	PPT (10)	Presentation (10)	Attendance (5)	Total (25)
1	920818106001	ABILASHA.M	10	10	5	25
	920818106010	ILAKKIYA.B	10	10	5	25
	920818106031	SOWMIYA.P	10	9	5	24
2	920818106005	DHARSHINI.V	0	0	0	AB
	920818106007	DURGADEVI.B	10	10	5	25
	920818106037	VENNILA.A	10	10	5	25
3	920818106004	BLESSING.X	10	10	5	25
	920818106032	SREE RAGA SUDHA.K	10	10	5	25
	920818106036	VARSHIINI.B	10	10	5	25
4	920818106002	ABINAYA .S	10	10	5	25
	920818106018	NISHA.M	10	9	5	24
	920818106040	VIVEKA.S	10	6	5	21
5	920818106008	DURGADEVI.S	10	8	5	23
	920818106023	PUSHPA PRIYADHARSHINI.R	10	10	5	25
	920818106026	SARITHA RANI.K	10	10	5	25
6	920818106009	HARIPRIYA.M	10	9	5	24
	920818106029	SEEMA FATHIMA.S	10	10	5	25
7	920818106019	NIVETHA.K.S	10	9	5	24
	920818106027	SARUMATHI.R	10	9	5	24
	920818106039	VISHALINI.B	9	10	5	24
8	920818106013	KIRUTHIKA.R	10	9	5	24
	920818106035	SWETHA.M	10	10	5	25
9	920818106014	MANOJ PRABHAKAR,.V	9	8	5	22
	920818106017	MUTHU VIGNESH.M	10	9	5	24
	920818106038	VIGNESH.R	10	7	5	22
10	920818106020	PONBHARATHI.V	10	7	5	22
	920818106022	PUGALARASU.S	10	6	5	21
	920818106028	SATHISH KUMAR.G	10	9	5	24
11	920818106011	JAYA PRATHAP.S	8	8	5	21
	920818106012	JEYARAJ.S	8	8	5	21
	920818106024	RAJKUMAR.K	8	8	5	21
12	920818106016	MUKESH KANNA.G	9	8	5	22
	920818106033	SURYA PRAKASH.V.M	10	5	5	20
	920818106302	VIGNESH.S	10	9	5	24

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Class: IV ECE **ACADEMIC YEAR: 2021-22**

PROJECT REVIEW CONSOLIDATED MARKS

S.No	Register No	Students Name	Zeroth Review(25)	Review 1 (25)	Review 2 (25)	Review 3 (25)	Total Marks(100)
1	920818106001	ABILASHA.M	25	25	24	25	99
	920818106010	ILAKKIYA.B	25	24	25	25	99
	920818106031	SOWMIYA.P	25	25	25	24	99
2	920818106005	DHARSHINI.V	AB	AB	AB	AB	AB
	920818106007	DURGADEVI.B	24	25	24	25	98
	920818106037	VENNILA.A	23	25	24	25	97
3	920818106004	BLESSING.X	23	25	25	25	98
	920818106032	SREE RAGA SUDHA.K	24	25	24	25	98
	920818106036	VARSHIINI.B	24	25	25	25	99
4	920818106002	ABINAYA .S	25	25	24	25	99
	920818106018	NISHA.M	23	24	24	24	95
	920818106040	VIVEKA.S	23	23	23	21	90
5	920818106008	DURGADEVI.S	25	25	25	23	98
	920818106023	PUSHPA PRIYADHARSHINI.R	24	25	24	25	98
	920818106026	SARITHA RANI.K	23	25	24	25	97
6	920818106009	HARIPRIYA.M	24	25	25	24	98
	920818106029	SEEMA FATHIMA.S	24	25	25	25	99
7	920818106019	NIVETHA.K.S	24	24	24	24	96
	920818106027	SARUMATHI.R	24	24	25	24	97
	920818106039	VISHALINI.B	20	23	23	24	90
8	920818106013	KIRUTHIKA.R	24	25	24	24	97
	920818106035	SWETHA.M	23	23	23	25	94
9	920818106014	MANOJ PRABHAKAR,.V	20	20	23	22	85
	920818106017	MUTHU VIGNESH.M	24	24	24	24	96
	920818106038	VIGNESH.R	20	23	23	22	88
10	920818106020	PONBHARATHI.V	20	23	23	22	88
	920818106022	PUGALARASU.S	20	23	22	21	86
	920818106028	SATHISH KUMAR.G	24	24	25	24	97
11	920818106011	JAYA PRATHAP.S	21	21	25	21	88
	920818106012	JEYARAJ.S	21	25	21	21	88
	920818106024	RAJKUMAR.K	24	22	20	21	87
12	920818106016	MUKESH KANNA.G	20	20	23	22	85
	920818106033	SURYA PRAKASH.V.M	20	20	20	20	80
	920818106302	VIGNESH.S	20	20	21	24	85

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