

	<p><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 : <a href="http://www.nprcolleges.org">www.nprcolleges.org</a>, <a href="http://www.nprcet.org">www.nprcet.org</a>, Email: <a href="mailto:nprcetprincipal@nprcolleges.org">nprcetprincipal@nprcolleges.org</a></p>	
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## **NPR COLLEGE OF ENGINEERING & TECHNOLOGY**

### **Mandatory Disclosures**

**1. Name of the Institution.**

NPR College of Engineering & Technology  
NPR Nagar, Punnappatti Village, Uluppakudi Post, Natham Taluk,  
Dindigul district – 624401, Tamilnadu  
Phone : 04544 – 246500,501  
Email : [nprcetprincipal@nprcolleges.org](mailto:nprcetprincipal@nprcolleges.org)

**2. Name and Address of the Trust/Society/Company and the Trustees.**

TITAN EDUCATIONAL TRUST  
No:F2, 19/10 Rangarajapuram 4<sup>th</sup> Street,  
West Saidapet, Chennai – 600015.Tamilnadu  
Phone: 9443742809  
Email:nprgc@nprcolleges.org

**3. Name and Address of the Vice Chancellor/Principal/Director.**

Dr.J.Sundararajan,B.E.,M.Tech.,P.hD., Principal  
31 Rajeshwari Nagar, Dasanayakkan Patty Post,  
Salem – 636201.Tamilnadu  
Phone:04544-246529  
Mobile:7373444449  
Email:nprcetprincipal@nprcolleges.org

**4. Name of the affiliating University.**

Anna University, Chennai – 600025.

## 5. Governance

Members of the Board and their brief background

S. No.	NAME AND AFFILIATION	DESIGNATION
1.	Mr. P. Janakar, Managing Trustee, Titan Educational Trust	Managing Trustee / Chair Person
2.	Mr. R. Mohan Kumar, Trustee, Titan Educational Trust	Trustee
3.	Mr. M. Sivakumar , Chief Administrative Officer	Member nominated by Trust
4.	Mr. V. Saravanakumar , Managing Director, i-Noble Infoway Private Limited, Coimbatore	Industry Professional
5.	Mr. V. Ajay Vishwanathan , CEO & Founder, Superfect solutions, Salem.	Industry Professional
6.	Mr. K. Bhagath Singh, CEO and Managing Director, KalycitoInfotech Private Limited, Coimbatore.	Industry Professional
7.	Dr. M. Bhaskar - Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Trichy.	Academic expert
8.	Dr. C. ChirstoberAsirRajan , Professor, Department of Electronics and Communication Engineering, Pondicherry Engineering College, Pudhucherry.	Academic expert
9.	Dr. J. Sundararajan, Principal	Member Secretary (ex-officio)
10.	Mr. K. ArunaSenthil Kumar, AP-MECH.	IQAC Co-ordinator
11.	University Nominee	To be allotted by Anna University
12.	AICTE Nominee	To be allotted by AICTE

**Members of Academic Advisory Body  
Frequently of the Board Meeting and Academic Advisory Body**

S.No.	NAME AND AFFILIATION		DESIGNATION	SIGNATURE
1.	Prof.Dr. J. Sundararajan, Principal,	--	Chair Person	
2.	Mr. C. Alagappan, Executive officer	--	Member nominated by Trust	
3.	Dr. A. GopiSaminathan, HoD - ECE	--	All HoDs	
	Dr. T. Malaichamy, HoD-MECH			
	Dr.A.Hemalatha, HoD- CIVIL			
	Dr. T. Priya, HoD - S & H			
	Dr. B. Velmurugan, HoD- MBA			
	Mr.G. Elangovan, HoD - EEE			
4.	Mr. S. Sathyamoorthi, AP-EEE	--	Senior Faculties of College	
	Mr. K .Jeyaprakasam, AP-ECE			
	Mrs. A. Kanimozhi, AP-Maths			
	Mr. K. ArunaSenthil Kumar, AP-MECH, IQAC Co-ordinator			
5.	Dr. M. Bhaskar - Professor, Department of Electronics and Communication Engineering ,National Institute of Technology-Trichy	--	Academic expert	
6.	Dr. C. ChirstoberAsirRajan , Professor, Department of Electronics and Communication Engineering, Pudhucherry Technological University, Pudhucherry	--	Academic expert	
7.	Mrs.S.T.SaranyaAp - EEE	--	Member Secretary	

## Academic Council Meeting

The fourteenth Academic Council meeting of our institution is planned to conduct on 03/04/2021 in our college admin conference hall. The list of academic council members is attached here with for your kind reference. I invite you for the meeting and looking forward for your participation. Expect your valuable suggestions to improve the academic performance of our institution.

Copy to:

1. Governing Council
2. Trust office
3. Administrative office
4. College office

## MEMBERS OF ACADEMIC COUNCIL

S.No.	NAME AND AFFILIATION		DESIGNATION
1.	Prof.Dr. J. Sundararajan,Principal,	--	Chair Person
2.	Mr. C. Alagappan, Executive officer	--	Member nominated by Trust
3.	Dr. A. GopiSaminathan, HoD - ECE	--	All HoDs
	Dr. T. Malaichamy, HoD-MECH		
	Dr.A.Hemalatha, HoD- CIVIL		
	Dr. T. Priya, HoD - S & H		
	Dr. B. Velmurugan, HoD- MBA		
	Mr.G. Elangovan, HoD - EEE		
4.	Mr. S. Sathyamoorthi, AP-EEE	--	Senior Faculties of college
	Mr. K .Jeyaprakasam, AP-ECE		
	Mrs. A. Kanimozhi, AP-Maths		
	Mr. K. ArunaSenthil Kumar, AP-MECH, IQAC Co-ordinator		
5.	Dr. M. Bhaskar - Professor, Department of Electronics and Communication Engineering ,National Institute of Technology-Trichy	--	Academic expert
6.	Dr. C. ChirstoberAsirRajan , Professor, Department of Electronics and Communication Engineering, Technological University, Pudhucherry	--	Academic expert
7.	Mrs.T.SaranyaAp - EEE	--	Member Secretary
8.	Mr.G.Mohan Raj–Dept. of Civil	--	Alumni
	Mr.K.Selvamani– Dept. of ECE		
9.	Mr.T.Deepanpandi,IV Year-Civil	--	Present students
	Ms.V.Monika ,IV Year-EEE		
	Ms.M.Abilasha,IV Year - ECE		
	Mr.M.S.Balamurugan,IV Year- Mech		

## **Frequently of the Board Meeting and Academic Advisory Body**

### **Agenda 14:01**

#### ***To confirm the minutes of 13<sup>th</sup> Academic Council meeting held on 04/06/2020***

Resolved to confirm the minutes of 13<sup>th</sup> Academic Council meeting held on 04/06/2020 as there were no comments

### **Agenda 14:02**

#### ***To review the action taken for the 13<sup>th</sup> Academic Council meeting held on 04/06/2020***

The council reviewed the action taken on the minutes of the 13<sup>th</sup> Academic Council meeting held on 04/06/2020

### **Agenda 14:03**

#### ***To ratify the proposed academic calendar for the Academic Year 2021-2022***

The council ratified the proposed academic calendar for the Academic Year 2021-2022

### **Agenda 14:04**

#### ***To review the Anna University results for the Academic Year 2020-2021***

The council reviewed and analyzed the Anna university semester results for the Academic year 2020-2021

### **Agenda 14:05**

#### ***To ratify the proposed Add on courses for all the departments for the Academic Year 2021-2022***

The council ratified the proposed Add on - courses for all the departments for the Academic year 2021 -2022.

### **Agenda 14:06**

#### ***To ratify the proposed Certificate courses for all the departments during the Academic Year 2021-2022***

The council ratified the proposed Certificate courses for all the departments for the Academic Year 2021 -2022.

### **Agenda 14:07**

#### ***To ratify the proposed Faculty Development Programmes for the Academic Year 2021-2022 for all the Departments***

The council ratified the proposed Faculty Development Programmes for the Academic Year 2021 -2022 for all the Departments

### **Agenda 14:08**

#### ***To ratify the proposed Internship for the students for the Academic year 2021-2022 for all the Departments***

The council discussed and ratified the proposed Internship for the students for the Academic year 2021-2022 for all the Departments

### **Agenda 14:09**

#### ***To ratify the proposed Industrial Visit for the students for the Academic Year 2021-2022 for all the Departments***

The council discussed and ratified the proposed Industrial Visit for the students for the Academic Year 2021 -2022 for all the Departments

### **Agenda 14:10**

***To review and submit the annual budget of the college to the Governing Council for approval*** The council reviewed and submitted the annual budget to the Governing Council for approval

### **Agenda 14:11**

#### ***To ratify the proposed Conference and Workshop for the students for the Academic Year 2021-2022 for all the Departments***

The council discussed and ratified the proposed Conference and Workshop for the Academic year 2021 -2022 for all the Departments

### **Agenda 14:12**

***To ratify the proposed Memorandum of understanding (MoU) for the Academic Year 2021-2022 for all the Departments***

The council discussed and ratified the proposed Memorandum of understanding for the Academic Year 2021 -2022 for all the Departments

**Agenda 14:13**

***To ratify the proposed coaching class for the slow learners for the Academic Year 2021-2022***

The council discussed and ratified the proposal for coaching class for the slow learners for the Academic Year 2021 - 2022

**Agenda 14:14**

***To ratify the proposed purchase of library books for the Academic Year 2021-2022***

The council discussed and ratified the proposed purchase of library books for the Academic Year 2021 -2022

**Agenda 14:15**

***To ratify the proposed Parent -Teachers meeting for the Academic Year 2021-2022***

The council discussed and ratified the proposed Parent –Teachers meeting for the Academic Year 2021 -2022

**Agenda 14:16**

***To view and ratify the proposed Elective Subject Finalization for the Academic Year 2021-2022 for all the departments***

The council viewed and ratified the Elective Subject Finalization for the Academic Year 2021 -2022for all the departments

**Agenda 14:17**

***To ratify the proposed NSS/YRC activities for the Academic Year 2021-2022***

The council ratified the proposed NSS/YRC activities for the Academic Year 2021 -2022

**Agenda 14:18**

***To implement the proposed innovative teaching learning process for the development of the students***

The council approved the proposed innovative teaching learning process for the development of the students

**Agenda 14:19**

***To ratify the proposed language and communication skill programmes for the Academic Year 2021-2022***

The council ratified the proposed language and common skill programmes for the Academic Year 2021 -2022

**Agenda 14:20**

***To review the recruitment of staff for the institution according to the sanctioned intake as per norms and submit to the Governing Council for approval for the Academic year 2021 -2022***

The council reviewed the recruitment of staff for the institution according to the sanctioned intake as per the norms and submitted to the Governing Council for the Academic Year 2021-2022

**Agenda 14:21**

***To ratify the proposed placement drives for the Academic Year 2021-2022***

The council ratified the proposed placement drives for the Academic Year 2021 -2022

**Agenda 14:22**

***To ratify the assessment and attainment of COs and POs for the Academic Year 2021 - 2022***

The council ratified the assessment and attainment of COs and POs for the Academic Year 2021-2022

**Agenda 14:23Any other matters**

Nil

## **Organizational chart and process**

<https://www.nprcolleges.org/site/download?file=2022-03-24-06%3A07%3A048241organogram+2021.pdf>

## **Nature and Extent of involvement of Faculty and students in academic affairs / improvements**

Our Institution ensures the involvement and participation of the students and faculties in academic improvements.

Students' representatives participate in the Internal Quality Assurance Cell and Academic Council meetings and submit their academic requisites thereby, take part in the quality enhancement and sustainable measures. Students' participation and suggestions in Library Advisory committee improves the activities and development of library.

Students who got placed in companies interact with others sharing their experience and thus participating in the placement training activities.

Two boys and two girls of every class represent the class committee meetings where they express their suggestions to improve the teaching - learning process.

Students' interaction with Alumni helps them to know the present scenario in industries and in accordance submit their requisites in the respective forums. They act as team leaders in Mini and Major projects.

Faculties are members in the Internal Quality Assurance Cell, Academic Council and few senior faculties in Governing council also. Faculties act as chairman for conducting the Class Committee Meeting and participate in the development of academics. Value Added Courses are conducted to bridge the identified gaps in the syllabus in which faculties formulate the syllabus and conduct programmes. Faculties take part in the University examinations as invigilators, AURs, Squad members, Examiners for practical examination, paper valuation and so on. Faculties' representation and suggestions given in the Library Advisory Committee give way for the development of the library. Faculties' publications in Journals and Patents confirm their participation in the academic development. Faculties act as Guides/Supervisors for Ph.D. scholars and ensure their participation in research activities.

## **Mechanism / Norms and Procedure for democratic/ good Governance**

### **Students Feedback on Institutional Governance / Faculty performance**

<file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/Feedback/students%20feedback.pdf>

### **Grievance Redressal mechanism for Faculty, staff and students**

The Grievance Redressal Cell has been formed solely to provide solutions for the grievances of the students which arise then and there. The students are fully free to submit their grievances regarding academic or personal matters in the meeting held on first week of every month, by dropping in the suggestions boxes provided in our campus or sending through online email to [nprcetprincipal@nprcolleges.org](mailto:nprcetprincipal@nprcolleges.org)

On receipt of the grievances the Grievance Redressal Cell scrutinizes, analyzes carefully and discusses with the concerned person to find out on amicable solution without affecting the interests of both the parties. If the grievances are found to be not genuine, the students are explained about the reasons for not implementing them. In all cases maintaining strict confidentiality is ensured by the Grievance Redressal Cell.

## Establishment of Anti Ragging Committee

S. No.	Name	Position	Designation
1	Dr. J. Sundararajan	Chairman	Principal
2	Mr. K. Aruna Senthil Kumar	Member	Assistant Professor/MECH
3	Dr. T. Priya	Member	HoD/S&H
4	Dr. A. Hemalatha	Member	HoD/CIVIL
5	Mrs.M.Kalarani	Member	Assistant Professor/CSE
6	Mr.T.Sivakumar	Member	Associate Professor/EEE
7	Mr.S.Sudhakar	Member	Deputy Warden- Boys Hostel Assistant Professor/ECE
8	Mrs.P.Geetha	Member	Assistant Professor/MBA
9	Mr.M.Harish	Member	II year/CIVIL
10	Ms.K.Mohana Priya	Member	III year/MBA
11	Mr.B.Raguram	Member	II year/MECH
12	Ms.R.Monica	Member	III year/CSE
13	Mr.R.B.Saran	Member	IV year/EEE
14	Ms.D.Sunitha	Member	I year/CSE
15	Mr.M.Sakthi Prasanna	Member	I year/ECE-B

## Establishment of Online Grievance Redressal Mechanism

The Grievance Redressal Cell has been formed solely to provide solutions for the grievances of the students which arise then and there. The students are fully free to submit their grievances regarding academic or personal matters in the meeting held on first week of every month, by dropping in the suggestions boxes provided in our campus or sending through online email to [nprcetprincipal@nprcolleges.org](mailto:nprcetprincipal@nprcolleges.org)

## Establishment of Grievance Redressal Committee in the institution and Appointment of OMBUDSMAN by the university.

S. No.	Name	Position	Designation / Dept.
1.	Dr. J.Sundararajan	Chairman	Principal
2.	Mr. K. Yogunath	Member	AP – S&H
3.	Mrs. A. Kanimozhi	Member	ASP – S&H
4.	Mrs. C. Kannika Parameshwari	Member	AP – ECE
5.	Mrs. C. Kalpana	Member	AP – CSE
6.	Mr. P. Manikandan	Member	AP – CIVIL
7.	Mr. G. Sundararajan	Member	AP – MECH
8.	Mr. S. Sathyamoorthi	Member	AP – EEE
9.	Mr. P. T. J. K. Lilian	Member	AP – MBA
10.	Mr.C.Alagappan	OMBUDSMAN	Executive officer



## Establishment of Internal Complaint Committee (ICC)

One of these is the constitution of an Internal Complaints Committee ("ICC"), a body envisaged to receive complaints on sexual harassment at the workplace from an aggrieved woman, as well as to inquire into and make recommendations to the employer on the action required pursuant to its inquiry of such complaint made.

S.NO	NAME	DESIGNATION
1	Dr.J.Sundararajan,Principal	Chairperson
2	Mrs.V.Sujitha,AP/CSE	Convener
3	Dr.S.PaulSingarayar, HoD/MECH	Member
4	Mrs.C.KannikaParameshwari,AP/ECE	Member
5	Mrs.J.Prisca Mary,AP/CSE	Member
6	Mrs.S.T.Saranya,AP/EEE	Member
7	Mrs.S.PremaSundari, AP/CIVIL	Member
8	Ms.S.DivyaDharshini, III-ECE	Student Member
9	Ms.M.Kasthuri, III-EEE	Student Member
10	Ms.R.Nivedha, IV-CSE	Student Member
11	Ms.S.Harini, IV-CIVIL	Student Member
12	Ms.JenithaKarthiga, II-MBA	Student Member

## Establishment of Committee for SC / ST

Scheduled Castes (SC) and Scheduled Tribes (ST) has been identified as the two most backward groups of Indian Society. They include all the castes, races or tribes, which have been socially, economically and educationally backward. The cell has been established to support and to bring students from such communities in the main stream.

The SC/ST cell of NPR College of Engineering was established in 2015 with the purpose to empower the SC/ST students in the college. The college takes a special interest in facilitating financial support to students belonging to these communities from government agencies and other sources. They are also encouraged to enroll for career orientation programs, which would equip them with the necessary skills to choose a career option.

### Activities

1. To collect reports and information of State Govt. and UGC orders on various aspects of education, employment of SC/ST Students.
2. To circulate State Govt.and UGC decisions about different scholarship programs.
3. To communicate with the students and motivate them for better future planning.
4. To counsel and guide SC/ ST students and help them to manage academic and personal issues of college life effectively.
5. To ensure provisions of an environment where all such students feel safe and secure.
6. To provide prompt counselling for any emotional emergencies arising on account of any event at the campus.
7. To provide the mechanism to redress the grievance of SC/ST students, if any
8. To ensure protection and reservation as provided in the constitution of India.
9. To arrange for special opportunities to enhance the carrier growth
10. To aware the SC/ST students regarding various scholarships program of State Govt. and UGC.
11. To take such follow up measures to achieve the objectives and targets laid down by the Govt. of India and the UGC.
12. To encourage and enlighten the sc/st students with regard to the rights enshrined in the constitution.

**Functions and Objectives of the Committee:**

1. Circulate State/Central GO's Circulars from time to time and to collect information regarding course wise admissions of the candidates pertaining to SC/ST in the college on annual basis.
2. Analyze information on admissions, examination results training and employment of SC/ST students and to prepare reports for onward transmission to MHRD/UGC/Affiliating Universities, etc...
3. SC/ST cell is expected to look after Grievances of Students & Staff and provide necessary help after consultation with the competent authority.
4. To conduct remedial coaching classes, life skills, personality development, writing assignments, and making presentations.
5. To organize Interactive sessions, informal meetings with students to address their Personal & Social problems.
6. The SC/ST/OBC/PWD students can approach the Coordinator/Liaison officer of the cell for redressal of any grievance(s) regarding Academic/Administrative/Social Problems.
7. The Committee meets at least two times in a year.
8. The Committee functions under the Chairmanship of the Principal.

**SC/ST Committee Members**

S.No	Name of Member	Designation	Position	Contact Number	E-mail
1	Dr. J.Sundararajan	Principal	Chairman	7373444449	nprcetprincipal@nprcolleges.org
2	Mr. K.. Jayaprakasam	AP/ECE	Convener	9840210177	jeya@nprcolleges.org
3	Mrs.A. Kanimozhi	AP/Maths	Member	9442649591	akanimozhi@nprcolleges.org
4	Dr. A..Hemalatha	HOD /CIVIL	Member	9894879990	hemalatha@nprcolleges.org
5	Mr.B.Deepan	AP/Mech	Member	9629313056	Deepanmech04@gmail.com
6	Mr.P.Velmurugan	IV Year-Mech	Member	9994432914	velmurugan.p 2001 @gmail.com
7	Mr.V.M.Suryaprakash	IV Year-ECE	Member	8870688989	suryaprakash@gmail.com
8	Ms.N.Mmaniyammaiyar	II Year-ECE	Member	7904071264	maniammayar@gmail.com
9	Mr.K.Kabilash	IIVear-CSE	Member	8098078835	kabilesh16102003@gmail.com

**Internal Quality Assurance Cell**

Internal Quality Assurance Cell (IQAC) has been established on 03.07.2017 to develop a system of conscious, consistent and catalytic improvement in the overall performance of our institution. IQAC is involved in all major academic, administrative, student centric procedures and engages in facilitating academic audit, preparing annual report, affiliation and other quality audit processes. The Cell documents and reports the various activities carried out in our institution. Thus IQAC ensues as the leading system of our institution to ensure quality and continuous improvement towards holistic academic excellence.

Title	Name & Designation
Chair Person	Dr. J. Sundararajan, Principal
Members - Faculty	Dr. A. GopiSaminathan, HoD - ECE
	Mr. T. Malaichamy, HoD-MECH
	Mr. J. Viswanath, HoD-CSE
	Dr. T. Priya , HoD – S&H
	Dr.A.Hemalatha, HoD - Civil
	Mr. G.Elangovan, HoD - EEE
	Dr.B.Velmurugan, HoD - MBA
	Mr. Viruma Pandi , Librarian

Member - Management	Mr. C. Alagappan Executive Officer
Administrative Officer	Mr. B. Baskaran, Accountant
Members - Students	Ms. R.Ajitha, IV Year Civil
	Ms. B.Kamali, III Year CSE
	Ms. A.Cirpa, IV Year EEE
	Mr.B.Vel Bhakiyaraj , II Year Civil
Alumni	Mr. M.Sakthivel, Dept. of Civil(BATCH 2015-2019)
	Ms.B.Ponvzhili Swathi, Dept of CSE(BATCH 2015-2019)
Employer	Mr. Vaibhav Kulkarni-Creators Technology
Industrialists	Mr. Sudhakar Dasiah, Delivery Unit Head – HCL Technologies
	Mr. Ajay Viswanathan, CEO – Superfecta Solutions, Salem.
Stakeholder	Mr. S.Boobathi - Parent
IQAC Coordinator	Mr. K. Aruna Senthil Kumar, AP-MECH

## 5. Programmes.

- **Name of the Programmes approved by AICTE:**

### **Under Graduate Courses:**

1. Civil Engineering
2. Computer Science and Engineering
3. Electrical and Electronics Engineering
4. Electronics and Communication Engineering
5. Mechanical Engineering

### **Post Graduate Course:**

1. Structural Engineering
2. Power Electronics and Drives
3. VLSI Design
4. MBA – Master of Business Administration

- **Name of Programmes Accredited by NBA : NO**
- **Status of Accreditation of the Courses : NA**
- **Total No of Courses : 9**
- **No of Course for which applied for Accreditation: NO**

**For each Programme the following details are to be given:**

Name	Number of Seats	Duration	Cut off Marks	Fee	Placement Facilities	Campus Placement in last three year
B.E Civil Engineering	60	4 years		as per TN Government Norms	YES	
B.E Computer Science & Engineering	60	4 years		as per TN Government Norms	YES	
B.E Electrical & Electronics Engineering	60	4 years		as per TN Government Norms	YES	

B.E Electronics & communication Engineering	120	4 years		as per TN Government Norms	YES	
B.E Mechanical Engineering	60	4 years		as per TN Government Norms	YES	
MBA – Master of Business Administration	60	2 years		as per TN Government Norms	YES	
M.E – VLSI Design	9	2 years		as per TN Government Norms	YES	
M.E – Structural Engineering	18	2 years		as per TN Government Norms	YES	
M.E – Power Electronics & Drives	9	2 years		as per TN Government Norms	YES	

- Name and duration of Programme (s) having Twinning and Collaboration with Foreign University(s) and being run in the same Campus along with status of their AICTE approval. If there is Foreign Collaboration, give the following details: **No**

## 6. Faculty

<b>DEPARTMENT OF SCIENCE AND HUMANITIES</b>	<a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20SCIENCE%20AND%20HUMANITIES.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20SCIENCE%20AND%20HUMANITIES.pdf</a>
<b>DEPARTMENT OF CIVIL ENGINEERING</b>	<a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20CIVIL%20ENGINEERING.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20CIVIL%20ENGINEERING.pdf</a>
<b>DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING</b>	<a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20COMPUTER%20SCIENCE%20AND%20ENGINEERING.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20COMPUTER%20SCIENCE%20AND%20ENGINEERING.pdf</a>
<b>DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING</b>	<a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20ELECTRICAL%20AND%20ELECTRONICS%20ENGINEERING.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20ELECTRICAL%20AND%20ELECTRONICS%20ENGINEERING.pdf</a>
<b>DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING</b>	<a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20ELECTRONICS%20AND%20COMMUNICATION%20ENGINEERING.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20ELECTRONICS%20AND%20COMMUNICATION%20ENGINEERING.pdf</a>
<b>DEPARTMENT OF MECHANICAL ENGINEERING</b>	<a href="file:///C:/Users/NPR/Downloads/DEPARTMENT%20OF%20MECHANICAL%20ENGINEERING.pdf">file:///C:/Users/NPR/Downloads/DEPARTMENT%20OF%20MECHANICAL%20ENGINEERING.pdf</a>
<b>DEPARTMENT OF MBA</b>	<a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20MBA.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/staff/DEPARTMENT%20OF%20MBA.pdf</a>

## **8.Profile Principal**



### **PROFILE**

Name of the faculty member : **Dr. J.SUNDARARAJAN**

Present Designation : Principal

Name of the Department : UG-Electronics and Communication Engineering  
PG -Bio-signal Processing and Instrumentation.  
PhD- Bio-Medical Signal Processing.

Name of the College : NPR College of Engineering & Technology

Residential Address : T4, Kanna Apartments,  
Trichy Bypass road, Seelapadi,  
Dindigul (Dt) – 624 004.

Contact / MobileNo. : Official – 7373444449. Personal -  
94888 06145

Email : Official – [nprcetprincipal@nprcolleges.org](mailto:nprcetprincipal@nprcolleges.org)  
Personal – [pctprincipaloffice@gmail.com](mailto:pctprincipaloffice@gmail.com)

Anna University Ref. No. for Supervisor Recognition : 2540105 (Lr. No. SUPR/25<sup>th</sup>/DB dated: 28.05.2015)

Gender : Male.

PAN Number : BKGPS8401L

Aadhaar Number : 627100159264.

Passport Number : H2737904.

Date of Birth and Age : 01.05.1970&51.

### **Educational Qualification :**

**UG : B.E (Electronics and Communication Engineering)**  
**PG : M.Tech (Bio Medical Signal Processing and Instrumentation)**  
**Ph.D : Information and Communication engineering**

## Work Experience :

Teaching : (Totally **29.7 Years**)  
Research : **14 Years**  
Industry : -  
Others : -

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
VMKV Engg. College	Assistant Professor	02.08.92	29.05.03	10	09	28
Vivekanandha College of Engineering for women	Professor & Head	01.06.03	10.06.06	03	0	10
Paavai Engineering College	Professor & Head	15.06.06	31.05.09	02	11	17
Paavai College of Technology	Principal	01.06.09	19.08.2019	10	02	18
NPR College of Engineering And Technology	Principal	07.01.20 20	Till Date	02	02	29
Total				<b>29 Y</b>	<b>7 M</b>	<b>30 D</b>

## Area of Specialization:

Bio-Medical Instrumentation, Medical Electronics, Bio-Signal Processing, Sensors and Transducers, Bio-Telemetry, Expert System Networking, Signal and Image Processing, Artificial Intelligence and Neural Networks, VLSI Design

## Courses taught at Diploma / Post Diploma / Under Graduate / Post Graduate Diploma Level :

(Signals and Systems, Advanced Digital Signal Processing, Antennas and Wave Propagation, Advanced Microprocessor and Microcontroller, Electronic Circuits I & II, Artificial intelligence and Neural Network, Digital Image Processing, Biomedical Instrumentation, Medical Electronics, Computer Networks, Advanced Digital Systems, VLSI Design, Electronic Circuits Lab I & II, Digital Signal Processing Lab, Antennas and Wave Propagation Lab, Microprocessor and Micro controller Lab, Linear Integrated Circuits Lab, Networks Lab, VLSI Lab, Instrumentation Lab)

## Research Guidance

No of Papers published in National / International / Journals / Conferences

Journal Publication : 56

Conference Publication : 17

Patent : 08

Master (Completed / Ongoing) :

Ph.D (Completed / Ongoing) : Completed : 17

## Projects Carried out

S. No	Title of the Project/Research	Funding Agencies	Grants received	Period	Status of Completion
1	AICTE – Margdharshan Scheme – Mentee Institution (Mentor-NIT,Trichy)	AICTE, New Delhi	-	2018-21	Ongoing
2	PMKVY-TI Programme	AICTE, New Delhi	-	2018-19	Ongoing
3	PMKVY-TI Programme	AICTE, New Delhi	Rs.16,73,438	2017-18	Completed
4	PMKVY-TI Programme	AICTE, New Delhi	Rs.10,79,000	2016-17	Completed
5	Intelligent Controlled Power Electronic Converters	CSIR - Workshop	Rs. 30,000	25.08.2012	Completed
6	Integration of Distributed PowerSystems	CSIR - Seminar	Rs. 30,000	24.11.2012	Completed
7	Recent Advances in Welding Simulation	CSIR - Seminar	Rs. 20,000	22.06.2013	Completed
8	Health Care monitoring systems using wireless sensor networks	ICMR - Seminar	Rs. 30,000	17.03.2017	Completed
9	Biocompatible Composite Materials	ICMR - Seminar	Rs. 50,000	03.03.2017 & 04.03.2017	Completed
10	Satellite Technology and its Applications	ISRO - Seminar	Rs. 30,000	17.03.2017 & 18.03.2017	Completed

## Patents filed & Granted

Title of Invention : **System for Smart Nail Polish and NailArt**

(Patent Application No: 01841019563A,  
Issue No: 28/2018 dated 08.06.2018)

Title of Invention : **Based Border Limiting System GEOFENCE**

(Patent Application No: 201941033492  
A, Issue No: 36/2019.2019) dated 06.09

Title of Invention : **A Device for Automated pregnancy test and NBSP; A method of Performing the Test**

(Patent Application No: 201941037241  
A, Issue No: 39/2019 dated 27.09.2019)

Title of Invention : **Genome based risk factor analysis and prediction for TZDM**

(Patent Application No: 201941038314  
A, Issue No: 43/2019 dated 25.10.2019)

Title of Invention : **Machine learning based inspiratory flow monitoring and attack Prevention using digital inhaler for asthma patients**

(Patent Application No:  
202041012710, Issue No: 20/2020

Dated 15.05.2020)

Title of Invention : **Deep learning approach for activity classification in Wearable devices**

(Patent Application No: 202041022535, Issue No: 24/2020 dated 12.06.2020)

## Technology Transfer :

S.No	Title	Publisher	Year of Publication
1	Electronic Devices	Charulatha Publications	2016
2	Circuit Theory	Charulatha Publications	2016
3	Control System	Charulatha Publications	2016
4	Circuit Analysis	Charulatha Publications	2017
5	Basic Electrical and Electronics Engineering	Charulatha Publications	2017

## Supervisor Recognition

S. No.	Name of the University	Letter No.	Recognition No.	No. of Ph.D. Scholars
1	Anna University Chennai	Lr. No. SUPR/25 <sup>th</sup> /DB dated: 28.05.2015	<b>2540105</b>	<b>13</b> <b>Degree Awarded : 13</b>

## Research Publications:

No. of Research Papers published in International journals **56**

No. of Research Papers presented in International Conferences/seminars **17**

Sl. No	Year	National / International	Topic / Title	Published By
1	2020	<b>International Journal</b>	FPGA based design and implementation of low power dual edge triggered flip flop using dynamic signal driving scheme for memory application.	<b>Elsevier – Micro Processors and Microsystems</b> , Vol. 76, PP 103098, ISSN: 0141-9331, July 2020.
2	2020	<b>International Journal</b>	EEG Signal Based Brain Activity Monitoring Using Adaptive Wavelet Transform And Activity Learning Neural Vector (ALNV) Classification Technique	<b>Springer - Multimedia Tools and Applications</b> , PP 1-17, ISSN: 1380-7501 (Print); ISSN:1573-7721.



3	2019	<b>International Journal</b>	An Novel Versatile Inspiring Wavelet Transform And Resilient Direct Neural Network Classification Techniques For Monitoring Brain Activity System Based On EEG Signal	<b>Journal of Medical Imaging and Health Informatics</b> , Vol. 9, No. 9, PP 1801–1807, 2019.
4	2019	<b>International Journal</b>	Cluster-Based Energy Hop Count Analysis for Dynamic Route Selection in Mobile Wireless Sensor Network	<b>Applied Mathematics &amp; Information Sciences</b> , Volume: 1, PP 1-9
5	2018	<b>International Journal</b>	High Speed Low Power Dual Edge Triggered FlipFlop Design Using Dynamic Signal Driving Scheme For Memory Applications	<b>Springer - Cluster Computing</b> , manuscript number, CLUS-D-17-01589R1
6	2018	<b>International Journal</b>	FPGA based seizure detection and control for brain computer interface	<b>Cluster Computing- The Journal of Networks Software tools and Applications</b> , Volume 1, PP 1-8, Jan 2018, ISSN: 1386-7857(Print); ISSN: 1573-7543
7	2017	<b>International Journal</b>	Review on Diverse Approaches used for Epileptic Seizure Detection using EEG Signals	<b>International Journal of Pure and Applied Mathematics</b> , Volume 117 No. 15 2017, PP 991-1000 ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version)
8	2017	<b>International Journal</b>	Low power NoC architecture based dynamic reconfigurable system	<b>Cluster Computing- The Journal of Networks Software tools and Applications</b> , ISSN: 1386-7857, pp 1-12, Dec. 2017 (SCI indexed journal)
9	2017	<b>International Journal</b>	Improved Quality of Service (QoS) in LTE Networks Based Video Streaming Using PID Controller and Exhaustive Search Mechanism	<b>International Journal of Control Theory and Applications</b> , ISSN: 0974-5572, vol. 10, Issue 12, pp 271-280, March 2017
10	2017	<b>International Journal</b>	Energy-Efficient QoE-Aware Video Adaptation and Resource Allocation for Video Streaming	<b>Middle East Journal of Scientific Research</b> , ISSN: 1990-9233, Volume 25, Issue 2, February 2017.
11	2017	<b>International Journal</b>	A Novel Implementation of Seizure Control Stimulator for Brain Computer Interface	<b>International Journal of Printing, Packaging &amp; Allied Sciences</b> , Vol. 5, No. 1, February 2017, ISSN 2320-4387
12	2017	<b>International Journal</b>	Biologically Inspired Clustering Algorithms in Mobile Wireless Sensor Networks: a survey	<b>World Applied Science Journal 1 (1)</b> : 98-104, 2016, ISSN 1818 4952
13	2017	<b>International Journal</b>	Biologically Inspired Clustering algorithms in Mobile Wireless Sensor Networks: A Survey	<b>Advances in Natural and Applied Sciences</b> , Vol: July 11, No. 9, Pages 76-103, ISSN: 1995-0772
14	2017	<b>International Journal</b>	Cluster-based routing using fuzzy and bee colony optimisation in mobile wireless sensor networks	<b>International Journal Mobile Network Design and Innovation</b> , Vol. 7, No. 2, 2017 Pages 109-117
15	2016	<b>International Journal</b>	QoE- Resource Allocation in Wireless Networks for Video Streaming Services	<b>International Journal of Printing, Packages and Allied Sciences</b> , ISSN: 2320-4387, Volume 4, Issue 3, December 2016.

16	2016	<b>International Journal</b>	Delay Tolerant Spatial Distribution of Content Replication in Wireless Networks for Efficient Video Streaming	<b>American-Eurasian Journal of Scientific Research</b> , ISSN 1818-6785 Volume 3, Issue 5, August 2016.
17	2016	<b>International Journal</b>	EECRT: Efficient Energy Conservation Routing Technique for WSN with Node Mobility	<b>Middle-East Journal of Scientific Research</b> , Vol. 24, No. 1, PP 103-112, ISSN 1990-9233
18	2016	<b>International Journal</b>	MNN: Multiclass Neural Network Classifier for Cardiac Disease Prediction Models	<b>Asian Journal of Research in Social Sciences and Humanities</b> , Vol. 6, Special Conference Issue Sept 2016, pp. 293-309. ISSN 2249-7315
19	2016	<b>International Journal</b>	A Novel Traffic Aware based Routing Integrated Time Synchronization for Slack Time Minimization in NoC System	<b>Asian Journal of Research in Social Sciences and Humanities</b> , Volume 6, September 2016, 310-318, ISSN 2249-7315
20	2016	<b>International Journal</b>	PAIR–Power Aware Intellectual Routing Architecture for Network-on-Chip Configuration	<b>International Journal of Printing, Packaging &amp; Allied Sciences</b> , Vol. 4, No. 5, (ISSN 2320-4387), pp.3907-3916, December
21	2016	<b>International Journal</b>	Delay Tolerant Spatial Distribution of Content Replication in Wireless Networks for Efficient Video Streaming	<b>American-Eurasian Journal of Scientific Research 11 (2)</b> :98-104, 2016, ISSN 1818-6785, 2016
22	2015	<b>International Journal</b>	A Hybrid Technique with Buffer Management Scheme for Interactive Multimedia Applications (Cdn-P2p-Bm)	<b>International Journal of Applied Engineering and Research</b> , ISSN 0973-4562, PP 23453 – 23458 Volume 10, Number 32, May 2015.
23	2015	<b>International Journal</b>	Dynamic Allocation of Circular Buffer with Circular Linked List Technique for Real-Time multimedia applications across slow speed links	<b>International Journal of Innovative Research Science, Engineering and Technology</b> , ISSN 2319 – 8753, Volume 4, May 2015
24	2015	<b>International Journal</b>	Multispectral Sensing of Satellite Images for the Classification of Different Land Covering Area by Support Vector Machine-2 Method	<b>Middle-East Journal of Scientific Research</b> , ISSN 1990-9233, 23 (10): P2446-P2453, 2015.
25	2015	<b>International Journal</b>	Automatic Insulin Injection in Embedded Linear Parameter Varying Techniques for Type 1 Diabetes	<b>Journal of Medical Imaging and Health Informatics</b> , Volume: 5 Issue: 1 Pages: 1-8 ISSN: 2156-7018
26	2015	<b>International Journal</b>	Efficient Mobility Management Signaling in Network Mobility Supported PMIPv6	<b>Publishing Corporation The Scientific World Journal</b> Volume 2015, Article ID 539394
27	2015	<b>International Journal</b>	Reducing Authentication Overhead in NEMO Supported PMIPv6	<b>International Journal of Applied Engineering Research (IJAER)</b> , Vol. 10, no 18, pp:13674-13678, ISSN: 0973-4562, 2015

28	2014	<b>International Journal</b>	EEEM: An Energy-Efficient Emulsion Mechanism for Wireless Sensor Networks	<b>International Journal of Innovative Research in Computer and Communication Engineering</b> , Vol.2, Special Issue 1, March 2014, ISSN(Online): 2320-9801
29	2014	<b>International Journal</b>	Minimizing Load at Local Mobility Anchor in PMIPv6Network	<b>International Journal of Engineering and Technology (IJET)</b> , Volume: 6 No: 4,pp:1623-1635, ISSN : 0975-4024
30	2014	<b>International Journal</b>	3D – Discrete Wavelet Transform with adaptive histogram equalization for the enhancement of grayscale satellite image using Homomorphic Filtering	<b>SYLWAN</b> , Volume: 158 Issue: 6 Pages: 103-107 ISSN:0039–7660
31	2014	<b>International Journal</b>	Network Mobility Supported Proxy MobileIpv6	<b>Journal of Computer Science</b> 10 (9): 1792-1797, 2014, ISSN: 1549-3636, doi:10.3844/jcssp.2014.1792.1797 Published Online 10 (9) 2014
32	2014	<b>International Journal</b>	High Performance Multiplierless FIR Filter	<b>SYLWAN</b> , Volume: 158 Issue: 5 Pages: 199-212 ISSN:0039–7660
33	2014	<b>International Journal</b>	Network Mobility Supported Proxy MobileIPV6	<b>Journal of Computer Science</b> , Volume: 10 Issue: 9 Pages:1792-1797 ISSN: 1549-3636
34	2014	<b>International Journal</b>	A Novel Classifier Algorithm for EEG Signal Based Person Authentication from Cz Channel with 2D-Wavelet Compression for the Online Voting System Using TouchPanel	<b>Australian Journal of Basic and Applied Sciences</b> , Volume: 8 Issue: 5 Pages: 399-409 ISSN: 1991-8178
35	2014	<b>International Journal</b>	Automatic Diabetic Control System Based on Multi-Variant Fuzzy Rule Sets	<b>Asian Journal of Information Technology</b> , Volume: 13 Issue:3 Pages: 131-137 ISSN: 1682-3915
36	2014	<b>International Journal</b>	3D Based Remote Sensing Image Contrast Enhancement Using SVM	<b>Journal of Theoretical and Applied Information Technology</b> , Vol: 61 Issue: 3 Pages: 545-552 ISSN: 1992-8645
37	2014	<b>International Journal</b>	Optimal Link Managed on Demand Routing Protocol in MANET for Qos Improvement	<b>International Journal of Engineering and Technology</b> , Volume: 6 Issue: 1 Pages:146-154 ISSN: 0975-4024
38	2014	<b>International Journal</b>	Efficient Method for Insulin Control Pumping in Type 1Diabetes	<b>Research Journal of Medical Sciences</b> , Volume: 8 Issue: 1Pages: 6-12 ISSN: 1815-9346
39	2014	<b>International Journal</b>	A Traffic Aware AODV Routing Protocol for Mobile AdHoc Networks	<b>Australian Journal of Basic and Applied Sciences</b> , Volume: 8 Issue: 1 Pages: 197-206 ISSN: 1991-8178

Sl. No	Year	National / International	Topic / Title	Published By
40	2014	International Journal	Minimizing Delay and Power Using Cramming Adjournment Algorithm	<b>Australian Journal of Basic and Applied Sciences</b> , Volume: 8 Issue: 2 Pages: 152-161 ISSN: 1991-8178
41	2014	International Journal	Automatic Glucose Insulin Regulation System comparison Of Embedded Control Design And Harr Wavelet Method For Type-1 Diabetes	<b>American Journal of Applied Sciences</b> , Volume: 11 Issue: 3Pages: 433 – 447 ISSN Print: 1546-9239,
42	2013	International Journal	Efficient Energy Conservation Algorithm For Mobile Sensor Nodes In Wireless Sensor Networks	<b>International Journal of Advanced Information Science and Technology (IJAIST)</b> Vol.2,No.10, October 2013 ISSN: 2319:2682
43	2013	International Journal	Automatic blood Glucose Insulin control in Intensive Care Unit for Type 1Diabetes by embedded based mathematical stimulation	<b>Jokull Journal</b> , Vol: 63 issue: 12 Pages: 134-164 Published on Dec 2013 ISSN: 0449-0576
44	2013	International Journal	Mechanism of Glucose Insulin Control in Type 1 Diabetes Using Harr Wavelet Method	<b>Journal of Engineering and Applied Sciences (JEAS)</b> Vol: 8, Issue : 5 Pages : 146-155 Published on : Dec., 2013, ISSN: 1110-1903
45	2013	International Journal	Delay and Power Reduction in New Routing Fabrics	<b>American Journal of Applied Sciences (AJAS)</b> Volume : 10,Issue : 12 Pages : 1537-1545 October 2013
46	2013	International Journal	Pattern Classification of ECG signals for Cardiac Disease Prediction using Probabilistic Models	<b>Turkish Journal of Engineering, Science and Technology (TUJEST)</b> Vol.1 issue 3 pp 19-38 July 2013 ISSN: 2147-9690
47	2012	International Journal	A Delay Reduction in Field Programmable Gate Array with Enhanced Routing Fabric Algorithm	<b>European Journal of Scientific Research (EJSR)</b> Volume 93issue 1 pp 19-25, December 2012 ISSN: 1456-216X
48	2012	International Journal	VLSI Implementation of System Level Dynamic Power Management Policy	<b>European Journal of Scientific Research (EJSR)</b> Volume 93issue 3 pp 378-386 December 2012 ISSN: 1456-216X
49	2012	International Journal	Efficient Method of Power Management On System on Chip Communication using Steiner Graph	<b>International Journal of Information and Electronics Engineering (IJIEE)</b> Volume 2 issue 6 pp 960-964 November 2012ISSN: 2010-3719
50	2012	International Journal	An Intelligent Routing Protocol for MANETs using Radial Basis Function Neural Network	<b>European Journal of Scientific Research(EJSR)</b> , Volume 89 issue3 pp 342-349, October 2012 ISSN: 1456-216X

Sl. No	Year	National / International	Topic / Title	Published By
51	2009	International Journal	A Novel and Proven System for Non-Invasive Blood Glucose Monitoring using Hb Alc	<b>Asian Journal of Applied Sciences, Malaysia</b> Volume 2 Year 2009ISSN Print: 1996-3343 Organizational Affiliation: Knowledge Review, Malaysia ISSN:2321-0893
52	2009	International Journal	Non-invasive Blood Glucose Quantification Using a HybridSensor'	<b>Sensors &amp; Transducers Journal, Belgium</b> (ISSN 1726-5479), Vol.101, Issue 2, February 2009, pp.132-151
53	2009	International Journal	Quantifying blood glucose in non-invasive approach	<b>Inderscience Publications, Switzerland, International Journal of Medical engineering and informatics</b> IJMEI-0908-05Vol.2, No.3, 2010 ISSN 1755-0653
54	2008	International Journal	Accurate Estimation of Blood Glucose with Hb Alc quantification by aReliable Photo Acoustic Method	<b>Journal of Engineering and Applied Science, Pakistan</b> Vol. 3, No. 1, pp. 85-93, ISSN 1816-949X
55	2008	International Journal	Sensing Methodology in Non-Invasive Blood Glucose Quantification Involving Photo Acoustic Technique	<b>International Journal of Biomedical Engineering and Consumer Health Informatics</b> , Serials Publication Vol. 1, No. 1, pp. 23-35 ISSN 0973-6727
56	2007	National Journal	Analysis of Blood Glucose level using a Novel Recipe of Photo Acoustic and Alc technique'	<b>Engineering Today, India, January 2007, pp. 33-40</b>

## • International Conferences

Sl. No.	Year	National / International	Topic / Title	Organized By	Period
1	2006	International	Combinational Boon of Blended Photo-Acoustic Spectroscopy And Alc Techniques in Blood Glucose Quantification	<b>IEEE International Conference</b> on Signal and Image Processing, Hubli, Karnataka	7-9 Dec 2006
2	2006	International	Presented a paper on 'A Novel Innovation In Non- Invasive Blood Glucose Quantification Employing A Fusion of Photo Acoustic Spectroscopy And Alc technique	<b>Society For Biomaterials</b> and Artificial Organs, India held at <b>IIT, Kanpur</b>	8-11 Dec 2006.
3	2007	International	Novel Innovation in Vivo Glucose Quantification Employing Photo Acoustic Sensors and Alc Technique	<b>International Association of Science and Technology</b> For Development in the name of Bio-MED 2007, <b>Innsburg,Austria</b>	14-16, Feb 2007
4	2007	International	Analysis of Blood Glucose Level Using a Novel Recipe of Photo Acoustic (PAS) and Alc Technique	<b>Advances in Electronics and Communication</b> (icon ADELCO 2007), Kovilpatti. India	1-3 Feb2007

5	2008	International Symposium	Sensing Methodology in Non- Invasive Blood Glucose Quantification Involving Photo Acoustic Technique	<b>International Symposium on Global Trends in Bio Medical Informatics Research and Education, Chennai.</b>	Jan 11- 12, 2008
6	2009	International	Non-invasive observation of micro vascular vasomotive activity using laser Doppler and Lab view	<b>2<sup>nd</sup> International Conference On Biomedical Informatics and Signal Processing, SSN College of Engineering, Chennai</b>	12-14 March 2009
7	2009	International	Measurement of Microvascular blood flow parameters using laser Doppler and Lab view	<b>25<sup>th</sup> Southern Biomedical Engineering conference. FIU-Florida International University, Miami-USA.</b>	May15-17, 2009
8	2009	International	A neural network based multicast adhoc on demand distance vector protocol for mobile adhoc networks	<b>Vidya Vikas Institute of Engineering and Technology, Mysore</b>	14 August 2009
9	2009	International	Reliable MAODV Protocol for mobile adhoc networks using RBF neural networks	<b>IETE Bangalore Centre, Bangalore</b>	Oct 7-10, 2009
10	2009	International	Control System Design of Blood Glucose Regulation in ICU Patients	<b>World academy of Science, Bangkok, Thailand</b>	Dec 25-27, 2009
11	2011	International	Embedded Based Controller Design for Blood Glucose Regulations in Type-I Diabetics	International Conference on <b>Adaptive Technologies for Sustainable Growth (ICATS-2011)</b> , Paavai Engineering College	June16-18, 2011
12	2011	International	Self-Organizing Map-Multicast Zone Routing Potocol (SOM- MZRP) in Mobile Adhoc Networks (MANETs)	International Conference on <b>Adaptive Technologies for Sustainable Growth (ICATS-2011)</b> , Paavai Engineering College	June16-18, 2011
13	2012	International	Low power CSE method for the synthesis of FIR filter	International Conference on <b>Computational Intelligence and its Applications (ICCIA-2012)</b> , Vivekanandha Institute of Engineering and Technology for Women	March 1-3, 2012
14	2012	International	A Case study of power optimization Technique for energy efficient semiconductor Design	International Conference on <b>Computing and Communication Technology (ICCCT '12)</b> , Immanuel Arasar J J College of Engineering, Nattalam, Marthandam.	30 <sup>th</sup> -31 <sup>st</sup> May 2012

15	2012	International	Control System Design for Glucose-Insulin regulation in Type-I diabetes	International conference <b>IETSD 2012</b> , Bannari Amman Institute of Technology, Sathy.	3-5 Sep 2012
16	2014	International	EEG signal based person authentication	International Conferences on Business, Science and Technology (ICBST- 2014), Hatyai, Thailand	25th - 26th April 2014
17	2016	International	Brain Computer Interface for the disabled people based on EEG signal for Human Interaction	International Conference on Innovations in Electronics & Communication Engineering (ICIECE- 2016) at Guru Nanak Institutions, Hyderabad India	8th and 9th July, 2016

### Awards :

- **“Green9 Energy Excellence Award”** from Vision 2020 Conference at Sri Ramakrishna College, Tamil Nadu on 20<sup>th</sup> May 2018.
- **“Academic Best Researcher Award”** from ASDF Global Awards.

### Country Visited

Country visited	From – To	Purpose of visit
Malaysia	25 <sup>th</sup> -26 <sup>th</sup> April 2014	International Conferences on Business, Science and Technology (ICBST-2014), Malaysia
Thailand	Dec 25 <sup>th</sup> -27 <sup>th</sup> Dec. 2009	World academy of Science, Bangkok, Thailand
Austria	14 <sup>th</sup> -16 <sup>th</sup> Feb. 2007	International Association of Science and Technology For Development in the name of Bio-MED 2007, Innsburg, Austria

### Membership in Professional Societies

S.No.	Name of the Society	Nature of Membership	Membership Dated
1	BMESI	Life Member	2002
2	FUWAI	Fellow Member	2004
3	IEEE	Life Member	2008
4.	ISTE	Life Member	2008
5.	IETE	Life Member	2021
6.	CSI	Life Member	2021
7.	ICI	Life Member	2021

## Books Published

S.No	Title	Publisher	Year of Publication
1	Electronic Devices	Charulatha Publications	2016
2	Circuit Theory	Charulatha Publications	2016
3	Control System	Charulatha Publications	2016
4	Circuit Analysis	Charulatha Publications	2017
5	Basic Electrical and Electronics Engineering	Charulatha Publications	2017

## Research Activities

**Total no. of Research Scholars      13**

**Degree Awarded      13**

Sl. No.	Name of the scholar & Register No.	Title of The thesis	Name of the University	Year of Reg.	Status
01	<b>R. Arangasamy</b> 10960521003	Investigation of Automatic Blood Glucose Insulin Regulatory System for Type-I Diabetic Patients using Optimized Hybrid Fuzzy Based Controllers in Virtual Simulation Environment	Anna University	Jan. 2009	<b>Completed</b> on26.11.15
02	<b>G. Kavitha</b> 10960522026	Multi Variant Approach for Quality of Service Improvement of Ad Hoc On-Demand Distance Vector (AODV) Routing in Mobile Ad Hoc Networks (MANET)	Anna University	Jan. 2009	<b>Completed</b> on22.04.16
03	<b>R. Kathirvel</b> 10960521019	An Investigation of Support Vector Machine (SVM) Classification Algorithms and Dynamic Image Contrast Enhancement Technique for the Remote Sensing Images	Anna University	Jan. 2009	<b>Completed</b> on18.08.17
04	<b>S. Ananthi Jebaseeli</b> 10990632004	Enhanced Mobility Management for Proxy Mobile IPV6 Network	Anna University	Jan. 2009	<b>Completed</b> on29.12.16
05	<b>S. Vijayakumar</b> 7076052119	Certain Investigation on FPGA Routing Algorithm for Reduction of Power and Delay	Anna University	July 2007	<b>Completed</b> on24.10.17



06	<b>S. Ramani</b> 71050522023	Best Effort and Slack Time Based Network on Chip for Humanizing the Quality of Service Performance in Network	Anna University	July 2010	<b>Completed</b> On 29.12.17
07	<b>R. Jayavadivel</b> 11260631018	Investigation of Quality of Service and Quality of Experience for the Improvement of Video Streaming in Multimedia Networks	Anna University	Jan 2012	<b>Completed</b> on12.04.18
08	<b>K. Nirmaladevi</b> 100960522018	FPGA Design Of Dynamic Routing Architectures For Network On Chip Applications	Anna University	Oct. 2009	<b>Completed</b> on12.09.18
09	<b>S. Elango</b> 71060521006	A Precise ECG Feature Extraction Method for Identifying Multiple Cardiac Disease Prediction Models	Anna University	July 2010	<b>Completed</b> on09.01.19
10	<b>L. Punitha</b> 11160532030	Design of High Speed and Low Power Flip Flop Design in Memory Applications using Micron Technology	Anna University	Jan. 2011	<b>Completed</b> on 11.02.2021
11	<b>M.Sudha</b> 11160532038	Routing Optimization in Mobile Wireless Sensor Networks using Soft Computing Techniques	Anna University	Jan 2011	<b>Completed</b> on19.06.2020
12	<b>S.Tamilarasi</b> 11260532034	Analysis and Classification of EEG Signals for Seizure Detection using Novel SoftComputing Strategies	Anna University	Jan. 2012	<b>Completed</b> on 25.03.2021
13	<b>P. Balashanmuga Vadivu</b> 11260532001	An Effective Approach of EEG Signal Based Human Emotion Recognition Using Advanced Classification Techniques	Anna University	Jan. 2012	<b>Completed</b> on 15.10.2020

## 9.Fee

As per Government Norms

## 10. Admission

### No of seats sanctioned with the year of approval

Course	Intake	Year of approval
BE – Civil	60	2010
BE – CSE	60	2008
BE – EEE	60	2008
BE – ECE	120	2008
BE – Mech	60	2009
MBA	60	2009
ME (Struc)	18	2013
ME (VLSI)	9	2012
ME (PED)	9	2012

## No of students admitted under various categories each year in the last three years

### 2021-22

Course	CIVIL	CSE	EEE	ECE	MECH	MBA	ME ST	ME VLSI	ME PED
OC	0	1	0	1	0	1	0	0	0
BC	8	30	17	51	20	39	1	0	0
BCM	2	9	1	10	1	1	0	0	0
MBC/DNC	2	11	6	19	5	12	1	0	0
MBC V	0	0	0	2	0	1	0	0	0
SCA	0	1	1	3	1	0	0	0	0
SC	2	7	2	11	6	6	0	0	0
ST	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>14</b>	<b>59</b>	<b>27</b>	<b>97</b>	<b>33</b>	<b>60</b>	<b>2</b>	<b>0</b>	<b>0</b>

### 2020-21

Course	CIVIL	CSE	EEE	ECE	MECH	MBA	ME ST	ME VLSI	ME PED
OC	0	1	1	3	0	0	0	0	0
BC	17	29	23	35	29	26	1	0	0
BCM	1	3	3	3	9	1	0	0	0
MBC/DNC	11	12	7	5	8	5	0	0	0
MBC V	0	0	0	0	0	0	0	0	0
SCA	0	1	0	0	1	0	0	0	0
SC	2	8	3	5	4	2	0	0	0
ST	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>31</b>	<b>54</b>	<b>37</b>	<b>51</b>	<b>51</b>	<b>34</b>	<b>1</b>	<b>0</b>	<b>0</b>

### 2019-20

Course	CIVIL	CSE	EEE	ECE	MECH	MBA	ME ST	ME VLSI	ME PED
OC	1	0	0	0	1	0	0	0	0
BC	7	28	9	43	22	13	0	0	0
BCM	0	5	2	10	3	1	0	0	0
MBC/DNC	3	11	5	9	7	5	0	0	0
MBC V	0	0	0	0	0	0	0	0	0
SCA	0	0	0	0	0	0	0	0	0
SC	1	3	0	3	2	2	0	0	0
ST	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>12</b>	<b>47</b>	<b>16</b>	<b>65</b>	<b>35</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Number of applications received during last two years for admission under Management Quota and number admitted**

Course	2021-22	2020-21
BE – Civil	2	0
BE – CSE	20	6
BE – EEE	5	0
BE – ECE	23	0
BE – Mech	6	0
MBA	51	28
ME (Struc)	2	1
ME (VLSI)	0	0
ME (PED)	0	0
<b>Total</b>	<b>109</b>	<b>35</b>

**11. Admission Procedure :**

Government quota : As per Government norms

**UG Courses**

Admission was done based on the Tamil Nadu +2 Exam result.

65% of seats were surrendered to the Government Quota under Single Window System.

35% of seats will be filled by the College under Management Quota through Consortium.

**PG Courses**

UG degree in Engineering for the admission of PG in Engineering

Any degree for the admission of MBA courses

Government Quota seats are filled based on TANCET marks

Management Quota seats are filled through Consortium self-finance colleges

**Calendar for admission against Management / Vacant seats :**

The admission is followed as per the guidelines of Consortium of Private Self Financing Professional Colleges in Tamil Nadu.

## 12.Criteria and Weightages for Admission

### UG Courses

- No Entrance Test, Single Window Counselling following communal reservation. Merit based on cut off marks obtained in Mathematics (100) + Physics (50) + Chemistry (50) in Higher Secondary Examination
- 65% of seats were surrendered to the Government Quota under Single Window System.
- 35% of seats will be filled by the College under Management Quota through Consortium.

### PG Courses

- UG degree in Engineering for the admission of PG in Engineering
- Any degree for the admission of MCA and MBA courses
- Government Quota seats are filled based on TANCET marks
- Management Quota seats are filled through Consortium self-finance colleges

### Cut-off Levels of the candidates in the admission for the last three years

S.No	Name of the Programme	2020-21	2019-20	2018-19
1	B.E – Civil	90	90	90
2	B.E – CSE	160	120	120
3	B.E – EEE	90	90	90
4	B.E – ECE	90	90	90
5	B.E – Mech	90	90	90
6	MBA			
7	M.E Structural			
8	M.E VLSI			
9	M.E PED			

## 13.List of Applicants

Management Seats are allotted through Consortium of Self Financing Professional Colleges in Tamilnadu.

## 14.Results of Admission under Management seats / Vacant seats

- Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over)
- Score of the individual candidate admitted arranged in order of merit

Ranking based on Mathematics, Physics and Chemistry marks obtained by the candidate.

- List of candidate who have been offered admission

S.No	Programme	No.of students admitted under MQ
1	B.E – Civil	2
2	B.E – CSE	22
3	B.E – EEE	5
4	B.E – ECE	24
5	B.E – Mech	6
6	MBA	52
7	M.E Structural	2
8	M.E VLSI	0
9	M.E PED	0

## 15.Information of Infrastructure and Other Resources Available

### Number of Class rooms and size of each

S.NO	ROOM NO.	DESCRIPTION	ICT FACILITIES	AREA
<b>REAR BLOCK – GROUND FLOOR</b>				
1.	RBLH 002	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
2.	RBLH 003	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
3.	RBLH 004	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 32'3"
4.	RBLH 010	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 32'3"
5.	RBLH 011	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
6.	RBLH 012	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
<b>REAR BLOCK – FIRST FLOOR</b>				
7.	RBLH 103	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 32'3"
8.	RBLH 104	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 32'3"
9.	RBLH 105	Lecture hall	WiFi facility	32'3" X 32'3"
10.	RBLH 106	Lecture hall	WiFi facility	32'3" X 32'3"
11.	RBLH 112	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
<b>REAR BLOCK – SECOND FLOOR</b>				
12.	RBLH 214	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
13.	RBLH 215	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 32'3"
14.	RBLH 216	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
<b>REAR BLOCK – THIRD FLOOR</b>				
15.	RBLH 303	Lecture hall	LCD with WiFi facility	32'3" X 32'3"

16.	RBLH 304	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
17.	RBLH 305	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
18.	RBLH 306	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 32'3"
19.	RBLH 312	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 32'3"
20.	RBLH 313	Lecture hall	LCD with WiFi facility	32'3" X 32'3"
<b>MAIN BLOCK – FIRST FLOOR</b>				
21.	MBLH 105	Lecture hall	WiFi facility	32'3" X 30'0"
22.	MBLH 107	Lecture hall	LCD with WiFi facility	32'3" X 30'0"
23.	MBLH 108	Lecture hall	LCD with WiFi facility	32'3" X 30'0"
24.	MBLH 110	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 30'0"
25.	MBLH 111	Lecture hall	LCD with WiFi facility	32'3" X 30'0"
26.	MBLH 113	Lecture hall	LCD with WiFi facility	32'3" X 30'0"
27.	MBLH 114	Lecture hall	LCD with WiFi facility	32'3" X 30'0"
<b>MAIN BLOCK – SECOND FLOOR</b>				
28.	MBLH 207	Lecture hall	LCD with WiFi facility	32'3" X 30'0"
29.	MBLH 209	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 30'0"
30.	MBLH 210	Lecture hall	LCD with WiFi facility	32'3" X 30'0"
<b>MAIN BLOCK – THIRD FLOOR</b>				
31.	MBLH 304	Lecture hall	Interactive board, speakers & LCD with WiFi facility	32'3" X 30'0"
32.	MBLH 305	Lecture hall	LCD with WiFi facility	32'3" X 30'0"

### Number of Tutorial rooms and size of each

S.NO	ROOM NO.	DESCRIPTION	AREA
1.	RBTH 207	Tutorial hall	21'10" X 32'3"
2.	RBTH 208	Tutorial hall	21'10" X 32'3"
3.	RBTH 307	Tutorial hall	12'0" X 9'0"
4.	MBTH 202	Tutorial hall	32'3" X 30'0"
5.	MBTH 302	Tutorial hall	32'3" X 30'0"
6.	MBTH 306	Tutorial hall	32'3" X 30'0"
7.	MBTH 313	Tutorial hall	32'3" X 30'0"

## Number of Laboratories and size of each

S.NO	ROOM NO.	DESCRIPTION	AREA
<b>REAR BLOCK – FIRST FLOOR</b>			
1.	RB 101	Computer Aided Design & Drawing Laboratory	38'6" X 32'3"
2.	RB 108	Power Electronics Laboratory	38'6" X 59'9"
3.	RB 109	Microprocessor & Microcontroller Laboratory	38'6" X 59'9"
4.	RB 116	Power System & Simulation Laboratory	38'6" X 32'3"
<b>REAR BLOCK – SECOND FLOOR</b>			
5.	RB 201	Electrical Drives & Control Laboratory	38'6" X 32'3"
6.	RB 219	Optical Communication Laboratory	33'1.5" X 54'3"
<b>REAR BLOCK – THIRD FLOOR</b>			
7.	RB 301	Digital Signal Processing Laboratory	38'6" X 32'3"
8.	RB 308	Electronics Laboratory	38'6" X 59'9"
9.	RB 309	Linear Integrated Circuit Laboratory	38'6" X 59'9"
10.	RB 315	Embedded Laboratory	38'6" X 32'3"
11.	RB 316	Microprocessor & Microcontroller Laboratory	38'6" X 54'3"
<b>MAIN BLOCK – GROUND FLOOR</b>			
12.	MB 017	Chemistry laboratory	44'3" X 50'9"
<b>MAIN BLOCK – FIRST FLOOR</b>			
13.	MB 102	Physics laboratory	44'3" X 50'9"
14.	MB 115	CADD & CAM lab	44'3" X 50'9"
<b>MAIN BLOCK – SECOND FLOOR</b>			
15.	MB 214	CSE Main Laboratory	44'3" X 50'9"
<b>MAIN BLOCK – THIRD FLOOR</b>			
16.	MB 307	CISCO Laboratory	32'3" X 30'0"
17.	MB 308	Computer Laboratory	32'3" X 30'0"
18.	MB 310	Multimedia & Graphics Laboratory	32'3" X 30'0"
19.	MB 311	OOAD Laboratory	32'3" X 30'0"
20.	MB 314	English Laboratory	32'3" X 30'0"
21.	MB 316	Internet Laboratory	32'3" X 30'0"
22.	MB 317	Computer practices Laboratory	32'3" X 30'0"
23.	MB 318	Communication Laboratory	44'3" X 50'9"
<b>HILL BLOCK – GROUND FLOOR</b>			
24.	HB 001	Advanced Structural Engineering Laboratory	38'6" X 42'0"
25.	HB 002	Thermal Engineering Laboratory	38'6" X 109'6"
26.	HB 003	Manufacturing Technology Laboratory	38'6" X 58'9"
27.	HB 004	Fluid Mechanics Laboratory	38'6" X 55'9"
28.	HB 005	Strength of Materials Laboratory	38'6" X 55'9"
29.	HB 006	Electrical Machines Laboratory	38'6" X 86'0"
30.	HB 007	Surveying Laboratory	22'0" X 38'6"
<b>HILL BLOCK – FIRST FLOOR</b>			
31.	HB 101	Metrology & Measurements Laboratory	38'6" X 42'0"

32.	HB 102	Dynamics of Machines Laboratory	38'6" X 42'0"
33.	HB 103	Mechatronics Laboratory	38'6" X 42'0"
34.	HB 105	Soil Mechanics Laboratory	38'6" X 52'9"
35.	HB 106	Concrete & Highway Engineering Laboratory	38'6" X 52'9"
36.	HB 107	Environmental Engineering Laboratory	38'6" X 54'3"
37.	W1 , W2	Work shop	209'0" X 38'6"
38.	EPL	Engineering practice Laboratory	38'6" X 86'0"

### Number of Drawing Halls with capacity of each

S.NO	ROOM NO.	DESCRIPTION	CAPACITY
1.	MBDH 206	Drawing hall	60
2.	HBDH 104	Drawing hall	120
3.	HBDH 108	Drawing hall	60

### Number of Computer Centers with Capacity of each

S.No	COMPUTER CENTRES	CAPACITY
1.	CIVILCADD Lab	37
2.	CSEMainlab	60
3.	CPLab	60
4.	OOAD &MULTILAB	72
5.	CISCOLAB	37
6.	VLSI lab inECE	36
7.	Embedded Lab inECE	36
8.	PSSLab inEEE	36
9.	CAD/CAM lab in MECH	62
10.	COMMUNICATION LAB in English	37
11.	MBA Lab	36
12.	INTERNET Lab	60
13	Digital Library	09
	<b>TOTAL</b>	<b>578</b>

### Central Examination Facility, Number of rooms and capacity of each

S.NO	ROOM NO.	DESCRIPTION	AREA	CAPACITY
1.	RBLH 002	Lecture hall	32'3" X 32'3"	29
2.	RBLH 003	Lecture hall	32'3" X 32'3"	29
3.	RBLH 004	Lecture hall	32'3" X 32'3"	29
4.	RBLH 010	Lecture hall	32'3" X 32'3"	29



5.	RBLH 011	Lecture hall	32'3" X 32'3"	29
6.	RBLH 012	Lecture hall	32'3" X 32'3"	29
7.	RBLH 103	Lecture hall	32'3" X 32'3"	29
8.	RBLH 104	Lecture hall	32'3" X 32'3"	29
9.	RBLH 105	Lecture hall	32'3" X 32'3"	29
10.	RBLH 106	Lecture hall	32'3" X 32'3"	29
11.	RBLH 112	Lecture hall	32'3" X 32'3"	29
12.	RBLH 214	Lecture hall	32'3" X 32'3"	29
13.	RBLH 215	Lecture hall	32'3" X 32'3"	29
14.	RBLH 216	Lecture hall	32'3" X 32'3"	29
15.	RBLH 303	Lecture hall	32'3" X 32'3"	29
16.	RBLH 304	Lecture hall	32'3" X 32'3"	29
17.	RBLH 305	Lecture hall	32'3" X 32'3"	29
18.	RBLH 306	Lecture hall	32'3" X 32'3"	29
19.	RBLH 312	Lecture hall	32'3" X 32'3"	29
20.	RBLH 313	Lecture hall	32'3" X 32'3"	29
21.	MBLH 105	Lecture hall	32'3" X 30'0"	29
22.	MBLH 107	Lecture hall	32'3" X 30'0"	29
23.	MBLH 108	Lecture hall	32'3" X 30'0"	29
24.	MBLH 110	Lecture hall	32'3" X 30'0"	29
25.	MBLH 111	Lecture hall	32'3" X 30'0"	29
26.	MBLH 113	Lecture hall	32'3" X 30'0"	29
27.	MBLH 114	Lecture hall	32'3" X 30'0"	29
28.	MBLH 207	Lecture hall	32'3" X 30'0"	29
29.	MBLH 209	Lecture hall	32'3" X 30'0"	29
30.	MBLH 210	Lecture hall	32'3" X 30'0"	29
31.	MBLH 304	Lecture hall	32'3" X 30'0"	29
32.	MBLH 305	Lecture hall	32'3" X 30'0"	29
33.	MBDH 206	Drawing hall	32'3" X 30'0"	60
34.	HBDH 104	Drawing hall	38'6" X 52'9"	120
35.	HBDH 108	Drawing hall	38'6" X 32'3"	60

### Online examination facility (Number of Nodes, Internet bandwidth, etc)

Internet bandwidth - 100 Mbps

Number of Computers - 578

S.No	LabName	No of Computers for Students Usage
1.	CIVILCADD Lab	37
2.	CSEMainlab	60
3.	CPLab	60

4.	OOAD &MULTILAB	72
5.	CISCOLAB	37
6.	VLSI lab inECE	36
7.	Embedded Lab inECE	36
8.	PSSLabinEEE	36
9.	CAD/CAM lab inMECH	62
10.	COMMUNICATION LAB inEnglish	37
11.	MBALab	36
12.	INTERNETLab	60
13	Digital Library	09
	<b>TOTAL</b>	<b>578</b>

### Barrier Free Build Environment for disables and elderly persons

S.NO	ROOM NO.	DESCRIPTION	AREA
<b>REAR BLOCK – GROUND FLOOR</b>			
1.	RB 008	Disabled Rest Room – gents	13'6" X 28'3"
2.	RB 013	Disabled Rest Room – ladies	13'6" X 28'3"
<b>MAIN BLOCK – GROUND FLOOR</b>			
3.	MB 003	Disabled Rest Room - ladies	21'3" X 30'0"
4.	MB 013	Disabled Rest Room - gents	21'3" X 30'0"

# Occupancy Certificate

**D.Dis.4250/2020/B3**

TALUK OFFICE,  
NATHAM  
DATE:08 .05.2021.

**FORM - D**

(Form of License under sub-section (1) of section 6 of the Madras Public Buildings (Licensing Act 1965, (Madras Act 13 of 1965) Referred to in rule 6 of the Madras Public Buildings (Licensing) Rules 1966

## LICENSE

**License No.02/2017**  
**Registration No.59/2017.**

Fees Rs.1000/-

License is hereby granted to the **NPR COLLEGE OF ENGINEERING AND TECHNOLOGY,NPR NAGAR,ULUPPAKUDI VILLAGE,PUNNAIPATTI PANCHAYAT, NATHAM TALUK, DINDIGUL**

**DISTRICT** for the purpose and in respect of the building specified in the statement below for the period mentioned hereunder.

(1) The period of validity of the license shall be from **31.05.2021** to **01.06.2023**.

### STATEMENT TO ACCOMPANY THE LICENSE

Location of the building (Door No.Street No. and Name of the Place)	Purpose for which the building is licensed to be used as a public building	Number of persons to be Accommodated
<p>SURVEY NO.616/6,7&amp;8  SURVEY No.606/2,3&amp;4  607/3,4,5,&amp;6  NPR COLLEGE OF ENGINEERING AND TECHNOLOGY,  NPR NAGAR,ULUPPAKUDI VILLAGE, PUNNAIPATTI PANCHAYAT,  NATHAM TALUK,  DINDIGUL DISTRICT.  (1.MAIN BLOCK,  2.BLOCK-II  3.WORKSHOP-BLOCK I&amp;II AND  P.G.LAB  4.WORK SHOP UNIT 1&amp;2.)</p>	<p><b>FOR EDUCATION PURPOSE</b></p>	<p><b>1548 STUDENTS</b></p>

TAHSILDAR  
NATHAM

TO  
THE PRINCIPAL,  
NPR COLLEGE OF ENGINEERING AND TECHNOLOGY,  
NPR NAGAR, ULUPPAKUDI VILLAGE,  
PUNNAPATTI PANCHAYAT,  
NATHAM TALUK,  
DINDIGUL DISTRICT..



# Fire and Safety Certificate

## TAMIL NADU FIRE - RESCUE SERVICES FIRE SERVICE LICENCE

(Under Section 13 of the Tamil Nadu Fire Service Act 1985  
and with Tamil Nadu Service-Rules 1990-Appendix-III)

Licence No: 366/ 2021

K.Dis No: 3227/C2/2021

Date: 08.04.2021

Licence is hereby granted under Section 13 of the Tamil Nadu Fire Service Act 1985, for **RUNNING A ENGINEERING COLLEGE** within the jurisdiction **NATHAM TALUK, S.F.NO: 616/6,7,8, 606/2,3,4,** at the premises, **M/S.NPR COLLEGE OF ENGINEERING COLLEGE & TECHNOLOGY, N.P.R NAGAR, DINDIGUL MAIN ROAD, NATHAM TALUK, DINDIGUL DISTRICT.** subject to the conditions noted thereon and other conditions as may be prescribed.


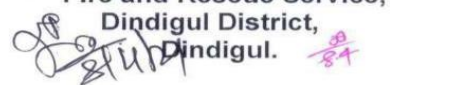
THE ABOVE PREMISES INSPECTED BY MR. P.THIRUKOL NATHAR - STATION OFFICER - NATHAM ON : 01.04.2021

### CONDITIONS

As per Col.13 of Appendix V to the Rules under section 13 of the Act

1. This Licence is valid for one year from the date of issue.
2. The applicant will also get permission/No objection certificate from other department if necessary.
3. If the extension or alteration is made in the existing building and also for Changing of present business will also apply & get separate permission.
4. Regular Licence has to be obtained from competent authority.
5. All the Fire Extinguishers have to be recharged and maintained periodically as per code of practice in 2190/2010.
6. Advise to train the employee to operate the Fire Extinguisher.
7. If there is any deviation from the Govt. Rules and Act the licence stand cancelled.



  
District Officer  
Fire and Rescue Service,  
Dindigul District,  
Dindigul. 

To  
**M/S.NPR COLLEGE OF ENGINEERING COLLEGE & TECHNOLOGY,  
N.P.R NAGAR,  
DINDIGUL MAIN ROAD,  
NATHAM TALUK,  
DINDIGUL DISTRICT.**

Copy To: Joint Director, Fire and Rescue Service, Western Region, Coimbatore-18.

## Hostel Facilities

The institution provides separate hostel for boys and girls equipped with gym, hygiene and tasty food with proper mess facility.

Boys Hostel : 100 Rooms

Girls Hostel : 57 Rooms

## Library

### Number of Library books / Titles / Journals available (Programme-wise)

S.No	Name of the programme	Available	
		Titles	Volumes
1	Science & Humanities	452	4419
2	Computer Science Engineering	1109	4978
3	Information Technology	397	2134
4	Electrical and Electronics Engineering	621	4785
5	Electronics and Communication Engineering	941	4784
6	Mechanical Engineering	779	5027
7	Civil Engineering	759	3436
8	ME- CSE	125	394
9	ME-VLSI	115	366
10	ME-Structural Engineering	91	444
11	ME-Power Electronics and Drives	66	310
12	MBA	664	1843
<b>TOTAL</b>		<b>6119</b>	<b>32920</b>

### List of online National / International Journals subscribed

S.No.	Name of the course	No of Journals	
		National	International
1	B. E – CSE	6	6
2	B. E – ECE	12	12
3	B. E - EEE	6	6
4	B. E – MECH	6	6
5	B. E – CIVIL	6	6
6	ME-Structural	6	6
7	ME-VLSI	6	6
8	MBA	12	12
9	S&H	2	1
	Total	<b>62</b>	<b>61</b>



## List of online National / International Journals subscribed

S.No	Subscriptions	No. of E-resources	Remarks
1	Delnet	45,000 Journals	-
2	NDL	80,553,490 Resources	Open access
3	E-Shodh Ganga	3,25,000 Thesis	Open access
4	E-ShodhSindhu	10,000 Journals	-
5	J-Gate	58,817Journals	-
6	Springer open	2200 Journals	Open access

## E-Library facilities

S.No	Subscriptions	Link for Access
1	Delnet	<a href="http://164.100.247.26/">http://164.100.247.26/</a>
2	NDL	<a href="https://ndl.iitkgp.ac.in/">https://ndl.iitkgp.ac.in/</a>
3	NPTEL	<a href="https://nptel.ac.in/">https://nptel.ac.in/</a>
4	E-Shodh Ganga	<a href="https://shodhganga.inflibnet.ac.in/">https://shodhganga.inflibnet.ac.in/</a>
5	E-ShodhSindhu	<a href="https://ess.inflibnet.ac.in/">https://ess.inflibnet.ac.in/</a>
6	J-Gate	<a href="https://jgateplus.com/home/">https://jgateplus.com/home/</a>
7	Springer open	<a href="https://www.springeropen.com/journals">https://www.springeropen.com/journals</a>

## National Digital Library (NDL) subscription details

**Link for Access** : <https://ndl.iitkgp.ac.in/>

**No. of E-resources** : 80,553,490 Resources

## Laboratory

- List of Major Equipment/Facilities in each Laboratory / Workshop
- List of Experimental setup in each Laboratory / Workshop

**DEPARTMENT OF CIVIL ENGINEERING**  
**LAB FACILITIES- MAJOR EQUIPMENTS**

**CONCRETE AND HIGHWAY ENGINEERING LABORATORY**



**Description**

The laboratory serves a wide spectrum of activities covering those related to teaching, research, development and consultancy. This lab includes major equipment's electronic universal testing machine, compressive testing machine, flexural testing machine, concrete mixer, mortar mixer etc.,

Total Area Of The Lab                      =    2030.00 Sq.ft

**List of Equipment's**

1. Concrete Cube Moulds
2. Concrete Cylinder Moulds
3. Concrete Prism Moulds
4. Sieves
5. Concrete Mixer
6. Slump Cone
7. Flow table
8. Vibrator
9. Trowels and Planners
10. UTM – 400 KN Capacity
11. VEE BEE Consistometer
12. Aggregate Impact Testing Machine
13. CBR Apparatus
14. Blaine's Apparatus
15. Los - Angeles Abrasion Testing Machine
16. Marshall Stability Apparatus

**Capabilities:**

- To determine the property of bitumen

- To determine the property of concrete in fresh and hardened state.
- To find out the properties of construction materials like fine aggregate and coarse aggregate

### **COMPUTER AIDED DESIGN AND DRAFTING LABORATORY**



#### **Description**

The CADD laboratory in NPRCET is a central facility available with the Department of Civil Engineering, wherein all the students of the College (UG & PG) and faculty Members can work with 2-D and 3-D design and analysis packages using softwares like AUTOCAD, STAADPro, REVIT Architecture.

TOTAL AREA OF THE CADD LAB                      =    1545.00 Sq.ft

#### **List of Equipment's**

1. Computers
2. Analysis and Design Software

#### **Capabilities:**

- To draw the plan, elevation and section of the structures using Auto CAD.
- To draw the reinforcement details in beam, column and slabs using Auto CAD.
- To analyze the structures by using STADD pro.

### **SURVEYING LABORATORY**





### **Description**

Surveying is important and most of us depend on it so as to ensure order in the physical world around us. Surveyors play an integral role in land development, from the planning and design of land subdivisions through to the final construction of roads, utilities and landscaping. In this well equipped lab we have advanced instruments like Total station, Hand held GPS receiver, Theodolite, Dumpy level etc.,

TOTAL AREA OF THE LAB = 610.00 Sq.ft

### **List of Equipment's**

1. Total station
2. Theodolites
3. Dumpy level
4. Pocket stereoscope
5. Ranging rods
6. Leveling staff
7. Cross staff
8. Chains
9. Tapes
10. Arrows
11. Prismatic compass
12. Surveyor compass
13. GPS

### **Capabilities:**

- To calculate the area of buildings / land.
- To measure the reduced level of the objects.
- To find the horizontal and vertical angles of the objects.

## SOIL MECHANICS LABORATORY



### Description

The Soil Mechanics Laboratory hosts the laboratory sessions for the third year Soil Mechanics modules of the Civil Engineering degree. The Laboratory contains equipment to carry out soil classification tests, compaction tests, permeability tests, direct shear tests, triaxial tests, unconfined compression tests on soil samples.

Total area of the lab = 2030.00 Sq.ft

### LIST OF EQUIPMENTS

1. Sieves
2. Hydrometer
3. Liquid And Plastic Limit Apparatus
4. Shrinkage Limit Apparatus
5. Proctor Compaction Apparatus
6. UTM Of Minimum Of 20kn Capacity
7. Direct Shear Apparatus
8. Thermometer
9. A) Sand Replacement Method Accessories  
B) Core Cutter Method Accessories
10. Tri-Axial Shear Apparatus
11. Three Gang Consolidation Test Device
12. Relative Density Apparatus
13. Vane Shear Apparatus
14. Weighing Machine – 20kg Capacity
15. Weighing Machine – 1kg Capacity

**Capabilities:**

- To analyze the properties of soil
- To determine the particles size distribution of the soil
- To measure the shear strength of soil using direct shear, triaxial test and UCC

**ENVIRONMENTAL ENGINEERING LABORATORY****Description**

Our Environmental Engineering laboratory consists of various equipments with extensive experiment..This laboratory capable of handling experiments on water sample analysis facilitating the characterization including oxygen demand ,nitrate ,phosphate, sodium, potassium, and calcium, using spectrophotometer analysis technique.

Total area of the lab                      =    5115.00 Sq. ft.

**LIST OF EQUIPMENTS**

1. Nephelo - turbidity meter
2. Spectrophotometer
3. Ph meter
4. Hot air oven
5. Incinerator
6. Bod incubator
7. Cod analyser
8. Jar test apparatus
9. Muffle furnace

**Capabilities:**

- To analyse the chemical and biological characteristics of drinking water and sewage water.

## HYDRAULIC ENGINEERING LABORATORY



### Description

Facilities and equipment on site can test valves, flow meters, and pumps for:

Flow capacity

Pressure loss

Energy output and efficiency

Total area of the lab = 2030.00 Sq.ft.

### LIST OF EQUIPMENTS

1. Rotameter
2. Venturimeter/orifice meter
3. Bernoulli's experimental set up
4. Centrifugal pump
5. Gear pump
6. Submersible pump
7. Reciprocating pump
8. Pelton wheel turbine
9. Francis turbine
10. Kaplan turbine
11. Equipment for determination of metacentric height
12. Friction factor in pipes
13. Determination of minor losses.

**Capabilities:**

- To compare the efficiency of turbines, pumps
- To measure the discharge of flowing water

**STRENGTH OF MATERIALS LABORATORY****Description**

Strength of materials laboratory offers facilities for testing building materials and machine components for finding their strength, behaviour and suitability for various field applications.

Total area of the lab = 2030.00 Sq.ft

**LIST OF EQUIPMENTS**

1. UTM of 400 kN capacity
2. Torsion testing machine
3. Izod impact testing machine
4. Hardness testing machine rockwell / brinell
5. Beam deflection test apparatus
6. Extensometer
7. Compressometer
8. Dial gauges
9. Le chatelier's apparatus
10. Vicat's apparatus
11. Mortar cube moulds

**Capabilities:**

- To determine the properties of steel specimens

To determine the properties of materials like aluminium, brass.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

## Laboratory Details

S.No	Lab Name	Specification	Total No Systems
1	CSE Main Lab	Acer Pc RAM -2GB/4GB, HDD-250GB, Processor -Dual Core Monitor-18.5"	60
2	OOAD Lab	Acer PC RAM-2GB, HDD -320GB/250GB Processor -Dual Core SizeofMonitor-18.5"	60
3	CP Lab	Acer Pc RAM-2GB/4GB HDD -250GB/320GB, Processor -Dual Core SizeofMonitor-18.5"	60

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### LAB FACILITIES

#### Communication Lab



#### Description:

The purpose of the communication laboratory is to provide efficient training in understanding the basic concepts of communication practically. The laboratory is well equipped with the best analog and digital communication trainer kits. The students can have hands on experience with the test and measurement instruments such as signal generators and analog oscilloscopes. Also the students are well exposed to use the analyzing devices like spectrum analyzer and antenna systems.

#### Major Equipments & Software:

- CRO – 20 MHz
- Function Generator (1 MHz )
- Power Supply ( 0 - 30 Volts Variable )
- AM Transceiver Kit, FM Transceiver Kit
- PAM,PPM,PWM, PCM /DM/ ADM Trainer Kits

- Line Coding & Decoding Kit
- ASK,PSK,FSK,QPSK Trainer Kits
- Sampling & TDM trainer kit
- Matlab (Communication tool box)
- Fiber Link-E Fiber Optic Trainer Kit Based On Laser Diode & Glass Fiber
- 850nm LED & PIN Diode Module
- Current Source (0-100ma), Power Source – Optical
- Optical Power Meter, Fiber Optic Trainer Kit
- Coupling Fiber To Semiconductor Sources
- Mode Observation Of Fiber Optic Cable Modules
- Power Meter (Mw)
- Reflex Klystron, Horn Antenna
- Gunn diode, Gunn oscillator
- VSWR meter, Frequency meter
- Directional couplers, circulator, isolator, matched terminations, slotted sections, H plane tee, E plane Tee, Magic Tee

#### **Capabilities:**

- To implement AM & FM modulation and demodulation, PCM, DM, FSK, PSK, DPSK schemes, Equalization algorithms and Error control coding schemes.
- To analyze the characteristics of Reflex Klystron, Gunn Diode Oscillator,
- To measure VSWR, Frequency and Wavelength
- Study of Power Distribution of Directional Coupler, E-Plane Tee, H-Plane Tee, Magic Tee, Isolator, Circulator, Attenuation and Power Measurement,
- To measure the radiation Pattern of various antennas.
- To analyze the characteristics of LED, LASER, PIN Diode,
- To measure various Losses, Attenuation, Mode characteristics of fiber, Wavelength Division Multiplexing and Demultiplexing, Data Communication using single mode fiber optic System etc.

#### **Electronics Circuits Lab**



#### **Description:**

The Electronics lab is equipped with the best professional electronic test & Measurement instruments, such as signal generators & analog oscilloscopes. The Laboratory inculcates the students with the basic idea of circuit designing and debugging. The students utilize the lab for exhibiting & demonstrating their electronics related experiments & projects. The lab also provides the students with the knowledge of the software PSPICE.

**Major Equipments & Software:**

- Variable DC Power Supply (0-30V)
- CRO 20MHz
- Multimeter (Analog & Digital)
- Function Generator 1MHz
- DC Ammeter and Voltmeter
- Decade Inductance Box
- Decade Resistance Box

**Capabilities:**

- Characteristics of diode, zener diode, LED, SCR
- To design clipper, clamper, FWR
- Characteristics of CE, CB, CC Amplifier,
- Transfer characteristic of differential amplifier and frequency response of CS Amplifiers.
- Bandwidth of single stage, multistage amplifiers
- Perform Spice simulation of electronic circuits.
- Verification of various theorems
- To find the resonance frequency of RLC series and parallel circuits

**DSP / VLSI Lab****Description:**

Students can do various experiments related to signal processing and image processing using MATLAB. DSP processor kits are used to write assembly coding related to signal processing experiments. Advanced features and techniques of VLSI design provide students the necessary training to develop complex VLSI systems and enables them to improve their designs by using the tools available in the laboratory. Labs provide hands-on experience with the development, verification, debugging and simulation of a VLSI system.

**Major Equipments & Software:**

- PCs with Fixed / Floating point DSP
- Processors (TMS320c5x & TMS320c54x)
- MATLAB with Simulink and Signal Processing Tool Box
- Function Generators (1MHz)
- CRO (20MHz)
- Simulator and Synthesizer tool with downloader (VHDL/Verilog).



- Transistor level Spice modeling tool.
- FPGA kits
- Microwind

**Capabilities:**

- To write various MATLAB programs related to signal processing
- To execute DSP processor kits
- Hands-on experience with the development, verification, debugging and simulation of a VLSI system.

**Microprocessors & Microcontrollers Lab**



**Description:**

This lab has a number of Microprocessor and Microcontroller kits to perform various experiments on applications of Timer, Traffic light system, serial and parallel communication system, Printer interface, Keyboard and display interface, ADC and DAC interface and stepper & DC motor interface.

**Major Equipments & Software:**

- Microprocessor trainer kits (8085, 8086)
- Microcontroller trainer kits (8051)
- Interface boards
- Personal Computer
- CRO
- MASM Software

**Capabilities:**

- To write ALP for fixed and Floating Point Arithmetic
- Interface different I/Os with processor and generate waveforms using Microprocessors.
- To write ALP execute Programs in 8051.

**Digital / LIC Lab**

**Description:**

This lab has number of



Digital trainer kits to perform

various experiments in LIC and digital electronics. This lab has various ICs to design projects.

**Major Equipments & Software:**

- Dual, (0-30V) variable Power Supply
- CRO 30MHz
- Digital Multimeter
- Function Generator 1 MHz
- IC Tester
- Computer (PSPICE installed)
- Potentiometer
- Step-down transformer
- Decade Inductance Box, Decade Resistance Box

**Capabilities:**

- To design adder, subtractor, multiplexer, demultiplexer, parity generator, code converter, comparator
- To analyze various flip flops
- To design synchronous and asynchronous counters, registers
- To design oscillators, amplifiers, filters using operational amplifiers.
- To analyse the working of PLL and use PLL as frequency multiplier.
- Design DC power supply using ICs
- Analyse the performance of oscillators and multivibrators using SPICE.

**Embedded/Network Laboratory**



**Description:**

The student can be able to write embedded C to interface temperature sensor, ADC/DAC, stepper motor, buzzer, LED and LCD. The students will be able to write programs to interface zigbee with embedded processor. Networks Lab allows the students to learn to communicate between two desktop computers and to implement the different protocols like CSMA/CA, CSMA CD, TCP IP and routing algorithms using JAVA, C, NS2, packet tracer.

**Major Equipments & Software:**

- Personal Computers
- Ethernet LAN trainer kit
- Network Simulator Software
- C Compiler
- Java
- Cisco Router, Packet tracer

- IAR Embedded workbench
- LPC2148 Trainer kit
- Zigbee Wireless Communication kit
- PWM & FPGA kit

#### **Capabilities:**

- To learn to communicate between two desktop computers and to implement the different protocols.
- To implement various routing algorithms and makes the students to be familiar with socket programming, simulation tools.

#### **Incubation Centre**



- Incubators centre assists entrepreneurs in developing their business and solving problems associated with it, especially in the initial stages, by providing an array of business and technical services, initial seed funds, lab facilities, advisory, network and linkages.
- 3D Printing machines

#### **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING, ELECTRICAL MACHINES LAB LIST OF EQUIPMENT DETAILS**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1	<u>DC Machine With Loading Arrangement</u> 3 HP DC Shunt Motor 230 V 1500 RPM	3	46,500	1,39,500
2	3 HP DC Series Motor 230 V 1500 RPM	1	43,500	43,500
3	3 HP DC Compound Motor 230 V 1500 RPM	1	45,500	45,500
4	<u>COUPLED SET : DC M/C- DC GEN</u> 5 HP DC Shunt Motor 230 V 1500 RPM Coupled With 3 K.W DC Shunt Generator 230 V 1500 RPM	2	86,500	1,73,000
5	5 HP DC Compound Motor 230 V 1500 RPM Coupled With 3 K.W DC compound Generator 230 V 1500 RPM	2	89,500	1,79,000
6	5 HP DC Compound Motor 230 V 1500 RPM COUPLED WITH 3 K.W DC Series Generator 230 V 1500 RPM	1	89,500	89,500
7	Squirrel cage induction motor 3 HP three phase 1500 RPM ,4 Pole ,frame SI 80/4 with water cooled	3	32,400	97,200
8	Three phase slip ring induction motor , 5 HP ,440 V,1500 RPM ,in drip proof cover	1	58,250	58,250

9	Single phase capacitance start 1 HP Induction motor with water cooled break	2	18,000	36,000
10	3 $\Phi$ , 3 HP auto synchronous motor coupled with 3 HP DC Shunt Motor	1	1,25,000	1,25,000
11	COUPLED SET : DC M/C- DC ALT 5 HP DC Shunt Motor 230 V 1500 RPM COUPLED WITH 3 KVA Alternator 230 V, 1500 RPM	4	86,500	3,46,000
12	5 HP DC Shunt Motor 230 V 1500 RPM COUPLED WITH 3 KVA salient Pole Alternator of 3 $\Phi$	1	86,500	86,500
13	Portable LPF Wattmeter 0-150/300 V/600V;1 A/ 2A	4	5,100	20,400
14	Portable LPF Wattmeter 0-150/300 V/600V;5 A/ 10A	4	5,100	20,400
15	Portable LPF Wattmeter 0-150/300 V/600V; 10A/ 20A	4	5,500	22,000
16	Portable UPF Wattmeter 0-150/300 V/600V;1 A/2A	4	4,600	18,400
17	Portable UPF Wattmeter 0-150/300 V/600V; 5 A/ 10A	4	4,650	18,600
18	Portable UPF Wattmeter 0-150/300 V/600V; 10A/ 20A	2	4,650	9,300
19	Double element Portable LPF Wattmeter 0-150/300 V/600V;5 A/ 10A	2	7,200	14,400
20	Double element Portable LPF Wattmeter 0-150/300 V/600V; 10A/ 20A	2	9,200	18,400
21	AC Portable Ammeter (0- 5A)	2	1,900	3,800
22	DC Portable Ammeter 0- 1A /2A	2	1,900	3,800
23	Automatic star Delta starter	1	8,500	8,500
24	Rheostat 82 $\Omega$ / 1.6 A	2	2,450	4,900
25	Rheostat 200 $\Omega$ / 1.2 A	2	2,000	4,000
26	Rheostat 270 $\Omega$ / 1.4 A	5	2,000	10,000
27	Rheostat 249 $\Omega$ / 1 A	2	2,000	4,000
28	Rheostat 797 $\Omega$ / 0.8 A	2	2,000	4,000
29	Rheostat 40 $\Omega$ / 5 A	6	2,500	15,000
30	Rheostat 249 $\Omega$ / 1 A	4	2,000	8,000
31	Rheostat 685 $\Omega$ / 0.5 A	10	2,000	20,000
32	Rheostat 82 $\Omega$ / 1.6 A	6		0
33	Rheostat 5 $\Omega$ / 20 A	2	9,800	19,600
34	Carbon Rheostat 2.5 $\Omega$ /25Amps	2		0
35	3 $\Phi$ Resistive Load 3 K.W	1	18,500	18,500
36	1 $\Phi$ Resistive Load 2.5 K.W	2	14,000	28,000
37	3 $\Phi$ Variable inductive Load / 10 A	1	31,000	31,000
38	3 $\Phi$ Resistive Load 5 K.W	3	19,500	58,500
39	3 $\Phi$ Resistive Load 7.5 K.W	1	19,500	19,500
40	3 $\Phi$ Auto transformer with enclosure and terminals 440V, 3 $\Phi$ Secondary 0-440 V continuously variable current rating 10 Amps	4	28,000	1,12,000
41	DC 3 Point Starter	1	2,900	2,900
42	DC 4 Point Starter	1	2,900	2,900
43	DOL 4 Point Starter	1	3,900	3,900
44	Manual star delta starter	1	6,500	6,500
45	Semiautomatic star delta starter	1	6,500	6,500
46	Metering and protection : Input 440 V, ac 3 Phase output : 200 – 220 V DC , 0-100 amps panel setup	1	1,75,000	1,75,000
47	1 $\Phi$ Auto transformer with enclosure and terminals 10 Amps	4	10,500	42,000
48	1 $\Phi$ transformer with box rating 1 KVA	7	6,500	45,500

49	3 $\Phi$ transformer with box rating 3 KVA / 440 V	2	21,500	43000
50	SPST Switch with box & terminals	5	1,200	6,000
51	SPDT Switch with box & terminals	2	1,200	2,400
52	DPST Switch with box & terminals	7	1,700	11,900
53	DPDT Switch with box & terminals	3	1,700	5,100
54	TPST Switch with box & terminals	2	1,900	3,800
55	TPDT Switch with box & terminals	2	1,900	3,800
56	AC Main panel+ AC Distribution + DC Distribution	Set	87,500	87,500
57	DC Rectifier Unit with Metering and Protection Input : 22 V AC , I Phase Output: Armature fixed 36 V DC /25 Amps 25 Amps instead of 36 V DC /35 Amps for the same price 15 Amps	1	29,500	29,500
58	<b>DC AMMETER</b> - 22 NO'S 0 – 10 MA	1	1,370	1,370
	0 – 1- 2A	3	1,370	4110
	0 – 2.5 A- 5 A	4	1,370	5,480
	0 - 10 A- 20 A	6	1,370	8,220
	0 – 15 A- 30 A	6	1,370	8,220
	0 – 20 A	2	1,370	2,740
59	<b>AC AMMETER</b> - 21 NO'S 0 – 1- 2A	1	1,190	1,190
	0 – 2.5 A- 5 A	6	1,190	7,140
	0 - 10 A- 20 A	8	1,190	9,520
	0 – 15 A- 30 A	6	1,190	7,140
60	<b>DC VOLTMETER</b> - 20 NO'S 0 – 1 - 2 V	4	1,370	5,480
	0 – 75 - 150V	2	1,370	2,740
	0 – 150 - 300 V	14	1,370	19380
61	<b>AC VOLTMETER</b> -17 NO'S 0 – 75 - 150V	3	1,350	4050
	0 – 150 - 300 V	7	1,350	9,450
	0 – 300 - 600 V	7	1,350	9,450
62	Digital Multi meter	5	700	3,500
63	Power Factor Meter	2	3,125	6,250
<b>TOTAL COST</b>				<b>12,78,080.00</b>

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**MICROPROCESSOR & MICRO CONTROLLER LAB**

**LIST OF EQUIPMENT DETAILS**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1	8085 MICROPROCESSOR KIT	10	8,100.00	81,000.00
2	8086 MICROPROCESSOR KIT	10	14,535.00	1,45,350.00
3	8086 MICROCONTROLLER KIT	10	7,570.00	75,700.00
4	VPMB-13ASTEPPER MOTOR INTERFACE	3	4,130.00	12,390.00
5	8255 INTERFACE CARD	3	2,720.00	8,160.00
6	8251 INTERFACE CARD	3	2,420.00	7,260.00
7	8253 INTERFACE CARD	3	2,420.00	7,260.00
8	ADC- INTERFACE CARD VPMB03	3	3,100.00	9,300.00
9	DAC INTERFACE	3	2,650.00	7,950.00
10	30 MHz CRO DUAL TRACE	5	26,000.00	1,30,000.00
<b>TOTAL COST</b>				<b>2,09,020.00</b>

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**MEASUREMENT AND INSTRUMENTATION LAB**

**LIST OF EQUIPMENT DETAILS**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1	LVDT	1	12890.00	12890.00
2	Bread board	20	150.00	3,000.00
3	CRO	5	17500.00	87,500.00
4	Multi-meter (digital )	10	1400.00	14,000.00
5	Bourdon pressure transducer kit	1	14,810.00	14,810.00
6	Decade resistance box	5	2250.00	11,250.00
7	Measurement of iron loss & permeability of ring specimen Maxwell's bridge	1	25,000.00	25,000.00
8	Decade capacitance box	4+1 =5	2510.00	12,550.00
9	Maxwell's inductance bridge kit	1	4,420.00	4,420.00
10	Decade inductance box	5	2510.00	12,550.00
11	Variable three phase resistive load (10kw)	1	20,000.00	20,000.00
12	Galvanometer	1	600.00	600.00
13	Stopwatch	2	400.00	800.00
14	Schering bridge	1	4,350.00	4,350.00
15	Dual power supply	05+10 =15	7800.00	39,000.00 78,000.00
16	Single power supply	05+10 =15	4800.00	24,000.00 48,000.00
17	Rheostat (1)1.50Ω /5a ; (2) 190 Ω / 1.2 a; (3) 1080 Ω / 0.6 a; (4) 360 Ω / 2 a	2+2+2 +2 =8	1500.00	12,000.00
18	Wheatstone bridge kit	1	3,910.00	3,910.00
19	Kelvin double bridge kit	1	3,380.00	3,380.00
20	Instrumentation amplifier kit	1	7,150.00	7,150.00
21	Operational amplifier kit	1	2,590.00	2,590.00
22	Calibration of current transformer	1	34,480.00	34,480.00
23	ADC 8 channel alone module	1	2,240.00	2,240.00
24	DAC standalone study module	1	2,820.00	2,820.00

25	Series AC /DC circuit trainer	1	3,444.00	3,444.00
26	Single phase energy meter standard Single phase 2.5kw resistive load bank	1	6,830.00	6,830.00
<b>TOTAL COST</b>				<b>4,91,564.00</b>

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**POWER ELECTRONICS DRIVES AND CONTROL LAB**  
**LIST OF EQUIPMENT DETAILS**

SL.NO	DESCRIPTION	QTY
1	Single phase <b>PWM</b> inverter control module ( <b>ITB-PECI16M4#1</b> )	1
2	Single phase <b>H&amp;F</b> controlled bridge converter ( <b>ITB PEC 14HV4D</b> ) (1 $\phi$ SCR power module)	1
3	<b>MOSFET</b> module ( <b>ITB PEC 16M2</b> )	1
4	<b>IGBT</b> power module ( <b>ITB PEC 16M3</b> )	2
5	Chopper control circuitry module ( <b>ITB PEC 16M5</b> )(IGBT/MOSFET chopper control circuit)PEC16HV2B	1
6	Chopper/inverter <b>PWM</b> inverter( <b>PEC 16HV2B</b> )	2
7	1 <b>HP</b> 3 phase <b>AC</b> induction motor with spring balance load setup ( <b>make: Siemens</b> )	1
8	Single phase loading rheostat( <b>make: galaxy</b> )	1
9	Single phase inductive load ( <b>variable load</b> )	1
10	Resistive load ( <b>rheostat; lamp load</b> )	2
11	Inductive load ( <b>tr.type</b> )	2
12	Three phase <b>IGBT</b> based power module ( <b>VPET 106A</b> )smart power module	1
13	Three phase SCR fully controlled converter ( <b>VPET 215</b> )	1
<b>TOTAL COST:</b>		<b>1,79,402.00</b>

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**CONTROL SYSTEM LAB**  
**LIST OF EQUIPMENT DETAILS**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1	Transfer function of DC servo motor	1	54,120.00	54,120.00
2	Transfer function of AC servo motor	1	38,660.00	38,660.00
3	Processes control simulator	1	28,575.00	28,575.00
4	DC-motor and generator transfer function study trainer	1	44,580.00	44,580.00
5	DC -motor generator load test module	1	61,850.00	61,850.00
6	DC -motor load test module	1	38,660.00	38,660.00
7	Stability analysis of linear system	1	19,550.00	19,550.00
8	DC motor position control system	1	38,660.00	38,660.00
9	AC servo position control system	1	38,660.00	38,660.00
10	8085 $\mu$ KIT	1	5,450.00	5,450.00
11	Stepper motor controller with motor	1	4,100.00	4,100.00
12	Digital simulation of linear system	1	48,490.00	48,490.00
13	Digital storage oscilloscope	1	16372.00	16372.00

<b>TOTAL COST</b>	<b>4,37,727.00</b>
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**ENGINEERING PRACTICES LAB**  
**LIST OF EQUIPMENT DETAILS**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1.	Radio receiver trainer	1	2062.00	2,062.00
2.	Voltmeter (150/300/600v)MI	2	1320.00	2,640.00
3.	Single phase energy meter	1	495.00	495.00
4.	Digital multi meter	10	1567.00	15,675.00
5.	Watt meter UPF (150/300/600V/2.5/5A)	2	2145.00	4,290.00
6.	Ammeter portable (5/10A)MI	2	1320.00	2,640.00
7.	Three phase Energy meter	1	990.00	990.00
8.	LCR meter hand type	1	9900.00	9,900.00
<b>TOTAL COST</b>				<b>38,692.00</b>

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**ELECTRON DEVICES & CIRCUITS LABORATORY**  
**LIST OF EQUIPMENT DETAILS**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1	Digital storage oscilloscope	1	16372.00	16,372.00
2	30MHZ 2 Channel 2 trace oscilloscope	12	13,530.00	1,62,360.00
3	LCR meter	2	9,900.00	19,800.00
4	Dual power supply	2	6,435.00	12,870.00
5	1MHZ Function generator	12	6,323.00	75,876.00
6	Single power supply	7	3,960.00	27,720.00
7	Digital multimeter	10	1,567.50	15,675.00
8	Ammeter 100mA	7	1,320.00	9,240.00
9	Ammeter 50mA	5	1,320.00	6,600.00
10	Ammeter 10mA	8	1,320.00	10,560.00
11	Ammeter 20mA	2	1,320.00	2,640.00
12	Ammeter 500mA	2	412.50	825.00
13	Dual ammeter (250/500mA) MC	2	412.50	825.00
14	Dual ammeter (50/100μA) MC	5	412.50	2,062.00
15	Dual ammeter (100/200mA) MC	3	412.50	1,237.50
16	Voltmeter (300V) MC	5	412.50	2,062.00
17	Voltmeter (15/30V) MC	5	412.50	2,062.00
18	Dual Voltmeter (50/100V) MC	5	412.50	2,062.00
19	Dual Voltmeter (10/20V) MC	3	412.50	1,237.50
20	Voltmeter (2V) MC	2	412.50	825.00
21	Transformers	5	288.80	1,444.00
<b>TOTAL COST</b>				<b>3,74,363.00</b>



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**POWER SYSTEM SIMULATION LAB**  
**LIST OF EQUIPMENT DETAILS**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1.	Mat lab R2010b	30	10,638.00	3,19,140.00
2.	Simulink	30	5,318.00	1,59,540.00
3.	Control system toolbox(EE)	30	4,255.00	1,27,650.00
4.	Simpower system	30	10,638.00	3,19,140.00
5	Seagate 2GB Ext. Hard disk	1	6,300.00	6,300.00
6	Printer	3	7,087.48	21,262
7	Computers		Rs.14,182	Rs.5,10,577
<b>TOTAL COST</b>				<b>1,463,609</b>

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**M.E POWER ELECTRONICS AND DRIVES LABORATORY**  
**LIST OF EQUIPMENT**

S.NO	NAME OF EQUIPMENT	QUANTITY	COST	TOTAL COST
1.	Speed control of Converter fed DC motor a. Power Module b.0.5 HP DC Shunt Motor with Spring balance Load Setup	1	Rs.71,440/-	Rs.71,440/-
2.	Speed control of Chopper fed DC motor a. Power Module b.0.5 HP DC Shunt Motor with Spring balance Load Setup c.dsPIC4011 based Chopper fed DC Driver	1	Rs.74,765/-	Rs.74,765/-
3.	V/f control of three-phase induction motor a.Power Module b. dsPIC4011 based AC Driver c.0.5 HP DC Shunt Motor with Spring balance Load Setup	1	Rs.66,005/-	Rs.66,005/-
4.	Micro controller based speed control of Stepper motor a. Power Module b. dsPIC4011 based Stepper motor c. Stepper Motor	1	Rs.11,195/-	Rs.11,195/-
5.	Speed control of BLDC motor a.Power Module	1	Rs.1,55,225/-	Rs.1,55,225/-

	b. dsPIC4011 based BLDC Motor Driver c.0.5 HP BLDC Motor with Spring balance Load Setup			
6.	DSP based speed control of SRM motor a.Power Module b.dsPIC4011 based Driver c.0.5 HP SR Motor with Spring balance Load Setup	1	Rs.1,49,820/-	Rs.1,49,820/-
7.	Design of switched mode power supplies a.Power Module	1	Rs.22,320/-	Rs.22,320/-
8.	Design of UPS a. Power Module b. 12 V/7.5AH Battery	1	Rs.27,690/-	Rs.27,690/-
9.	Voltage Regulation of three-phase Synchronous Generator a. Power Module b. Lamp Load Setup c.1 HP DC Shunt Motor coupled Synchronous Generator	1	Rs.1,42,700/-	Rs.1,42,700/-
10.	Study of power quality analyser a.Power Module b.100 ohm/2A Rheostat c.(0-270V),2A Auto Transformer	1	Rs.67,820/-	Rs.67,820/-
11.	Study of driver circuits and Generation of PWM signals for three phase inverters a.Power Module b.dsPIC 30F4011 based PWM Controller	1	Rs.40,170/-	Rs.40,170/-
12.	PSIM Pro 9.1 (Basic Module) Software	5 Users	Rs.6,32,000/-	Rs.6,32,000/-
13.	Computers	36	Rs.14,182/-	Rs.5,10,577/-
14.	UPS	1	Rs.1,19,047/-	Rs.1,19,047/-
TOTAL COST				Rs.20,90,774

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**ELECTRICAL CIRCUITS LAB**  
**LIST OF EQUIPMENT DETAILS**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1.	30MHZ 2 Channel 2 trace oscilloscope	6	13612.00	81676.00
2.	50MHZ Digital storage oscilloscope	1	16372.00	16372.00
3.	1MHZ Function generator	4	5986.00	23944.00
		2	6323.70	12647.40
4.	Single power supply	3	3960.00	11880.00
5.	Dual power supply	3	6435.00	19305.00
6.	Ammeter (100mA) MC	8	1320.00	10560.00
7.	Ammeter (50mA ) MC	5	1320.00	6600.00
8.	Ammeter (10mA) MC	7	1320.00	9240.00
9.	Ammeter (20mA) MC	3	1320.00	3960.00
10.	DUAL Ammeter (1/2 mA) MC	5	412.40	2062.00
11.	DUAL Ammeter (10/20 mA) MC	6	412.50	2475.00
12.	DUAL Ammeter (250/500 mA) MC	2	412.50	825.00

13.	Digital Ammeter	1	1238.00	1238.00
14.	DUAL Ammeter (100/200 Micro amps) MC	5	412.50	2062.00
15.	DUAL Ammeter (100/200mA ) MC	2	412.50	825.00
16.	Ammeter(5A) MC	4	412.50	1650.00
17.	Ammeter (500mA) MC	2	412.50	825.00
18.	Ammeter (2A) MC	4	412.50	1650.00
19.	Ammeter (2.5/5A) MI	1	1386.00	1386.00
20.	Dual ammeter (5/10mA) MC	6	433.13	2598.75
21.	Dual ammeter (1/2A) MC	4	433.13	1732.50
22.	Dual voltmeter (10/20V) MC	2	412.50	825.00
23.	Voltmeter (2V) MC	3	412.50	1237.00
<b>Total cost</b>				<b>2,17,575.00</b>

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**ELECTRON DEVICES AND CIRCUITS LABORATORY**  
**LIST OF EQUIPMENT DETAILS**

**MAJOR EQUIPMENT LIST**

S.NO	NAME OF EQUIPMENT	QTY	COST	TOTAL COST
1	30 MHZ 2 CHANNEL 2 TRACE OSCILLOSCOPE	12	13,530	1,62,360.00
2	1MHZ FUNCTION GENERATOR	12	6,323	75,876.00
3	SINGLE POWER SUPPLY	7	3,960	27,720.00
4	DUAL POWER SUPPLY	2	412.5	1,237.50
5	TRANSFORMER WITH TERMINALS (12-0-12)V	5	288.8	1,444.00
6	DIGITAL MULTIMETER	10	1,567.50	15,675.00
7	<b>TOTAL VOLTMETERS</b>	<b>104</b>		40,002.00
	VOLTMETER(300 V)	5	412.5	2,062.50
	VOLTMETER(100 V)	10	412.5	3,780.00
	VOLTMETER (50 V/100 V)	5	378	2,062.50
	VOLTMETER (50V)	6	412.5	2,268.00
	VOLTMETER (30 V)	10	378	3,780.00
	VOLTMETER(15 V/30 V)	5	378	2,062.50
	VOLTMETER( 10 V/20 V)	3	412.5	1,237.50
	VOLTMETER 15 V)	10	412.5	3,780.00
	VOLTMETER (10 V)	9	378	3,402.00
	VOLTMETER (5V)	16	378	6,048.00
	VOLTMETER (3 V)	15	378	5,670.00
	VOLTMETER (2 V)	2/3	412.5/378	1,959.00
	VOLTMETER (1 V)	5	412.5	1,890.00
8	<b>TOTAL AMMETERS</b>	<b>84</b>		53,166.00
	AMMETER (500 mA)	10	412.5	4,125.00

	AMMETER (250 mA/500 mA)	2	412.5	825.00
	AMMETER (100 mA)	7/13	1,320/378	14,154.00
	AMMETER (50 mA)	5/6	1,320/378	8,868.00
	AMMETER (25mA)	9	378	3,402.00
	AMMETER (20mA)	2/3	1,320/378	3,774.00
	AMMETER (10 mA)	8/10	1,320/378	14,340.00
	AMMETER (200 $\mu$ A)	1	378	378.00
	DUAL DC AMMETER (100 mA /200mA)	3	412.5	1,237.50
	DUAL DC AMMETER(50 $\mu$ A/100 $\mu$ A)	5	412.5	2,062.50
9	LCR METER	2	9,900	19,800.00
10	AUTO TRANSFORMER	2	2780	5,560.00
11	GALVANOMETER	3	350	1,050.00
12	PN JUNCTION DIODE TRAINER KIT	1	2725	2,725.00
13	ZENER DIODE TRAINER KIT	1	2725	2,725.00
14	FET TRAINER KIT	1	2650	2,650.00
15	DIAC TRAINER KIT	1	2250	2,250.00
16	TRIAC TRAINER KIT	1	2250	2,250.00
17	UJT TRAINER KIT	1	2350	2,350.00
18	IGBT CHARACTERISTIC	1	4950	4,950.00
19	SCR TRAINER KIT	1	2950	2,950.00
20	LDR TRAINER KIT	1	2650	2,650.00
21	SUPERPOSITION THEOREM TRAINER KIT	1	2950	2,950.00
22	MAX POWER TRANSFER THEOREM TRAINER KIT	1	2950	2,950.00
23	THEVENIN THEOREM TRAINER KIT	1	2950	2,950.00
24	NORTONS THEOREM TRAINER KIT	1	2950	2,950.00
25	WHAETSTONE BRIDGE TRAINER KIT	1	2900	2,900.00
26	WEIN BRIDGE TRAINER KIT	1	2900	2,900.00
27	PHOTO ELECTRIC TRAINER KIT	1	4750	4,750.00
			TOTAL COST	₹ 2,89,380.50

DEPARTMENT OF MECHANICAL ENGINEERING

ME8361 MANUFACTURING TECHNOLOGY LABORATORY I

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Centre Lathes	7	7	-
2.	Horizontal Milling Machine	1	1	-
3.	Vertical Milling Machine	1	1	-
4.	Shaper	1	1	-
5.	Arc welding transformer with cables and holders	2	2	-
6.	Oxygen and acetylene gas cylinders, blow pipe and other welding outfit	1	1	-
7.	Moulding table, Moulding equipments	2	2	-
8.	Sheet metal forming tools and equipments	2	2	-

ME8381 Computer Aided Machine Drawing Requirements for a  
batch of 30 students

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Computers with necessary accessories	30	30	-
2.	Assembly drawings using any 2D /3D CAD Software	30	30	-
3.	Printer	1	1	-

**ME8462 MANUFACTURING TECHNOLOGY LABORATORY II**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Quantity required (R)</b>	<b>Quantity available (A)</b>	<b>Deficiency (R - A)</b>
1.	Turret and Capstan Lathes	2	1	1
2.	Horizontal Milling Machine	2	2	-
3.	Vertical Milling Machine	1	1	-
4.	Surface Grinding Machine	1	1	-
5.	Cylindrical Grinding Machine	1	1	-
6.	Radial Drilling Machine	1	1	-
7.	lathe Tool Dynamometer	1	1	-
8.	Milling Tool Dynamometer	1	-	1
9.	Gear Hobbling Machine	1	1	-
10.	Tool Makers Microscope	1	1	-
11.	CNC Lathe	1	1	-
12.	CNC milling machine	1	1	-
13.	Gear Shaper machine	1	-	1
14.	Center less grinding machine	1	-	1
15.	Tool and cutter grinder	1	-	1

**CE8381 STRENGTH OF MATERIALS AND FLUID MECHANICS AND MACHINERY LABORATORY**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Quantity required (R)</b>	<b>Quantity available (A)</b>	<b>Deficiency (R - A)</b>
1.	Universal Tensile Testing machine with double 1 shear attachment –40 Ton Capacity	1	1	-
2.	Torsion Testing Machine (60 NM Capacity)	1	1	-
3.	Impact Testing Machine (300 J Capacity)	1	1	-
4.	Brinell Hardness Testing Machine	1	1	-
5.	Rockwell Hardness Testing Machine	1	1	-
6.	Spring Testing Machine for tensile and compressive loads (2500 N)	1	1	-
7.	Metallurgical Microscopes	3	3	-
8.	Muffle Furnace (800 C)	1	1	-
9.	Orifice meter setup	1	1	-
10.	Venturi meter setup	1	1	-
11.	Rotameter setup	1	1	-
12.	Pipe Flow analysis setup	1	1	-
13.	Centrifugal pump/submersible pump setup	1	1	-
14.	Reciprocating pump setup	1	1	-
15.	Gear pump setup	1	1	-
16.	Pelton wheel setup	1	1	-
17.	Francis turbine setup	1	1	-
18.	Kaplan turbine setup	1	1	-

**ME8511 KINEMATICS AND DYNAMICS LABORATORY**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Quantity required (R)</b>	<b>Quantity available (A)</b>	<b>Deficiency (R - A)</b>
1.	Cam follower setup	1	1	-
2.	Motorised gyroscope	1	1	-
3.	Governor apparatus - Watt, Porter, Proell and Hartnell governors	1	1	-
4.	Whirling of shaft apparatus	1	1	-
5.	Dynamic balancing machine	1	1	-
6.	Two rotor vibration setup	1	1	-
7.	Spring mass vibration system	1	1	-
8.	Torsional Vibration of single rotor system setup	1	1	-
9.	Gear Models	1	1	-
10.	Kinematic Models to study various mechanisms	1	1	-
11.	Turn table apparatus	1	1	-
12.	Transverse vibration setup of cantilever	1	1	-



**ME8512 THERMAL ENGINEERING LABORATORY**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Quantity required (R)</b>	<b>Quantity available (A)</b>	<b>Deficiency (R - A)</b>
1.	I.C Engine – 2 stroke and 4 stroke model	1	1	-
2.	Apparatus for Flash and Fire Point	1	1	-
3.	4-stroke Diesel Engine with mechanical loading	1	1	-
4.	4-stroke Diesel Engine with hydraulic loading	1	1	-
5.	4-stroke Diesel Engine with electrical loading	1	1	-
6.	Multi-cylinder Petrol Engine	1	1	-
7.	Single cylinder Petrol Engine	1	1	-
8.	Data Acquisition system with any one of the above engines	1	1	-
9.	Steam Boiler with turbine setup	1	1	-
10.	Guarded plate apparatus	1	1	-
11.	Lagged pipe apparatus	1	1	-
12.	Natural convection-vertical cylinder apparatus	1	1	-
13.	Forced convection inside tube apparatus	1	1	-
14.	Composite wall apparatus	1	1	-
15.	Thermal conductivity of insulating powder apparatus	1	1	-
16.	Pin-fin apparatus	1	1	-
17.	Stefan-Boltzmann apparatus	1	1	-
18.	Emissivity measurement apparatus	1	1	-
19.	Parallel/counter flow heat exchanger apparatus	1	1	-

20.	Single/two stage reciprocating air compressor	1	1	-
21.	Refrigeration test rig	1	1	-
22.	Air-conditioning test rig	1	1	-

**ME8513 METROLOGY and MEASUREMENTS LABORATORY**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Quantity required (R)</b>	<b>Quantity available (A)</b>	<b>Deficiency (R - A)</b>
1.	Micrometer	5	5	-
2.	Vernier Caliper	5	5	-
3.	Vernier Height Gauge	2	2	-
4.	Vernier depth Gauge	2	2	-
5.	Slip Gauge Set	1	1	-
6.	Gear Tooth Vernier	1	1	-
7.	Sine Bar	1	1	-
8.	Floating Carriage Micrometer	1	1	-
9.	Profile Projector / Tool Makers Microscope	1	1	-
10.	Parallel / counter flow heat exchanger apparatus	1	1	-
11.	Mechanical / Electrical / Pneumatic Comparator	1	1	-
12.	Autocollimator	1	1	-
13.	Temperature Measuring Setup	1	1	-
14.	Force Measuring Setup	1	1	-
15.	Torque Measuring Setup	1	1	-
16.	Coordinate measuring machine	1	1	-

17.	Surface finish measuring equipment	1	1	-
18.	Bore gauge	1	1	-
19.	Telescope gauge	1	1	-

ME8681 CAD/CAM LABORATORY

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Computer Server	1	1	-
2.	Computer nodes or systems (High end CPU with atleast 1 GB main memory) networked to the server	30	30	-
3.	A3 size plotter	1	-	1
4.	Laser Printer	1	1	-
5.	CNC Lathe	1	1	-
6.	CNC milling machine	1	1	-
7.	Any High end integrated modeling and manufacturing CAD / CAM software	15	15	-
8.	CAM Software for machining centre and turning centre (CNC Programming and tool path simulation for FANUC / Sinumeric and Heidenhain controller)	15	15	-
9.	Licensed operating system	30	30	-
10.	Support for CAPP	30	-	30

**ME8711 SIMULATION AND ANALYSIS LABORATORY**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Quantity required (R)</b>	<b>Quantity available (A)</b>	<b>Deficiency (R - A)</b>
1.	Computer Work Station	15	15	-
2.	Color Desk Jet Printer	1	-	1
3.	Multibody Dynamic Software Suitable for Mechanism simulation and analysis	15	15	-
4.	C / MATLAB	5	5	-

## ME8781 MECHATRONICSLABORATORY

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Basic Pneumatic Trainer Kit with manual and electrical controls/ PLC Control each	1	1	
2.	Basic Hydraulic Trainer Kit	1	1	
3.	Hydraulics and Pneumatics Systems Simulation Software	10	10	
4.	8051 - Microcontroller kit with stepper motor and drive circuit sets	2	2	
5.	Image processing system with hardware & software	1	-	1

## Computing Facilities

**Internet Bandwidth : 125Mbps**

S.No	Name of the Service Provider	Mbps
1.	Airtel	100 Mbps
2.	BSNL	25 Mbps

## Number and configuration of system

S.NO	Lab Name	System Configuration Details	No of Computers
1.	<b>CIVIL CAD Lab</b>	Available Specification: Acer (1) RAM-2GB, (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	37
2.	<b>CSE Main lab</b>	AvailableSpecification:Acer (1) RAM -2GB/4GB, (2) HDD-250GB, (3) Processor -Dual Core (4) Sizeof Monitor-18.5"	60

3.	CP Lab	AvailableSpecification:Acer (1)RAM-2GB, (2)HDD -320GB/250GB (3) Processor -Dual Core (4) SizeofMonitor-18.5"	60
4.	OOAD&MULTIMEDIA LAB	AvailableSpecification:Acer (1)RAM-2GB/4GB (2)HDD -250GB/320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	72
5.	CISCO LAB	AvailableSpecification:Acer- (1) RAM -2GB/4GB (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	37
6.	VLSI Lab in ECE	AvailableSpecification:Acer- (1) RAM -2GB, (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	36
7.	Embedded Lab in ECE	AvailableSpecification:Acer- (1) RAM -2GB, (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	36
8.	PSS Lab in EEE	AvailableSpecification:Acer- (1) RAM -2GB/4GB (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	36
9.	CAD/CAM Lab in MECH	Available Specification: Acer(1)RAM- 2GB/4GB (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	62
10.	COMMUNICATION LAB in English	AvailableSpecification:Acer- (1) RAM -2GB, (2) HDD-250GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5	37
11.	MBA Lab	Available Specification:Acer- (1) RAM -2GB, (2) HDD-320GB, (3) Processor -Dual Core (4) Sizeof Monitor-18.5"	36

<b>12.</b>	<b>INTERNETLAB</b>	Available Specification:Acer- (1) RAM -2GB, (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor -18.5	60
<b>13</b>	<b>DIGITAL LIBRARY</b>	Available Specification:Acer (1) RAM -2GB, (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	09
<b>14</b>	<b>ADMINISTRATIVE PURPOSE</b>	Available Specification: Acer (1) RAM -2GB/4GB, (2) HDD-320GB, (3) Processor -Dual Core (4) SizeofMonitor-18.5"	33
<b>TOTAL</b>			<b>611</b>

- Total number of system connected by LAN – 583 SYSTEMS
- Total number of system connected by WAN - 583 SYSTEMS

### Major software packages available

#### System software's

<b>S.NO</b>	<b>Name of the software available</b>
1.	MICROSOFT OFFICE CAMPUS LICENCE
2.	UBUNTU OS
3.	VISTA
4.	LINUX

#### Application software's

<b>S.NO</b>	<b>List of Licensed Software</b>
1	MICROSOFTOFFICEPROFESSIONAL
2	VISUALSTUDIO
3	TURBO C4.5
4	DOS BOX

5	SQLCAL
6	MICROSOFTPUBLISHER
7	RATIONALROSE SUITE
8	ADOBECS 5.5
9	ADOBEDESIGNPREMIUMCS 5.5
10	ADOBEDESIGNPREMIUMWEBPREMIUMCS 5.5
11	ADOBE INDESIGNFAMILYCS5.5
12	ADOBE ILLUSTRATORCS5.1
13	ADOBEAPPLICATIONMANAGERENTERPRISEEDITION
14	LANGUAGELABINHIGHCLASSSOFTWARE
15	MATLABSOFTWARE
16	IBMSPSS
17	TALLY
18	ADOBEPHOTO SHOP
19	TURBOCASHACCOUNTING
20	QORGANIZER
21	STUDENTMCQMANAGER
22	OPENSTAT
23	JASP

### **Special purpose facilities available (Conduct of online Meetings / Webinars/Workshops, etc)**

#### **Available**

Smart Class Rooms : 10

Seminar Halls : 07

AC Auditorium : 01

### **Facilities for conduct of classes / courses in online mode (Theory&Practical)**



Smart Class Rooms : 10

Seminar Halls : 07

AC Auditorium : 01

### **Innovation cell**

Institution Innovation cell

### **Social Media Cell**

National Social Service

Compliance of the National Academic Depository(NAD) , applicable to PGCM/PGDM institutions and University Departments. - NA

### **List of facilities available**

#### **Games and Sports Facilities**

##### **INDOOR GAMES**

<b>S.NO.</b>	<b>INFRASTRUCTURE</b>	<b>AREA AVAILABLE(m<sup>2</sup>)</b>
1.	Chess	3.6
2.	Carrom Board	6.89

##### **OUTDOOR GAMES**

<b>S.No</b>	<b>INFRASTRUCTURE</b>	<b>AREA AVAILABLE(m<sup>2</sup>)</b>
1.	Cricket Ground	14000
2.	Basketball Court	800
3.	Volley Ball Court	896
4.	Football Field	10800
5.	Shuttle Court	120
6.	Tenicoit Court	100
7.	Kho – Kho	750

#### **Extra – Curricular Activities**

- Student Premier League (SPL)

- Group Dance
- Mime act
- Drama
- As you like it
- Public speaking
- Pencil drawing
- Art from waste
- Quiz Verse writing
- Rangoli
- Fireless cooking

### **Soft skill development facilities**

### **Teaching Learning Process**

- Curriculum and syllabus for each of the programmes as approved by the University

[https://cac.annauniv.edu/PhpProject1/aidetails/ai\\_ug\\_cands\\_2021ft.html](https://cac.annauniv.edu/PhpProject1/aidetails/ai_ug_cands_2021ft.html)

- Academic Calendar of the University

Odd semester

[https://cac.annauniv.edu/PhpProject1/aidetails/ai\\_ug\\_schedule.html](https://cac.annauniv.edu/PhpProject1/aidetails/ai_ug_schedule.html)

Even Semester

[https://cac.annauniv.edu/PhpProject1/aidetails/ai\\_pg\\_schedule.html](https://cac.annauniv.edu/PhpProject1/aidetails/ai_pg_schedule.html)

- Academic Time Table with the name of the faculty members handling the course
- Teaching load of each Faculty
- Internal Continuous Evaluation System and place

[https://www.nprcet.org/site/download?file=NAAC\\_Criterion2\\_2.5.1Mechanism\\_of\\_Internal\\_Assessment.pdf](https://www.nprcet.org/site/download?file=NAAC_Criterion2_2.5.1Mechanism_of_Internal_Assessment.pdf)

[https://www.nprcet.org/site/download?file=NAAC\\_Criterion2\\_2.5.2Mechanism\\_IA\\_Transparent.pdf](https://www.nprcet.org/site/download?file=NAAC_Criterion2_2.5.2Mechanism_IA_Transparent.pdf)

- Student's assessment of Faculty, System and place

<file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/Teaching%20Learning%20Evaluation.pdf>

### **For each Post Graduate Courses give the following:**

- Title of the Course – MBA
- Curricula and Syllabi

[https://cac.annauniv.edu/PhpProject1/aidetails/ai\\_pg\\_cands\\_2021ft.html](https://cac.annauniv.edu/PhpProject1/aidetails/ai_pg_cands_2021ft.html)

- Laboratory facilities exclusive to the Post Graduate course
- Title of the Course – ME
- Curricula and Syllabi

[https://cac.annauniv.edu/PhpProject1/aidetails/ai\\_pg\\_cands\\_2021ft.html](https://cac.annauniv.edu/PhpProject1/aidetails/ai_pg_cands_2021ft.html)

- Laboratory facilities exclusive to the Post Graduate course

### Special purpose

- Software, all design tools in case
- Academic Calendar and framework

## 16. Enrolment and placement details of students in the last 3 years

### PLACEMENT DETAILS-2018-19

S.NO	DATE	NAME OF THE COMPANY	NO OF STUDENTS SELECTED
1	16.09.18	WonjinAutoparts India P Ltd, Chennai	32
2	19.09.18	Enoah-I Solution, Chennai	5
3	09.10.18	Just Dial,	6
4	10.12.18	NCR Corporation India Pvt Ltd., Chennai	13
5	27.12.18 28.12.18	Infosys Technologies, Chennai Conducted by Anna University	5
6	31.12.18	Syrma Technology	33
		Amphenol Omni Connect	1
7		I Source Chennai	6
8	25.01.19	Unique Shell Mould India Pvt Ltd, Coimbatore (CSE,ECE,Mech)	37
9	28.01.19	ENTERPRISE TOUCH, Chennai	6
10	21.02.19	APPTIVO Software, Madurai	1
11	01.04.19 TO 02.04.19	“CONSOLIDATED CONSTRUCTION CONSORTIUM Ltd”, Chennai	7
<b>TOTAL</b>			<b>152</b>

### **PLACEMENT DETAILS-2019-20**

S.NO	DATE	NAME OF THE COMPANY	NO OF STUDENTS SELECTED
1	19.08.19	Enoah-I Solution, Chennai	4
2		TCS, Chennai	1
3	22.01.20	Gestamp Automotive Pvt Ltd., Chennai	13
4	11.02.20	MITSUBA SICAL	17
7	21.02.20	Imerge Business Solution Pvt Ltd	15
8	19.02.20	AB Academy	6
9	22.02.20	JM Fritech India P Ltd	8
10	24.02.20	Enter Prise Touch Pvt Ltd	8
11	11.03.20	KALYCITO Infotechpvt ltd	1
12	11.03.20	Sri Lakshmi Hayagreeva Technologies	3

### **PLACEMENT DETAILS-2020-21**

S.NO	DATE	COMPANY NAME	NPRCET
1	18.11.2020	TCS	01
2	26.02.2021	EUREKA FORBES	05
3	04.03.2021	GESCO	10
4	12.03.2021	SSM COLOR DREAMS	03
5	23.03.2021	BHAVANI INDUSTRIES	05
6	25.03.2021	TRIEMPH TECHNOLOGY & SERVICES	16
7	01.04.2021	BON FIGILIOLI	12
8	01.04.2021	GESCO	10
9	02.04.2021	JMI	10
10	07.04.2021	Q-SPIDER	06
11	31.03.2021	RELAINCE JIO MART	05
12	06.04.2021	GESTAMP	22

## 17. List of Research Projects / Consultancy works

- Number of Projects carried out, funding agency, Grant received
- Publications (if any) out of reach in last three years out of masters projects
- Industry Linkage
- MoUs with Industries (minimum 3(10))

S. No.	Organization with which MoU is signed	Duration	Stamp paper	Stamp paper Date	MoU Signed date	Stamp paper number	
<b>DEPARTMENT OF CIVIL</b>							
1	Sona Builders, Dindigul	4 years	20 Rs	4560 - 21/07/2018	02/08/2018	35AB 723936	
2	RP Construction, Madurai	4 years	20 Rs.	5339 - 30/08/2018	28/09/2018	56AB 558217	
3	Walls infra constructions, Coimbatore	5 years	20 Rs.	10749 - 13/12/2017	14/12/2017	49AB 082297	
4	Caaliber Construction, Madurai	5 years	50 Rs.	1050 - 07/09/2016	08/09/2016	AM 417678	
5	Chettinad Constructions, Dindigul	6 years	100 Rs.	070 - 27/01/2016	29/01/2016	BG 183078	
6	RP Construction, Madurai	2 years	50 Rs.	038 - 07/01/2016	08/01/2016	AM 410993	
7	TMC Engg. Pvt. Ltd., Chennai	6 years	100 Rs.	386 - 29/12/2015	30/12/2015	BG 183064	
<b>DEPARTMENT OF CSE</b>							
8	Xplore IT Corp	5 years	20 Rs.	4591 - 24/07/2018	10/08/2018	35AB 723959	
9	Triflorum Engineering and Business Solutions, Coimbatore	5 years	20 Rs.	10923 - 20/12/2017	22/12/2017	49AB 082316	
1	Free software foundation, Chennai (cancelled)	5 years	50 Rs.	01/12/2016	04/12/2016		
1	C3 Technologies, Coimbatore	5 years	50 Rs.	293 - 07/12/2015	09/12/2015	AP 306804	
1	CMS IT Solutions	7 years	10 Rs.	311- 07/12/2015	15/12/2015	47AA 758020	
1	Red hat	5 years	20 Rs.	4732 - 01/08/2018	18/08/2018	35AB 748016	
<b>DEPARTMENT OF ECE</b>							
1	Elysium Technologies, Madurai	3 years	20 Rs.	10/07/2018	13/07/2018		
1	Megatronics, Coimbatore	3 years	20 Rs.	05/04/2018	06/04/2018		

1	VI Micro systems, Madurai	5 years	100 Rs.	1062 - 09/09/2016	12/09/2016	BG 192419	
1	Bright Technologies, Dindigul	2 years	50 Rs.	08/01/2016	25/01/2016		
1	Uniq Technologies, Coimbatore	5 years	20 Rs.	4167 - 10/07/2018	11/07/2018	35AB 723898	
<b>DEPARTMENT OF EEE</b>							
1	Caaliber Embedded, Trichy	3 years	20 Rs.	10/07/2018	11/07/2018		
2	Nano tech groups, Trichy	6 years	10 Rs.	311 - 7/12/2015	19/01/2016	47AA 758017	
2	Umbrella Corporation, Trichy	5 years	50 Rs.	2063 - 02/04/2018	26/04/2018	AC 611364	
2	Labo Scientific, Trichy	5 years	50 Rs.	2062 - 02/04/2018	26/04/2018	AC 611365	
2	Natham Town Panjayat						
<b>DEPARTMENT OF MECHANICAL</b>							
2	Bnazrum agro exports Pvt. Ltd, Dindigul	3 years	20 Rs.	4733 - 01/08/2018	10/08/2018	35AB 748017	
2	Osho body builders India Pvt. Ltd., Madurai	5 years	50 Rs.	1016 - 31/08/2016	06/09/2016	AM 417673	
2	Bnazrum agro exports Pvt. Ltd., Dindigul	2 years	50 Rs.	39 - 08/01/2016	20/01/2016	AM 410994	
2	Asian Motors	2 years	10 Rs.	310 - 7/12/2015	10/12/2015	47AA 7508016	
2	Thermal solutions India pvt ltd	6 years	10 Rs.	313 - 7/12/2015	11/12/2015	47AA 7508019	
<b>DEPARTMENT OF MBA</b>							
2	DP Textiles, Udumalaipettai.	5 years	20 Rs.	2595 - 09/05/2018	10/05/2018	35AB 721624	
3	Auto shell Perfect Modular Ltd, Coimbatore	5 years	100 Rs.	1065 - 31/08/2016	02/09/2016	BG 192422	
3	Madura Steel Industries Pvt. Ltd., Dindigul	5 years	100 Rs.	1015 - 12/09/2016	14/09/2016	AM 417672	
3	Top Anil Marketing company, Dindigul	5 years	50 Rs.	2061 - 02/04/2018	20/04/2018	AC 611363	
<b>DEPARTMENT OF S&amp;H</b>							
3	VEI Technologies, Chennai	5 years	50 Rs.	2060 - 02/04/2018	10/4/2018	AC 611362	

## 18. LoA and subsequent EoA till the current Academic Year

LoA	<a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/audit%20statement%2019-20/Audit%20Statement%20Assesment%20year%2019-20.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/audit%20statement%2019-20/Audit%20Statement%20Assesment%20year%2019-20.pdf</a> <a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/audit%20statement%2020-21/Auditstatement%2020-21.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/audit%20statement%2020-21/Auditstatement%2020-21.pdf</a> <a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/audit%20statement%2021-22/audit%20statement%2021-22.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/audit%20statement%2021-22/audit%20statement%2021-22.pdf</a>
EoA	<a href="file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/EOA%20AICTE%202008-09%20to%202021-22.pdf">file:///D:/J/2021-22/AICTE/Mandatory%20Disclosure/EOA%20AICTE%202008-09%20to%202021-22.pdf</a>

## 20. Best Practices adopted, if any

### **Best Practices 1**

#### **a) Title of the Practice: Students Mentor System (SMS)**

#### **b) The Objective of the Practices:**

To gives the essential guidelines for getting the good academic results and improves the excellence of the overall performances.

#### **c) The Context:**

Students come from rural background. They don't know about the scope of engineering and the process of employment. Difference in education system – support – personal touch- getting confidence – familiar with the new place with all the student get attached to the institution regulation earlier then if the system close of exist. This gives confidence to the students and enables them to start studying with interest and without any deviation. Fear overcomes when they mingle with the staffs.

The Mentoring system is relatively new in general to a student entering the college. Our college is situated in rural area and more no.of students from rural background and first graduates in his/her family. An Engineering course, the medium of the instruction is English only. Here no.of students from tamil medium, so the students feel difficult to understand the classes and write the examination in English. Entry level students do take some time to familiarize and feel more comfortable with their mentors and most importantly develop confidence in them. Our Mentors, to shrink and minimize the student's fear from his/her mind and give direction to face the difficulties.

#### **d) Practices:**

Orientation session before usual classes. During that itself the students are briefed about mentioned system, facilities and practices in our institute. Overview of mentorship. Mentor- mentor ratio is 1:15.

Mentor meeting is conducted once in two weeks. During the first meeting the personal delights of the students/mentors are recorded and categorized on the basis of marks, topography, family environment, hobbies and other interest. During the second meeting progress of syllabus and issues related to academic are discussed. The performance in the class, 1<sup>st</sup> hour test is analyzed and counseling will be given to the mentor students. The identified slow learners and advanced learners are separately for their development. In the subsequent meeting the results of the first internal examination. 2<sup>nd</sup> internal test and model examination result will be discussed. Slow learners are suggested to refer contacts on the frequently asked questions in the end semester and to study the handout given by the subject faculties. The advance learners are suggested to undergo in-plant training, internship during the semester holidays to get expose to industries. Before university examination mentors are counseled/motivated to perform well and score more marks in the university examinations. In between special counseling will be given to students who get internal any indiscipline activity. During the discussion the personal, health and family issues will be addressed by the mentor if any and solutions to sort out the issues will be suggested by the mentor. If there is no development with a specific mentor, the respective parent will be called by the college and the mentor performance will be discussed. Further based on the

programme is conducted to the students earlier than their usual classes. During the usual class, subject wise topics discussed to the students to prepare for the test as well their usual class work. Daily morning one hour is allotted to write the test in the given topics. If they attain less mark, they are provided with separate arrangement beyond the working hours.

Motivation Program is conducted to the students to realize the objective of the programme and its possibility. The regulation of the programme and the knowledge to shine in their skills by utilizing the syllabus will be discussed in detail in this course.

#### **e) Evidence of Success:**

Evaluate after getting every semester results, it is obvious that their performance is better than that of the early period. Then immediately we conduct the parents & teachers meeting. The students and their parents have been very happy with the mentoring system. This is reflected repeatedly in the university examination results.

#### **f) Problem Encountered & Resources Required**

- Day Scholars feel difficult to get to home in time after separate classes.
- Extra workload for faculty members.
- Students are less attentive during the separate classes.
- The students feel that they are attending classes constantly for a long period.
- Extra Buses are operated at 6.00 P.M. daily from the college.



The percentage of drop-outs did reduce greatly after implementing the system, but still present. Some students have required a great deal of time and effort from their mentors but have shined after.

## **Best Practices-2**

### **Title: Institute Administrative System (IAS) Objectives:**

Our NPR College of Engineering & Technology encouraged the Teaching, Non-Teaching, Office members and students to progress and incorporated dashboards for transparency, easily & accessibly running the several academic activities of the college. NPRCET has established an **Institute Administrative System (IAS)** for timely accessibility of data which can be opened through Intranet. The IAS Portal has been executed for the recent year and is very user friendly. IAS has been very helpful to monitoring and evaluation of the education system and follows up on the daily activities of each point in a regular and suitable manner of the institution.

### **The Context:**

The **Institute Administrative System (IAS)** is intranet-based and partially web-based well-established in-house developed software that appropriately handles all the key functionalities of the institution. The set of automated modules that has been successfully implemented are: Admissions, Academics, Students, Fees, Examination, Online Assessment, Placement, Student Feedback, Performance, Staff, Faculty Record Book, Leave Management, SMS based services. Web Portals are the exclusive system which maintains the vital information online and interlinks all the stakeholders with required authentications.

### **The Practice:**

IAS framework maintains raw information on the education system and also contains aggregate figures derived from these data, such as internal marks, performance results, appraisal, feedback etc. Instant availability of this aggregate data provides a deeper understanding of the education system. The streamlined standard formats and procedures for data collection and storage eliminate duplicate, redundant and conflicting data. IAS system is robust enough and operates according to a well-defined logic, methodology for varied distinct purposes. Appropriate data flow mechanisms and channels are applied to promote the exchange of derived up-to-date information among the stakeholders. The inter-relation between the modules promotes data presentation and data standards. The precise data and graphical reports are produced wherever required to support in-depth understanding. Regular data and source back-up facilities are maintained. All the data and information are maintained as a history due course for further references.

### **Evidence of Success:**

Accessibility of appropriate information as required by different stakeholders (derived internal marks at any point of time); Single point instant data capturing, role-based access control and time-based locking mechanisms (instant access of attendance status, examination score etc.); Standard and reports (Faculty record book, student performance analysis, standards etc.).

## **Problems Encountered and Resources Required:**

In order to meet the institution's vision of nurturing the students in a holistic way the IAS system has to address the qualitative characteristic of the students. It is required to develop a module on SWOT analysis for capturing individual student's Strengths, Weaknesses, Opportunities and Threats in the first year itself. A knowledge based mechanism intended to implement will address these soft qualities suitably and thus incorporating planned processes and follow-ups will achieve the vision of holistic growth of the student community.

[https://www.nprcet.org/site/download?file=NNAC\\_Criterion7\\_7.2.1.InstituteAdministrativeSystemDetails.pdf](https://www.nprcet.org/site/download?file=NNAC_Criterion7_7.2.1.InstituteAdministrativeSystemDetails.pdf)