



# 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](http://www.nprcolleges.org), [www.nprcet.org](http://www.nprcet.org), Email [nprcetprincipal@nprcolleges.org](mailto:nprcetprincipal@nprcolleges.org)



## CRITERION 6 - GOVERNANCE, LEADERSHIP AND MANAGEMENT

### Key Indicator 6.5 Internal Quality Assurance System

**Metric No 6.5.2** The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Sl. No	Contents	Page Number
1	Administrative and Academic Audit - Institute	—
2	Administrative and Academic Audit - Departments	—
3	Course File Audit	—

  
PRINCIPAL

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

 <p><b>NPR</b> Nagar, Natham, Dindigul Research the Stars</p>	<p align="center"><b>NPR College of Engineering &amp; Technology</b>          NPR Nagar, Natham, Dindigul - 624401, Tamil Nadu, India.          Approved by AICTE, New Delhi &amp; 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</p>	
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Date: 18.08.2021

**CIRCULAR**

This is to inform that our institution is going to conduct an **Academic and Administrative Audit** for our **Institution** on **20.08.2021**. All the HODs and Staff members are asked to extend their co-operations to complete the auditing successfully.

**Academic Audit Experts**

Sl. No	Name and Designation of the External Auditor	Name and Designation of the Internal Auditor
1	<p align="center"><b>Mr.R.Anand,</b> Principal, NPR Polytechnic College, Natham, Dindigul - 624401.</p>	<p align="center"><b>Mr.G.Elangovan,</b> HoD/EEE NPR College of Engineering &amp; Technology Natham - 624401</p>

/FORWARDED TO ADMIN OFFICE/

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

**Copy to:**

1. The Administrative Office
2. All HODs - Circulate to all faculties and classes
3. File
4. IQAC

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NPRCET/OFF/L.No:01/2020-21

Date: 16.08.2021

To

Mr.R.Anand,  
Principal,  
NPR Polytechnic College,  
Natham, Dindigul - 624401.

Dear Sir,

Sub: Request to act as an **External Auditor - NAAC Accreditation Process** - reg.

It is mandatory to conduct the **Academic and Administrative Audit**, as a part of evaluation in **NAAC Accreditation process**, in our Institution for the (odd/even) **Academic year 2020-21** on **20.08.2021**.

In view, I request you to act as an **External Auditor** and furnish a report for the mentioned purpose in the prescribed format.

Expecting the acceptance and confirmation from your end

Thank you.

With regards

  
Dr.J.Sundararajan  
Principal

*OC*

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**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

Academic and Administrative Audit - Institute

Academic Year 2020-2021

Date: 20.8.2021

College Name : NPR college of Engineering & technology  
Principal Name : Dr. J. Sundararajan  
A. Academic calendar

Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level Academic Calendar Preparedness In line to University	Adhered to university	-

**B. Student Admission**

Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
2	Percentage of Student Admission	41.7%	



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## C. Faculty Profile and Faculty Development

Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
3	Total Number of Faculties on Roll	teaching faculties are available	—
4	Number of Faculties with PhD and pursuing PhD	faculties with phd and Pursuing Ph.D.	—
5	Initiatives for funded /Sponsored projects and consultancy works	It was initiated	Encourage them to get more Projects
6	Number of Papers published in UGC, SCOPUS, WEB of Science	Totally 14 Paper Published	
7	Number of Conference Papers published with ISBN number	Paper were Published	
8	Number of patents published	16	Need to improve
9	Number of Faculty Awards	07	4



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## D. Infrastructure and Resources

Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
10	Number of Class rooms with ICT Facility	32	—
11	Laboratory facility	Available with all equipment & Computer labs are furnished with air conditioning facilities	—
13	Library facilities	Equipped with text books, reference books, Journals, eBooks and e-Journals. Computers are employed with Internet facility	—
13	Number of new Books and Titles in Central library	1568 new books available	—
14	Digital Library Utilisation of E-journals, eBooks, etc	Digital utilizations like e-books and e-Journals are added in the digital platform	—
15	Stock Verification (Departments and Central Library	verified	—
16	Website Update	It is done frequently	—
17	Internet and Wi-fi facility	Adequate computing facilities exist with LAN & wifi connections with 100Mbps speed	—



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18	Hostel Facility		Separate Hostel for Girls and Boys with separate waiting halls	-
19	Language Lab with required facility		Computers are functional with internet facility	-
20	Workshop facility		Available for Students usage	-
21	Transport Facility		Buses available in good condition	-
22	Sports/Gym/Yoga Center etc		All the facilities are available	-
23	RO and Power Supply details		Water Coolers and Power backups are available in all the blocks	-
24	Safety and Security System		Fire extinguishers and first aid boxes are in all blocks. CCTV are used for surveillance. Guards	-
25	Green initiatives, Campus Maintenance and Cleanliness		STP, Biogas, Solar street light, Rain water harvesting system and monitor in Plastic Free Campus	-
26	Seminar/ Conference Hall		Totally 7 Seminar halls are available	-
27	Medical care usage		Tie up with local primary health centre, Ulupakudi, Dattam	-

## E. Governance and Administration



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Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
28	Frequency of Meetings of all Committees and record keeping	Academic Audit Committee, Discipline Committee, Anti ragging Committee and various other committees exist for monitoring and support	—
29	Faculty and Staff Empowerment Policy	EPF, Group Insurance, Advance Emergency loan, fees concession for families children are granted	—
30	Budget Allocation	The sum of Rs. 15711362-eous Sanctioned	—
31	Budget Utilization	The sum of Rs. 182266600 was utilized	—

## F. Quality Initiatives

Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
32	Quality certification from National / International forum (NIRF, AISHE, NBA, NAAC, ISO, etc.)	Participated In AISHE and regularly uploaded, Having ISO9001	—
33	Participation in National/ International events (Project Contest)	Regularly attended	—
34	Social Activities, Programs organized by NSS/YRC	08 Program	—

## G. Student Support System and Progression

Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures



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Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
28	Frequency of Meetings of all Committees and record keeping	Academic Audit Committee, Discipline Committee, Anti ragging Committee and various other committees extend mentoring and support	—
29	Faculty and Staff Empowerment Policy	EPF, Group Insurance, Advance Emergency loan, fees concession for faculties children are granted	—
30	Budget Allocation	The sum of Rs. 1571362000s Sanctioned	—
31	Budget Utilization	The sum of Rs. 18266600 was utilized	—

## F. Quality Initiatives

Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
32	Quality certification from National / International forum (NIRF, AISHE, NBA, NAAC, ISO, etc.)	Participated in AISHE and regularly uploaded, Having ISO9001	—
33	Participation in National/ International events (Project Contest)	Regularly attended	—
34	Social Activities, Programs organized by NSS/YRC	08 Program	—

## G. Student Support System and Progression

Sl. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures



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43	IPR workshop, Initiatives HR Connect, Industry Innovation	Programmes were conducted regularly	-
44	MOUs and activeness	Made all MOU's - 32	-

**Name and Designation of Academic Audit Experts:**

  
 INTERNAL AUDITOR  
 (Mr. G. Elangovan)  
 HOD - EEE



  
 EXTERNAL AUDITOR

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



  
 PRINCIPAL  
**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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Date: 09.08.2021

**CIRCULAR**

This is to inform that our institution is going to conduct an **Academic and Administrative Audit 2020-21** from **12.08.2021** to **14.08.2021**. All the HODs and Staff members are asked to extend their co-operations to complete the auditing successfully.

**Academic Audit Experts**

Sl.No	Name of the Department	Date of Audit	Name and Designation of the External Auditor	Name and Designation of the Internal Auditor
1	CIVIL	12.08.2021 FN	Dr.T.Malaichamy, HoD/MECH	Dr.S.Hemalatha, HoD/CIVIL
2	CSE	12.08.2021 AN	Dr.A.Gopisaminathan, HoD/ECE	Mr.J.Viswanath, HoD/CSE
3	EEE	13.08.2021 FN	Mr.J.Viswanath, HoD/CSE	Mr.G.Elangovan, HoD/EEE
4	ECE	13.08.2021 AN	Mr.G.Elangovan, HoD/EEE	Dr.A.Gopisaminathan, HoD/ECE
5	MECH	14.08.2021 FN	Dr.S.Hemalatha, HoD/CIVIL	Dr.T.Malaichamy, HoD/MECH
6	S&H	14.08.2021 AN	Dr.B.Velmurugan, HoD/MBA	Dr.T.Priya, HoD/S&H
7	MBA	14.08.2021 AN	Dr.T.Priya, HoD/S&H	Dr.B.Velmurugan, HoD/MBA



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  3. File
- A. IQAC

PRINCIPAL  
**Dr. J.SUNDARARAJAN,**  
B.E., M.Tech., Ph.D.,  
Principal  
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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit - Department

Department: CIVIL

Academic Year: 2020-21

Date: 12.08.21

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level / Department Level Academic Calendar Preparedness In line to University	Yes, AS per university norms	-
2	Adherence of Academic Calendar	NOT Adhered (due to covid)	-
3	Faculty Teaching Work load distribution	Yes, evenly allocated	-
4	Preparation of Lesson Plan	AS per Academic Schedule	-
5	Course File Readiness	prepared	-





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6	Lab Manual with Master readings and Additional experiments	Yes, It is available	-
7	Content beyond syllabus coverage to fulfil the Curricular gap	Beyond the syllabus, Through case study	-
8	Number & Quality of Value Added Courses /Add-on courses/ Certification Courses	All the courses were conducted	-
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	Conducted	-
10	Students Final Year Project Planning, Progress and quality (In-house/ Industry based)	Conducted	-
11	Number & Quality of Students Internship/ In-plant Training	11 Students under gone IPT/ Intuship	-
12	Number of student Conference/Journal Publications	Attended	-
13	Number of Student participation in seminar/workshop/symposium	15	-
14	Number of Student Awards / Prizes	03	-



IQAC

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### B. Student Admission and Mentoring

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
15	Percentage of Student Admission	30%	-
16	Quality of Mentoring	Successfully Implemented	-
17	Remedial Classes for weak students	Yes, classes are given to students	-
18	Effectiveness of Remedial Classes	Yes	-

### C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
19	Total Number of Faculties on Roll	12	-

IQAC



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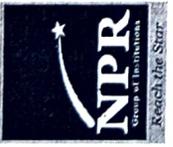
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20	Number of Faculties with PhD and pursuing Ph.D.	01	
21	Course contents delivered through PPT and available in LMS/GRC	Yes, Delivered through PPT	
22	Innovations in TL Process	NPTEL & Technical videos	
23	Initiatives for funded/Sponsored projects and consultancy works	Nil	
24	Number of Papers published in UGC, SCOPUS, WEB of Science and others.	Yes, Published	
25	Number of Conference Papers published	Yes, TOTally 3 Paper published	
26	Number of patents published	Nil	Need to be Improve
27	Number of Faculty Awards	02	
28	Number of outside Interactions ( Guest Lectures, Jury, Reviewer)	Yes, The interaction Programes were conducted	
29	FDP/STTP/ workshop /Seminar Participation	TOTally 16 Programes were participated	
30	Number of Faculties with Professional Membership	one faculty is having an membership	





**NPR**  
Group of Institutions  
*Reach the Star*

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#### D. Infrastructure and Resources

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
31	Number of Class rooms	04	-
32	Number of Class rooms with ICT Facility	01	-
33	Number and Quality of Laboratory facility	08, fully equipped library	-
34	Number of Books and Titles in department Library.	212	-
35	Quality of Computing Facilities and no of Computers	36 systems available	-

#### E. Meeting Details

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
36	Class Committee meeting	The class committee meeting was conducted regularly	
37	Stakeholder's Meeting (Parent-Teacher, Employer, Alumni, etc.,)	conducted	Need to improve the interaction

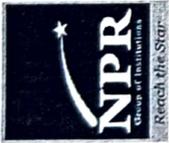


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## F. Industry Academic Interaction and Professional Activities

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
38	Industrial Visit	No, IV was conducted; due to pandemic	At least try to do a local visit
39	Industry Person as Guest Lecture	Programs were conducted	-
40	MOUs and activeness	01, mou was signed	Need to improve
41	Technical Events under Professional Societies	Nil	-
42	Club activities	Yes	-

## G. Continuous Evaluation

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
43	Quality of Internal Question Papers	Prepared as per the University Norms	
44	Quality of Assignments	Good, with real time examples	



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45	Continuous evaluation of Lab Records and students performance in Lab		-
46	Continuous review of Final year Projects	As per university norms monitored regularly	-
47	University Result Analysis and action for Improvement	As per the academic plan reviews are monitored Action has been taken on results on a leaves	-
48	Analysis of Stake holders feedback, action plan and action taken report	Analysed, as per the report	-

### Name and Designation of Academic Audit Experts:

*Aruna*  
INTERNAL AUDITOR  
[Dr. A. Hemalatha]  
HOD (CIVIL)  
IQAC COORDINATOR

*T. Sundarajan*  
EXTERNAL AUDITOR  
[Dr. T. Malaichamy]



Coordinator - IQAC  
NPR College of Engineering & Technology  
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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit - Department

Department: CSE

Academic Year: 2020-2021

Date: 12.08.2021

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level / Department Level Academic Calendar Preparedness In line to University	Yes, AS per university Norms	-
2	Adherence of Academic Calendar	Not Adhered (Due to Covid-19)	-
3	Faculty Teaching Work load distribution	Yes Evenly allocated	-
4	Preparation of Lesson Plan	AS per the academic schedule executed well	-
5	Course File Readiness	Prepared well	-

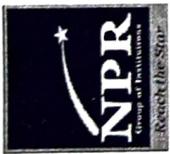


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6	Lab Manual with Master readings and Additional experiments	Yes, It is available	-
7	Content beyond syllabus coverage to fulfil the Curricular gap	Beyond the syllabus through case study workshop if interest.	-
8	Number & Quality of Value Added Courses /Add-on courses/ Certification Courses	Yes, conducted	-
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	Seminar, FPP, Workshop conducted	-
10	Students Final Year Project Planning, Progress and quality (In-house/ Industry based)	Yes	-
11	Number & Quality of Students Internship/ In-plant Training	16 Students Attended	-
12	Number of student Conference/Journal Publications	-	-
13	Number of Student participation in seminar/workshop/symposium	20	-
14	Number of Student Awards / Prizes	NIL	-





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## B. Student Admission and Mentoring

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
15	Percentage of Student Admission	83 %.	
16	Quality of Mentoring	Successfully Implemented	-
17	Remedial Classes for weak students	yes	-
18	Effectiveness of Remedial Classes	Yes	-

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
19	Total Number of Faculties on Roll	12	-





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20	Number of Faculties with PhD and pursuing Ph.D.	-	Motivate faculty members to register Ph.D.
21	Course contents delivered through PPT and available in LMS/GRC	Yes, it is available	
22	Innovations in TL Process	NIPTEL & Technical Videos	
23	Initiatives for funded/Sponsored projects and consultancy works	-	
24	Number of Papers published in UGC, SCOPUS, WEB of Science and others.	-	
25	Number of Conference Papers published	-	
26	Number of patents published	-	
27	Number of Faculty Awards	-	Encourage them.
28	Number of outside Interactions ( Guest Lectures, Jury, Reviewer)	-	
29	FDP/STTP/ workshop /Seminar Participation	18	
30	Number of Faculties with Professional Membership	1	





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## D. Infrastructure and Resources

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
31	Number of Class rooms	5	-
32	Number of Class rooms with ICT Facility	1	-
33	Number and Quality of Laboratory facility	3	-
34	Number of Books and Titles in department Library.	297	-
35	Quality of Computing Facilities and no of Computers	182	-

## E. Meeting Details

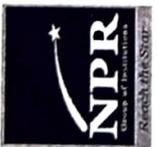
S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
36	Class Committee meeting	Regularly class committee meeting conducted	-
37	Stakeholder's Meeting (Parent-Teacher, Employer, Alumni, etc.,)	yes	-

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**F. Industry Academic Interaction and Professional Activities**

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
38	Industrial Visit	No, Due to Pandemic	-
39	Industry Person as Guest Lecture	-	-
40	MOUs and activeness	Yes	-
41	Technical Events under Professional Societies	-	-
42	Club activities	-	-

**G. Continuous Evaluation**

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
43	Quality of Internal Question Papers	Internal Question Papers prepared well as per the	
44	Quality of Assignments	Real time example norms study was given	





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45	Continuous evaluation of Lab Records and students performance in Lab	AS Per university norms monitored regularly
46	Continuous review of Final year Projects	AS per the academic plan prepared and provided
47	University Result Analysis and action for Improvement	Result analysis prepared
48	Analysis of Stake holders feedback, action plan and action taken report	Analysis done as per the report

### Name and Designation of Academic Audit Experts:

*J.K. Aruna Senthil Kumar*  
INTERNAL AUDITOR  
J. VISWANATH  
HOD - CSE

*J. Sundarajan*  
IQAC COORDINATOR  
(Mr. J. Aruna Senthil Kumar)  
Coordinator - IQAC  
NPR College of Engineering & Technology  
Natham, Dindigul (Dt)-624 401

*Dr. A. Srinivasan*  
EXTERNAL AUDITOR  
(Dr. A. Srinivasan, natham)



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



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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit - Department

Department: *ECE*

Academic Year: *2020 - 2021*

Date: *13-08-2021*

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level / Department Level Academic Calendar Preparedness In line to University	<i>Yes, As per University Norms</i>	
2	Adherence of Academic Calendar	<i>Due to Covid Situation, not adhered</i>	
3	Faculty Teaching Work load distribution	<i>Evenly allocated and distributed</i>	
4	Preparation of Lesson Plan	<i>Properly planned and executed</i>	
5	Course File Readiness	<i>Course files available</i>	





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6	Lab Manual with Master readings and Additional experiments	Available with Additional experiments	
7	Content beyond syllabus coverage to fulfil the Curricular gap	Topics beyond the syllabus covered	
8	Number & Quality of Value Added Courses /Add-on courses/ Certification Courses	Yes, 2 value added courses conducted	
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	Seminar and FDP organized	
10	Students Final Year Project Planning, Progress and quality (In-house/ Industry based)	In-house projects done	
11	Number & Quality of Students Internship/ In-plant Training	Internship-20 In-Plant Training- <del>17</del>	
12	Number of student Conference/Journal Publications	—	Advised to motivate the students to participate through online mode
13	Number of Student participation in seminar/workshop/symposium	35	
14	Number of Student Awards / Prizes	NIL	Advised to inform the students to improve the quality of participation



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### B. Student Admission and Mentoring

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
15	Percentage of Student Admission	40 %.	Asked to take steps to improve the admission
16	Quality of Mentoring	Implemented properly	
17	Remedial Classes for weak students	Yes, Conducted	
18	Effectiveness of Remedial Classes	Performance of the weak students got improved	

### C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
19	Total Number of Faculties on Roll	23	





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20	Number of Faculties with PhD and pursuing Ph.D.	Ph.D - 3 Pursuing Ph.D - 2	
21	Course contents delivered through PPT and available in LMS/GRC	Available	
22	Innovations in TL Process	Modern teaching tools used, students undergone NPTEL courses	
23	Initiatives for funded/Sponsored projects and consultancy works	Applied	
24	Number of Papers published in UGC, SCOPUS, WEB of Science and others.	13	
25	Number of Conference Papers published	02	
26	Number of patents published	01	
27	Number of Faculty Awards	01	
28	Number of outside Interactions ( Guest Lectures, Jury, Reviewer)	NIL	Motivated the faculties to take part
29	FDP/STTP/ workshop /Seminar Participation	118	
30	Number of Faculties with Professional Membership	04	



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## D. Infrastructure and Resources

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
31	Number of Class rooms	06	
32	Number of Class rooms with ICT Facility	02	
33	Number and Quality of Laboratory facility	Well equipped 6 Laboratories	
34	Number of Books and Titles in department Library.	363	
35	Quality of Computing Facilities and no of Computers	73 Computers with necessary software and hardware	

## E. Meeting Details

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
36	Class Committee meeting	Periodically Conducted	
37	Stakeholder's Meeting (Parent-Teacher, Employer, Alumni, etc.,)	Conducted	



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## F. Industry Academic Interaction and Professional Activities

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
38	Industrial Visit	NIL	
39	Industry Person as Guest Lecture	02	
40	MOUs and activeness	03	
41	Technical Events under Professional Societies	NIL	Advised to organize
42	Club activities	NIL	Advised to organize

## G. Continuous Evaluation

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
43	Quality of Internal Question Papers	Prepared well	
44	Quality of Assignments	Real time examples given	

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45	Continuous evaluation of Lab Records and students performance in Lab	Properly implemented	
46	Continuous review of Final year Projects	Properly reviewed	
47	University Result Analysis and action for Improvement	Reviewed and action taken	
48	Analysis of Stake holders feedback, action plan and action taken report	Analysis done	

Name and Designation of Academic Audit Experts:

*Dr. A. COPISAMINATHAN*  
INTERNAL AUDITOR  
(Dr. A. COPISAMINATHAN)  
HOD-ECE

*Prof. C. ELANGELOVAN*  
EXTERNAL AUDITOR  
(Prof. C. ELANGELOVAN)  
HOD-EEE

*Mr. K. Aruna Senthil Kumar*  
IQAC COORDINATOR  
Coordinator - IQAC  
NPR College of Engineering & Technology  
Natham, Dindigul (Dt)-624 401



*J. Sundararajan*  
PRINCIPAL  
Dr. J.SUNDOARARAJAN,  
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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit - Department

Department: EEE

Academic Year: 2020-21

Date: 14/08/21

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level / Department Level Academic Calendar Preparedness In line to University	Yes, As per University Norms	-
2	Adherence of Academic Calendar	Not Adhered due to Con'g-19	-
3	Faculty Teaching Work load distribution	Yes evenly allocated	-
4	Preparation of Lesson Plan	As per the Academic schedule	-
5	Course File Readiness	Prepared well	-





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**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

**Academic and Administrative Audit - Department**

**Department: EEE**

**Academic Year: 2020-21**

**Date: 14/08/21**

**A. Curriculum Planning, Implementation, Gap Identification and Enrichment**

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level / Department Level Academic Calendar Preparedness In line to University	Yes, As per University Norms	-
2	Adherence of Academic Calendar	Not Adhered due to Cov19-19	-
3	Faculty Teaching Work load distribution	Yes evenly allocated	-
4	Preparation of Lesson Plan	As per the Academic schedule	-
5	Course File Readiness	Prepared well	-



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6	Lab Manual with Master readings and Additional experiments	Yes, it is available	✓
7	Content beyond syllabus coverage to fulfil the Curricular gap	Beyond the syllabus throughs case studies.	✓
8	Number & Quality of Value Added Courses /Add-on courses/ Certification Courses	Yes conducted	✓
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	Yes conducted	✓
10	Students Final Year Project Planning, Progress and quality (In-house/ Industry based)	Yes in-house based.	✓
11	Number & Quality of Students Internship/ In-plant Training	Yes	✓
12	Number of student Conference/Journal Publications	-	✓
13	Number of Student participation in seminar/workshop/symposium	-	✓
14	Number of Student Awards / Prizes	01	✓



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## B. Student Admission and Mentoring

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
15	Percentage of Student Admission	33.1	-
16	Quality of Mentoring	Successfully implemented	-
17	Remedial Classes for weak students	Yes	-
18	Effectiveness of Remedial Classes	Yes	-

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
19	Total Number of Faculties on Roll	13	-





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20	Number of Faculties with PhD and pursuing Ph.D.		02	02	-
21	Course contents delivered through PPT and available in LMS/GRC		Yes, it is available.		-
22	Innovations in TL Process		NPTEL, Technical Videos		-
23	Initiatives for funded/Sponsored projects and consultancy works		-		-
24	Number of Papers published in UGC, SCOPUS, WEB of Science and others.		01		Advice to increase the count of publications
25	Number of Conference Papers published		-		Advice to participate in International Conferences
26	Number of patents published		01		-
27	Number of Faculty Awards		01		-
28	Number of outside Interactions ( Guest Lectures, Jury, Reviewer)		Yes Conducted		-
29	FDP/STTP/ workshop /Seminar Participation			10	-
30	Number of Faculties with Professional Membership			03	-





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## D. Infrastructure and Resources

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
31	Number of Class rooms	03	-
32	Number of Class rooms with ICT Facility	01	-
33	Number and Quality of Laboratory facility	09	-
34	Number of Books and Titles in department Library.	270	-
35	Quality of Computing Facilities and no of Computers	36	-

## E. Meeting Details

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
36	Class Committee meeting	Regularly Conducted	-
37	Stakeholder's Meeting (Parent-Teacher, Employer, Alumni, etc.,)	Yes Conducted	-



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## F. Industry Academic Interaction and Professional Activities

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
38	Industrial Visit	no, due to Covid-19	-
39	Industry Person as Guest Lecture	02	-
40	MOUs and activeness	yes	-
41	Technical Events under Professional Societies	-	-
42	Club activities	-	-

## G. Continuous Evaluation

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
43	Quality of Internal Question Papers	Prepared as per University norms.	-
44	Quality of Assignments	Read five examples.	-

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45	Continuous evaluation of Lab Records and students performance in Lab	monitored as per University norms.	-
46	Continuous review of Final year Projects	As per Academic Department	-
47	University Result Analysis and action for Improvement	Result analysis Department	-
48	Analysis of Stake holders feedback, action plan and action taken report	Analysis prepared as per the report.	-

### Name and Designation of Academic Audit Experts:

  
INTERNAL AUDITOR  
(Prof. C. Georgeivan)  
HOD - B.E.D

  
IQAC COORDINATOR  
Mr. K. Anand Senthil Kumar  
Coordinator - IQAC  
NPR College of Engineering & Technology  
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EXTERNAL AUDITOR  
J. VISWANATH  
HOD - CSE

  
PRINCIPAL  
Dr. J. SUNDARARAJAN,  
B.E. M.Tech., Ph.D.,  
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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit - Department

Department: Mechanical Engineering

Academic Year: 2020 - 2021

Date: 14/08/21

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level / Department Level Academic Calendar Preparedness In line to University	Yes, As per University norms	
2	Adherence of Academic Calendar	Not Adhered. [Due to Covid]	
3	Faculty Teaching Work load distribution	Yes, Evenly Allocated	
4	Preparation of Lesson Plan	AS per the Academic Schedule executed well.	
5	Course File Readiness	Prepared well	



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6	Lab Manual with Master readings and Additional experiments	Yes, it is available	
7	Content beyond syllabus coverage to fulfil the Curricular gap	Beyond the Syllabus Covered by PPT, NPTEL it is Covered	
8	Number & Quality of Value Added Courses /Add-on courses/ Certification Courses	04	
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	1 workshop, 1 FDP => 2	
10	Students Final Year Project Planning, Progress and quality (In-house/ Industry based)	Yes, Conducted	
11	Number & Quality of Students Internship/ In-plant Training	39	
12	Number of student Conference/Journal Publications	- Nil -	Motivated the student to do on upcoming semester
13	Number of Student participation in seminar/workshop/symposium	15	
14	Number of Student Awards / Prizes	-	



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**B. Student Admission and Mentoring**

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
15	Percentage of Student Admission	20%	
16	Quality of Mentoring	Successfully Implemented	
17	Remedial Classes for weak students	Conducted	
18	Effectiveness of Remedial Classes	Good	

**C. Faculty Profile and Faculty Development**

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
19	Total Number of Faculties on Roll	15	



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20	Number of Faculties with PhD and pursuing Ph.D.	02	
21	Course contents delivered through PPT and available in LMS/GRC	Yes, it is available	
22	Innovations in TL Process	NPTJEL	
23	Initiatives for funded/Sponsored projects and consultancy works	-	
24	Number of Papers published in UGC, SCOPUS, WEB of Science and others.	01	
25	Number of Conference Papers published	-	
26	Number of patents published	-	
27	Number of Faculty Awards	-	
28	Number of outside Interactions ( Guest Lectures, Jury, Reviewer)	-	
29	FDP/STTP/ workshop /Seminar Participation	04	
30	Number of Faculties with Professional Membership	04	

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## D. Infrastructure and Resources

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
31	Number of Class rooms	04	
32	Number of Class rooms with ICT Facility	02	
33	Number and Quality of Laboratory facility	07	
34	Number of Books and Titles in department Library.	362	
35	Quality of Computing Facilities and no of Computers	46	

## E. Meeting Details

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
36	Class Committee meeting	Regularly Conducted	
37	Stakeholder's Meeting (Parent-Teacher, Employer, Alumni,etc.,)	Conducted	

IQAC

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AAA





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### F. Industry Academic Interaction and Professional Activities

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
38	Industrial Visit	No - Due to Pandemic	
39	Industry Person as Guest Lecture	—	Planned on next Semester
40	MOUs and activeness	Yes	
41	Technical Events under Professional Societies	—	
42	Club activities	—	

### G. Continuous Evaluation

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
43	Quality of Internal Question Papers	Internal Test question paper Prepared well as per norms	
44	Quality of Assignments	Real time examples was given	



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45	Continuous evaluation of Lab Records and students performance in Lab	AS Per university Norms Monitored regularly,
46	Continuous review of Final year Projects	AS Per academic Plan Prepared & executed
47	University Result Analysis and action for Improvement	Result Analysis Prepared
48	Analysis of Stake holders feedback, action plan and action taken report	Analysis done as per the report

Name and Designation of Academic Audit Experts:

*[Signature]*  
INTERNAL AUDITOR  
(Dr. T. Malacherry)

*[Signature]*  
IQAC COORDINATOR

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

*[Signature]*  
EXTERNAL AUDITOR  
(Dr. A. Hemalatha)



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

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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit - Department

Department: *MBA*

Academic Year: *2020 -21*

Date: *14/08/2021*

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level / Department Level Academic Calendar Preparedness In line to University	<i>Yes, As per university norms</i>	-
2	Adherence of Academic Calendar	<i>Not adhered, due to Covid-19</i>	-
3	Faculty Teaching Work load distribution	<i>Yes, Evenly allotted</i>	-
4	Preparation of Lesson Plan	<i>As per academic schedule executed well</i>	-
5	Course File Readiness	<i>Prepared well</i>	-





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6	Lab Manual with Master readings and Additional experiments	Yes it's available	-
7	Content beyond syllabus coverage to fulfil the Curricular gap	Beyond the syllabus, through case study, workshop it's covered	-
8	Number & Quality of Value Added Courses /Add-on courses/ Certification Courses	Yes ongoing	-
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	FDP, seminar, Guest lecture conducted	-
10	Students Final Year Project Planning, Progress and quality (In-house/ Industry based)	As per university curriculum Final year done their project (21)	-
11	Number & Quality of Students Internship/ In-plant Training	Internship done as per Av curriculum	-
12	Number of student Conference/Journal Publications	04 (National level)	-
13	Number of Student participation in seminar/workshop/symposium	207 webinars	-
14	Number of Student Awards / Prizes	Nil	Motivate them to participate





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## B. Student Admission and Mentoring

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
15	Percentage of Student Admission	56.7 %	-
16	Quality of Mentoring	Yes, implemented	-
17	Remedial Classes for weak students	NA	-
18	Effectiveness of Remedial Classes	NA	-

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
19	Total Number of Faculties on Roll	06	-



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20	Number of Faculties with PhD and pursuing Ph.D.	2 + 1	-
21	Course contents delivered through PPT and available in LMS/GRC	Yes. available in course file	-
22	Innovations in TL Process	NPTEL & Share market Video	-
23	Initiatives for funded/Sponsored projects and consultancy works	UBA - Project 1 LAK	-
24	Number of Papers published in UGC, SCOPUS, WEB of Science and others.	02	Advised to increase.
25	Number of Conference Papers published	02	-do-
26	Number of patents published	Nil	-do-
27	Number of Faculty Awards	nil	-do-
28	Number of outside Interactions ( Guest Lectures, Jury, Reviewer)	Yes, Reviewer	-
29	FDP/STTP/ workshop /Seminar Participation	05	-
30	Number of Faculties with Professional Membership	Nil	Trying to initiate.



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# NPR College of Engineering & Technology

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## D. Infrastructure and Resources

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
31	Number of Class rooms	03	-
32	Number of Class rooms with ICT Facility	02	-
33	Number and Quality of Laboratory facility	01	-
34	Number of Books and Titles in department Library.	365	-
35	Quality of Computing Facilities and no of Computers	62	-

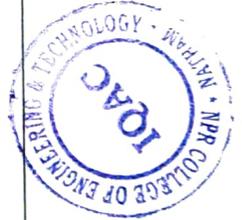
## E. Meeting Details

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
36	Class Committee meeting	Yes, Conducted	
37	Stakeholder's Meeting (Parent-Teacher, Employer, Alumni, etc.,)	Yes, Conducted	

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**F. Industry Academic Interaction and Professional Activities**

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
38	Industrial Visit	Yes	-
39	Industry Person as Guest Lecture	02	-
40	MOUs and activeness	Yes	-
41	Technical Events under Professional Societies	Nil	To be initiated
42	Club activities	Business Club	-

**G. Continuous Evaluation**

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
43	Quality of Internal Question Papers	Yes. Regularly followed	-
44	Quality of Assignments	Case Study	-





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45	Continuous evaluation of Lab Records and students performance in Lab	Yes, Even semester done	-
46	Continuous review of Final year Projects	Yes. As per the university	-
47	University Result Analysis and action for Improvement	Yes, Prepared	-
48	Analysis of Stake holders feedback, action plan and action taken report	Yes, done as per report	-

### Name and Designation of Academic Audit Experts:

*[Signature]*  
INTERNAL AUDITOR  
(Dr. B. Velumayogam)  
HOD - MBA

*[Signature]*

IQAC COORDINATOR

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

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*[Signature]*  
EXTERNAL AUDITOR  
(Dr. T. Parvathy, HOD-S+H)

PRINCIPAL

*[Signature]*  
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 QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit - Department

Department: *S & H*

Academic Year: *2020 - 2021*

Date: *14.08.2021*

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
1	Institute Level / Department Level Academic Calendar Preparedness In line to University	<i>Yes, as Per the University Norms</i>	
2	Adherence of Academic Calendar	<i>Not adhered, due to Covid-19</i>	
3	Faculty Teaching Work load distribution	<i>Yes, Evenly distributed</i>	
4	Preparation of Lesson Plan	<i>Executed well, as per academic Schedule</i>	
5	Course File Readiness	<i>well Prepared.</i>	





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6	Lab Manual with Master readings and Additional experiments	yes	
7	Content beyond syllabus coverage to fulfil the Curricular gap	yes. it is fulfilled through NPTEL Videos, PPT and Lecture	
8	Number & Quality of Value Added Courses /Add-on courses/ Certification Courses	one add on course (verbal communication)	
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	FDP Conducted.	
10	Students Final Year Project Planning, Progress and quality (In-house/ Industry based)	NA	
11	Number & Quality of Students Internship/ In-plant Training	Internship done as Per AU Curriculum	
12	Number of student Conference/Journal Publications	Nil	
13	Number of Student participation in seminar/workshop/symposium	130 webinar	
14	Number of Student Awards / Prizes	A	



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### B. Student Admission and Mentoring

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
15	Percentage of Student Admission	38.8%	
16	Quality of Mentoring	Yes Implemented Successfully	
17	Remedial Classes for weak students	Yes Based on Their ITA mark Identified The weak students and conducted classes	
18	Effectiveness of Remedial Classes	Improvement were shown in their next ITA.	

### C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
19	Total Number of Faculties on Roll	19	





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20	Number of Faculties with PhD and pursuing Ph.D.	3+1	
21	Course contents delivered through PPT and available in LMS/GRC	Yes, available in course file	
22	Innovations in TL Process	NPTEL videos	
23	Initiatives for funded/Sponsored projects and consultancy works	Nil	
24	Number of Papers published in UGC, SCOPUS, WEB of Science and others.	7	
25	Number of Conference Papers published	4	
26	Number of patents published	Nil	
27	Number of Faculty Awards	Yes (Academic Excellence Award)	
28	Number of outside Interactions ( Guest Lectures, Jury, Reviewer)	3	
29	FDP/STTP/ workshop /Seminar Participation	15	
30	Number of Faculties with Professional Membership	8	

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Website : www.nprcolleges.org, www.nprcet.org Email:nprgi@nprcolleges.org



#### D. Infrastructure and Resources

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
31	Number of Class rooms	7	
32	Number of Class rooms with ICT Facility	5	
33	Number and Quality of Laboratory facility	3	
34	Number of Books and Titles in department Library.	230	
35	Quality of Computing Facilities and no of Computers	36	

#### E. Meeting Details

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
36	Class Committee meeting	<i>yes, conducted</i>	
37	Stakeholder's Meeting (Parent-Teacher, Employer, Alumni, etc.,)	<i>yes conducted.</i>	



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## F. Industry Academic Interaction and Professional Activities

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
38	Industrial Visit	yes	
39	Industry Person as Guest Lecture	Nil	
40	MOUs and activeness	yes	
41	Technical Events under Professional Societies	Nil	to be initiated
42	Club activities	maths club, Science club English club	

## G. Continuous Evaluation

S. No.	Audit Parameters	Internal Monitoring and Audit findings	Corrective Measures
43	Quality of Internal Question Papers	Yes, regularly followed	
44	Quality of Assignments	Case Study	





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Website : www.nprcolleges.org, www.nprcet.org Email:nprgi@nprcolleges.org



45	Continuous evaluation of Lab Records and students performance in Lab	yes	
46	Continuous review of Final year Projects	NA	
47	University Result Analysis and action for Improvement	yes Prepared	
48	Analysis of Stake holders feedback, action plan and action taken report	yes done as Per report	

### Name and Designation of Academic Audit Experts:

*[Signature]*  
INTERNAL AUDITOR  
(Dr. T. PRIYA)  
HOD - SLH

*[Signature]*  
IQAC COORDINATOR

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

IQAC



*[Signature]*  
EXTERNAL AUDITOR  
(Dr. B. J. SUNDARARAJAN)  
HOD - MBA

PRINCIPAL

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

Date: 26.02.2021

**CIRCULAR**

This is to inform that our institution is going to conduct an **Academic Course File Audit** for all **Departments** on **11.03.2021**. All the HODs and Staff members are asked to extend their co-operations to complete the auditing successfully.

**Academic Audit Experts**

Sl. No	Name and Designation of the Auditor	Name and Designation of the Auditor
1	<p align="center"><b>Dr.A.Gopisaminathan,</b> HoD/ECE NPR College of Engineering &amp; Technology Natham – 624401</p>	<p align="center"><b>Prof.G.Elangovan</b> HoD/EEE NPR College of Engineering &amp; Technology Natham – 624401</p>

**PRINCIPAL**

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

**Copy to:**

1. The Administrative Office
2. All HoDs - Circulate to all faculties and classes
3. File
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## PREFACE

NAME OF THE FACULTY : Mr. D. Nagaraj

DESIGNATION : ASSISTANT PROFESSOR

NAME OF THE SUBJECT : Object oriented programming

SUBJECT CODE : CS8392

YEAR : III

SEMESTER : 03

ACADEMIC YEAR : 2020-2021(ODD)

REGULATION : 2017

  
PREPARED BY  
D. NAGARAJ AP-CSB

  
APPROVED BY  
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**

**FACULTY FEEDBACK REPORT DURING OCTOBER -2020-2021-ODD**

S.NO	CONTENT	MARKS(10)
1.	STAFF NAME - Mrs. D. Nagasai	
2.	BRANCH/SEM - CSE103	
3.	TOTAL NO. OF STUDENTS - 47	
4.	SUBJECT CODE/TITLE - CS8392100P	
5.	DOES THE TEACHER COME PREPARED ON LESSONS?	09
6.	SUBJECT KNOWLEDGE AND CLARITY OF THE FACULTY	10
7.	IMPARTIALITY & FAIRNESS TO STUDENTS?	09
8.	INTERACTION WITH STUDENTS BY THE FACULTY	10
9.	VALUABLE EXTRA INFORMATION GIVEN DURING THE LECTURES BY THE FACULTY?	10
10.	ENTHUSIASM FOR SUBJECT	10
11.	SHOWING CONCERN & FOR THE STUDENTS?	10
12.	PUNCTUALITY IN EVALUATION OF EXAM PAPERS/ ASSIGNMENTS?	10
13.	WHEATHER SYLLABUS FOR IA TESTS/UNIVERSITY EXAMINATION COMPLETED STEADILY	10
14.	ABILITY TO SPEAK LOUDLY & CLEARLY	10
	TOTAL	98

*[Signature]*

**HOD-CSE**

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

**IQAC Audit Member1**

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



*[Signature]*

**PRINCIPAL**

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

N.P.R. College of Engineering & Technology  
 Natham, Dindigul (DT) - 624 401.  
**IQAC Audit Member2**



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



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### FACULTY REPORT FOR CORRECTIVE ACTION (STUDENTS FEEDBACK)

NAME: Mr. D. Nagaraj										
SUBJECT CODE/SUBJECT TITLE: CS8392 Object Oriented Programming										
ACADEMIC YEAR/SEM: 02 / 03 sem										
1.Does The teacher come prepared on lessons?	2.Subject knowledge And clarity of the faculty	3.Impartiality & fairness to students?	4.Interaction with students by the faculty	5.Valuable extra information given during the lectures by the faculty?	6.Enthusiasm for subject?	7.Showing concern & for the students?	8.Punctuality in evaluation of exam papers/ Assignments?	9.Whether syllabus for is tests/ University examination completed steadily?	10.Ability to speak loudly & clearly	TOTAL
10	10	10	10	10	10	10	10	10	10	100
10	10	09	10	10	10	10	10	10	10	99
CORRECTIVE ACTION: Students asked to give the question bank and the important questions for this subject										
REMARKS BY HOD: Question banks and the important questions were given to the students										

**IQAC Audit Member1**

**Head of the Department**  
Department of Electronics & Communication Engineering  
NPR College of Engineering & Technology  
Natham, Dindigul (DT) - 624401.

**IQAC Audit Member2**

**Head of the Department**  
Department of Electrical & Electronics Engineering,  
NPR College of Engineering & Technology  
Natham, Dindigul (DT) - 624401.



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Statement for Syllabus Completion**

I have handled the subject Object oriented programming for 03/II Sem/ year, B.E-Department of Computer Science and Engineering during the Academic year 2020-2021, Odd Semester.

In this regard, I confirm that have taught all the topics mentioned in the syllabus, and took lectures for 47 Periods and discussed the Anna University question papers of the last 5 years.

Signature : 

Name : Mr. D. Nagaraj

Designation : Assistant Professor

Department : Computer Science and Engineering

Date : 11.03.2021

Signature of the HoD : 

Signature of the Principal : 

**Dr. J. SUNDARAJAN,**  
 B.E., M.Tech., Ph.D.,  
 Principal  
 NPR College of Engineering & Technology  
 Natham, Dindigul (DT) - 624401.

  
**IQAC Audit Member1**

  
**IQAC Audit Member2**

**Head of the Department**  
 Department of Electronics & Communication Engineering  
 NPR College of Engineering & Technology  
 Natham, Dindigul (DT) - 624401.

**Head of the Department**  
 Department of Electrical & Electronics Engineering  
 NPR College of Engineering & Technology  
 Natham, Dindigul (DT) - 624401.





# NPR College of Engineering & Technology

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## REVIEW OF COURSE FILE-CONTENTS

S.NO	CONTENTS	REVIEW 1	REVIEW 2	REVIEW 3
1	PREFACE OF THE SUBJECT-1	Yes	Yes	Yes
2	INSTITUTE V/M,DEPARTMENT V/M ,PSO, PEO & PO STATEMENTS-1	Yes	Yes	Yes
3	COURSE INFORMATION SHEET-1	Yes	Yes	Yes
4	TIME TABLE WITH INDIVIDUAL WORK LOAD-1	Yes	Yes	Yes
5	TENTATIVE LESSON PLAN-1	Yes	Yes	Yes
6	LESSON PLAN AND EXECUTION.(IF ANY DEVIATION MAKEUP CLASS)-3	Yes	Yes	Yes
7	LECTURE NOTES-1	Yes	Yes	Yes
8	OHP/PPT/SUBJECT CDS-1	Yes	Yes	Yes
9	TOPIC BEYOND SYLLABUS WITH REFERENCE DETAILS.-1	Yes	Yes	Yes
10	GAP IN SYLLABUS – PLAN AND EXECUTION.-1	Yes	-	Yes
11	UNIVERSITY QUESTION PAPERS WITH ANSWER KEY.-1	Yes	-	Yes
12	INTERNAL QUESTION PAPER WITH ANSWER KEY.-3	Yes	Yes	Yes
13	ASSIGNMENT TOPICS WITH SUBMISSION DATES.-3	Yes	Yes	Yes
14	INTERNAL ASSESMENT MARK RECORDS-3	Yes	Yes	Yes
15	STUDENTS NAME LIST-COMMON AND CATEGORYWISE-3	Yes	Yes	Yes
16	REMEDIAL CLASS PLAN AND CONTINUOUS EVALUATION RECORDS.-3	Yes	Yes	Yes
17	COURSE HAND OUT-1			
18	DELIVERY MONITORING.-3	-	-	Yes
19	COURSE ASSESMENT SHEET-3	Yes	Yes	Yes
20	SAMPLE ASSIGNMENTS.-3	Yes	Yes	Yes
21	TUTORIAL SHEETS-3	Yes	Yes	Yes
22	SAMPLE ANSWER SHEETS.-3	Yes	Yes	Yes
<b>SIGNATURE OF THE STAFF IN CHARGE</b>		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
<b>SIGNATURE OF THE HOD</b>		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>





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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**ACADEMIC AUDIT REPORT**

Year/sem	II / 03	Name of the faculty	INTERNAL TEST-1				INTERNAL TEST-2				MODEL TEST-1						
			No. Of students registered	No. of students attended	No. of absences	No. Of failures	Pass%	No. Of students registered	No. of students attended	No. of absences	No. Of failures	Pass%	No. Of students registered	No. of students attended	No. of absences	No. Of failures	Pass%
			47	35	12	08	57	47	40	07	35	74	47	44	03	04	90
		IA test	12	12	-	-	100%	07	06	01	-	85	03	03	-	-	100%
		Make up test															
		Remarks	Avoid more Absences				Improve Raw Percentage										
		SIGNATURE OF IQAC MEMBER WITH NAME															
		SIGNATURE OF HOD PRINCIPAL															





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## COURSE FILE-CONTENT

1. PREFACE OF THE SUBJECT
2. INSTITUTE V/M, DEPARTMENT V/M, PSO, PEO & PO STATEMENTS
3. COURSE INFORMATION SHEET
4. TIME TABLE WITH INDIVIDUAL WORK LOAD
5. TENTATIVE LESSON PLAN
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12. INTERNAL QUESTION PAPER WITH ANSWER KEY.
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14. INTERNAL ASSESMENT MARK RECORDS
15. STUDENTS NAME LIST-COMMON AND CATEGORYWISE
16. REMEDIAL CLASS PLAN AND CONTINUOUS EVALUATION RECORDS.
17. COURSE HAND OUT
18. DELIVERY MONITORING.
19. COURSE ASSESMENT SHEET
20. SAMPLE ASSIGNMENTS.
21. TUTORIAL SHEETS
22. SAMPLE ANSWER SHEETS.

  
STAFF IN-CHARGE

[D. NATARAJ]  
AP - CSE

  
HOD-CSE

  
PRINCIPAL



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

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 COMPUTER SCIENCE AND ENGINEERING**

Register Number: 

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**INTERNAL EXAMINATION I – SEPTEMBER 2020**

3<sup>rd</sup> Semester – CSE

**CS8391-OBJECT ORIENTED PROGRAMMING**

Duration: 90 Minutes

Date: 4/09/2020

Maximum marks: 50

Course Outcomes ,Question Number, Marks:

COs	CO1	CO2
Ques. No.	1,2,6,7	3,4,5,8
Max. Marks	28	22

**COs & K-Level:**

**CO1:** To understand Object Oriented Programming concepts and basic characteristics of Java

**CO2:** To know the principles of packages, inheritance and interfaces.

K-Levels	K1: Remember	K2: Understand	K3: Apply	K4: Analyse	K5: Evaluate	K6: Create
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Q.No	Answer All Questions	Bloom's Taxonomy K-level
<b>PART – A (5 x 2 = 10 marks)</b>		
1.	Define Objects and classes in java	K1
2.	List any four java Doc comments	K1
3.	Define inheritance hierarchy. Give an example.	K1
4.	Define static inner classes	K2
5.	In java describe the use of Interfaces?	K2
<b>PART – B (1 x 8 = 8 marks)</b>		
6.	What is method? How method is defined? give example	K2
<b>PART – C (2 x16 = 32 marks)</b>		
7.	i. Explain the features of Java and list out the characteristics of JAVA (7) ii. Explain the characteristics of OOPs (6)	K2
8.	Define Inheritance? With diagrammatic illustration and java programs illustrate the different types of inheritance.	K2

**FACULTY IN-CHARGE**

D. NAGARAJ AP-CSE

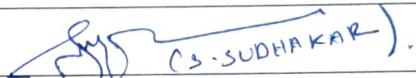
**HoD**

Head of the Department  
 Department of Computer Science & Engineering  
 NPR College of Engineering & Technology  
 Natham, Dindigul (D.D) - 624401.



**INTERNAL TEST - I / II**

- a) Register Number : 9 2 0 8 1 9 1 0 4 0 0 2
- b) Year & Department : III x CSE
- c) Subject code & Title : CS8392 - OBJECT ORIENTED PROGRAMMING
- d) Date & Session (FN/AN) : 04.09.2020 - FN
- e) Number of pages used : 11

 Name and Signature of the Hall Superintendent with Date
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Students has to put a tick (✓) mark for the questions attended in tick mark column

PART-A			
Question No.	✓	CO.1 Marks	CO.2 Marks
1.	✓	2	
2.	✓	2	
3.	✓		2
4.	✓		2
5.	✓		2
<b>TOTAL</b>		4	6
<b>TOTAL MARKS</b>		10	

Students has to put a tick (✓) mark for the questions attended in tick mark column

PART-B & C							
Question No.	(i) ✓	i CO.1 Marks	i CO.2 Marks	(ii) ✓	ii CO.1 Marks	ii CO.2 Marks	Total Marks
7.	a)		14		-	-	14
	b)						
8.	a)	✓	14	-			14
	b)						
<b>TOTAL</b>			14	20		-	34

CO. No.	Total Marks	Attained Marks
CO...1.	20	18
CO...2.	30	26

<b>Grand Total</b>	44
	50



  
 Name and Signature of the Faculty  
[D. MAHARAJ AP-CSE]



  
 Name and Signature of the HoD  
 Head of the Department  
 Department of Computer Science & Engineering  
 NPR College of Engineering & Technology  
 Natham, Dindigul (DT) - 624401.

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**COURSE INFORMATION SHEET**

<b>PROGRAMME:</b> Computer Science & Engineering	<b>DEGREE:</b> B .E
<b>COURSE:</b> OBJECT ORIENTED PROGRAMMING	<b>SEMESTER:</b> 2 <b>CREDITS:</b> 3
<b>COURSE CODE:</b> CS8392	<b>COURSE TYPE:</b> CORE <del>ELECTIVE</del> / <del>BREADTH</del> / S&H: CORE
<b>COURSE AREA/STREAM :</b> Java Programming	<b>CONTACT HOURS:</b> 3+1 (Tutorial)hours/week
<b>CORRESPONDING LAB COURSE CODE (IF ANY):</b>	<b>LAB COURSE NAME :</b> Object Oriented Programming Laboratory
<b>COURSE COORDINATOR NAME :</b> Mr.D.Nagaraj	

**SYLLABUS:**

MODULE	DETAILS	HOURS
I	Object Oriented Programming - Abstraction – objects and classes - Encapsulation- Inheritance - Polymorphism- OOP in Java – Characteristics of Java – The Java Environment - Java Source File - Structure – Compilation. Fundamental Programming Structures in Java – Defining classes in Java – constructors, methods -access specifiers - static members -Comments, Data Types, Variables, Operators, Control Flow, Arrays , Packages - JavaDoc comments.	10
II	Inheritance – Super classes- sub classes –Protected members – constructors in sub classes- the Object class – abstract classes and methods- final methods and classes – Interfaces – defining an interface, implementing interface, differences between classes and interfaces and extending interfaces – Object cloning –inner classes, Array Lists - Strings	9
III	Exceptions - exception hierarchy - throwing and catching exceptions – built-in exceptions, creating own exceptions, Stack Trace Elements. Input / Output Basics – Streams – Byte streams and Character streams – Reading and Writing Console – Reading and Writing Files	9
IV	Differences between multi-threading and multitasking, thread life cycle, creating threads, synchronizing threads, Inter-thread communication, daemon threads, thread groups. Generic Programming – Generic classes – generic methods – Bounded Types – Restrictions and Limitations.	8
V	Graphics programming - Frame – Components - working with 2D shapes - Using color, fonts, and images - Basics of event handling -	





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event handlers - adapter classes - actions - mouse events - AWT event hierarchy - Introduction to Swing - layout management - Swing Components - Text Fields, Text Areas - Buttons- Check Boxes - Radio Buttons - Lists- choices- Scrollbars - Windows - Menus - Dialog Boxes.	<b>9</b>
<b>TOTAL HOURS</b>	<b>45</b>

### TEXT/REFERENCE BOOKS:

T/R	BOOK TITLE/AUTHORS/PUBLICATION
1.	Herbert Schildt, —Java The complete referencel, 8 <sup>th</sup> Edition, McGraw Hill Education, 2011.
2.	Cay S. Horstmann, Gary cornell, —Core Java Volume –I Fundamentalsl, 9 <sup>th</sup> Edition, Prentice Hall, 2013.
3.	Paul Deitel, Harvey Deitel, —Java SE 8 for programmersl, 3 <sup>rd</sup> Edition, Pearson, 2015.
4.	Steven Holzner, —Java 2 Black bookl, Dreamtech press, 2011.
5.	Timothy Budd, —Understanding Object-oriented programming with Javal, Updated Edition, Pearson Education, 2000.

### COURSE PRE-REQUISITES:

C.CODE	COURSE NAME	DESCRIPTION	SEM
CS8251	Programming In C	Basic Knowledge About The Progmming Concepts	2

### COURSE OBJECTIVES:

1	To understand Object Oriented Programming concepts and basic characteristics of Java
2	To know the principles of packages, inheritance and interfaces.
3	To define exceptions and use I/O streams
4	To develop a java application with threads and generics classes
5	To design and build simple Graphical User Interfaces

### COURSE OUTCOMES:

S.NO	DESCRIPTION	LEVEL IN BLOOM'S TAXONOMY
C204.1	Develop Java programs using OOP principles	K3
C204.2	Develop Java programs with the concepts inheritance and interfaces	K3
C204.3	Build Java applications using exceptions and I/O streams	K2
C204.4	Relate Java applications with threads and generics classes	K6
C204.5	Develop interactive Java programs using swings	K3
C204.6	Demonstrate simple Graphical User Interfaces	K6





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## CORELATION BETWEEN COURSE OUTCOMES AND PROGRAMME OUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	2	1	1	-	-	-	-	-	-	-	-	-
C304.2	2	1	1	-	-	-	-	-	-	-	-	-
C304.3	2	1	1	-	-	-	-	-	-	-	-	-
C304.4	2	1	1	-	-	-	-	-	-	-	-	-
C304.5	2	1	1	-	-	-	-	-	-	-	-	-
C304.6	2	1	1	-	-	-	-	-	-	-	-	-

## JUSTIFICATION FOR CORELATION

SNO	RELATED POs	JUSTIFICATION
C304.1	PO1	By understanding the object oriented features of java, the students will be able to apply the knowledge in java to derive solutions to computing problems.
C304.1	PO2	By gaining the ability to apply object oriented principles in software design process, the students will be able to analyze complex engineering problems in the domain of software development with better effectiveness.
C304.1	PO3	Student is able to design for problems
C304.2	PO1	The students will be able to build a strong foundation for java programming language but more training would be required to develop the ability to identify, analyze and design solutions for complex engineering problems
C304.2	PO2	By understanding and applying various object oriented features of java, the students will be able to improve their programming skills in java.
C304.2	PO3	By gaining the ability to develop Java programs for real applications, the students will be able to develop components of a system that meet the specified needs with appropriate consideration for the public health.
C304.3	PO1	By understanding the object oriented features of java, the students will be able to apply the knowledge in java to derive solutions to computing problems.
C304.3	PO3	By understanding the object oriented features of java, the students will be able to design/develop system components of a system that meet the specified needs with appropriate consideration for the public health
C304.4	PO3	Exception handling provides robustness which improves the quality and reliability of the software solution
C304.5	PO3	Study on event handling enables students to design and develop solutions to problems.
C304.6	PO3	Students get the ability to design applets to solve problems.



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		will be of good market value and demand.
C304.6	PSO1	Study on event handling enables students to design and develop solutions to problems
C304.6	PSO2	The ability to develop applets will help the students to equip their products with applets which will improve the quality of the product.

**GAPS IN THE SYLLABUS - TO MEET INDUSTRY/PROFESSION REQUIREMENTS:**

SNO	DESCRIPTION	PROPOSED ACTIONS
1	JAVA	LAB SESSIONS

**TOPICS BEYOND SYLLABUS/ADVANCED TOPICS/DESIGN:**

Sl.No	Topic	Reason for introduction
1	Familiarization of Eclipse	Using the java programming in different environment

**WEB SOURCE REFERENCES:**

1	<a href="https://docs.oracle.com/javase/tutorial/">https://docs.oracle.com/javase/tutorial/</a>
2	<a href="http://www.javatpoint.com/java-tutorial">http://www.javatpoint.com/java-tutorial</a>
3	<a href="http://www.tutorialspoint.com/java/">http://www.tutorialspoint.com/java/</a>
4	<a href="https://www.youtube.com/channel/UC_c-e1vu4MBqOLY9WV1UrZw">https://www.youtube.com/channel/UC_c-e1vu4MBqOLY9WV1UrZw</a>
5	<a href="https://www.youtube.com/watch?v=_3XiiNZYpAw">https://www.youtube.com/watch?v=_3XiiNZYpAw</a>
6	<a href="http://www.w3schools.in/java/">http://www.w3schools.in/java/</a>

**DELIVERY/INSTRUCTIONAL METHODOLOGIES:**

CHALK & TALK	STUD. ASSIGNMENT	WEB RESOURCES	TUTORIAL
LCD/SMART BOARDS	STUD. SEMINARS		





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## CORELATION BETWEEN COURSE OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

CO	PS01	PSO2	PSO3
C304.1	2	2	-
C304.2	2	2	-
C304.3	2	2	-
C304.4	2	2	-
C304.5	2	2	-
C304.6	2	2	-

## JUSTIFICATION FOR CORELATION

SNO	RELATED PSOs	JUSTIFICATION
C304.1	PSO1	The students will get an insight into software design process and they would be able to apply standard practices in software project development to an extent
C304.1	PSO2	Java programming helps in finding conclusions to problems
C304.2	PSO1	The students will be able to build a strong foundation for java programming language but more training would be required to develop the ability to identify, analyze and design solutions for complex engineering problems.
C304.2	PSO2	The students will learn the programming language java and the practice of programming will help them to improve their programming skills to the next level.
C304.3	PSO1	The students will be able to develop a good idea on how to design a solution for computing problems by employing java programming language.
C304.3	PSO2	By understanding and applying various object oriented features of java, the students will be able to improve their programming skills in java.
C304.4	PSO1	Students will be able to develop robust innovative products in java by implementing exception handling
C304.4	PSO2	By understanding and applying various object oriented features of java, the students will be able to initiate the process of developing innovative products using java.
C304.5	PSO1	Enables students to use modern tools to create and use GUI.
C304.5	PSO2	The usage of graphical user interface and event handling in java will help the students to develop innovative products in java that



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**DELIVERY METHODS USED FOR EACH COURSE OUT COME**

SNO	DELIVERY METHODS
C306.1	CHALK & TALK, WEB RESOURCES
C306.2	CHALK & TALK, WEB RESOURCES
C306.3	CHALK & TALK, WEB RESOURCES
C306.4	CHALK & TALK, LCD, WEB RESOURCES, TUTORIAL
C306.5	CHALK & TALK, STUD. ASSIGNMENT, LCD, WEB RESOURCES
C306.6	CHALK & TALK, LCD, STUD.SEMINARS

**ASSESSMENT METHODOLOGIES-DIRECT.**

ASSIGNMENTS	STUD. SEMINARS	TESTS/MODEL EXAMS	UNIV. EXAMINATION
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**ASSESSMENT METHODOLOGIES-INDIRECT.**

STUDENT FEEDBACK ON FACULTY (ONCE)	
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## ASSESSMENT METHODOLOGIES USED FOR EACH COURSE OUT COME

SNO	ASSESSMENT METHODOLOGIES-DIRECT	ASSESSMENT METHODOLOGIES-INDIRECT
C306.1	ASSIGNMENTS, UNIV. EXAMINATION, STUD. SEMINARS, TESTS/MODEL EXAMS	STUDENT FEEDBACK ON FACULTY
C306.2	UNIV. EXAMINATION, TESTS/MODEL EXAMS,	STUDENT FEEDBACK ON FACULTY
C306.3	UNIV. EXAMINATION, TESTS/MODEL EXAMS, ASSIGNMENTS	STUDENT FEEDBACK ON FACULTY
C306.4	UNIV. EXAMINATION, TESTS/MODEL EXAMS	STUDENT FEEDBACK ON FACULTY
C306.5	ASSIGNMENTS, UNIV. EXAMINATION, TESTS/MODEL EXAMS	STUDENT FEEDBACK ON FACULTY
C306.6	UNIV. EXAMINATION, TESTS/MODEL EXAMS, STUD SEMINARS	STUDENT FEEDBACK ON FACULTY

Prepared by  
(Course Coordinator)

D. MAHARAJ AP-CSE

Approved by  
(Programme Coordinator)

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

