### MANDATORY DISCLOSURE

### 1. Name of the Institution

Aarupadai Veedu Institute of Technology

A Constituent College of Vinayaka Mission's Research Foundation (Deemed to be University)

## **Address:**

Vinayaka Nagar, Rajiv Gandhi Salai (OMR), Paiyanoor– 603104 Chengalpattu Dist, Tamil Nadu

E-mail: principal@avit.ac.in

# 2. Name and address of the Trust/Society/Company and Trustees

# Name of the Organization:

Vinayaka Missions Research Foundation

### **Address:**

44A, Second Agraharam, Salem-636001. Tamil Nadu

### **Trustee Details:**

S. No.	Name	Designation	Mobile No.
1	Dr. A.S. Ganesan	Chairman	9940565600
2	Mrs. S.Annapoorani	Member	9940565600
3	Dr. S. Sharavanan	Member	9940565600
4	Mrs. S. Sumathy	Member	9940565600
5	Mrs. S. Arunadevi	Member	9940565600

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

# Name of the Principal:

Dr. G.Selvakumar

## **Address:**

Vinayaka Nagar, Rajiv Gandhi Salai (OMR), Paiyanoor– 603104 Chengalpattu Dist, Tamil Nadu

E-mail: <a href="mailto:principal@avit.ac.in">principal@avit.ac.in</a>
Mobile No.: 7550013555

# 4. Name of the Affiliating University

Not Applicable

# 5. Governance

# **Board of Management**

# https://vmrfdu.edu.in/Authorities.php

S.No	Name	Designation, Department and Institution of the person	Position in the Committee
1	Dr.P.K. Sudhir	Vice Chancellor, VMRF(DU), Salem	Chairperson
2	Dr.J.Sabarinathan	Director (Academics), VMRF (DU), Salem	Member
3	Mr.J.Suresh Samuel	VMRF(DU), Chennai office	Member
4	Dr.J.Baby John	Dean, VMSDC, Salem	Member
5	Dr.E.Rathnasabapathi	Principal, VMHMC, Salem	Member
6	Dr.DeeptiShastri	Dean, VMKVMC&H, Salem	Member
7	Dr.K.Mujibur Rahman	Professor & Head, Department of Community Medicine, VMMC&H, Karaikal.	Member
8	Dr.J.Arun Kumar	Professor, Department of Oral & Maxillofacial Surgery, VMSDC, Salem	Member
9	Dr.B. Jayaprakash	Associate Professor, Department of Ophthalmology, VMKVMC&H, Salem	Member
10	Dr.T.V.Devarajan	Emeritus Professor of Medicine, AVMC, Puducherry. Senior Consultant Physician, Apollo Hospitals, Chennai	External Expert
11	Padmasri Dr.Sirkali G.Sivachidambaram MD.,	Dean(Former), Government Medical College, Visiting Professor, Faculty of fine Arts, Annamalai University	External Expert
12	Dr.M.Vadivel Kumar	Chairman, Indian board of Orthodontics	External Expert
13	Yet to be nominated		Member
14	Dr.B.Jaykar	Registrar, VMRF(DU), Salem	Member Secretary

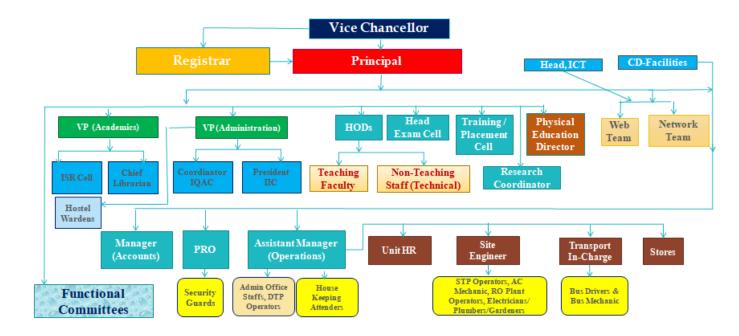
Members of Academic Advisory Body

https://vmrfdu.edu.in/Academic-council.php

Frequency of the Board Meeting and Academic Advisory Body

Twice in a year

# **Organizational Chart**



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

S.No.	Committee
1	Academic Council
2	Board of Studies
3	Academic Monitoring Committee
4	Collegiate Student Grievance Redressal Committee (CSGRC)
5	Internal Complaints Committee
6	Anti Ragging Committee & Squad
7	SC/ST Cell
8	IQAC-Internal Quality Assurance Cell
9	Institution Innovation Council (IIC)
10	IPR CELL
11	Entrepreneurship Development Cell (EDC)
12	Media Cell-AVIT Media Club
13	Institution Industry Cell
14	Students' Council

15	Code of Conduct Committee
16	Grievance Redressal Committee for Faculty Members/Staffs
17	Institutional Research Committee
18	ISR Cell-Institutional Social Responsibility Cell
19	E-Learning Development Cell
20	Campus Maintenance, Purchase & Scrap Committee
21	Gender Sensitization Cell
22	Women Empowerment Cell
23	Hostel Governance & Management Committee
24	EVS Club
25	Fine Arts Club
26	AVIT Centre for Continuing Education
27	AVIT Centre for Campus Life
28	Aadhavan Energy Club

# Student involvement in Academic affairs/improvements

S.No.	Committee
1	Collegiate Student Grievance Redressal Committee (CSGRC)
2	Internal Complaints Committee
3	Anti Ragging Committee & Squad
4	SC/ST Cell
5	IQAC-Internal Quality Assurance Cell
6	Institution Innovation Council (IIC)
7	IPR CELL
8	Entrepreneurship Development Cell (EDC)
9	Media Cell-AVIT Media Club
10	Students' Council
11	ISR Cell-Institutional Social Responsibility Cell
12	Hostel Governance & Management Committee
13	EVS Club

14	Fine Arts Club
15	AVIT Centre for Campus Life
16	Aadhavan Energy Club

# Mechanism/Norms and Procedure for democratic / good governance

The University – institution has an e-governance system to manage its day-to-day operation. This system hasmodules related to Admission, Academics, Examination, Administration, Finance and Planning, and Monitoring. In addition to e-governance, the University uses LMS extensively. Theinstitution has adequate numbers of computers and the institution initiates the process of updating, often with the support of the maintenance team. The institution also takes the support of an outside agency if required. Conducting periodic checking and updating will have minimumwork disruption and reduced turnaround time in case of issues.

VMRF(DU) has constituted all statutory bodies Viz. Board of Management, AcademicCouncil, Planning and Monitoring Board, Finance Committee and Board of Studies asper prescribed standards. Board of Management chaired by Vice Chancellor is the chief governing body, which hasfair representation of eminent external and learned internal members as per prescribedstandards. Board of Management is committed to the vision and mission throughtransparent and participatory governance by embracing new technologies and adherence to standards of Quality. Approved Strategic Plan for development has been deployed andBoard of Management monitors the progress of same periodically.

Statutory bodies of the University are well supported by various mandatory and non-mandatory committees and cells at the University and the Institutions level for effective implementation of resolutions passed by statutory bodies. These committees/Cells are constituted as per guidelines and have suitable representation with well defined responsibilities.

VMRF(DU) has well documented and transparent policies and procedures, which are approvedby Board of Management, for various academic, administrative and research activitiesimplementation. To supplement MoA and Rules VMRF(DU) has well defined and structuredService rules, code of conduct, Staff Welfare Policy, Staff Appraisal policy, Finance and auditPolicy, Research related Policies like Research Promotion Support & Incentives policy,Innovation and Entrepreneurship Policy, IPR and Consultancy Policy, Research Code ofConduct and Ethics, Policy/ Guidelines On Standardization for author affiliation and Institutionnames in publications and Policy for Prevention of Plagiarism.

Student feedback on Institutional Governance/Faculty Performance

https://vmrfdu.edu.in/Feedbacks.php

**Anti Ragging Committee** 

https://www.avit.ac.in/media/antiragging.php

Grievance Redressal mechanism for Faculty, staff and students

**Online Grievance Redressal mechanism** 

https://vinayakamission.com/Student-Grievance.php https://www.avit.ac.in/media/grievence.php Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University

# Grievance Redressal Committee - https://www.avit.ac.in/media/grievence.php

## **OMBUDSMAN Details:**

S. No.	Name	E-mail Id	Mobile No.
1	Dr. R.S.D. Wahida	drwahidabanu@gmail.co	9443008886
	Banu	m	

# **Establishment of Internal Complaint Committee (ICC)**

https://vmrfdu.edu.in/ICC.php?college\_id=14

https://www.avit.ac.in/media/icc.php

**Establishment of Committee for SC/ST** 

https://www.avit.ac.in/media/scst.php

**Internal Quality Assurance Cell** 

https://www.avit.ac.in/iqac/Composition.php

# 6. Programmes

Name of Programmes approved by AICTE

https://www.avit.ac.in/admission\_2023/coursesofferd.php

Name of Programmes Accredited by NBA

Nil

NAAC Accreditation Status – Accredited by NAAC – 'A' Grade

## **Programme details-Full Time**

Duration: UG (Regular)- 4 years; UG (Lateral entry)- 3 Years; PG-2 years

		Approve	ed Intake	
PROGRAMME/COURSES	22-23	21-22	20-21	19-20
B.E. Automobile Engineering	-	-	-	60
B.Tech. Biotechnology	30	30	30	60
B.E. Civil Engineering	30	60	60	60
<b>B.E.</b> Computer Science and	150	120	90	120
Engineering	130	120	90	120
B.E. Electronics &	30	30	60	60
Communication Engineering	30	30	00	00
<b>B.E.</b> Electrical and Electronics	30	60	60	60
Engineering	30	00	00	00
B.E. Mechanical Engineering	30	30	120	120
B.E. Biomedical Engineering	60	60	60	60
B.E. Mechatronics	NA	30	30	60
B.E. Computer Science and	60	60	20	
<b>Engineering (Cyber Security)</b>	60	60	30	

B.E. Artificial Intelligence and Data Science	NA	60	60	
B.E. Pharmaceutical	30	30	60	
Engineering				
B.E. Computer Science &				
Engineering (Artificial	60			
Intelligence and Machine	00	-	-	
Learning)				
B.E. Computer Science &				
<b>Engineering (Internet of Things</b>	60			
and Cyber Security including	60	-	-	
Blockchain Technology)				
<b>B.E.</b> Computer Science and	60			
Design	60	-	-	
M.Tech. Biotechnology	18	18	-	
M.E. Construction Engineering	18	18		
and Management	16	16	-	
M.E. Computer Science and	18	18		
Engineering	16	16	-	
M.E. Embedded Systems	18	18		
Technologies	16	16	-	
M.E. Manufacturing	18	18		
Engineering	18	18	-	
M.E. Power Systems	18	18		
Engineering	10	10	<u> </u>	
MBA	60	60	-	

# **Programme details- Part Time**

 $Duration: UG-3.5\ years;\ PG-3\ years$ 

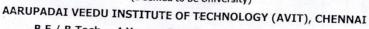
		Approv	ed Intake	
PROGRAMME/COURSES	22-23	21-22	20-21	19-20
B.E. Civil Engineering	60	60	60	60
B.E. Computer Science and Engineering	30	60	60	60
B.E. Electronics &	30	60	60	60
Communication Engineering				
B.E. Electrical and Electronics Engineering	60	60	60	60
B.E. Mechanical Engineering	150	150	60	60
M.Tech. Biotechnology	18	18	18	18
M.E. Construction Engineering and Management	18	18	18	18
M.E. Computer Science and Engineering	18	18	18	18
M.E. Embedded Systems Technologies	18	18	18	18
M.E. Manufacturing Engineering	18	18	18	18
M.E. Power Systems Engineering	18	18	18	18

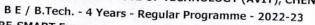
# **Placement Details:**

Level of course	Name of the Course	Lowest Salary (In Lakhs)	Highest Salary (In Lakhs)	Average Salary (In Lakhs)
UNDER GRADUATE	BIOTECHNOLOGY	2.4	3	2.45
UNDER GRADUATE	CIVIL ENGINEERING	1.4	2	1.7
UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	3	6	2.5
UNDER GRADUATE	ELECTRONICS AND COMMUNICATION ENGINEERING	1.4	6	3.7
UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	1.4	6	3.7
UNDER GRADUATE	MECHANICAL ENGINEERING	1.4	6	3.7
UNDER GRADUATE	BIOMEDICAL ENGINEERING	2.4	3	2.45
UNDER GRADUATE	MECHATRONICS	4	6	4.75
POST GRADUATE	MBA	2	3	2.3

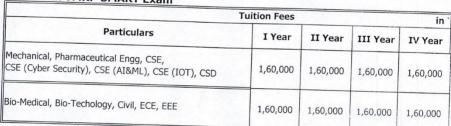
# **Fee Structure:**

(Deemed to be University)





with VMRF-SMART Exam



	Misc. Fees			ir
Particulars	I Year	II Year	III Year	IV Year
Admission Fee	2,500			- real
Stationery	1,700	7.50		
ID Card	300			
Club Activities				de la
Affidavit	500			
ibrary	250			
Sports	500			
/RC & NSS	300			
ab Coat	200			
	1,500			
College Calendar, Associations & Stores	1,000		(5) [	LANE S
eminar, Workshop, softskill training	4,000		63/21	
ligital Learning support	2,750	700	700	700
lumni Association	1,000		700	700
niversity Registration	2,000			4
igibility				
Men and the second seco	500			
Total	19,000	700	700	700

Note: \* No Suit \* No Japanese Language Training \* No Lap Top \* No Caution Deposit \* No Books



<sup>\*</sup> General Breakage charges for college and hostel to be collected by the college before semester examinations

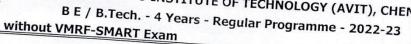
<sup>\*</sup> Fee includes Admission fee / Record / Id card / Net Lab / Affidavit / Library / College calendar/Alumnia Association/University Eligibility & Registration

<sup>\*</sup> Misc. Fees Rs. 19000 to be paid for I year only as one time payment. If student wish to pay yearwise, then Rs. 5000 per year may be collected.

<sup>\*</sup> Admission counselling processing charges of Rs. 5000/= is not refundable. When a student reports to the classes this amount will be adjusted in the tuition fee.

(Deemed to be University)

# AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY (AVIT), CHENNAI





Double 1	Tuition Fees			
Particulars	I Year	II Year	III Year	IV Year
Mechanical, Pharmaceutical Engg, CSE, CSE (Cyber Security), CSE (AI&ML), CSE (IOT), CSD	1,80,000	1,80,000	1,80,000	1,80,000
io-Medical, Bio-Techology, Civil, ECE, EEE	1,80,000	1,80,000	1,80,000	1,80,000

	Misc. Fees			
Particulars	I Year	77.11	T	
Admission Fee	Carta III	II Year	III Year	IV Yea
Stationery	2,500			
ID Card	1,700			
Club Activities	300			
Affidavit	500			
Library	250		T TELL	
Sports	500			
RC & NSS	300			
ab Coat	200			- P
ollege Calendar, Associations & Stores	1,500			
eminar, Workshop, softskill training	1,000			
gital Learning support	4,000	ere er		-
umni Association	2,750	700	700	700
iversity Registration	1,000			
gibility	2,000	at at a la		
	500			
Total	19,000	700	700	

Note: \* No Suit \* No Japanese Language Training \* No Lap Top \* No Caution Deposit \* No Books

<sup>\*</sup> General Breakage charges for college and hostel to be collected by the college before semester

<sup>\*</sup> Fee includes Admission fee / Record / Id card / Net Lab / Affidavit / Library / College calendar/Aiumni Association/University Eligibility & Registration

<sup>\*</sup> Misc. Fees Rs. 19000 to be paid for I year only as one time payment. If student wish to pay yearwise, then Rs. 5000 per year may be collected.

<sup>\*</sup> Admission counselling processing charges of Rs. 5000/= is not refundable. When a student reports to the classes this amount will be adjusted in the tuition fee.

(Deemed to be University)

# AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY (AVIT), CHENNAI B E / B.Tech. - 3 Years - Lateral Programme - 2022-23



Tuition Fe	es		9.0
Particulars MAPPS COST 0.1	II Year	III Year	IV Year
I&DS, CSE-Cyber Security, Bio-Medical, Bio-Technology, Civil, SE, ECE, EEE, Mechatronics, Mechanical, Pharmaceutical Engg.	90,000	90,000	90,000

Misc. Fees			
Particulars			in '
Admission Fee	II Year	III Year	IV Year
Stationery	1,000		
ID Card	750		
Digital Learning support	300		
Affidavit	1,000	700	70
Club Activities	250		
ibrary	500		
Sports	500		2.73
RC & NSS	300		
ollege Calendar, Associations & Stores	200		
lumni Association	1,000		
ab Coat - 1 No.	1,000		E LOVE
eminar, Workshop etc. softskill training	1,500		
niversity Registration		700	700
gibility	2,000		
Total	500		25/12/1992
ote:	10,800	1,400	1,400

- \* No Suit \* No Japanese Language Training
- \* No Lap Top
- \* No Caution Deposit
- \* General Breakage charges for college and hostel to be collected by the college before semester
- \* Admission counselling processing charges of Rs. 5000/= is non-refundable. When a student reports to the classes this amount will be adjusted in the tuition fee.

(Deemed to be University)

# AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY (AVIT), CHENNAI

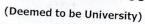
B.E - 3  $\frac{1}{2}$  Years - Part Time Programme - 2022 - 23

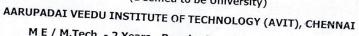
	Tuition Fees			in
Particulars	I Year	II Year	III Year	III 1/2
B.E- ECE / EEE / CSE / MECH / CIVIL				year
, section of the sect	50,000	50,000	50,000	25,000

Misc. Fee	s		in `
Particulars	I Year	II Year	III Year
Admission Fee	500	rear	III Teal
Stationery			
ID Card	1,200		
Digital Learning support	300		
	1,500	700	700
Affidavit	250		700
Library			
College Calendar, Associations & Stores	500		
Seminar / Workshop	1,000		
	1,200	700	700
Alumni Association	750		15.00
Jniversity Registration			
ligibility	1,500		
	500		
Total	9,200	1,400	1,400

### Note:

- \* No Japanese Language Training
- \* No Lap Top
- \* No Caution Deposit
- \* General Breakage charges for college and hostel to be collected by the college before semester
- $^{st}$  Admission counselling processing charges of Rs. 5000/= is non-refundable. When a student reports to the classes this amount will be adjusted in the tuition fee.







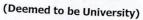
M E / M.Tech. - 2 Years - Regular Programme - 2022 - 23

Tuition Fees		ir
Particulars	I Year	II Year
M E / M.Tech.		
	30,000	30,000

	30,000	30,000
Misc. Fees		in`
Particulars	I Year	II Year
Admission Fee		11 rear
ID Card	1,000	
Digital Learning support	300	
Affidavit	1,500	700
	250	
College Calendar, Associations & Stores	1,000	
ibrary		
Soft Skill Dev. and Traning (In-House)	250	
lumni Association	2,200	700
	1,000	13 7 F.
niversity Registration	3,250	
ligibility		
Total	500	
Total	11,250	1,400

### Note:

- \* No Suit \* No Japanese Language Training \* No Lap Top \* No Caution Deposit
- \* General Breakage charges for college and hostel to be collected by the college before semester examinations
- $^{st}$  Admission counselling processing charges of Rs. 5000/= is non- refundable. When a student reports to the classes this amount will be adjusted in the tuition fee.







Т	uition Fees		in
Particulars	I Year	II Year	III Year
M E / M.Tech.			cai
	50,000	50,000	50,000

Misc. Fee	s		in '
Particulars	I Year	II Year	III Year
Admission Fee	1,000		III I Cai
ID Card	300		
Digital Learning support	1,700	700	700
College Calendar, Associations & Stores	1,000	700	700
Affidavit	250	0.0	
Library			
Seminar & Guest Lectures	250		
Alumni Association	1,000	700	700
	1,000		
Jniversity Registration	3,250		1 5 7c
ligibility	500		
Total	10,250	1,400	1,400

### Note:

- \* No Suit 

  \* No Japanese Language Training 

  \* No Lap Top 

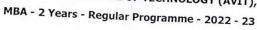
  \* No Caution Deposit
- \* General Breakage charges for college and hostel to be collected by the college before semester examinations
- $^{st}$  Admission counselling processing charges of Rs. 5000/= is non- refundable. When a student reports to the classes this amount will be adjusted in the tuition fee.



(Deemed to be University)

# Faculty of Management

# AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY (AVIT), Chennai



**Particulars** 

**Tuition Fees** 



in

Particulars	I Year	II Yea
MBA		
	80,000	80,000
Misc. Fees		in `
Particulars Admission Fee	I Year	II Year
	1,000	11 Teal
ID Card	300	
Digital Learning support	300	
Affidavit		1,50
Suit	250	
Alumni Association	3,750	
Soft skill training		1,00
Magazine	700	75
Newspaper	1,400	1,400
1MA membership	550	550
hoes and Socks (1 set)	300	300
ormal Bag	0	
ormal Attire	0	
raining and development	0	
niversity Registration		6,500
igibility	3,250	7.00
giolity		

### Note

Japanese Language Training \* No Lap Top \* No Caution Deposit \* No Books

**Total** 

\* No

500

12,000

12,000

- $\ensuremath{^{*}}$  General Breakage charges for college and hostel to be collected by the college before semester examinations
- $^{st}$  Admission counselling processing charges of Rs. 5000/= is non-refundable. When a student reports to the classes this amount will be adjusted in the tuition fee.

**7. Faculty**Course/Branch wise list of Faculty Members — Permanent & Adjunct Faculty

December 4	NI CID 14	D. d	Highest
Department Department Department	Name of Faculty	Designation	Qualification
BIOTECHNOLOGY	DEVIKA R	Professor	PhD
BIOTECHNOLOGY	PRABA SHEELA B	Professor	PhD
BIOTECHNOLOGY	NIRMALA A	Assoc. Professor	PhD
BIOTECHNOLOGY	MOHAMED ADIL A A	Assoc. Professor	PhD
BIOTECHNOLOGY	NAGARAJAN K	Assoc. Professor	PhD
BIOTECHNOLOGY	SHANMUGA SUNDAR S	Assoc. Professor	PhD
BIOTECHNOLOGY	SUBATHRA M	Asst. Professsor	M.Tech
BIOTECHNOLOGY	BHUVANESWARI V	Asst. Professsor	PhD
BIOTECHNOLOGY	NAGALAKSHMI L	Asst. Professsor	M.Phil
BIOTECHNOLOGY	SATHISH V	Asst. Professsor	M.Tech
BIOTECHNOLOGY	SASIKALA A	Asst. Professsor	M.Tech
BIOTECHNOLOGY	KAVITHA M	Asst. Professsor	M.Tech
BIOTECHNOLOGY	SURUTHI S	Asst. Professsor	M.Tech
BIOTECHNOLOGY	RAMYA A K	Asst. Professsor	M.Tech
BIOTECHNOLOGY	MOHANAPRIYA P	Asst. Professsor	М.ТЕСН
BIOTECHNOLOGY	SRIDEVI I	Asst. Professsor	M.E
BIOTECHNOLOGY	SIVAKAVI S	Asst. Professsor	M.Tech
BIOTECHNOLOGY	PREETHI R	Asst. Professsor	M.Pharm
BUSINESS ADMINISTRATION	SHEELA MARY V	Professor	PhD
BUSINESS ADMINISTRATION	BALA GANAPATHY P.S.	Assoc. Professor	MBA
BUSINESS ADMINISTRATION	SUBASHINI.S	Assoc. Professor	MBA
BUSINESS ADMINISTRATION	VANI M	Assoc. Professor	PhD
BUSINESS ADMINISTRATION	THANGARAJA T	Asst. Professsor	MBA
BUSINESS ADMINISTRATION	PRAKASH.R	Asst. Professsor	MBA
BUSINESS ADMINISTRATION	GURUPRASAD.B	Asst. Professsor	MBA
BUSINESS ADMINISTRATION	ARUNMATHI A	Asst. Professsor	MBA

	T	Asst.	1
BUSINESS ADMINISTRATION	TION RAJKUMAR J		MBA
BUSINESS ADMINISTRATION	KAJKUWAK J	Professsor Asst.	WIDA
BUSINESS ADMINISTRATION	DOLLY MISHRA	Professor	PhD
Desires reministration	BOLLI MISIRUI	Asst.	TIID
BUSINESS ADMINISTRATION	BARATHNIVASH V	Professor	MBA
B C S I (B S I I I I I I I I I I I I I I I I I I	Bindini (1 (1 init)	Asst.	1,12,1
BUSINESS ADMINISTRATION	DEEPA M	Professor	MBA
	PRASANNA	Asst.	
BUSINESS ADMINISTRATION	JAYAGOPI	Professor	MBA
CIVIL ENGINEERING	SANGEETHA S P	Professor	PhD
CIVIL ENGINEERING	DIVAHAR R	Professor	PhD
CIVIL ENGINEERING	VIJAYAN D S	Professor	PhD
OT VIE EL (OH (EEKH (O	(WIIIII)	Assoc.	
CIVIL ENGINEERING	ARAVIND RAJ P S	Professor	PhD
		Assoc.	
CIVIL ENGINEERING	VAIDEVI C	Professor	PhD
		Asst.	
CIVIL ENGINEERING	SUBATHRA P	Professor	ME
		Asst.	
CIVIL ENGINEERING	SURIYA PA	Professor	ME
		Asst.	
CIVIL ENGINEERING	JOHNSON DANIEL R	Professor	ME
		Asst.	
CIVIL ENGINEERING	ABIRAMI R	Professsor	M.Tech
		Asst.	
CIVIL ENGINEERING	NIVETHA C	Professsor	ME
		Asst.	
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CIVIL ENGINEERING	NAGESWARI N	Professor	M.E
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CIVIL ENGINEERING	SARAVANAN B	Professor	M.Tech
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CIVIL ENGINEERING	AYYAM PERUMAL T	Professor	M.E.
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ELECTRICAL AND ELECTRONICS ENGINEERING RATTAN KUMAR V Asst. Professsor M.Tech	ELECTRICAL AND ELECTRONICS		Asst.	
ENGINEERING RATTAN KUMAR V Professsor M.Tech	ENGINEERING	PRAKASH S	Professsor	ME
	ELECTRICAL AND ELECTRONICS		Asst.	
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ELECTRICAL AND ELECTRONICS SARANYA D Asst. M.Tech	ELECTRICAL AND ELECTRONICS	SARANYA D	Asst.	M.Tech

ENGINEERING		Professor	
ELECTRICAL AND ELECTRONICS		Asst.	
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ELECTRICAL AND ELECTRONICS		Asst.	
ENGINEERING	SUGANTHI J	Professor	M.E
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10	Dr. N. Rajendra Prasad Asst. Professor, Department of Biochemistry and Biotechnology, Annamalai University Annamalainagar, -608 002	9842305384	drprasadnr@gmail.com
11	Dr. T. Devasena Associate Professor, Centre for Nanoscience and Technology, Anna university, Chennai	9962645151	tdevasenabio@annauniv.edu
12	Shri.Murugan,M.Tech,(Ph.D) Scientific Officer –F Civil Engineering Division, IGCAR, Kalpakkam	9094740892	murugan@igcar.gov.in
13	Shri.Anil Kumar Pillai, M.Tech,(Ph.D) DGM Technical Services, The Ramco Cements Ltd, Chennai	9710433436	akp@ramcocements.co.in
14	Shri.A.Soundararajan,M.Tech Head Engineering Division Eversendai Construction Private Limited Guindy,Chennai	9445003184	asr@eversendai.com
15	Shri.Kirubakar.M Engineering Manager L&T,Chennai	9962022999	kiruba@lntecc.com
16	Shri.Jayaraman,M.Tech Proprietor-Enrich Designs, T nagar ,Chennai	9094774343	ljayaraamn2001@gmail.com

17	Dr. Vijay K. Varadan Professor, Electrical Engineering University of Arkansas	Professor Emeritus, Penn State University, USA	vjvesm@engr.psu.edu
18	Dr.Umashankar,B.E.,M.E.,Ph.D. Asst.Professor,EEET, Yanbu Industrial College, Yanbu Al Sinaiyah, Kingdom of Saudi Arabia.	:+966550762712	umashankar.j@hotmail.com
19	Dr.Swarna Ravindra Babu,B.Tech.,M.Tech.,Ph.D. Founder & CEO-Coovum Smart Systems & Services Pvt.Ltd.,Chennai Formerly working as Principal Engineer in SAMSUNG Electronics	944441818	swarna.ravindrababu@gmail.c om
20	A.Sadogopan, B.Sc.(Phy),M.A.,MBA,M.Phil.,PGDCA, PGDM, FIETE, Retd. AGM BSNL(TN Circle)	9445489551	sadagopan20022002@gmail.co m
21	Shri.K.Venkatraman,B.E.,M.E.,(Ph.D.) Managing Partner Technica, Bio Vision Medical Systems,Chennai	9176132035	venkat.biomed@gmail.com
22	Shri Ganesh Bala, Director-Engineering, Asia, Amphenol Antenna Solutions, India	9176627895	ganesh.b@amphenol- antennas.com
23	Dr. Shivashankar Sukumar Post-Doctoral researcher Institute of Power Engineering (IPE), University Tenega Nasional (UNITEN), Malaysia.	601153563676	shiva.power1985@gmail.com
24	Mr.C.S.Sivakumaar Deputy General Manager, Solar Inverter Generator Manufacturing, Seimens Gamesa Renewable Energy Limited, Nellore, Andra Pradesh.		c.s.sivakumaar@gmail.com
25	Prof. Dr. rer. pol. Markus Dietrich Rehfeldt Leibniz University Hanover, Germany, ** Joining of Materials ** Welding Technology	(+49 7571) 732 - 0	dr.rehfeldt@googlemail.com
26	Dr.Purushothaman Damodaran Professor & Chair, Department of Industrial& Systems Engineering, Northern Illinois University	8157535660	pdamodaran@niu.edu
27	Mr.S.Senthil Kumar GM-HR,Turbo Energy Limited, Paiyanoor	9840271720	senthilkumar.s@turboenergy.c o.in
28	Mr.Rajesh Ramanujam, GM, Ford Automotive	9677091107	cbe_rajesh@yahoo.com
29	Mr.P.Madan Raj Asst. Manager, Power Train Testing, Renault Nissan	9840970971	madanraj.pratab@rntbci.com

30	Mr.K.Ponraj, Executive Engineer Siemens Ltd.,	9940515094	ponrj@yahoo.com
31	Mr. V.Dhanasekaran, Sr. Strategic buyer Rotork, Chennai	9840866309	saidhanasekaran@gmail.com
32	Mr. K. Ramamurthi Former Professor of Physics Bharathidasan University Tiruchirappalli	9499009516	krmurthin@yahoo.co.in
33	Dr Chockalingam Aravind Vaithilingam, Associate Professor, School of Engineering Taylor's University, Malaysia	60-123543891	aravindcv@ieee.org chockalingamaravind.vaithilin gam@taylors.edu.my
34	Dr.M.Muruganandam IBRI College of Technology, PO Box: 466, Postal Code:516, Al Aqder, Ibri, Sultanate of Oman.	+968-94135528 (Oman)	muruganm1@gmail.com <u>Muruganandam.Masilamani@i</u> <u>brict.edu.om</u>
35	Dr.J.Sam Alaric College of Engineering and Technology, Wollega University, Nekemte, Ethiopia	9486756683	samalaric@gmail.com
36	Prof.Dr.Abdul Quaiyum Ansari Jamia Milia Isalmia, New Delhi- 110025	9873824597	aqansari@ieee.org aqansari@jmi.ac.in
37	Prof.AvinsashKeskar, VNIT, Nagpur	09422147650	agkeskar@ece.vinit.ac.in avinashkeskar@yahoo.com
38	Prof.Ibraheem Jamia Milia Isalmia, New Delhi-110025	9810134008	ibraheem_2k@yahoo.com

Permanent Faculty: Student Ratio

1:15

# 8. Profile of Principal

Name : Dr. G. SELVAKUMAR, B.E., M.E., Ph.D.

Father's Name: Mr. N.GOPALASAMY, M.A., M.Sc., M.Ed., Retd.HM

Mother's Name : Mrs. G.KASTHURI, Retd.HM

**Date of Birth&Age** : 03-06-1970, 51Years

Sex :Male

Nationality :Indian

ContactAddress : Villa 82, S&P

Signature Villas, Nedungundram, Vandalur Tk, Chennai - 600127.

**MobileNo.** 08754203355

E-mailID

gsk7070@gmail.com

**ReligionandCommunity**: Hindu, BC

**Educational Qualification**:

Course	Institution /	Year of	Percentage	Class
	University	Passing	of Marks	
B.E.(EEE)	Madurai	April, 1991	75.25	First Class With
	Kamaraj	_		Distinction
	University			
M.E. (POWER	R.E.C., Trichy.	December,	70.00	First
SYSTEMS)	Bharathidasan	1992		
	University			
Ph.D.	Anna			
(Faculty of	University,			
Electrical	Chennai	May, 2008		
Engineering)				

# **Work Experience (Total experience = 28 years)**

S.No.	Organization	Designation		riod	Nature of Work
3.110.	Organization	Designation	From	То	Nature of Work
1.	Instrumentation Division, CRTL, <b>Central Power Research Institute</b> , P.B. No. 9401, Bangalore –560094		01.06.1992	31.12.1992	For M.E. Project Work
2.	Department of Electrical and Electronics Engg., <b>P.S.G.</b>		23.06.1993	29.04.1994	Handled Theory and Laboratory Classes and worked as Research
2.	College of Technology, Lecumbatore – 641 004, T.N.		01.06.1994	15.03.1995	Assistant Under Project IMPACT (A world bank project)
3.	Department of Electrical and Electronics Engg., Institute of Road and Transport Technology (IRTT), Erode (QuasiGovernment Institution established by Transport Corporation of Tamilnadu)	Lecturer	16.03.1995	06.07.2006	Handled Theory and Laboratory Classes for UG Engineering Students
	Department of Electrical	HoD – EEE	07.07.2006	31.05.2008	Administering the

4.	Sciences, V.M.K.V. Engineering College, Salem – 636308. (Vinayaka Missions Research Foundation)	Dean – Elect. Sciences & Students Affairs	01.06.2008	11.05.2010	Departments of EEE, EIE, ECE, BMEand ETE as Dean. Also looking after all affairs pertaining to students
5.	Annapoorana Engineering College, Salem – 636308.	Principal	12.05.2010	11.05.2013	teaching EEEsubjects
6.	Excel Engineering College, Komarapalayam.	Vice Principal	16.05.2013	31.05.2014	Assisting the Principal in the administration and teachingsubjects
7.	Muthayammal Engineering College, Rasipuram (Autonomous)	Dean – Electrical Sciences	02.07.2014	31.03.2019	Administering the Departments of EEE, ECE and EIE. Also Coordinator for NBA, NAAC,Autonomous and R & D activities of the institution.
8.	SRM Institute of Science and Technology – Ramapuram Campus	Dean – Engineering & Technology	16.05.2019	19.01.2021	Head of the Institution
9.	SRM Group ofInstitutions – Ramapuram Campus	Dean – Innovation, Incubation and Entreprene urship	20.01.2021	31.05.2021	Promoting Student Innovations, establishing Business Incubators, Making the students as Entrepreneurs, Industry Connect, Awards and Ranking
10.	Aarupadai Veedu Institute of Technology, Paiyanoor. (Vinayaka Missions Research Foundation)	Principal	10.06.2021	Till Date	Administering the whole college

# **Professional Society Membership:**

- Fellow IE(I) (F 1201125)
- Member of IEEE (90472348)
- Member of IEEE Signal ProcessingSociety
- MemberofIEEEComponents, Packaging and Manufacturing Technology Society
- Member of IEEE Biometrics Council
- Member of IEEE Council on Electronic DesignAutomation
- Member of IEEE NanotechnologyCouncil
- Member of IEEE SensorsCouncil
- Members of IEEE SystemsCouncil
- Member of IEEE Industrial Electronics Society
- Member of IEEE Robotics and AutomationSociety
- Life Member of ISTE (LM30460)
- Life Member of Advanced Computing and Communications Society(ACCS)
   (L310A1523471)
- Fellow of International Society for Research and Development(ISRD)

(F3140900408)

- SeniorMemberofInstituteofResearchEngineersandDoctors(iRED)ofUACEE (SNM1010001773)
- Life Member of Biomedical Engineering Society of India(BMESI)
- Member of International Association of Engineers (IAENG)(185502)
- SeniorMemberofInternationalAssociationofComputerScienceandInformation Technology(IACSIT)
- Member of International Association of Information TechnologyCommunication and Development(IAITCD)
- Member of International Association of Computer Science and Information Systems(IACSIS)
- Member of IACSIT Signal Processing Society(SPS)
- Member of IACSIT Bioinformatics and Biomedical Engineering Society(BBES)
- Member of IACSIT Software Engineering Society(SES)
- MemberofInternationalAssociationofAdvancesinEngineeringandTechnology (IAAET)

**AICTE - ISTE** Sponsored Summer/Winter Schools Attended:

S.No.	Title of the course	Organized by	Duration & Period
1.	Transmission and Distribution	Muthayammal College of	1 week
		Engineering	04 <sup>th</sup> to 10 <sup>th</sup> December,
			2018
2.	Recent	PSG College of	2 weeks
	Trends in	Technology,Coimbatore	9 <sup>th</sup> to 22 <sup>nd</sup> Nov, 2003
	Biomedical		
	Instrumentation		
3.	Unified Approach for Industrial	Kongu Institute of	2 weeks
	and	Technology, Perundurai	9 <sup>th</sup> to 22 <sup>nd</sup> Nov, 2000
	Medical Instrumentation.		
4.	Neural Networks applied to	IRTT, Erode	2 weeks
	Pattern		29 <sup>th</sup> May to 11 <sup>th</sup> June,
	Recognition		2000
5.	Advanced Digital Signal	NSS College of	2 weeks
	Processing	Engineering, Palakad	8 <sup>th</sup> to 21 <sup>st</sup> May 2000
	and its Applications		
6.	Digital Protection of Power	CIT, Coimbatore	2 weeks
	Systems		15 <sup>th</sup> to 28 <sup>th</sup> Nov, 1999
7.	Induction Training Programme	PSG College of	3 weeks
		Technology	6 <sup>th</sup> to 26 <sup>th</sup> Nov, 1995
		andBharathiar	
		University, Coimbatore	

# **Faculty Development Programmes attended:**

1. Facultydevelopmentprogrammeon"**PowerSystemOperation**" organizedbyIRTT, Erode and sponsored by Anna University, Chennai

from  $13^{th} - 18^{th}$  December, 2004.

 Programme on "Train the Trainers on Soft Skills" organized by WIPRO, Chennai andSponsoredbyELCOTandAnnaUniversity, Chennaion06<sup>th</sup>and7<sup>th</sup>March, 2008.

3. ICTACT Bridge 2012 – A conference on Focus on Entrepreneurship and

**Incubation,**organizedbyICTAcademyofTamilnaduinassociationwithNASSCO Mat Chennai on 22<sup>nd</sup> February 2012.

- 4. Workshop on "**Effective Utilization of NPTEL**" organized by NPTEL Team, IIT Madras at Chennai on 20<sup>th</sup> September2013.
- 5. Participated in the "**National Higher Education Conclave**" organized by Confederation of Indian Industry at Coimbatore on 29<sup>th</sup> and 30<sup>th</sup> November, 2013.
- 6. Participated in the "Indian Technology Congress 2014" conducted on the theme "Advanced Technology as Change Agent to make India as Economic Superpower" organized by Institute of Engineers (India) at NIMHANS Convention Centre, Bangalore on 21<sup>st</sup> and 22<sup>nd</sup> August,2014.
- 7. Participatedinthe"MSME— MakeinIndiaExpo"organizedbyMSMEDevelopment Institute, Chennai, Government of India, at Salem sponsored by Sona College of Technology, Salem on 06<sup>th</sup> and 07<sup>th</sup> November,2015.
- 8. Participated in Student Entrepreneurship Promotion through Industry Institute Connect organized by Salem Productivity Council on 18<sup>th</sup> December,2018.
- 9. Attended the Online Training on "Lean Six Sigma Yellow Belt" organized by MSME Technology Development Centre (PPDC), Ministry of Micro, Small and Medium Enterprises, GoI, Agra on 27th June, 2020 and 28th June, 2020.
- Participated in the Online International Webinar on "How to be a Successful Entrepreneur?" organized by MSys Technologies, USA on 10<sup>th</sup> July,2020.
- 11. Attended the Online Training on "Intellectual Property Rights (IPR)" organized by MSME Technology Development Centre (PPDC), Ministry of Micro, Small and Medium Enterprises, GoI, Agra on 21<sup>st</sup> July, 2020 and 22<sup>nd</sup> July, 2020.

**Research**Experience : 21 years

**AreasofInterest** : Bio Medical

Instrumentation Bio Signal Processing Digital Signal Processing PowerElectronics Power Systems Intelligent Techniques

ResearchArea : Wavelet Transform Based Detection of ECGAbnormalities

Awards :

- Finalist in The Best Techno Faculty Award 2014 awarded by ICTACT and powered by Syntel,recognizingthespiritofparticipation and the efforts made to empower the students.
- 2. Received "Exceptional Academic Administrator & Researcher Award" from Journal ofEngineeringTechnologicalResearch,EngineeringTodayinassociationwithSoci etyof Engineers and Technicians, Kuala Lumpur, Malaysia on 11<sup>th</sup>& 12<sup>th</sup> March 2017 at Kuala Lumpur,Malaysia

### **Presentation in National / International Conferences:**

- 1. "An alternate approach in finding optimum load impedance for maximum power transfer using vector representation", Proc. of the WSEAS International Conference on Instrumentation, Measurement, Control, Circuits and Systems (IMCCAS 2003), Malta, September 1-3, 2003.(International)
- 2. "Adjustable speed control of single phase induction motor using high performance digital signal processor", National conference on Recent Trends in Industrial Electronics, Drives and Control, Annamalai University.(National)
- 3. "AnEfficientQRSComplexDetectionAlgorithmusingOptimalWavelet",Proc.oft he6<sup>th</sup> WSEAS International Conference on Signal Processing, Computational Geometry and Artificial Vision, Elounda, Greece, August 21-23, 2006, pp. 50 55.(International)
- **4.** "Wavelet Decomposition for Detection and Classification of Critical ECG Arrhythmias", Proc. of the 8<sup>th</sup> WSEAS Int. Conf. on Mathematics and Computers in Biology and Chemistry, Vancouver, Canada, June 19-21, 2007, pp. 80-84.(**International**)
- 5. "A Review of Wavelets in ECG Feature Extraction", Proc. of the International Symposium on Global Trends in Bio Medical Informatics Research, Education and Commercialization, Chennai, India, January 11 12, 2008.(International)
- **6.** "Wavelet Based Detection of Ventricular Arrhythmias with Neural Network Classifier", Proceedings of World Academy of Science, Engineering and

Technology, Volume 60, December 2009, ISSN: 2070-3724, pp. 518 - 522. (This paper was presented in the International Conference on Computer, Electrical and Systems Science and Engineering (CESSE 2009), Bangkok, Thailand, December 25 – 27, 2009).(International)

- 7. "Detection of Ventricular Late Potentials Using Wavelet Transform and ANT Colony Optimization", Proceedings of the International Conference on Modeling, Optimization and Computing (ICMOC 2010), Volume 1298, 28 – 30 October 2010, ISBN: 978-0-7354-0854-8, ISSN: 0094 -243X, pp. 331 – 337. (This is an American Institute of Physics Conference sponsored by National Institute of Technology, Durgapur, SERC, Department of Science Technology, Govt. of India, Caledonian College Engineering, Sultanate of Oman, BRNS, Department of Atomic Energy, Govt. of Ind iaand DRDO, Ministry of Defence, Govt. of India. (Indexed by **SCOPUS**)(International)
- 8. "ECG Analysis using Nature Inspired Algorithm", Proceedings of World Academy of Science, Engineering and Technology, pISSN: 2010-376X, Issue 60, December 2011, pp. 17-21. (This paper was presented in the 2011 International Conference onBioinformatics, Computational Biology and Biomedical Engineering (ICBCBBE 2011), Bangkok, Thailand, December 25 26, 2011). International Travel Grant was sanctioned by Department of Science and Technology (DST), Government of India. (International)
- **9.** "Implementation of Universal Active Power Filter for improving Power Quality using Fuzzy Controller", Proceedings of the National Conference on Recent Advancements & Challenges in Electrical Engineering and Applications organized by IRTT, Erode, 29<sup>th</sup> February & 01<sup>st</sup> March,2012.
- 10. "AZVSBidirectionalDC-
  - DCConverterPhaseShiftedSPWMControlforHybridElectric and Fuel Cell Automotive Application", Proceedings of the 2012 IEEE International Conference on Advances in Engineering, Science and Management (ICAESM 2012) organized by EGS Pillay Engineering College, Nagapattinam, pISBN: 978-1-4673-0213- 5, 30 31 March 2012, pp. 700 703. (**This paper is published in IEEE Xplore**) (**Indexed bySCOPUS**)
- **11.** "AnEfficientApproachforVoltageStabilityImprovementbasedonArtificialBeeC olony Algorithm", Proceedings of the 2014 International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID 2014), organized by Ponjesly College of Engineering, Nagercoil, Tamilnadu, ISBN: 978-93-80609-17-1, 07 & 08 March, 2014, pp. 1490 1495. (**This paper is published in IEEEXplore**)
- 12. "Feature Extraction of Lung Nodules in Computer Aided Tomography",

- Proceedings of National Conference on Pure and Applied Mathematics (NCPAM'14), ISSN: 978-93- 83459-46-9, organized by Mathematics Division, School of Applied Sciences (SAS), VIT University, Chennai, 25-26 April, 2014, pp. 163-168.
- 13. "Automation of Lung Nodule Segmentation using Artificial Neural Network in CT Lung Images", Proceedings of International Conference on Computing, Engineering and Technologies (ICCET 2014), Mysore organized by The World Academy of Research in Science and Engineering (WARSE), 07 July 2014, pp. 16–19.
  - **14.** "Direct Torque and Flux Control of Induction Motor Using Intelligent Technique", Proceedings of the National Conference on Recent Trends in Communication, Control & ComputingApplications(RTC3A'15),organizedbyDepartmentofECE,CAREGr oupofInstitutions, Tiruchirapalli, 09<sup>th</sup> March, 2015.
- **15.** "Implementation of GSM based Automatic Change over System for Electric Generators", Proceedings of the International Conference on Electrical Engineering Technology (ICEET) in Multicon'15 organized by Muthayammal Engineering College, Rasipuram, 29<sup>th</sup>& 30<sup>th</sup> April,2015.
- **16.** "ReplacementofTTEwithhandhelddevice", Proceedingsofthe International Conference on Advances in Communication Technology (ICACT) in Multicon' 15 organized by Muthayammal Engineering College, Rasipuram, 29<sup>th</sup> & 30<sup>th</sup> April, 2015.
- **17.** "Digital Reservation Chart Display and GPS based Train Locator on trains", Proceedings of the International Conference on Advances in Communication Technology (ICACT) in Multicon'15 organized by Muthayammal Engineering College, Rasipuram, 29<sup>th</sup>& 30<sup>th</sup> April, 2015.
- **18.** "GSM Based Cell Phone usage avoidance while driving with Accident Emergency Alert System", Proceedings of the International Conference on Advances in Communication Technology (ICACT) in Multicon'15 organized by Muthayammal Engineering College, Rasipuram, 29<sup>th</sup>& 30<sup>th</sup> April,2015.
- **19.** "GPS Tracking System based Traffic Light Controller to assist Ambulances for quick shifting of Patients", proceedings of 3<sup>rd</sup> International Conference on Engineering, Technology and Science (ICETS'16) organized by Muthayammal Engineering Institutions, Rasipuram, 18<sup>th</sup> & 19<sup>th</sup> March,2016.
- **20.** "Patient Monitoring System with emergency message transfer and GPS tracking system for quick shifting of patients", proceedings of the International Conference on Adaptive Technologies for Sustainable Growth (ICATS-2016) organized by Paavai Engineering College, Namakkal, 13<sup>th</sup> & 14<sup>th</sup> May,2016.

- **21.** "Smart Ambulance" proceedings of the National Conference on Recent Trends in Electronics and Communication Engineering (NCRTECE'17) organized by SMK Forma Institute of Technology, Chennai, 24<sup>th</sup> February,2017.
- 22. "An Efficient Attendance Management System based on face using MATLAB and Raspberry Pi 3", proceedings of the International Conference on Intelligent Computing, Nano Science and Renewable Energy Sources (ICICNRES-18) organized by Selvam College of Technology, Namakkal, 08<sup>th</sup> & 09<sup>th</sup> March, 2018.
- **23.** "Embedded Device to assist mobility of Visually Impaired", proceedings of the DST- SERB Sponsored International Conference on Innovations in Science, Engineering and Technology for Sustainable Development organized by Muthayammal Engineering College, Rasipuram, 30<sup>th</sup>& 31<sup>st</sup> March,2018.
  - 24. "Remote Monitoring System Design for Photovoltaic Panels", proceedings of the DST-SERBSponsoredInternationalConferenceonInnovationsinScience,Engineering andTechnology for Sustainable Development organized by Muthayammal Engineering College, Rasipuram, 30<sup>th</sup>& 31<sup>st</sup> March, 2018.
- **25.** "Burglary Prevention systems in ATM Centres", proceedings of the International Conference on Information Sciences and Renewable Energy Sources (ICISRES-2k19) organized by Selvam College of Technology, Namakkal in association with Institution ofEngineers (India), 07<sup>th</sup>& 08<sup>th</sup> March,2019.
- **26.** "AnIoTbasedSmartCarParkingSystem",proceedingsoftheInternationalConfere nceon Information Sciences and Renewable Energy Sources (ICISRES-2k19) organized by Selvam College of Technology, Namakkal in association with Institution of Engineers (India), 07<sup>th</sup> & 08<sup>th</sup> March,2019.
- 27. "Prevention of Mobile Phone usage while Driving", proceedings of the 7<sup>th</sup> National Conference on Networking and Communication Systems (NCS '19) organized by the Department of CSE and IT, Excel Engineering College, Komarapalayam in association with Indian Society for Technical Education, 15<sup>th</sup> March, 2019.

National	Internation	Total
05	22	27

## **International /National Journal Publications**:

1. K.Bhoopathy Bagan, K.Mozhiarasi, N.P.Subramaniam, M.Manikandan, G.Selvakumar, "An alternate approach in finding optimum load impedance for maximum power transfer using vector representation", WSEAS Transactions

- on Circuits and Systems, Issue 2, Volume 2, April 2003, pp.332 –337.
- 2. G.Selvakumar, K.Boopathy Bagan, "An Efficient QRS Complex Detection Algorithm using Optimal Wavelet", WSEAS Transactions on Signal Processing, Issue 8, Volume 2, August 2006, pp.1069 –1073.
- 3. Sankara Subramanian Arumugam, Gurusamy Gurusamy, Selvakumar Gopalasamy, "Wavelet Based Detection of Ventricular Arrhythmias with Neural Network Classifier", International Journal of Biomedical Science and Engineering, Vol.2, No.6, October 2009, pp.439-444.
- 4. Sankara Subramanian Arumugam, Gurusamy Gurusamy, Selvakumar Gopalasamy, "ApplicationofWaveletsinECGFeatureExtraction—Areview",InternationalJournalof Biomedical Engineering and Consumer Health Informatics, Volume 1, Number 2, July December 2009, pp. 71-75.
  - 5. Sankara Subramanian Arumugam, Gurusamy Gurusamy, SelvakumarGopalasamy, "Detection of Ventricular Late Potentials using Wavelet Neural Approach", European Journal of Scientific Research, ISSN: 1450-216X, Vol. 58, Issue 1, 2011, pp. 11 20. (Indexed by SCOPUS) (H Index: 22)
- 6. Sankara Subramanian Arumugam, Gurusamy Gurusamy, Selvakumar Gopalasamy, "A New Ventricular Late Potential Classification System using ANT Colony Optimization", Journal of Computer Science, ISSN: 1549-3636, Vol. 8, Issue 2, 2012, pp. 259-264. (Indexed by SCOPUS) (H Index:14)
- 7. C.N.Ravi, G.Selvakumar, C.Christober Asir Rajan, "Hybrid Real Coded Genetic Algorithm Differential Evolution for Optimal Power Flow", International Journal of EngineeringandTechnology(IJET),ISSN:0975-4024,Vol.5,No.4,Aug—Sep,2013,pp. 3404-3412. (Indexed by SCOPUS and listed in Annexure II of Anna University, Chennai list of journals, S. No.: 8187) (H Index: 5)
- 8. D.Godwin Immanuel, G.Selvakumar, C.Chritober Asir Rajan, "A Multi Objective Differential Approach for Optimal Reactive Power and Voltage Control", Indian Streams ResearchJournal(ISRJ),ISSN: 2230-7850,Vol.3,Issue8,September2013,pp.01–08.
- 9. D.Godwin Immanuel, G.Selvakumar, C.Chritober Asir Rajan, "A Hybrid Genetic Algorithm Based on Differential Evolution Approach for Optimal Reactive Power Control", Indian Journal of Applied Research (IJAR), ISSN: 2249-555X, Vol. 3, Issue 10, October 2013.
- 10. G.T.Sundar, G.Selvakumar, C.Christober Asir Rajan, "Design and Simulation of Neuro-FuzzyControllerforPowerFactorCorrectionofThreePhaseDiodeRectifierusingS

- hunt Active Harmonic Filter", International Journal of Scientific Research (IJSR), ISSN:2277- 8179, Vol. 2, Issue 10, October 2013. **Impact Factor:3.2416**
- 11. D.Godwin Immanuel, G.Selvakumar, C.Chritober Asir Rajan, "Differential Evolution Algorithm Based Optimal Reactive Power Control for Voltage Stability Improvement", Applied Mechanics and Materials (AMM), ISSN: 1660-9336, Vols. 448-453 (2014), pp. 2357-2362. (Indexed by Elsevier and SCOPUS) (Listed in Annexure II of Anna University, Chennai list of journals, S. No.: 1434) (H Index:11)
- 12. K. Venkatesan, G. Selvakumar, C. Chritober Asir Rajan, "EPbased PSO method for olving Multi Area Unit Commitment Problem with Import and Export Constraints", Journal of Electrical Engineering and Technology (JEET), ISSN:1975-0102, Vol.9, No.2, 2014, pp. 415 422. (Indexed by SCOPUS and Thomas Reuters) (Listed in Annexure I of Anna University, Chennai list of journals, S. No.: 4527) (H Index:10)
- 13. D.Godwin Immanuel, G.Selvakumar, C.Chritober Asir Rajan, "A Hybrid Genetic AlgorithmBasedonDifferentialEvolutionApproachforVoltageStabilityImprove ment", InternationalJournalofComputerApplications(IJCA),ISSN:0975-8887,Vol.86,No.16, January 2014, pp. 29 –32.
- 14. D.Godwin Immanuel, G.Selvakumar, C.Chritober Asir Rajan, "A Multi Objective Hybrid Differential Evolution Algorithm assisted Genetic Algorithm Approach for Optimal Reactive Power and Voltage Control", International Journal of Engineering and Technology (IJET), ISSN: 0975-4024, Vol. 6, No. 1, Feb Mar, 2014, pp. 199 203. (Indexed by SCOPUS and listed in Annexure II of Anna University, Chennai list of journals, S. No.: 8187) (H Index:5)
- 15. D.Godwin Immanuel, G.Selvakumar, C.Chritober Asir Rajan, "An Efficient Approachfor Voltage Stability Improvement based on Artificial Bee Colony Algorithm", Advanced Materials Research (AMR), ISSN: 1022-6680, Vols. 984-985 (2014), pp. 990 995. (Indexed by Elsevier and SCOPUS) (Listed in Annexure II of Anna University, Chennai list of journals, S. No.: 416) (H Index:16)
- 16. S.Saravanan, G.Selvakumar, C.Amarnath, S.Manikandan, "Automation of Lung Nodule Segmentation using Artificial Neural Network in CT Lung Images", International Journal ofScienceandAppliedInformationTechnology(IJSAIT),ISSN:2278– 3083,Vol.3,No. 3, 2014, pp. 16–19.

- 17. C.N.Ravi, G.Selvakumar, "Solving Combined Economic Emission Dispatch with Valve Point Loading Problem using Firefly Algorithm", International Journal of Applied Engineering Research, Research India Publications (RIP), ISSN: 0973-4562, Vol. 10, No. 2, 2015), pp. 4111 4121. (Indexed by SCOPUS) (Listed in Annexure II of Anna University, Chennai list of journals, S. No.: 8565) (H Index:3)
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Anna University	Anna University Annexure – II	Other s	Tota 1
Annexure – I			
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Google Scholar Indexed		Scopus Indexed			Web of Science Indexed			
No.	Citation	Н-	No.	Citation	Н-	No.	Citation	Н -
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- 74. Kyeong-Seop Kim, "Assessment of Premature Ventricular Contraction ArrhythmiabyK-meansClusteringAlgorithm", TheKoreanSocietyOfComputer And Information, Journal of the Korea Society of Computer and InformationVol. 22, No. 5 (Wn. 158), 2017.5, pp. 65–72.
  - 75. R.Arun Kumar and V.Sivachidambaranathan, "Implementation of ZVS Resonant Converter with series-connected Transformers", International Journal of PureandApplied Mathematics, ISSN: 1311 8080, Vol. 118, No. 16, January 3, 2018, pp.1131 1148.
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- 77. Vrushabh G. Vyapari, Vaishnavi N. Waikar, Shweta D. Suryawanshi, J. Tikhe, "A Review on Smart Generator Control using Android Application", Internationalof Research Journal Engineering and Technology (IRJET), ISSN: 2395 – 0072, Vol. 5, Issue 1, January, 2018, pp. 1340 – 1342.
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- 85. Uttam R, Supreeth Arabi, Aatman Mantri and Surabhi Rakhecha, "Evaluation of Performance of Cloud Based Neural Network Models on Arrhythmia Classification", Proceedings of the 2018 IEEE International Conference on Cloud Computing in Emerging Markets (CCEM), Bangalore, India, November 23 & 24, 2018, pp. 23 27. (Published in IEEEXplore)
- 86. Ashutosh Bhadoria and Vikram Kumar Kamboj, "Optimal generation scheduling and dispatch of thermal generating units considering impact of wind penetration using hGWO-RES algorithm", Applied Intelligence The International Journalof Research on Intelligent Systems for Real Life Complex Problems, ISSN: 0924 669X, Springer US, Vol. 48, No. 12, December 2018.
- 87. P.D.Sai Manoj, Axel Jantsch and Muhammad Shafique, "Computer-Aided Arrhythmia Diagnosis with Bio-signal Processing: A Survey of Trends and Techniques", ACM Computing Surveys, Vol. 9, No. 4, March 2019, pp. 1 -35.
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### PhD Supervisor/ DC Member / Examiner:

- 1. Ph.D. Supervisor in Anna University, Chennai
- 2. Member of Board of Examiners to adjudicate the Ph.D. thesis for OsmaniaUniversity, Hyderabad.
- 3. Ph.D. Supervisor in Sathyabama University, Chennai.

- 4. Ph.D. Supervisor in JNTU, Anantpur.
- 5. Doctoral Committee Member in Anna University of Technology, Coimbatore.
- 6. Doctoral Committee Member in SRM University, Chennai.

# ResearchGuidance:

Programme	Ongoing	Degree Awarded
Ph.D.	2	08

# ResearchProjects:

S.No.	Major/Minor	Fundingage ncy	Sanctioned Amount	Ongoing/ Completed
1.	Travel Grant for attending International	DST, Govt. of	24,300.00	Completed
	Conference in Bangkok, Thailand, on	India		
	25.12.2011 &			
	26.12.2011			
2.	To setup Business Incubator at	MSME, Govt. of	65,00,000.00	Got Approval
	Muthayammal EngineeringCollege	India	per year for5	for the
			years	establishment of
				Business
				Incubator
3.	Robot To Rescue The Lives Trapped	Texas	1,00,000.00	Completed
	In The Bore Wells	Instruments		
4.	Technology Business Incubator (TBI)	DST – NIDHI,	Expected	Applied
		Govt.	Funding:	
		of India	Rs.28 Crores	
5.	To setup New Gen Innovation and	DST -	Expected	Applied
	Entrepreneurship Development Centre	NSTEDB,	Funding:Rs.2	
	(NewGen IEDC)at	Govt. of India	.6 Crores	
	Muthayammal Engineering College			
6.	Entrepreneurship Awareness Camps – 3 Nos.	DST –	Rs.60,000	Completed
		NIMAT		
7.	Women Entrepreneurship Development	DST –	Rs.2,00,000	Ongoing
	Program (WEDP) – 2 Nos.	NIMAT		
8.	Technology Based Entrepreneurship	DST –	Rs.1,60,000	Ongoing
	Development Program (TEDP)	NIMAT		

# **University Assignments:**

- 1. MemberofVigilanceSquadforAnnaUniversity,ChennaiUG/PGPracticalExaminations.
- Question paper setter for Anna University, GCT, Coimbatore, Pondichery University, Madras University, Sastra University, Manonmaniam Sundaranar University, Priest University, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University, Kancheepuram, Bannari Amman Institute of Technology and Vinayaka Missions University.
- 3. Examiner for Anna university theory and laboratory examinations.
- 4. Examiner for Pondicherry University theory and laboratoryexaminations.

#### **International Conference Chair:**

- 1. Program Committee Chair for 2016 8th International Conference on Mechanical and Electronics Engineering (ICMEE 2016), Nanjing, China, September 17 18,2016.
- 2. Program Committee Chair for 2016 7th International Conference on Electronics and Information Engineering (ICEIE 2016), Nanjing, China, September 17 18,2016.
- 3. Member of Technical Program Committee for the 2016 International Conference on Materials Applications and Engineering (ICMAE 2016), Qingdao, China, June 25 26, 2016.
- 4. MemberofInternationalScientificCommitteeforthe2016InternationalConferenceonInformatics, Management Engineering and Industrial Application (IMEIA2016), Phuket, Thailand, April 24 25, 2016.
- 5. Member of Advisory Committee for the National Conference on Innovations in Computing and Communications (ICC'16), organized by the Departments of CSE and ECE, Sri Shanmuga College of Engineering and Technology, Sankari, Tamilnadu, April 02, 2016.
- 6. Member of International Scientific Committee for the 2016 International Conference on Power, Energy Engineering and Management (PEEM 2016), Bangkok, Thailand, January 24 25,2016.
- 7. Member of Technical Committee for the 2016 4<sup>th</sup> International Conference on Computer Science and Electronics Engineering (ICCSEE 2016), Qingdao, China, January 09 10, 2016.
- 8. Member of Technical Committee for the 2015 4th International Conference on Emerging Trends in Electrical and Computer Technology (ICETECT 2015), Qingdao, Shandong, China, December 26 27.2015.
- 9. Member of Technical Committee for the 2015 7th International Conference on Materials, Chemistry and Environmental Engineering (ICMCEE 2015), Qingdao, Shandong, China, December 26 27,2015.
- 10. MemberofTechnicalCommitteeforthe20156<sup>th</sup>InternationalConferenceonAdvancesin Circuits, Electronics and Micro-Electronics (CENICS 2015), Xi'an, Shaanxi, China, December 12 13,2015.
- 11. Member of Technical Committee for the 2015 International Conference on Information Engineering and Innovation Project Management (IEIPM 2015), Xi'an, Shaanxi, China, December 12 13,2015.
- 12. Member of Technical Committee for the 2015 4th International Conference on Process Automation,

- Control and Computing (PACC 2015), Xi'an, Shaanxi, China, December 12 13,2015.
- 13. MemberofTechnicalCommitteeforthe20153<sup>rd</sup>InternationalConferenceonEconomics, Machinery, Materials and Information Technology Applications (ICMMITA 2015), Qingdao, Shandong, China, November 28 29,2015.
- 14. Member of Technical Program Committee for the 2015 2<sup>nd</sup> International Conference on Manufacturing Technology and Electronics (ICETEA 2015), Chongqing, China, November 28 29, 2015.
- 15. Member of Technical Program Committee for the 2015 International Conference on Economics, Management, Engineering and Education Technology (ICEMEET2015), Chongqing, China, November 28 29, 2015.
- 16. Member of Technical Program Committee for the 2015 5<sup>th</sup> International Conference on Electronics Technology and Computer Applications (ICETCA 2015), Chongqing, China, November 28 29,2015.
- 17. Member of Program Committee for the  $2015 \, 6^{th}$  International Conference on Information Technology and Advanced Materials Engineering (ICITAME 2015), Sanya, Hainan, China, November 14-15.2015.
- 18. Member of Program Committee for the 2015 4<sup>th</sup> International Conference on Sustainable ConstructionMaterialsandComputerEngineering(SCMCE2015),Sanya,Hainan,China, November 14 15, 2015.
- 19. Member of Program Committee for the 2015 International Conference on Microelectronics and Information Technology (ICMIT 2015), Sanya, Hainan, China, November 14 15, 2015.
- 20. Member of Technical Committee for the 2015 2<sup>nd</sup> International Conference on Power, Energy and Environmental Science (ICPEES 2015), Changsha, China, October 24 25, 2015.
- 21. Member of Technical Program Committee for the 2015 2<sup>nd</sup> International Conference on Civil, Environment and Transportation Engineering (ICCETE 2015), Changsha, China, October 24 25,2015.
- 22. Member of Technical Program Committee for the 2015 International Conference on InternetofThingsandInformationTechnology(ICITIT2015),Changsha,China,October 24 25,2015.
- 23. Member of Technical Committee for the 2015 4th International Conference on Communication, Electronics and Automation (ICCEAE 2015), Changsha, Hunan, China, October 24 25,2015.
- 24. Member of Technical Committee for the 2nd International Conference on Electrical, Computer, Control Engineering (ELECCE 2015), Changsha, Hunan, China, October 24 25,2015.
- 25. Member of Technical Program Committee for the 2015 2<sup>nd</sup> International Workshop on Materials Engineering and Computer Sciences (IWMECS 2015), Jinan, Shandong, China, October 10 11,2015.
- 26. Member of Technical Program Committee for the International Conference on Education, Management and Information Technology (ICEMIT 2015), Jinan, Shandong, China, October 10 11,2015.

- 27. Member of Technical Program Committee for the 2015 3rd International Conference on Networking, Communication and Computer Science (Net Com CS 2015), Jinan, Shandong, China, October 10 11.2015.
- 28. Member of Program Committee for the 2015 International Conference on Energy, Materials and Geology Environment (EMGE 2015), Guilin, China, September 12 13, 2015.
- 29. Member of Program Committee for the 2015 4th International Conference on Mechanical Engineering and Green Manufacturing (MEGM 2015), Xi'an, China, August 29 30, 2015.
- 30. Member of Program Committee for the 2015 International Conference on Electronic Information, Computation and Network Communications (EICNC 2015), Xi'an, China, August 29 30,2015.
- 31. Member of Technical Program Committee for the 2015 2<sup>nd</sup> International Conference on Information Technology and Biomedical Engineering (ICITBE 2015), Yinchuan, China, August 15 16,2015.
- 32. Member of Technical Committee for the 2015 5th International Conference on Materials Science and Information Technology (MSIT2015), Taiyuan, China, June 27 28,2015.
- 33. Member of Technical Committee for the International Conference on Advances in Materials Science and Manufacturing Technology (AMSMT 2015), Chongqing, China, May 30 31,2015.
- 34. Member of Technical Committee for the 2015 3<sup>rd</sup> International Conference on Precision Mechanical Instruments and Measurement Technology (ICPMIMT 2015), Dalian, China, May 16 17,2015.
- 35. Member of Technical Program Committee for the 3<sup>rd</sup> International Conference on MechanicalIntelligenceandAutomaticControl(ICMIAC2015),Zhengzhou,China,April 12 13,2015.
- 36. Member of Technical Committee for the 2nd International Conference on Electronics Technology, Computer Science and Information processing (ETCSIP 2015), Zhengzhou, China, April 11 12,2015.
- 37. Member of Program Committee for 2015 International Conference on Mechatronics, Manufacturing and Industrial Informatics (MMII 2015), Xi'an, China, January 10 11, 2015.
- 38. MemberofTechnicalProgramCommitteefor20145<sup>th</sup>InternationalConferenceonPower Electronics, Drives and Energy Systems (ICPDE 2014), Shenzhen, China, December 27–28, 2014.
- 39. Member of Program Committee for 2014 4<sup>th</sup> International Conference on Mechanical Engineering and Green Manufacturing (MEGM 2014), Shenzhen, China, December 27–

28, 2014.

- 40. Member of Technical Program Committee for 2014 3<sup>rd</sup> International Conference on Material Engineering and Mechanical Engineering (MEME 2014), Ottawa, Canada, December 20 21,2014.
- 41. Member of Technical Program Committee for 2014 2<sup>th</sup> International Conference on Engineering Materials (ICEM 2014), Sanya, Hainan, China, November 22 23,2014.
- 42. Member of Technical Program Committee for 2014 2<sup>th</sup> International Conference on Engineering Materials and Mechanical Engineering (ICEMME 2014), Sanya, Hainan, China, November 22 23,2014.

- 43. Member of Technical Program Committee for 2014 3<sup>rd</sup> International Conference on Advanced Computer Science Applications and Technologies (ACSAT 2014), Taiyuan, China, November 08 09,2014.
- 44. Member of Technical Program Committee for 2014 3<sup>rd</sup> International Conference on ElectricalTechnologyandCivilEngineering(ETCE2014),Taiyuan,China,November08 09, 2014.
- 45. Member of Technical Program Committee for 2014 7<sup>th</sup> International Conference on Automation, Robotics and Applications (ICARA 2014), Taiyuan, China, November 08 09, 2014.
- 46. MemberofOrganizingCommitteefor2014InternationalConferenceonMaterialScience, Mechanical Engineering and Manufacturing (ICMSMEM 2014), Taiyuan, China, November 08 09, 2014.
- 47. Member of Technical Program Committee for 2014 International Conference on Manufacturing Technology and Electronics (ICMTEA 2014), Taiyuan, China, November 08 09,2014.
- 48. Member of Organizing Committee for 2014 International Conference on Materials Engineering, Manufacturing Technology and Control (ICMEMTC 2014), Changsha, Hunan, October 25 26,2014.
- 49. Member of Organizing Committee for 2014 International Conference on Power, Energy and Environmental Science (ICPEES 2014), Changsha, Hunan, October 25 26,2014.
- 50. MemberofOrganizingCommitteefor2014InternationalConferenceonAgriculture,Food and Mechanical Engineering (ICAFME 2014), Changsha, Hunan, October 25 26,2014.
- 51. Member of Technical Program Committee for 2014 International Conference on MechatronicsEngineeringandModernTechnologiesinIndustrialEngineering(MEMTIE 2014), Changsha, Hunan, October 25 26,2014.
- 52. Member of Organizing Committee for 2014 International Conference on Civil, Environment, and Transport Engineering (ICCETE 2014), Shijiazhuang, Hebei, China, October 11 12,2014.
- 53. Member of Organizing Committee for 2014 International Conference on Electrical, Computer, Control Engineering (ELECCE 2014), Shijiazhuang, Hebei, China, October 11 12, 2014.
- 54. Member of Organizing Committee for 2014 International Conference on Environment, EnergyandAppliedBiotechnology(ICEEAB2014),Shijiazhuang,Hebei,China,October 11 12,2014.
- 55. Member of Technical Program Committee for 2014 3<sup>rd</sup> International Conference on Communication, Electronics and Automation (ICCEAE 2014), Shijiazhuang, Hebei, China, October 11 12,2014.
- 56. Member of Organizing Committee for 2014 International Conference on Education, Management and Information Technology (ICEMIT 2014), Hangzhou, Zhejiang, China, September 27 28,2014.
- 57. Member of Technical Program Committee for 2014 2<sup>nd</sup> International Conference on Networking, Communication and Computer Science (NetComCS 2014), Guilin, China, September 13 14,2014.
- 58. MemberofTechnicalCommitteefor2014InternationalConferenceonMaterialsScience, Chemistry and

- Energy (ICMSCE 2014), Xi'an, China, August 30 31,2014.
- 59. Member of Technical Committee for 2014 International Conference on Mechatronics Engineering and Computing Technology (ICMECT 2014), Shanghai, China, August 09 10, 2014.
- 60. Member of Technical Committee for 2014 International Conference on Engineering Materials, Geotechnical Engineering and Environmental Engineering (ICEGEE 2014), Jinan, Shandong, China, June 22 23,2014.
- 61. Member of Technical Committee for 2014 International Conference on Advances in Materials Science and Manufacturing Technology (AMSMT 2014), Chongqing, China, May 30 31,2014.
- 62. Member of Technical Program Committee for 2014 3<sup>rd</sup> International Conference on Vehicle & Mechanical Engineering and Information Technology (VMEIT 2014), Beijing, China, April 19 20, 2014.
- 63. Member of Technical Program Committee for 2014 International Conference on Artificial Intelligence and Computer Information Technology (ICAICIT 2014), Xi'an, China, January 11 12,2014.
- 64. Member of Technical Committee for 2013 3<sup>rd</sup> International Conference on Intelligent System and Applied Materials (GSAM 2014), Taiyuan, China, December 18 19,2013.
- 65. Member of Technical Program Committee for 2013 3<sup>rd</sup> International Conference on Electrical, Electronics and Computer Engineering (NCEECE 2013), Taiyuan, China, December 28 29,2013.
- 66. Member of Technical Program Committee for 2013 3<sup>rd</sup> International Conference on ElectricalEngineeringandInformatics(ELEEI2013), Taiyuan, China, December 28–29, 2013.
- 67. Member of Technical Program Committee for 2013 International Conference on Electronics, Communications and Networking (ICECN 2013), Beijing, China, December 14 15,2013.
- 68. Member of Technical Board for IET Chennai Networks 4<sup>th</sup> International Conference on Sustainable Energy and Intelligent System (SEISCON 2013), KCG College of Technology, Chennai, India, December 12 14,2013.
- 69. Session Chair for Technical Session IV of International Conference on Sustainable ApproachesforGreenComputing,EconomyandEnvironment(SAGCEE–2013),Salem, Tamilnadu, India, December 9 11, 2013 (organized by VMKV Engineering College, Salem).
- 70. Member of Technical Program Committee for the 3<sup>rd</sup> International Conference on Computer Application and System Modeling (ICCASM 2013), Beijing, China, July 13 14, 2013.
- 71. Member of Technical Program Committee for the 2013 International Conference on Information Technology and Computer Applications (ITCA 2013), China, June 15 16, 2013.
- 72. Member of Technical Committee for the 2013 3<sup>rd</sup> International Conference on Materials ScienceandInformationTechnology(MSIT2013),Nanjing,Jiangsu,China,June08-09, 2013.
- 73. Member of Technical Committee for the 2013 International Conference on Education TechnologyandManagementScience(ICETMS2013),Nanjing,Jiangsu,China,June08- 09, 2013.

- 74. Member of Technical Committee for the 2013 3<sup>rd</sup> International Conference on Precision Mechanical Instruments and Measurement Technology (ICPMIMT 2013), Zhengzhou Henan, China, May 25 26,2013.
- 75. MemberofTechnicalCommitteeforthe20133<sup>rd</sup>InternationalSymposiumonInformation Technology (ITSim 2013), Zhengzhou Henan, China, May 25 26,2013.
- 76. Conference Steering Chair for 2013 3<sup>rd</sup> International Conference on Information and Network Technology (ICINT 2013), Singapore, April 01 02,2013.
- 77. Member of Technical Program Committee for 2013 2<sup>nd</sup> International Conference on ComputerScienceandElectronicsEngineering(ICCSEE2013),Hangzhou,China,March 22 23,2013.
- 78. Member of Technical Committee for 2013 International Forum on Advances in Engineering (IFAE 2013), New Delhi, India, March 22 23,2013.
- 79. Conference Steering Chair for 2013 the 2<sup>nd</sup> International Conference on Traffic and Logistic Engineering (ICTLE 2013), Istanbul, Turkey, March 15 16,2013.
- 80. Member of Technical Program Committee for the 2012 National Conference on InformationTechnologyandComputerScience(CITCS2012),China,November16–18, 2012.
- 81. Member of Technical Committee for 2012 International Conference on Mechanics and Control Engineering (ICMCE 2012), Shanghai, China, August 25 26,2012.
- 82. Program Committee Chair for 2012 International Conference on Knowledge Delivery (ICKD 2012), Bali, Indonesia, May 26 27,2012.
- 83. Program Committee Chair for 2012 International Conference on Telecommunication Technology and Applications (ICTTA 2012), Bali, Indonesia, May 26 27,2012.
- 84. Program Committee Chair for 2012 International Conference on Intelligent Building and Management (ICIBM 2012), Bali, Indonesia, May 26 27,2012.
- 85. Conference Steering Chair for 2012 International Conference on Applied Physics and Mathematics (ICAPM 2012), Chennai, India, April 28 29,2012.
- 86. ConferenceSteeringChairfor2012InternationalConferenceonInformationandNetwork Technology (ICINT 2012), Chennai, India, April 28 29,2012.
- 87. Conference Steering Chair for 2012 International Conference on Traffic and Logistic Engineering (ICTLE 2012), Chennai, India, April 28 29,2012.
- 88. Member of Technical Committee for 2012 International Conference on Electronics, Nanomaterials and Component (ICENC 2012), Kunming, China, April 21 22,2012.
- 89. MemberofProgramCommitteefor20113<sup>rd</sup>InternationalConferenceonInformation,Electronic and Computer Science (ICIECS 2011), Tianjin, China, December 16 17, 2011.
- 90. Publicity Chair for 2011 International Conference on Electronic Design Automation (ICEDA 2011), Bangkok, Thailand, December 02 04,2011.
- 91. Publicity Chair for 2011 International Conference on Computer and Computational Intelligence

- (ICCCI 2011), Bangkok, Thailand, December 02 04,2011.
- 92. Publicity Chair for 2011 International Conference on Intelligent Network and Computing (ICINC 2011), Bangkok, Thailand, December 02 04,2011.
- 93. Member of Technical Committee for 2011 International Symposium on Chemical Engineering and Material Properties (ISCEMP 2011), Shenyang, China, November 04 06,2011.
- 94. Member of Technical Committee for 2011 International Conference on Material Science and Information Technology (ICMSIT 2011), Taiyuan, China, November 04 06,2011.
- 95. MemberofTechnicalCommitteefor20117<sup>th</sup>InternationalConferenceonMEMS,NANO and Smart Systems (ICMENS 2011), Kuala Lumpur, Malaysia, November 04 06,2011.
- 96. Member of Technical Committee for 2011 International Conference on Electronics Networks and Computers (ICENC 2011), Kuala Lumpur, Malaysia, November 04 06,2011.
- 97. Member of Technical Committee for 2011 International Conference on Embedded Systems and Microprocessors (ICESM 2011), Kuala Lumpur, Malaysia, November 04 06,2011.
- 98. Member of Technical Committee for 2011 2<sup>nd</sup> International Conference on Information, Networking and Automation (ICINA 2011), Puerto Rico, USA, October 21 23,2011.
- 99. Member of Technical Committee for 2011 International Conference on Software and Intelligent Information (ICSII 2011), Puerto Rico, USA, October 21 23,2011.
- 100. Member of Technical Committee for 2011 International Conference on Computer Engineering and Management (ICCEM 2011), Puerto Rico, USA, October 21 23,2011.
- 101. Member of Technical Committee for 2011 International Conference on Measurement and Control Engineering (ICMCE 2011), Puerto Rico, USA, October 21 23, 2011.
- 102. Program Committee Chair for 2011  $2^{nd}$  International Conference on Electronics and Information Engineering (ICEIE 2011), Tianjin, China, September 09 11,2011.Member of Technical Committee for 2011 International Conference on Energy and Electrical Systems (ICEES 2011), Kuala Lumpur, Malaysia, August 12 14,2011.
- 103. Member of Technical Committee for 2011 International Conference on Computer Design and Engineering (ICCDE 2011), Kuala Lumpur, Malaysia, August 12 14,2011.
- 104. Member of Technical Committee for 2011 the 3<sup>rd</sup> International Conference on Software Technology and Engineering (ICSTE 2011), Kuala Lumpur, Malaysia, August 12 14,2011.
- 105. Session Chair for 2<sup>nd</sup> International Conference on Sustainable Energy and IntelligentSystems(SEISCON2011),sponsoredbyIET,ChennaiandOrganizedbyDr.
- M.G.R. Educational and Research Institute University, Chennai, July 20 22, 2011.
- 106. Program Committee Chair for 2011 International Conference on Circuits, System and Simulation (ICCSS 2011), Bangkok, Thailand, May 28 & 29,2011.
- 107. Program Committee Chair for 2011 International Conference on Intelligent Building and Management (ICIBM 2011), Sydney, Australia, May 13 & 14,2011.
- 108. Program Committee Chair for 2011 International Conference on

- TelecommunicationTechnologyandApplications(ICTTA2011),Sydney,Australia,May 13 & 14,2011.
- 109. Program Committee Chair for 2011 International Conference on Computer CommunicationandManagement(ICCCM2011),Sydney,Australia,May13&14,2011.
- 110. Conference Steering Chair for 2011 International Conference on Computer, Communication and Information Technology (ICCCIT 2011), Chennai, India, April 29 & 30, 2011.
- 111. Conference Steering Chair for 2011 International Conference on Information and Network Technology (ICINT 2011), Chennai, India, April 29 & 30,2011.
- 112. Conference Steering Chair for 2011 International Conference on Traffic and Logistic Engineering (ICTLE 2011), Chennai, India, April 29 & 30,2011.
- 113. Conference Steering Chair for 2011 International Conference on Applied Physics and Mathematics (ICAPM 2011), Chennai, India, April 29 & 30,2011.
- 114. Conference Steering Chair for 2011 International Conference on Network Communications and Computer (ICNCC 2011), New Delhi, India, March 19 20,2011.
- 115. ConferenceSteeringChairfor2011InternationalConferenceonControl,Robotics and Cybernetics (ICCRC 2011), New Delhi, India, March 19 20,2011.
- 116. Conference Steering Chair for 2011 International Conference on Mechanical and Aerospace Engineering (CMAE 2011), New Delhi, India, March 19 20,2011.
- 117. PublicityChairfor2011the3<sup>rd</sup>InternationalConferenceonMachineLearning and Computing (ICMLC 2011), Singapore, February 26 28, 2011.
- 118. Program Committee Chair for 2010 the 3<sup>rd</sup> International Conference on Environmental and Computer Science (ICECS 2010), Kunming, China, October 18-19, 2010.
- 119. Member of Technical Committee for 2010 International Conference on Distance Learning and Education (ICDLE 2010), Puerto Rico, USA, October 3-5,2010.
- 120. Member of Technical Committee for 2010 the 2<sup>nd</sup> International Conference on Software Technology and Engineering (ICSTE 2010), Puerto Rico, USA, October 3-5, 2010.
- 121. Program Committee Chair for 2010 International Conference on Mechanical and Electronics Engineering (ICMEE 2010), Tokyo, Japan, August 01-03,2010.
- 122. Program Committee Chair for 2010 International Conference on Electronics and Information Engineering (ICEIE 2010), Kyoto, Japan, August 01-03,2010.
- 123. Publicity Chair for 2010 International Conference on Machine Learning and Computing (ICMLC 2010), Bangalore, India, February 09 11,2010.
- 124. Publicity Chair for 2010 International Conference on Data Storage and Data Engineering (DSDE 2010), Bangalore, India, February 09 & 10,2010.
- 125. Program Committee Chair for the  $2^{nd}$  International Conference on Environmental and Computer Science (ICECS 2009), Dubai, UAE, December 28 30,2009.
- 126. MemberoftheTechnicalReviewCommitteeoftheIEEEBangaloreSection-18<sup>th</sup> Annual Symposium on Emerging Needs in Computing, Communication, Signals and Power ENCCSP 2009, Bangalore, 29<sup>th</sup>

August2009.

- 127. Publicity Chair for 2009 International Conference on Mechanical and Electronics Engineering (ICMEE 2009), Chennai, June 27-29,2009.
- 128. Publicity Chair for 2009 International Conference on Software Technology and Engineering (ICSTE 2009), Chennai, June 27-29,2009.
- 129. Publicity Chair for 2009 International Conference on Computer and Network Technology (ICCNT 2009), Chennai, June 27-29,2009.
- 130. Session Chair for the 3<sup>rd</sup> National Conference organized by the Department of Electronics and Instrumentation Engineering, Vivekanandha College of Engineering for Women, Tiruchengode, April 9,2009.
- 131. Member of International Program Committee, 10<sup>th</sup> WSEAS International Conference on Automation and Information (ICAI '09), Prague, Czech Republic, March 23-25, 2009.Member of Scientific Committee, 10<sup>th</sup> WSEAS International Conference on Mathematics&ComputersinBiology&Chemistry(MCBC'09),Prague,CzechRepublic,

March 23-25, 2009.

- 132. Session Chair, Energy Society of India Sponsored National Conference on Demand Side Management Options for Energy Sustainability (DSMES'07), Department of Electrical and Electronics Engineering, Pondichery Engineering College, Pondichery, October 25, 2007.
- 133. Session Chair, DST and CSIR Sponsored National Conference on Computational Intelligence to Emerging Electric Power Systems (CIEEPS'06), Department of Electrical and Electronics Engineering, Pondichery Engineering College, Pondichery, September 7 & 8,2006.

#### **International Journal / Conference Reviewer / Editor:**

- 1. MemberofReviewCommitteefortheInternationalConferenceonElectrical,Electronics, Computers, Communication, Mechanical and Computing (EECCMC) organized by Priyadarshini Engineering College, Chettiyappanur, Vaniyambadi 635751, Vellore District, Tamil Nadu, January 28<sup>th</sup>& 29<sup>th</sup>,2018.
- 2. Reviewer for the 2017 2<sup>nd</sup> IEEE International Conference on Electrical, Computer and CommunicationTechnologies(ICECCT2017)organizedbySVSCollegeofEngineering, Coimbatore and Sponsored by IEEE and IEEE Madras Section, February 22 24,2017.
- 3. Reviewer for the World Scientific and Engineering Academy and Society (WSEAS) conferences and and adjournals.
- 4. Scientific and Technical Committee & Editorial Review Board on Engineering and Applied Sciences, World Academy of Science Engineering and Technology(WASET).
- 5. Reviewer for International Journal of Computer and Electrical Engineering(IJCEE).
- 6. Reviewer for European Society for Applied Sciences and Development(EUROPMENT)
- 7. Reviewer for E3 Journal of Energy, Oil and Gas Research(EJEOGR)
- 8. Editorial Board Member and Reviewer for the International Organization of Scientific Research and

#### Development(IOSRD)

- 9. ReviewerforInternationalJournalofArtificialIntelligenceandSoftComputing(IJAISC), IndersciencePublishers.
- 10. EditorandReviewerforInternationalJournal ofEngineeringandTechnology(IJET).
- 11. ReviewerforInternationalJournalofInformation,IntelligenceandKnowledge(IJIIK).
- 12. Member of Editorial Advisory Board of Indian Journal of Applied Research(IJAR).
- 13. Reviewer for Journal of Computational Biology and Bioinformatics Research(JCBBR)
- 14. Reviewer for the CiiT International Journal.
- 15. Reviewer for Indian Journal of Science and Technology
- 16. Reviewer for 2015 IEEE International Conference on Electrical, Computer and CommunicationTechnologies(ICECCT2015)organizedbySVSCollegeofEngineering, Coimbatore and Sponsored by IEEE and IEEE Madras Section, March 05 07,2015.
- 17. MemberofInnovationIdentificationPanelforEngineeringStudentsInnovationChallenge 2014 (ESIC 2014) organized by International Society for Scientific Research and Development(ISSRD)
- 18. Reviewer for 2<sup>nd</sup> International Conference on Sustainable Energy and Intelligent Systems (SEISCON 2011), sponsored by IET, Chennai and Organized by Dr. M.G.R. Educational and Research Institute University, Chennai, July 20 22,2011.
- 19. Reviewer for the 2011  $4^{th}$  International Conference on Computer Science andInformation Technology (IEEE ICCSIT 2011), Chengdu, China, June 10 12, 2011. The conference has been listed in IEEE search and the conference proceedings have been included in the IEEE Xplore.
- 20. Reviewerfor<sup>2nd</sup>NationalConferenceonVLSI,EmbeddedSystems,SignalProcessingand Communication Technologies (NCVESCOM'10), Chennai, India, March,2010.
- 21. Reviewer in the 2<sup>nd</sup> International Conference on Applications of Digital Information and Web Technologies (ICADIWT 2009), London Metropolitan Business School, London Metropolitan University, UK, (Technical co-sponsorship by IEEE UK & RI section) August 4 6,2009.
- 22. ReviewerintheInternationalConferenceonAdvancedComputerTheoryandEngineering 2008 (ICACTE 2008), Phuket, Thailand, December 20 28,2008.

#### **Visits Abroad:**

S. No.	Country	Purpose
1.	Malaysia	Coordinator for the Board of Studies Meeting for the Faculty of Engineering, Vinayaka Missions University, Branch Campus - Malaysia conducted in Kuala Lumpur from 26.09.2009 to 01.10.2009
2.	Thailand	Participated in the International Conference in Bangkok, Thailand, on 25.12.2011 & 26.12.2011 with DST Travel Grant

3.	Singapore	Visited Vestal Corporation Singapore Pte Ltd., Singapore from 17.11.2012 to 21.11.2012 to know the feasibility of implementing e-learning platform through Vestal LeAF eClass					
4.	Malaysia	Participated in the Professional Awards Ceremony organized by Journal of Engineering Technological Research, Society of Engineers and Technicians, Kuala Lumpur, Malaysia on 11.03.2017 and 12.03.2017  Also acted as Session Chair during the 2017 International Convention on Dissemination if Innovative Research in Science, Engineering, Technology & Management Applications, Kuala Lumpur, Malaysia from 11.03.2017 to 14.03.2017					
5.	Thailand	Acted as Session Chair during the International Conference on Inventing Computing Systems and Applications (ICICSA 2018) organized by Inventive Research Organization (IRO) on 13 <sup>th</sup> and 14 <sup>th</sup> April, 2018 at Pattaya, Thailand					

# **Invited Lectures:**

S. No.	Area of Lecture	Institution / Organization where lecture was delivered	Period
2005 - 2	006		
1.	Goal Setting	Lions Club of Erode West, Erode	15.08.2005
2006 - 2	007		
2.	Teaching Skills (Effective Teaching Methodologies, Effective Class Room Management, Goal Setting, Time Management etc.)	VMKVEC	04.09.2006 to 06.09.2006
3.	Energy Management Techniques	Pondicherry Engineeri ng College,Pondi	07.09.2006
4.	Digital Signal Processing	Bannari Amman Institute of Technology,Sathyamangalam	2006
5.	Time Management	Park College of Engineering, Coimbatore	01.03.2007
2007 - 2	008		
6.	Personality Development, Electrical Engineering – An Overview, Electrical Hazards and Safety etc	VMKVEC	25.09.2007 to 28.09.2007
7.	Communication Skills	Leo Club of IRTT, IRTT, Erode	19.10.2007
8.	Viable Alternate Energy Options in Indian Perspective	National Conference and Exhibition on Demand Side Management Options for Energy Sustainability,	25.10.2007

	1	<b>D</b> 1: 1	
		Pondicher ry Engineering College,Pondi	
9.	Teaching Skills (Effective Teaching Methodologies, Effective Class Room Management, Goal Setting, Time Management etc.)	VMKVEC	12.11.2007 to 14.11.2007
2008 – 2	2009		
10.	Training on Managerial Skills	Officials / Engineers of JCB- LEXLS,Salem	19.07.2008
11.	Personality Development, Electrical Engineering – An Overview, Electrical Hazards and Safety etc	VMKVEC	04.11.2008 to 07.11.2008
12.	Teaching Skills (Effective Teaching Methodologies, Effective Class Room Management, Goal Setting, Time Management etc.)	VMKVEC	28.11.2008 to 30.11.2008
13.	Personality Development, Effective Study Skills, Class Room Culture, Goal Setting, Time Management etc	Salem School of Architecture	03.12.2008 to 05.12.2008
14.	Novel Applications of Sensors and Transducers	3 <sup>rd</sup> One Day National Conference on Future of Electrical &Instrumentation Technology, Vivekanandha College of Engineering for Women, Tiruchengode.	09.04.2009
2009 – 2	2010	Thuenengoue.	
15.	Medical Imaging	MIT, Anna University, Chromepet	12.02.2010
2010 – 2	2011		
16.	DSP Applications to Modern Industrial Drives	National Level Workshop on Modern Drives in Industrial Applications, Department of EEE, Bannariamman Instituteof Technology, Sathy	14.09.2010 & 15.09.2010
17.	Goal Setting	Vinayaka IAS Academy, Salem	20.03.2011
18.	Hybrid Renewable Energy Systems	2 <sup>nd</sup> International Conference on Sustainable Energy and Intelligent Systems(SEISCON 2011), IET Chennai and Dr.M.G.R. University, Chennai	21.07.2011

2013 – 2	2014		
	Alternate Energy	International Conference on	
		Sustainable Approaches for	
19.		Green Computing, Economy	09.12.2013
17.		and Environment	07.12.2015
		(SAGCEE'13),	
		V.M.K.V. Engineering	
		College, Salem	
	Intelligent Techniques for the improvement	National Conference on	
	of Power Quality	Computational Intelligence in	
20.		Electrical and Electronics	06.02.2014
		Engineering	
		(NCIEE	
		E), Sathyabama	
		University, Chennai	
	Recent Advancements and Challenges in	4 <sup>th</sup> National Conference	
21.	ElectricalScience	on Recent	27.02.2014
		Advancements	
		and	
		Challenges in Electrical	
		Science, Department of EEE, IRTT, Erode	
2014 – 2	2015	IKT1,EIUUC	
	Digital Signal Processing from an	5 <sup>th</sup> National Conference on	
22.	Electrical Engineering Perspective	Recent Trends in Electrical	26.02.2015
	Diction Engineering 1 cropective	Sciences, IRTT, Erode	
	Optimization Techniques in	National Workshop	
23.	Electrical Engineering	on Optimization	05.03.2015
•	usingMATLAB	Techniques	
		in	
		Engineering using	
		MATLAB, Sathyabama	
		University, Chennai	
	Electrical Engineers and GreenEnergy     Petroop you and Suppose.	Technical Talk &	
24.	2. Between you andSuccess	Motivational Talk,	28.03.2015
		SCAD Institute	
		of	
	Engineers and Impayet's as	Technology, Palladam	
25	Engineers and Innovations	Second International	10.04.2017
25.		Conference on Trends in	10.04.2015
		Technology for	
		Convergence (TITCON'1	
		5), AVS Engineering	
		College,Salem	
2015 – 2	2016	- Conego, Saidin	
	Recent Trends in Biomedical Signal	National Level	
2.5	Processing Techniques	Students	25.07.2015
26.	1 Toccssing Techniques		
26.	Trocessing reciniques		
26.	Trocessing recliniques	Technical Meet	
26.	Trocessing recliniques		

27.	<ol> <li>Higher Education Opportunities for Polytechnic Students</li> <li>SmartTeaching</li> </ol>	Orientation Lecture, Excel Polytechnic Colleg	23.09.2015
		e, Komarapalayam	

# **Programmes organized:**

S. No.	Nature Programme of	Title of Programme	Capacity	Institution	Period
2006	-2007				
	Faculty Development Programme	Instructional Design and Delivery	Coordinator	VMKV Engg College	04.09.2006 to 06.09.2006
2007	-2008				
2.	OrientationProgramme for 1 <sup>st</sup> year BEStudents	Orientation Programme	Coordinator	VMKV Engg College	25.09.2007 to 28.09.2007
3.	Science Exhibition	Science Expo'08	Co-convener	VMKV Engg College	08.02.2008 to 11.02.2008
	Faculty Development Programme	Instructional Design and Delivery	Coordinator	VMKV Engg College	12.11.2007 to 14.11.2007
2008	- 2009				
5.	National Conference	Problems an Perspective in d s Sector Powe r	Co-convener	VMKV Engg College	06.09.2008
6.	National Conference	Recent Trends in Virtual Instrumentation	Co-convener	VMKV Engg College	25.09.2008
7.	OrientationProgramme for 1 <sup>st</sup> year BEStudents	Orientation Programme		VMKV Engg College	04.11.2008 to 07.11.2008
8.	Refresher Course for Technicias	Creating 'SMARTT 'Technicians	Co-convener	VMKV Engg College	14.11.2008 & 15.11.2008
	Faculty Development Programme	Instructional Design and Delivery	Coordinator	VMKV Engg College	28.11.2008 to 30.11.2008
10.	Personality Development Programme for the B.Arch.students	Personality Developme nt	Coordinator	Salem School of Architecture	03.12.2008 to 05.12.2008
11.	Interdepartmental Interdisciplinary Technical Paper Contest	Recent Trends in Engineering	Co-convener	VMKV Engg College	17.12.2008

	Workshop	LabVIEW &	Co-convener	<u> </u>	
12.	Workshop	Applications &	Co-convener	VMKV Engg	29.01.2009
12.		rippiications		College	29.01.2009
	Interdepartmental	Recent Trends in	Co-convener	VMVV E	
13.	Interdisciplinary	Engineering		VMKV Engg College	30.01.2009
	Hardware			Conege	
	Exhibition	TEGLIGRIGEIAA		VARIOU D	
14.	National Level Students Technical	TECHSPICE'09	Co-convener	VMKV Engg College	19.03.2009
	Symposium Symposium			Conege	
	5 ymposium	Convergent	Co-convener		
15.	National Conference	Communicatio		VMKV Engg	17.04.2009
		n		College	_,,,,,,,,
2000	8040	Technologies			
2009	- 2010	D' 1' 11 C 4'		<u> </u>	10.00.2000
1.0	National Conference	Biomedical Informatics	Co-convener	VMKV Engg	10.09.2009
16.	National Conference			College	11.09.2009
		MATLAB and its	Member of	VMKVEngg.	
17.	National Workshop	Applications in	Advisory	College,ICT	08.10.2009
		Science & Technology	Committee	Academyof	to 10.10.2009
				Tamilnadu	10.10.2009
		12 <sup>th</sup> ISTE	<b>N</b> 1 C	&HP	
18.	ISTE Convention		Member of	VMKV Engg	26.11.2009
18.	ISTE CONVENTION	Annual Convention of	Organizing Committee	VMKV Engg College	&
		Tamilnadu	Committee	Conege .	27.11.2009
		&			
		PondicherrySection			
		Graduation Day 2009	Member of	VMKV Engg	
19.	Graduation Day		Organizin	College .	29.11.2009
			g Committe	conege .	
			e		
		Hands-onTraining on	Convener	TO MILL D	11.12.2009
20.	Workshop	LabView		VMKV Engg	&
				College .	12.12.2009
	National Co.	Computational	Member of	VMKV Engg	04.02.2010
21.	National Conference	Applications in	Advisory	College .	& 05.02.2010
		Chemistry	Committe e		05.02.2010
		2 <sup>nd</sup> National	Convener		4467.2010
22.	National Conference	Conference on		VMKV Engg	14.05.2010
		Convergen		College	& 15.05.2010
		t			15.05.2010
		Communicatio			
		n			
2010	2011	Technologies			
2010	<u>- 2011</u> Faculty	Instructional Design	Coordinator	Annancor	30.08.2010
23.	Development	and Delivery	Coordinator	Annapoor ana Engg	\$0.08.2010 &
	Programme	und Don vol y		College	31.08.2010
	110514111110	_1		Conce	

24.	OrientationProgramme for 1 <sup>st</sup> year BEStudents	Orientation Programme	Coordinator	Annapoor ana Engg College	13.09.2010 & 14.09.2010
25.	FacultyDevelopment Programme	Instructional Design and Delivery	Coordinator	GlazeBrooke MatriculationH r.Sec.School, Salem	

#### **Other Assignments:**

- 1. Member of Staff Selection Committee of Kongu Polytechnic, Perundurai, Erode.
- 2. Handled guest lectures on various Technical Topics in a number of Engineeringcolleges.
- 3. Handled Personality Development Programmes in various EngineeringColleges.
- 4. Jury for the Students Symposiums organized by KSR College of Technology, Sengunthar Engineering College, Nandha College of Technology, Kongu Engineering College, etc.

#### **Student Welfare Activities:**

- 1. Acted as Coordinator of **LEO Club of IRTT** from 1997 to 2006, a youth wing of International Association of Lions Clubs. It is to promote Leadership Skills, improve qualitiesofthestudentsandalsotomakethestudentstoextendservicetot hecommunity.
- 2. Advisor of **Leo Club of VMKVEC** at V.M.K.V. Engineering College from 2006.

#### **Social Responsibilities:**

1. Member of Lions Clubs International Organization since 1997. Involved in various service activities. Acted as President of Lions Club of Erode West, District Chairperson, Zone Chairperson and Region Chairperson.

#### 9.Fee Waivers

o Number of scholarship offered by the Institution, duration and amount

S.No	Name of the Scholarship	Number of Students got Scholarship
1	Economically and socially Backward	149
2	Merit Scholarship	168
3	Alumni Category	11

4	VMRF Staff Category	3	
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# 10. Admission

# Number of seats sanctioned with the year of approval

https://www.avit.ac.in/aicte\_approvals/

Number of Students Admitted under various categories each year in the last three years :

# Academic Year 22-23:

					Ge	О	О		S		S
Le		То	Ap	Ge	ner	В	В	S	$\tilde{\mathbf{C}}$	S	T
vel		tal	pro	ner	al	C	C	C	Fe	T	Fe
of		Stu	ved	al	Fe	M	Fe	M	m	M	m
cou		de	Inta	M	mal	al	ma	al	al	al	al
rse	Name of the Course	nts	ke	ale	e	e	le	e	e	e	e
UG	BIOTECHNOLOGY	30	30	1	5	14	6	2	2	0	0
UG	CIVIL ENGINEERING	34	90	3	0	20	1	5	0	0	0
	COMPUTER SCIENCE AND	15						1			
UG	ENGINEERING	6	180	40	1	79	7	1	0	0	0
	ELECTRONICS AND										
	COMMUNICATION										
UG	ENGINEERING	49	60	9	1	30	3	2	0	0	0
	ELECTRICAL AND										
UG	ELECTRONICS ENGINEERING	75	90	5	0	60	0	5	0	0	0
		17				12		2			
UG	MECHANICAL ENGINEERING	1	180	8	0	5	2	4	0	0	0
UG	BIOMEDICAL ENGINEERING	21	60	2	2	8	5	3	0	0	0
	COMPUTER SCIENCE AND										
	ENGINEERING (CYBER										
UG	SECURITY)	32	60	4	0	19	4	2	1	0	0
	PHARMACEUTICAL										
UG	ENGINEERING	5	30	0	0	3	1	1	0	0	0
	COMPUTER SCIENCE AND										
	ENGINEERING (ARTIFICIAL										
	INTELLIGENCE AND MACHINE		_					_	_	_	_
UG	LEARNING)	38	60	14	1	20	1	2	0	0	0
	COMPUTER SCIENCE AND										
	ENGINEERING (INTERNET OF										
	THINGS AND CYBER										
LIC	SECURITY INCLUDING BLOCK	1	<b>CO</b>	0	_	1	_	_	_	_	
UG	CHAIN TECHNOLOGY)	1	60	0	0	1	0	0	0	0	0
	COMPUTER SCIENCE AND	0	60	0	0	0	0		0	0	
UG	DESIGN MANUEACTURING	0	60	0	0	0	0	0	0	0	0
DC	MANUFACTURING ENCINEEDING	_	26	0	0	5	0	1	0	0	
PG	ENGINEERING POWER SYSTEMS	6	36	0	0	5	0	1	0	0	0
PG	POWER SYSTEMS	4	36	0	0	3	0	1	0	0	0

	ENGINEERING										
	COMPUTER SCIENCE AND										
PG	ENGINEERING	5	36	1	0	3	1	0	0	0	0
	EMBEDDED SYSTEMS										
PG	TECHNOLOGIES	2	36	0	0	0	1	0	1	0	0
PG	BIOTECHNOLOGY	5	36	0	1	2	2	0	0	0	0
	CONSTRUCTION ENGINEERNG										
PG	AND MANAGEMENT	12	36	1	0	8	0	2	0	1	0
PG	MBA	49	60	4	2	21	13	7	1	1	0
						42		6			
	Total			92	13	1	47	8	5	2	0

# Academic year 21-22:

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Le											
ve		_		_	Ge	0		~		~	
1		Tot	App	Ge	ner	В	O	S		S	
of		al	rove	ner	al	C	BC	C	SC	T	ST
co		Stu	d	al	Fe	M	Fe	M	Fe	M	Fe
ur		den	Inta	Ma	ma	al	ma	al	ma	al	ma
se	Name of the Course	ts	ke	le	le	e	le	e	le	e	le
U	BIOTECHNOLOGY	15	30	2	0	5	5	3	0	0	0
G	BIOTECHNOLOG I	13	30	_		3	3	3			
						1					
U	CIVIL ENGINEERING	29	120	3	0	7	2	2	0	5	0
G											
T T	COMPUTER SCIENCE AND					4					
U	ENGINEERING	78	180	23	4	0	5	5	0	1	0
G											
	ELECTRONICS &										
TT	COMMUNICATION					2					
U	ENGINEERING	25	90	0	0	0	1	4	0	0	0
G	ELECEDICAL AND										
	ELECTRICAL AND										
TT	ELECTRONICS										
U	ENGINEERING	60	120	4	45	5	0	5	0	1	0
G						1					
						1					
U	MECHANICAL					3		1			
G	ENGINEERING	175	180	19	0	8	0	7	0	1	0
G	DIOMEDICAL					1					
U	BIOMEDICAL				_	1	_		_		
G	ENGINEERING	26	60	4	0	5	5	1	1	0	0
U				_	_				_	_	
G	MECHATRONICS	1	30	0	0	1	0	0	0	0	0
0	COMPUTER SCIENCE AND										
						2					
U	ENGINEERING (CYBER					2					
G	SECURITY)	27	60	1	1	1	1	2	1	0	0
U									l	l	

U G	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	33	60	2	1	2 2	5	1	2	0	0
U G	PHARMACEUTICAL ENGINEERING	16	30	2	0	1 0	2	2	0	0	0
P G	MANUFACTURING ENGINEERING	14	36	4	0	9	0	1	0	0	0
P G	POWER SYSTEMS ENGINEERING	10	36	1	0	6	2	0	1	0	0
P G	COMPUTER SCIENCE AND ENGINEERING	7	36	0	0	2	4	0	1	0	0
P G	EMBEDDED SYSTEMS TECHNOLOGIES	6	36	1	1	3	0	0	0	1	0
P G	BIOTECHNOLOGY	5	36	0	0	3	2	0	0	0	0
P G	CONSTRUCTION ENGINEERNG AND MANAGEMENT	22	36	6	2	1 0	1	3	0	0	0
P G	MBA	60	60	6	1	3 8	8	6	1	0	0
	Total			78	55	3 6 5	43	5 2	7	9	0

# Academic Year 2020-21:

							OB	S		S	
Leve		Tota	Appr	Gen	Gen	OB	C	C	SC	T	ST
1 of		1	oved	eral	eral	C	Fe	M	Fe	M	Fe
cour		Stud	Intak	Mal	Fem	Ma	mal	al	ma	al	ma
se	Name of the Course	ents	e	e	ale	le	e	e	le	e	le
UG	BIOTECHNOLOGY	30	30	6	0	17	4	1	0	1	1
	CIVIL										
UG	ENGINEERING	24	60	3	1	17	1	0	0	1	1
	COMPUTER										
	SCIENCE AND										
UG	ENGINEERING	86	90	16	2	60	0	8	0	0	0
	ELECTRONICS &										
	COMMUNICATION										
UG	ENGINEERING	20	60	3	0	15	1	1	0	0	0
	ELECTRICAL AND										
	ELECTRONICS										
UG	ENGINEERING	24	60	5	0	18	0	1	0	0	0

	MECHANICAL										
UG	ENGINEERING	29	120	5	0	21	0	2	0	1	0
-00	BIOMEDICAL	29	120	3	U	<i>L</i> 1	U		U	1	0
UG	ENGINEERING	54	60	7	0	34	9	1	1	1	1
UG	MECHATRONICS	2	30	1	0	1	0	0	0	0	0
00	COMPUTER	2	30	1	U	1	U	U	U	U	0
	SCIENCE AND										
	ENGINEERING										
UG	(CYBER SECURITY)	17	30	3	0	12	0	2	0	0	0
	ARTIFICIAL	17	30		Ü	12	0		0	0	
	INTELLIGENCE										
	AND DATA										
UG	SCIENCE	14	60	2	0	11	1	0	0	0	0
	PHARMACEUTICAL										
UG	ENGINEERING	15	60	2	0	12	0	1	0	0	0
	MANUFACTURING										
PG	ENGINEERING	17	18	1	0	14	0	2	0	0	0
	POWER SYSTEMS										
PG	ENGINEERING	4	18	0	0	4	0	0	0	0	0
	COMPUTER										
	SCIENCE AND										
PG	ENGINEERING	15	18	1	2	8	4	0	0	0	0
	EMBEDDED										
	SYSTEMS										
PG	TECHNOLOGIES	9	18	2	0	2	4	1	0	0	0
PG	BIOTECHNOLOGY	6	18	0	0	3	2	1	0	0	0
	CONSTRUCTION										
5.0	ENGINEERNG AND	4.0	10						0	0	
PG	MANAGEMENT	18	18	2	0	14	1	1	0	0	0
PG	MBA	26	60	2	1	13	4	4	2	0	0
TIC	CIVIL	0	60	1			1	0	0	0	0
UG	ENGINEERING	9	60	1	1	6	1	0	0	0	0
	COMPUTER SCIENCE AND										
UG	ENGINEERING	1	60	0	0	1	0	0	0	0	0
00	ELECTRONICS &	1	00	U	U	1	U	U	U	U	U
	COMMUNICATION										
UG	ENGINEERING	4	60	0	0	3	0	1	0	0	0
00	ELECTRICAL AND	7	00	U	U		U	1	U	U	0
	ELECTRONICS										
UG	ENGINEERING	14	60	0	0	11	1	2	0	0	0
	MECHANICAL	- '	- 50						<u> </u>	,	
UG	ENGINEERING	48	60	5	0	38	0	4	0	1	0
	MANUFACTURING			-	-				-		-
PG	ENGINEERING	2	18	0	0	2	0	0	0	0	0
	POWER SYSTEMS										
PG	ENGINEERING	1	18	0	0	1	0	0	0	0	0
	COMPUTER										
PG	SCIENCE AND	0	18	0	0	0	0	0	0	0	0

	ENGINEERING										
	EMBEDDED										
	SYSTEMS										
PG	TECHNOLOGIES	0	18	0	0	0	0	0	0	0	0
PG	BIOTECHNOLOGY	0	18	0	0	0	0	0	0	0	0
	CONSTRUCTION										
	ENGINEERNG AND										
PG	MANAGEMENT	6	18	0	0	6	0	0	0	0	0
						34					
	ToTal			67	7	4	33	33	3	5	3

### 11.Admission Procedures

# **Engineering & Technology, Management Programmes**

Admissions will be made for UG & PG Degree programmes, on the basis of marks obtained in the qualifying examinations and merit based Counselling conducted by the Admission Monitoring Committee (AMC) of VMRF-DU and the eligibility criteria prescribed by the concerned Apex Council / VMRF-DU rules & regulations from time to time.



Name of the Faculty	Engineering & Technology
Course	BE / B.Tech. (Regular - Full Time)
Name of the College	Vinayaka Mission's Kirupananda Variyar Engineering College, Salem
	2. Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.

Advertisement in leading News paper	3 <sup>rd</sup> week of June 2022
Registration for Round 1 counseling	16.06.2022 to 23.06.2022
Declaration of Merit List	24.06.2022
Date of Round 1 Counseling	27.06.2022 to 01.07.2022
Last date for joining the course	25.07.2022
Registration for Round 2 counseling	26.07.2022 to 03.08.2022
Declaration of Merit List	04.08.2022
Date of Counseling	06.08.2022
Last date for joining the course (candidates those who are selected through round 2 counseling).	16.08.2022
Date of commencement of Academic session	2 <sup>nd</sup> week of September 2022
Registration for Round 3 counseling	16.08.2022 to 23.08.2022
Declaration of Merit List	24.08.2022
Date of Counseling	27.08.2022
Last date for joining the course (candidates those who are selected through round 3 counseling).	25.10.2022
Cut -off date for admission of the course	25.10.2022
Verification of original Certificates & Registration in the University	1 <sup>st</sup> week of November 2022



Name of the Faculty	Management
Course	MBA
Name of the College	<ol> <li>Vinayaka Mission's Kirupananda Variyar Engineering College, Salem</li> <li>Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.</li> </ol>

Advertisement in leading News paper	3 <sup>rd</sup> week of June 2022
Registration for Round 1 counseling	21.06.2022 to 30.07.2022
Declaration of Merit List	01.08.2022
Date of Round 1 Counseling	04.08.2022 to 08.08.2022
Last date for joining the course	25.08.2022
Registration for Round 2 counseling	01.09.2022 to 29.09.2022
Declaration of Merit List	03.10.2022
Date of Counseling	07.10.2022
Last date for joining the course (candidates those who are selected through round 2 counseling).	25.10.2022
Date of commencement of Academic session	2 <sup>nd</sup> week of September 2022
Cut -off date for admission of the course	25.10.2022
Verification of original Certificates & Registration in the University	1 <sup>st</sup> week of November 2022



Name of the Faculty	Engineering & Technology
Course	ME / M.Tech. (Regular - Full Time)
Name of the College	Vinayaka Mission's Kirupananda Variyar Engineering College, Salem     Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.

Advertisement in leading News paper	3 <sup>rd</sup> week of June 2022
Registration for Round 1 counseling	21.06.2022 to 30.07.2022
Declaration of Merit List	01.08.2022
Date of Round 1 Counseling	-03.08.2022 to 06.08.2022
Last date for joining the course	25.08.2022
Registration for Round 2 counseling	01.09.2022 to 29.09.2022
Declaration of Merit List	04.10.2022
Date of Counseling	07.10.2022
Last date for joining the course (candidates those who are selected through round 2 counseling).	25.10.2022
Date of commencement of Academic session	2 <sup>nd</sup> week of September 2022
Cut -off date for admission of the course	25.10.2022
Verification of original Certificates & Registration in the University	1 <sup>st</sup> week of November 2022



Name of the Faculty	Engineering & Technology
Course	BE / B.Tech. (Regular – Lateral Entry)
Name of the College	<ol> <li>Vinayaka Mission's Kirupananda Variyar Engineering College, Salem</li> <li>Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.</li> </ol>

Advertisement in leading News paper	3 <sup>rd</sup> week of June 2022
Registration for Round 1 counseling	21.06.2022 to 30.07.2022
Declaration of Merit List	01.08.2022
Date of Round 1 Counseling	04.08.2022 to 08.08.2022
Last date for joining the course	25.08.2022
Registration for Round 2 counseling	01.09.2022 to 29.09.2022
Declaration of Merit List	03.10.2022
Date of Counseling	07.10.2022
Last date for joining the course (candidates those who are selected through round 2 counseling).	30.10.2022
Date of commencement of Academic session	2 <sup>nd</sup> week of September 2022
Cut -off date for admission of the course	30.10.2022
Verification of original Certificates & Registration in the University	1 <sup>st</sup> week of November 2022



### COUNSELING SCHEDULE FOR THE ACADEMIC YEAR 2022-23

Name of the Faculty	Engineering & Technology
Course	BE / B.Tech. (Regular - Part Time)
Name of the College	<ol> <li>Vinayaka Mission's Kirupananda Variyar Engineering College, Salem</li> <li>Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.</li> </ol>

Advertisement in leading News paper	3 <sup>rd</sup> week of June 2022
Registration for Round 1 counseling	21.06.2022 to 30.07.2022
Declaration of Merit List	01.08.2022
Date of Round 1 Counseling	04.08.2022 to 08.08.2022
Last date for joining the course	25.08.2022
Registration for Round 2 counseling	01.09.2022 to 29.09.2022
Declaration of Merit List	03.10.2022
Date of Counseling	07.10.2022
Last date for joining the course (candidates those who are selected through round 2 counseling).	25.10.2022
Date of commencement of Academic session	2 <sup>nd</sup> week of September 2022
Cut -off date for admission of the course	25.10.2022
Verification of original Certificates & Registration in the University	1 <sup>st</sup> week of November 2022



### **COUNSELING SCHEDULE FOR THE ACADEMIC YEAR 2022-23**

Name of the Faculty	Engineering & Technology
Course	ME / M.Tech. (Regular – Part Time)
Name of the College	<ol> <li>Vinayaka Mission's Kirupananda Variyar Engineering College, Salem</li> <li>Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.</li> </ol>

Advertisement in leading News paper	3 <sup>rd</sup> week of June 2022
Registration for Round 1 counseling	21.06.2022 to 30.07.2022
Declaration of Merit List	01.08.2022
Date of Round 1 Counseling	03.08.2022 to 06.08.2022
Last date for joining the course	25.08.2022
Registration for Round 2 counseling	01.09.2022 to 29.09.2022
Declaration of Merit List	03.10.2022
Date of Counseling	07.10.2022
Last date for joining the course (candidates those who are selected through round 2 counseling).	30.10.2022
Date of commencement of Academic session	2 <sup>nd</sup> week of September 2022
Cut -off date for admission of the course	30.10.2022
Verification of original Certificates & Registration in the University	1 <sup>st</sup> week of November 2022

### 12. Criteria and Weightages for Admission

Criteria and Weightages for Admission: BE / B.TECH. (FULL TIME) - Duration: 4 Years

S.No.	Programme	Duration	Eligibility		
1	BE / B.Tech. (Full	4 years	Passed 10+2 examination with Physics and		
	time)	•	Mathematics as compulsory subjects along with one of		
	(All programmes)		the Chemistry/ Biotechnology/ Biology/ Technical		
			Vocational subject/ Computer Science/ Information		
			Technology/ Informatics Practices/ Agriculture/		
			Engineering Graphics/ Business Studies.		
			Obtained at least 45% marks (40% marks in case of		
			candidates belonging to reserved category) in the		
			above subjects taken together.		
			Or		
			Passed Diploma (in Engineering and Technology)		
			examination with at least 45% marks (40% marks in		
			case of candidates belonging to reserved category)		
			subject to vacancies in the First Year, in case the		
			vacancies at lateral entry are exhausted.		
			Provided that for BE/ BTech. (Bio Technology,		
			Biomedical , Pharmaceutical Engineering)		
			Programmes:		
			Passed 10+2 examination with Physics, Chemistry and		
			Mathematics / Biology / Biotechnology		
			Obtained at least 45% marks (40% marks in case of		
			candidates belonging to reserved category) in the		
			above subjects taken together		
			Note: If the candidate not studied Mathematics as a		
			subject in 10+2, after joining, registering for		
			Mathematics as Bridge course is Mandatory.		
2	BE / B.Tech.	3 Years	a) Passed Diploma examination with at least		
	(Lateral Entry)		45% marks (40% marks in case of candidates		
			belonging to reserved category) in ANY branch of		
			Engineeringand Technology.		
			or		
			b) Passed B.Sc. Degree from a recognized University		
			as defined by UGC, withat least 45% marks		
			(40% marks in case of candidates belonging to reserved		
			category) and passed 10+2 examination with		
			Mathematics as a subject.		
			c) Provided that the students belonging to B.Sc.		
			Stream, shall clear the subjects Engineering Graphics/		
			Engineering Drawing and Engineering Mechanics of		
			the First Year Engineering Programme along with the		
			Second year subjects		
			d) Provided that the students belonging to B.Sc.		
			Stream shall be considered only after filling the		
			supernumerary seats in this category with students		
			belonging to the Diploma stream.		
			e) Passed D.Voc. Stream in the same or allied sector.		
			f) In the above cases, a suitable bridge Courses, if		

	required such as in Mathematics may be conducted.

BE / B.TECH. (PART TIME) - Duration: 3 1/2 Years

Course in BE/ B.TECH.	Qualifying Diploma				
	Eligibility:				
Diploma in the relevant Discipline/ Field/ Programme. & Minimum of Two years Full Time work					
	Industry/ Educational and/ Government, Autonomous				
Organizations in the relevant field in which	n admission is sought.				
Computer Science and Engineering /	Electrical and Electronics / Electronics and Communication /				
Electronics and Communication	Electronics and Instrumentation / Electronics Engineering				
Engineering / Electrical and Electronics	(Instrumentation) / Computer Technology / Instrument				
Engineering	Technology / Computer Science / Instrumentation and Control /				
	Electrical Engineering (Instruments and Control) / Electrical				
	Engineering (Sandwich) / Information Technology / Electronics				
	(WSI) / Electrical Engineering / Instrumentation Technology /				
	Computer Engineering / Computer Networking / Electrical and				
	Electronics Engg. (Sandwich) / Electronics (Robotics) /				
	Electronics (Robotics) (Sandwich)				
Civil Engineering	Civil / Civil and Rural / Civil (Architecture) / Architectural				
	Assistantship / Civil (Sandwich) / Architecture (Sandwich) /				
	Environmental and Pollution Control Engg. / Civil (Rural				
	Technology) / Interior Design / Architectural Assistantship				
	(Sandwich)				
Mechanical Engineering	nanical Engineering Mechanical / Mechanical and Rural / Mechanical Design &				
	Drafting / Production / Automobile / Metallurgy / Mechatronics				
	/ Machine Tool Maintenance and Repairs / Tool and Die				
Making / Tool Engineering / Foundry Technology /					
Refrigeration & Air Conditioning / Agricultural / Marine /					
Mechanical (Production) / Mechanical (Sandwich) / Foun					
Technology (Sandwich) / Machine Tool Maintenance and					
	Repairs (Sandwich) / Tool and Die Making (Sandwich) /				
	Production Technology / Tool Design / Mechanical (Tool &				
	Die) / Automobile Technology / Mechanical (Foundry) /				
	Agricultural Technology / Mechanical (R & A.C.) / Electronics				
	(Robotics) / Agricultural Engineering and Farm Equipment				
	Technology / Production (Sandwich) / Mechatronics				
	6J				

(Sandwich) / Electronics (Robotics) (Sandwich)			

ME / M.Tech. (Full TIME) - Duration: 2 years

ME / M.Tech. (Full TIME) - Duration : 2 years				
Course in ME/ M.TECH. Qualifying Degree				
Eligibility:	1 1			
Passed Bachelor's Degree or equivalent in the relevant field. & Obtained at least 50% marks (45% mark				
case of candidates belonging to reserved category) in the qualifying Examination.				
Biotechnology	Chemical Engineering / Leather Technology / Genetic			
	Engineering / Genetic Technology / Bio- Chemical			
	Engineering/Bio-Chemical Technology / Industrial Bio-			
	Technology / Petroleum Engineering / Petroleum Technology /			
	Bio-Technology / Petrochemicals Engineering / Petrochemicals			
	Technology / Agricultural Bio-Technology / Petroleum			
	Refining and PetroChemicals Engineering / Chemical and			
	Electrochemical Engineering.			
	(Or)			
	M.Sc. in Bio-Chemistry / Micro-Biology / Bio-Physics / Bio-			
	Technology / Genetics / B.Pharm			
Computer Science and Engineering	i) Passed Bachelor's Degree or equivalent in the relevant field			
	Computer Science & Engineering			
	/ Information Technology / Software Engineering / Electrical			
	and Electronics Engineering / Electronics and Communication			
	Engineering / Electronics Engineering / Electronics and			
	Instrumentation Engineering / Instrumentation and Control			
	Engineering / Instrumentation Engineering.			
	(Or) M.S. (10+2+2+2) years Pottom Information Technology /			
	M.Sc. (10+2+3+2) years Pattern Information Technology / Computer Science / Software Engineering. M.C.A (10+2+3+3)			
	years Pattern.			
Construction Engineering and	Civil Engineering / Civil and Structural Engineering.			
Management	Civil Eligineering / Civil and Structural Eligineering.			
Embedded Systems Technologies	Electronics and Communication Engineering / Electrical and			
Embedded Systems Technologies	Electronics Engineering / Computer Science and Engineering/			
	Instrumentation and Control Engineering / Electronics and			
	Instrumentation Engineering / Information Technology /			
	Electronics Engineering / Instrumentation Engineering /			
	Software Engineering.			
	(Or)			
	M.Sc. Physics / Applied Electronics / Electronics			
Manufacturing Engineering	Mechanical Engineering / Production Engineering / Automobile			
	Engineering / Aeronautical Engineering / Aerospace			
	Engineering / Mechatronics Engineering / Industrial			
	Engineering / Marine Engineering / Manufacturing Engineering			
	/ Material Science Engineering / Metallurgy Engineering /			
	Industrial Safety Engineering / Material Science and			
	Engineering / Rubber & Plastic Technology / Polymer			
	Engineering / Mechanical and Automation Engineering.			
	Lingincoming / Wicchamean and Matomation Lingincoming.			

Power Systems Engineering	Electrical and Electronics Engineering.
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ME / M.Tech. (Part TIME) - Duration : 3 years Course in ME/ M.TECH.	Qualifying Degree			
Eligibility:				
Passed Degree in relevant discipline/ field/ Programme. Minimum of Two years Full Time work experience in a registered firm/ Company/ Industry/ Educational and/ Government, Autonomous Organizations in the relevant field in which admission is sought.				
Biotechnology	Chemical Engineering / Leather Technology / Genetic Engineering / Genetic Technology / Bio-Chemical Engineering/ Bio-Chemical Technology / Industrial Bio-Technology / Petroleum Engineering / Petroleum Technology / Bio- Technology / Petrochemicals Engineering / Petrochemicals Technology / Agricultural Bio-Technology / Petroleum Refining and PetroChemicals Engineering / Chemical and Electrochemical Engineering. (Or) M.Sc. in Bio-Chemistry / Micro-Biology / Bio-Physics / Bio- Technology / Genetics / B.Pharm.			
Computer Science and Engineering	i) Passed Bachelor's Degree or equivalent in the relevant field Computer Science & Engineering / Information Technology / Software Engineering / Electrical and Electronics Engineering / Electronics and Communication Engineering / Electronics Engineering / Electronics and Instrumentation Engineering / Instrumentation and Control Engineering / Instrumentation Engineering.  (Or)  M.Sc. (10+2+3+2) years Pattern Information Technology / Computer Science / Software Engineering. M.C.A (10+2+3+3) years Pattern.			
Construction Engineering and Management	Civil Engineering / Civil and Structural Engineering.			
Embedded Systems Technologies	Electronics and Communication Engineering / Electrical and Electronics Engineering / Computer Science and Engineering / Instrumentation and Control Engineering / Electronics and Instrumentation Engineering / Information Technology / Electronics Engineering / Instrumentation Engineering / Software Engineering. (Or) M.Sc. Physics / Applied Electronics / Electronics			
Manufacturing Engineering	Mechanical Engineering / Production Engineering / Automobile Engineering / Aeronautical Engineering / Aerospace Engineering / Mechatronics Engineering / Industrial Engineering / Marine Engineering / Manufacturing Engineering / Material Science Engineering / Metallurgy Engineering / Industrial Safety Engineering / Material Science and Engineering / Rubber & Plastic Technology / Polymer Engineering / Mechanical and Automation Engineering.			
Power Systems Engineering	Electrical and Electronics Engineering.			

**Eligibility**: Passed Bachelor Degree of minimum 3 years duration.

Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying Examination.

### 13. Application&Results of Admission

### APPLICATIONS RECEIVED FOR THE ACADEMIC YEAR 2022-2023

Sl.No	Name of The Programme	Sanctioned Intake	Number of Applications Received	No. of Students admitted
1	BE/B.Tech	630	892	296
2	ME/ M.Tech/MBA	168	171	62

### 14. Resultsof Admission Under Management seats:NA

### 15.Information of infrastructure and other resource available

Number of classrooms and size of each : 57 & 68.4 sq. m. to 110.1 sq. m.

Number of Tutorial rooms and size of each : 15 & Size ranging from 44 sq.m to 99.6 sq. m.

Number of Laboratories and size of each : 50 & Size ranging from 66.3 to 289 sq. m.

Number of Drawing Halls with capacity of each : 2 & Size 147.7 sq.m.

Number of Seminar Halls & size : 13& Size ranging from 67.7 sq.m. to140 sq.m

Number of Computer Centres with capacity of each : 1& Size 357.2 sq.m.

Online examination facility

Number of Nodes: 100

Internet bandwidth: 500Mbps

Barrier Free environment for disabled and elderly persons: Available

Occupancy Certificate: Yes

Fire and Safety Certificate: Yes

Hostel Facilities: Girls -327 – 1 Hostel

**Boys-710 – 2 Hostel** 

Separate Dining facility for boys and girls

Separate Gym facility for boys and girls

### **SPORTS INFRASTRUCTURE**

S. No.	Particulars	Nos.
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1	Atheletic track	1
2	Long Jump Pit	2
3	Discuss	2
4	Javeline	1
5	Volley Ball Court	1
6	Volley Ball Court	1
7	Basket Ball Court	1
8	Ball Badminton Court	1
9	Ball Badminton Court	1
10	Shuttle Court	1
11	Tennikoit Court	1
12	Hand Ball	1
13	Foot Ball	1
14	Cricket	1
15	Kabbadi	1
16	Kho Kho	1
17	Carrom	5
18	Chess	5
19	Others (specify)	
	Throw Ball	1
	Table Tennis	2
	Short Put	3

### 1. Library

### Number of Books/Titles/Journals available

	Quantity
Text Books	36375
Reference Books	4967
e-Books	Knimbus e- books (51612)
Journals	178
e-Journals	5546
Digital Database	MEDLINE and other databases of NLM Cambridge Dictionary Online (through DELNET)
CD & Video	1541
Library automation	Koha with RFID
Weeding (Hard & Soft)	1745

	E- Resources IEEE, ASME, ASCE, Science
	Direct, Delnet, knimbus (Remote Access), MHRD
Others (specify)	SWAYAM PRABHA 32 DTH CHANNELS,
	SWAYAM, SHODH GANGA, E-SHODH
	SINDHU), Membership with BCL

**Library –ILMS Software** – Library is fully automated with RFID technology and KOHA ILMS. **International Journals – Online** 

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### **LABORATORY**

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING PATHOGLOGY & MICRO BIOLOGY LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No.	Name of Equipments	
1.	NewbeurCountingChamber	
2.	InoculationChamber	
3.	Microscope	
4.	Autoclave	
5.	BunsenBurner	
6.	ColonyCounter	
7.	HotPlate	
8.	AnalyticalBalance	
9.	Incubator	
10.	WaterBath	
11.	Refrigerator	
12.	Centrifuge	
13.	Uv-Spectrophtometer	
14	FlurecentMicroscope	

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING DIAGNOSTIC AND THERAPEUTIC EQUIPMENT LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

### Sl.No. Name of Equipments

- 1. MultiparameterPatient MonitoringSystem
- 2. ECG12Leadtrainerkit
- 3. EEGamplifier 10-20-3Lwith SimulatorTrainerkit
- 4. EMGamplifier
- 5. DopplerUltrasoundKit
- 6. ElectroSurgicalUnit
- 7. EEG, ECG, EMG electrodes
- 8. Singlechannel ECGbiotelemetryKit

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING BIO TRANSDUCER LAB FOR UG STUDENTS

### LIST OF MAJOR EQUIPMENTS

Sl.No.	Name of Equipments
1.	Characteristics Of Temperature Transducer Trainer Kit
2.	Characteristics Of Temperature Measurement Using Thermistor Trainer Kit
3.	Characteristics Of Hall Effect Transducer Trainer Kit
4.	Characteristics Of Optical Transducers Trainer Kit
5.	Characteristics Of LVDT Trainer Kit
6.	Characteristics Of Strain Guage Trainer Kit
7.	Characteristics Of Potentiometer Transducer Trainer Kit
8.	Characteristics Of Pressure Transducers Trainer Kit
9.	Characteristics Of Piezoelectric Transducers Trainer Kit
10.	Characteristics Of Piezoresistive Transducers Trainer Kit

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING BIOMEDICAL INSTRUMENTATION LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No.	Name of Equipment's
1	MultiparameterPatient MonitoringSystem
2	ECG12Leadtrainerkit
3	EEGamplifier 10-20-3Lwith SimulatorTrainerkit
4	EMGamplifier
5	GSRmeterKitwithsimulator
6	Phmeter
7	EEG, ECG, EMG electrodes
8	Optical IsolationAmplifierkit

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING BIOMEDICAL SIIGNAL PROCESSING-LIST OF EQUIPMENTS FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

## Sl.No. Name of Equipment's 1 HARDWARE PCSYSTEM-05No's 2 MATLABSOFTWARER2021b

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING BIOSENSORS AND MEASUREMENT DEVICES FOR UG STUDENTS LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	GSRMeterKit
2	StrainGuageTransducer
3	TempararureMeasurementforThermistor
4	ECG12 LeadTrainerKit
5	HI2210Ph Meter
6	EmgAmplifierwithSimulator
7	EEGAmplifier10-20-31WithSimulatorTrainerKit

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERINGMEDICALINSTRUMENTATIONLAB FOR UG STUDENTS LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	MultiparameterPatient MonitoringSystem
2	ECG12Leadtrainerkit
3	EEGamplifier 10-20-3Lwith SimulatorTrainerkit
4	EMGamplifier
5	GSRmeterKitwithsimulator
6	Phmeter
7	EEG, ECG, EMG electrodes
8	Optical IsolationAmplifierkit
9	Audiometer
10	ElectroSurgicalUnit

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENTOFBIOTECHNOLOGYBIOCH EMISTRY LAB FOR UG STUDENTS LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	SoxhletApparatus
2	ConductivityMeter
3	Centrifuge
4	MagneticStirrer
5	PHMeter
6	Colorimeter
7	HematologyAutoAnalyzer
8	TurbidityMeter
9	UV-VisibleSpectrophotometer

### VINAYAKA MISSION'S RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY, PAIYANOOR DEPARTMENTOFBIOTECHNOLOGY 17BTCC82-CELLBIOLOGYLAB LISTOFEQUIPMENT

Sl.No.	Name of Equipment's
1	Microscope
2	Laminarairflow

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY MICRO BIOLOGY LAB FOR UG STUDENTS LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	InoculationChamber
2	Microscope
3	Haemocytometer
4	Autoclave
5	BunsenBurner
6	ColonyCounter
7	Hot Plate
8	AnalyticalBalance
9	Incubator
10	WaterBath
11	Refrigerator
12	Centrifuge
13	Uv-Spectrophtometer

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY ADVANCEDBIOCHEMISTRYLAB

### FOR UG STUDENTS LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	PHmeter
2	Colorimeter
3	AutoAnalyzer
4	TurbidityMeter.
5	UV-VisibleSpectrophotometer
6	Soxhletapparatus
7	ConductivityMeter
8	Centrifuge
9	MagneticStirrer

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY MOLECULAR BIOLOGY LAB FOR UG STUDENTS LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	InoculationChamber
2	Microscope
3	Haemocytometer
4	Autoclave
5	BunsenBurner
6	ColonyCounter
7	Hot Plate
8	AnalyticalBalance
9	Incubator
10	WaterBath
11	Refrigerator
12	Centrifuge
13	UV-Spectrophtometer

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY CHEMICAL ENGINEERING LABORATORY FOR UG STUDENTS LIST OF EQUIPMENTS

### Name of Equipment's Sl.No. HeatingMantle 1 MagneticStirrer WithHot Plate 2 FumeExhaustHood 3 VacuumPump 4 SimpleDistillation SetUp 5 Venturimeter 6 7 OrificeMeter DoublePipeHeatExchanger 8 FlowThrough Pipe SetUp 9 10 SteamDistillationSet Up

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY BIOINSTRUMENTATIONLAB

### FOR UG STUDENTS LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	UV-VisibleSpectrophotometer
2	SoxhletApparatus
3	ConductivityMeter
4	Centrifuge
5	MagneticStirrer
6	PhMeter
7	Colorimeter
8	AutoAnalyzer
9	TurbidityMeter.

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY GENETIC ENGINEERING LAB FOR UG STUDENTS LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	PCR
2	UV-Transilluminator
3	DeepFreezer
4	UltraCentrifuge
5	SpinWin
6	BlottingApprantus
7	AgaroseGelElectrophoresisUnit
8	Sds-PageApprantus
9	Gel-Documentation
10	HotPlate
11	MicrowaveOven
12	CoolingCentrifuge
13	Micropipette
14	LaminarAirFlow(Vertical)
15	WaterBath

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY FOODPROCESSINGTECHNOLOGYLAB FOR UG STUDENTS

### LIST OF EQUIPMENTS

Sl.No.	Name of Equipment's
1	MagneticStirrer
2	Hotairoven
3	CoolingCentrifuge
4	DigitalIncubator
5	pHmeter
6	WaterbathIncubator Shaker
7	Centrifuge
8	Florescentmicroscope
9	ElectronicWeighbalance

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY BIOPROCESSING ENGINEERING LABORATORY FOR UG STUDENTS

Sl.No.	Name of Equipment's
1	HotAirOven
2	DigitalIncubator
3	LaminarAirFlowHorizontal
4	WaterBathIncubatorShaker
5	MagneticStirrerWithHotPlate
6	UV-VisibleSpectrophotometer
7	Centrifuge
8	CoolingCentrifuge
9	HotPlateCastIronRectangular
10	Micropipette
11	Fermentor
12	Analytical Balance
13	Electronic Weigh Balance
14	Top Pan Balance

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY DOWNSTREAM PROCESSING ENGINEERING LAB FOR UG STUDENTS

Sl.No.	Name of Equipment's
1	HotAirOven
2	DigitalIncubator
3	LaminarAirFlowHorizontal
4	WaterBathIncubatorShaker
5	MagneticStirrerWithHotPlate
6	Uv-VisibleSpectrophotometer
7	HighPerformanceLiquidChromatography
8	UltrafiltrationUnit
9	Sonicator
10	RevolutionaryCentrifuge
11	CoolingCentrifuge
12	HotPlateCastIronRectangular
13	Micropipette
14	SoxhletExtractionMantle
15	HeatingMantle
16	Analytical Balance Electronic Weigh Balance TopPanBalance

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY ADVANCEDBIOCHEMISTRYLAB

### FOR UG STUDENTS

Sl.No.	Name of Equipment's
1	PHmeter
2	Colorimeter
3	AutoAnalyzer
4	TurbidityMeter.
5	UV-VisibleSpectrophotometer
6	Soxhletapparatus
7	ConductivityMeter
8	Centrifuge
9	MagneticStirrer

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY MICRO BIOLOGY LAB

### FOR PG STUDENTS

Sl.No.	Name of Equipment's
1	InoculationChamber
2	Microscope
3	Haemocytometer
4	Autoclave
5	BunsenBurner
6	ColonyCounter
7	Hot Plate
8	AnalyticalBalance
9	Incubator
10	WaterBath
11	Refrigerator
12	Centrifuge
13	UV-Spectrophtometer

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY GENETICENGINEERINGLABS FOR PG STUDENTS

### Name of Equipment's Sl.No. PCR 1 Ligationbath 2 Electrophoresisequipment 3 Microscope 4 5 Laminarairflow Centrifuge 6 7 Geldocumentationsystem

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY IMMUNOTECHNOLOGYLAB

### FOR PG STUDENTS

Sl.No.	Name of Equipment's
1	MagneticStirrer
2	Hotairoven
3	CoolingCentrifuge
4	DigitalIncubator
5	PHmeter
6	WaterbathIncubator Shaker
7	Centrifuge
8	Florescentmicroscope
9	ElectronicWeighbalance

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY ADVANCED BIOPROCESS LABORATORY LAB

### FOR PG STUDENTS

Sl.No.	Name of Equipment's
1	HotAirOven
2	DigitalIncubator
3	LaminarAirFlowHorizontal
4	WaterBathIncubatorShaker
5	MagneticStirrerWithHotPlate
6	UV-VisibleSpectrophotometer
7	Centrifuge
8	CoolingCentrifuge
9	HotPlateCastIronRectangular
10	Micropipette
11	Fermentor
12	SimpleDistillationSetUp
13	HeatingMantle
14	AnalyticalBalance ElectronicWeighBalance Top PanBalance

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY COMPUTER AIDED BUILDING DRAWINGLAB FOR UG STUDENTS

Sl.No.	Name of Equipment's
1	Computers
	Processor : Core i3@2.4 GHz
	RAM : 2 GB
	OSType : Windows7– 64-bit
2	AutoCADSoftware
	Version : StudentVersion2010

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY SURVEY PRACTICAL -I LAB FOR UG STUDENTS

S.No	NameofEquipments
1	Chain
2	PlaneTable
3	PrismaticCompass
4	DumpyLevel

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY SURVEY PRACTICAL II LABORATORY

FOR UG STUDENTS

### S.No NameofEquipment's 1 Theodolite 2 Tacheometer 3 Totalstation 4 Dumpylevel

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY SOIL MECHANICS LAB

### FOR UG STUDENTS

S.No	NameofEquipment's
1.	Pyconometer
2.	Casagrande's Apparatus
3.	PlasticlimitApparatus
4.	ShrinkageLimitApparatus
5.	StandardandModifiedProctor'sApparatus
6.	Unconfinedcompression testApparatus
7.	DirectshearApparatus
8.	ConsolidationtestApparatus
9.	ConstantHead PermeabilityMethod
10.	FallingHeadPermeabilityMethod
11.	MechanicalSieveShaker
12.	WeighingBalance
13.	DigitalDisplayConstantTemperature ConvectionOven

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY ENVIRONMENTAL ENGINEERING LABORATORY

### FOR UG STUDENTS

S.No	NameofEquipment's
1	PHMeter
2	ConductivityMeter
3	Potentiometer
4	CODAnalyser

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY COMPUTERAIDEDDESIGNANDDRAFTINGLABORATORY FOR UG STUDENTS

S.No		NameofEquipment's
1		
1	Computers	
	Processor	: Core i3@2.4 GHz
	RAM	: 2 GB
	OSType	: Windows7– 64-bit
2	AutoCADSoftw	are
	Version	: StudentVersion2010

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

### CONCRETE&CONSTRUCTIONTECHNOLOGYLAB

### FOR UG STUDENTS

S.No	NameofEquipment's
1.	Vicat'sNeedleApparatus
2.	LeChateliersApparatuswithFlask
3	Blainesairpermeability
4	Slumpconetestapparatus
5	Flowtable
6	CompactionFactorApparatus
7	VeeBeeconsistometer
8	AggregateImpactMachine
9	AggregateCrushingValueApparatus
10	ConcreteMixer
11	NeedleVibrator
12	ComputerizedUniversalTestingMachine
13	LoadingFramewithAccessories
14	ReboundHammer(NDT)
15	WeighingBalance

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

### **SURVEYCAMP**

### FOR UG STUDENTS

S.NO	NAMEOFTHEEQUIPMENTS
1.	Theodolite
2.	Tacheometer
3	Dumpylevel

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NETWORKING AND CASETOOLS LAB/ ALGORITHM LAB

### FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.No List of Equipments

1 LENOVO--NOOF SYSTEM-20

### **CONFIGURATION**

PROCESSOR :COREi5
RAM : 4GB
HARDDISK :1TBHDD
MONITOR :19.5'LED

2 HP –NOOFSYSTEM–49

### **CONFIGURATION**

PROCESSOR :1.6 GHZ

DUAL CORERAM

:1GBDDR2

HARDDISK:160GBHDD MONITOR:18.5"LED

3 LENOVOTHINKCENTER-NOOF SYSTEM-01

### **CONFIGURATION**

PROCESSOR: CORE 2 DUO CPU E750RAM

:2GBD

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.No List of Equipments

1 LENOVO--NOOF SYSTEM-20

### **CONFIGURATION**

PROCESSOR :COREi5
RAM : 4GB
HARDDISK :1TBHDD
MONITOR :19.5'LED

2 HP –NOOFSYSTEM–49

### **CONFIGURATION**

PROCESSOR :1.6 GHZ

DUAL CORERAM

:1GBDDR2

HARDDISK :160GBHDD MONITOR :18.5"LED

3 LENOVOTHINKCENTER-NOOF SYSTEM-01

### **CONFIGURATION**

PROCESSOR: CORE 2 DUO CPU E750RAM

:2GBD

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OBJECT ORIENTED PROGRAMMING LAB FOR UG STUDENTS

### LIST OF MAJOR EQUIPMENTS

S.No List of Equipments

1 LENOVO--NOOF SYSTEM-20

### **CONFIGURATION**

PROCESSOR :COREi5 RAM : 4GB HARDDISK :1TBHDD MONITOR :19.5'LED

2 HP –NOOFSYSTEM–49

### **CONFIGURATION**

PROCESSOR :1.6 GHZ

**DUAL CORERAM** 

:1GBDDR2

HARDDISK :160GBHDD MONITOR :18.5"LED

3 LENOVOTHINKCENTER-NOOF SYSTEM-01

### **CONFIGURATION**

PROCESSOR: CORE 2 DUO CPU E750RAM

:2GBD

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING JAVA PROGRAMMING LAB

#### FOR UG STUDENTS

### LIST OF MAJOR EQUIPMENTS

S.No List of Equipments

1 LENOVO--NOOF SYSTEM-20

### **CONFIGURATION**

PROCESSOR :COREi5
RAM : 4GB
HARDDISK :1TBHDD
MONITOR :19.5'LED

2 HP –NOOFSYSTEM–49

### **CONFIGURATION**

PROCESSOR :1.6 GHZ

**DUAL CORERAM** 

:1GBDDR2

HARDDISK:160GBHDD MONITOR:18.5"LED

LENOVOTHINKCENTER-NOOF SYSTEM-01

### **CONFIGURATION**

PROCESSOR: CORE 2 DUO CPU E750RAM

:2GBD

DR3

3

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COMPILER DESIGN LAB

### FOR UG STUDENTS

### LIST OF MAJOR EQUIPMENTS

S.No List of Equipments

1 LENOVO--NOOF SYSTEM-20

### **CONFIGURATION**

PROCESSOR :COREi5
RAM : 4GB
HARDDISK :1TBHDD
MONITOR :19.5'LED

2 HP –NOOFSYSTEM–49

### **CONFIGURATION**

PROCESSOR :1.6 GHZ

DUAL CORERAM

:1GBDDR2

HARDDISK :160GBHDD MONITOR :18.5"LED

3 LENOVOTHINKCENTER-NOOF SYSTEM-01

### **CONFIGURATION**

PROCESSOR: CORE 2 DUO CPU E750RAM

:2GBD

#### VINAYAKA MISSIONS RESEARCH FOUNDATION

#### AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### WEB TECHNOLOGY LAB

#### FOR UG STUDENTS

### LIST OF MAJOR EQUIPMENTS

S.No List of Equipments

1 LENOVO--NOOF SYSTEM-20

### **CONFIGURATION**

PROCESSOR :COREi5

RAM: 4GB

HARDDISK :1TBHDD MONITOR :19.5'LED

2 HP –NOOFSYSTEM–49

### **CONFIGURATION**

PROCESSOR :1.6 GHZ

DUAL CORERAM

:1GBDDR2

HARDDISK:160GBHDD

MONITOR :18.5"LED

3 LENOVOTHINKCENTER-NOOF SYSTEM-01

#### **CONFIGURATION**

PROCESSOR:

CORE 2 DUO CPU

E750RAM

:2GBD

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NETWORKING LAB

### FOR PG STUDENTS

#### LIST OF MAJOR EQUIPMENTS

S.No List of Equipments

1 LENOVO--NOOF SYSTEM-20

### **CONFIGURATION**

PROCESSOR :COREi5 RAM : 4GB HARDDISK :1TBHDD MONITOR :19.5'LED

2 HP –NOOFSYSTEM–49

### **CONFIGURATION**

PROCESSOR :1.6 GHZ

**DUAL CORERAM** 

:1GBDDR2

HARDDISK:160GBHDD MONITOR:18.5"LED

3 LENOVOTHINKCENTER-NOOF SYSTEM-01

#### **CONFIGURATION**

PROCESSOR: CORE 2 DUO CPU E750RAM

:2GBD

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MICROWAVE AND OPTICAL COMMUNICATION LAB FOR UG STUDENTS

S.NO	S.NO List of Equipment	
1	GunnPowersupply	
2	DirectCoupleMultiHole	
3	HornAntenna	
4	HornAntenna	
5	HornAntenna	
6	DigitalStorageOscilloscope	
7	BNCtoBNC	
8	FrequencyCounter	
9	KLYUSTRONMount	
10	Fibreoptictrainerkit	

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ANALOG AND DIGITAL COMMUNICATION LAB

### FOR UG STUDENTS

S.NO	List of Equipment
1.	Cathode RayOscilloscope
2.	CathodeRay Oscilloscope
3.	Cathode RayOscilloscope
4.	RegulatedPower Supply
5.	Regulated PowerSupply
6.	RegulatedPower Supply
7.	Regulated PowerSupply
8.	FixedPowerSupply +5V
9.	FixedPowerSupply +/-5V
10.	FixedPowerSupply +/-15V
11.	Decade Resistancebox
12.	DecadeResistance Box
13.	Decade Resistancebox
14.	DecadeCapacitance
15.	DecadeInductance
16.	FunctionGenerator
17.	FunctionGenerator

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SIGNAL PROCESSING LAB

### FOR UG STUDENTS

S.NO	List of Equipment
1	PersonalComputer
2	MATLABSOFTWARE
3	SCILABSOFTWARE

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING DIGITAL IMAGE PROCESSING LAB FOR UG STUDENTS

S.NO	List of Equipment
1	PersonalComputer
2	MATLABSoftware
3	SCILABSoftware

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING DATA COMMUNICATION NETWORKING LAB FOR UG STUDENTS

S.NO	List of Equipment
1	LTS01LANTrainerKit
2	LSIMLANProtocolTrainer
3	N-SIMNetwork

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### **FPGA Systems Lab**

### FOR UG STUDENTS

S.NO	List of Equipment
1	PersonalComputers
2	XilinxSoftware

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING EMBEDDED SYSTEMS LAB – I

### FOR UG STUDENTS

S.NO	List of Equipment
1	Microcontrollerkit
2	EmbeddedApplication
3	PersonalComputers
4	XilinxSoftware
5	MATLABSoftware

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING EMBEDDED SYSTEMS LAB – II

### FOR UG STUDENTS

S.NO	List of Equipment
1	MicrocontrollerTrainerKit
2	SoftwareSimulationTool
3	PowerSupply
4	DigitalIcTrainerKit
5	DigitalStorageOscilloscope

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SEMICONDUCTORDEVICESLAB

### FOR UG STUDENTS

S.NO	List of Equipment
1	Function Generator(Analog)
2	CathodeRayOscilloscope
3	RegulatedPowerSupplyDualo/p
4	FixedPowerSupply
5	Voltmeter
6	Ammeter
7	Multimeter

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ANALOGCIRCUITSLAB

### FOR UG STUDENTS

S.No	List of Equipment
1	Function Generator(Analog)
2	CathodeRayOscilloscope
3	RegulatedPowerSupplyDualo/p
4	FixedPowerSupply
5	Voltmeter
6	Ammeter
7	Multimeter

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING LINEAR INTEGRATED CIRCUITS & MICROCONTROLLERS LAB FOR UG STUDENTS

S.No	List of Equipment
1	CathodeRayOscilloscope
2	FunctionGenerator
3	RegulatedPowerSupply
4	DigitalIC TrainerKit
5	Voltmeter
6	Voltmeter
7	Ammeter
8	Ammeter
9	Ammeter
10	FunctionGenerator

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING DIGITAL ELECTRONICS LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.NO	List of Equipment
1	DigitalICTrainerKit
2	DigitalICTester
3	DigitalICTrainerKit
4	DigitalICTester
5	ConnectingWires

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ENGINEERING SKILLS PRACTICE LAB- BASIC ELECTRONICS ENGINEERING FOR UG STUDENTS

S.NO	List of Equipment
1	Function Generator(Analog)
2	CathodeRayOscilloscope
3	RegulatedPowerSupplyDualo/p
4	FixedPowerSupply
5	Voltmeter
6	Ammeter
7	Multimeter
8	DigitalICTrainerKit

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING LINEAR INTEGRATED CIRCUITS & MICROCONTROLLERS LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

### S.NO **List of Equipment** 1 CathodeRayOscilloscope 2 FunctionGenerator 3 RegulatedPowerSupply 4 DigitalIC TrainerKit 5 Voltmeter 6 Voltmeter 7 Ammeter 8 Ammeter 9 Ammeter 10 FunctionGenerator

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING LINEAR INTEGRATED CIRCUITS & MICROCONTROLLERS LAB FOR UG STUDENTS

S.NO	List of Equipment
1	Micro85EBMicroprocessor
2	Micro85EBMicroprocessor
3	MicroprocessorKitESA85-2
4	Micro-85AD-80Microprocessor
5	Micro86EBMicroprocessor
6	Micro86EBMicroprocessor
7	Micro86EBMicroprocessor
8	MicroZ80-Microprocessor
9	MicroControlleMicro89C51Trainerkit
10	Micro8031/51EBTrainer
11	8279InterfaceBoard
12	DACInterface
13	DACInterface
14	16Channel 8-bitADC
15	16Channel 8-bitADC
16	8253interfaceboard
17	Centronicsprinter
18	8259interfaceboard
19	8255interfaceboard
20	CROinterfaceboard
21	Steppermotorinterface
22	Steppermotorinterface
23	Steppermotorinterface
24	Multiplexeddisplayboard
25	Interface Dc Motor Speed
26	Interface DC motor speed

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING HYDRAULICS AND STRENGTH OF MATERIALS LAB (UG) FOR UG STUDENTS

#### LIST OF MAJOR EQUIPMENTS

### S.NO List of Equipment

- 1. Universaltestingmachine
- 2. Impacttestingmachine
- 3. Torsiontestingmachine
- 4. Brinelltestingmachine
- 5. Rockwelltestingmachine
- 6. Beamtestingmachine
- 7. Springtestingmachine
- 8. Gearoil pump
- 9. Constantspeedcentrifugalpump
- 10. Reciprocatingpump
- 11. Jet pump
- 12. Multistage–multispeedcentrifugalpump
- 13. Submersiblepump
- 14. Francisturbine
- 15. Peltonwheelturbine
- 16. Impact ofjetonvanes
- 17. Pipefrictionapparatus
- 18. Lossesinpipesapparatus
- 19. Venturimeter, orificemeter and nozzlemeter
- 20. Nozzle, orifice and mouth piece apparatus
- 21. Kaplanturbinetestrig
- 22. Notch apparatus
- 23. Bernoulli'sverificationapparatus
- 24. Metacentricheight apparatus

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING ENGINEERING SKILL PRACTICE LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.NO	List of Equipment
1	SinglePhaseauto
2	Voltmeter
3	Ammeter
4	Wattmeters
5	SinglePhasetransformer
6	LampLoad
7	Energymeter
8	Voltmeter
9	Voltmeter
10	Ammeter
11	Ammeter
12	InsulationTester
12	Multimeter
14	Galvanometer

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING 17MECC88- COMPUTER INTEGRATED MANUFACTURING LAB FOR UG STUDENTS

S.No	List of Equipment
1	CNCMillingMachine
2	CNCLatheMachine
3	CNCTrainSimulationSoftware
4	MastercamSoftware/EdgecamSoftware
5	Computer

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING SOLAR ENERGY LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

## S.No List of Equipment 1 Artificial Wind generationunit 2 WindTurbine 3 DC-DCconverter 4 Inverter 5 Batterybank

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING WIND ENERGY LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

## S.NO List of Equipment 1 ArtificialWindGenerationUnit 2 WindTurbine 3 DC-DCConverter 4 Inverter 5 BatteryBank

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING SEMICONDUCTOR DEVICES LAB

### FOR UG STUDENTS

S.No	Nameofthe equipment
1	DCAmmeter
2	DCVolmeter
3	CRO
4	Regulatedpower supply
5	Rheostat
6	Decaderesistancebox
7	Decadeinductancebox
8	Decadecapacitancebox
9	Dual fixed power supply
10	FunctionGenerator
11	Multimeter(Digital)
12	Transformer
13	DSO-025
14	Functiongenerator
15	Galvanometer
16	Ammeter(0-10mA)
17	Ammeter(0-30mA)
18	Voltmeter

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING SEMICONDUCTOR DEVICES AND CIRCUIT FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.No	Nameofthe equipment
1	CRO
2	FunctionalGenerator
3	RegulatedPowerSupply

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING

### ELECTRIC CIRCUITS LAB

### FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.No	Nameofthe equipments
1	Regulatedpowersupply
2	SinglePhaseautotransformer
3	Voltmeter
4	Ammeter
5	Wattmeters
6	SinglePhasetransformer
7	LampLoad,holder
8	Energymeter
9	Voltmeter
10	Ammeter
11	InsulationTester
12	Multimeter
13	Galvanometer
14	Tubelightandholder

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING SENSORS AND ELECTRONIC MEASUREMENTS FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.No	Nameofthe equipments
1	DC Motor2.RTD Trainer kit3.Anderson Bridge4.Schering Bridge5.Wein bridge
2	DC Motor2.RTD Trainer kit3.Anderson Bridge4.Schering Bridge5.Wein bridge
3	DC Motor2.RTD Trainer kit3.Anderson Bridge4.Schering Bridge5.Wein bridge
4	DC Motor2.RTD Trainer kit3.Anderson Bridge4.Schering Bridge5.Wein bridge
5	DC Motor2.RTD Trainer kit3.Anderson Bridge4.Schering Bridge5.Wein bridge

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING MEASUREMENTS AND INSTRUMENTATION LAB FOR UG STUDENTS

S.No	Nameoftheequipments
1	SineSquare
2	Regulatedpower
3	DCfixedpower
4	DCfixedpower
5	DigitalMultimeter
6	AndersonBridge
7	ScheringBridge
8	LVDTTrainer
9	Thermocouple
10	StandaloneDAC
11	StandaloneADC
12	InstrumentationKit
13	SinglePhaseload
14	ThreePhaseload
15	DecadeResistancebox
16	DecadeInductancebox
17	DecadeCapacitancebox
18	Ammeter(0-1A)MC
19	Ammeter(0-10mA)MC
20	Ammeter(0-50mA)MC
21	SinglePhaseload
22	Ammeter(0-5-10A)MI
23	Ammeter(0-10-20A)MI
24	Voltmeter(0-300-600V)
25	Wattmeter(0-150-300-60)
26	Wattmeter(0-150-300-60)
27	ResistanceMeasurement
28	PressureMeasurement
29	TorqueMeasurement
30	ThreePhaseResistiveLoad
31	Galvanometer
32	TestingofEnergymeter
33	Calibrationofwattmeter
34	Testingofcurrent
35	Calibrationofammeter
36	Designconstruction
37	Strainmeasurementtrainerkit

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING CONTROL SYSTEMS LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

# SINo NameoftheEquipments 1 Transfer function of Separately and self excited DCgenerator trainerkit 2 Synchrotransmitter&Receivertrainerkit 3 LeadlagNetworksimulator 4 Processcontrolsimulator-PIDcontroller 5 ACservomotorpositioncontroller 6 DCmotorpositioncontrolsystem

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING MICROCONTROLLERS LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

SlNo	NameoftheEquipment	
1	8085MicroprocessortrainerKit	
2	8086Microprocessortrainerkit	
3	8051Microprocessortrainerkit	
4	Trafficlightcontroller	
5	Analoganddigitalconverter	
6	Digitalandanalogconverter	
7	LED7Segmentinterface	
8	LCDInterface	
9	Fixedpowersupply	
10	Steppermotor	

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING DYNAMICS LAB

### FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.No	LISTOFEQUIPMENTS
1	Centrifugal Governor
2	Gyroscopic Couple
3	Tri-Filar Suspension
4	Bi-Filar Suspension
5	Compound Pendulum
6	Spring Mass System
7	Whirling Of Shaft

## INAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING 17EECC83 - ELECTRICAL MACHINES – I LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

SlNo	NameoftheEquipments
1	ACDistributionPanel
2	DCRectifier Panel
3	DCDistributionPanel
4	DCShuntMotor
5	DCSeriesMotor
6	DCCompoundMotor
7	DCShuntMotorcoupledwithDCShuntGenerator
8	SinglePhaseTransformer
9	ThreePhaseTransformer

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING 17EECC85 - ELECTRICAL MACHINES – II LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

SlNo	NameoftheEquipments
1	ACDistributionPanel
2	DCRectifier Panel
3	DCDistributionPanel
4	DCShuntMotor coupledwithAlternator
5	3PhaseSquirrelCageInductionMotor
6	3phaseslipringInductionmotor
7	3PhaseSynchronousinductionmotor
8	1PhaseInductionMotor

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMMABLE LOGIC CONTROLLER FOR UG STUDENTS

SlNo	NameoftheEquipment
1	PLCBasedTrainerKit
2	PLCTrainerKit
3	FlowProcessControl
4	PressureProcessControl
5	BottleFillingSystemUsingPLC
6	InterfacingandNon-InterfacingSystems
7	SimpleTrafficLightControllerSystem
8	ControlValvePositionerController
9	Compressor
10	BasicElectroPneumaticWithPLC

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING POWER ELECTRONICS LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

### NameoftheEquipments SlNo SCR,MOSFET,TRIAC,IGBTTrainerKit 1 2 SCRhalf&fullycontrolledtrainerkit SCRsinglephasecycloconverterkit(SCR,MOSFET,TRIAC,I 3 GBT) 4 CRO(Dual)20 MHZ ACVoltageControllertrainerkit 5 ResonantDC-DCkit 6 Digitalmultimeter 7 8 Thyristorised Drive for 1 HP DC motor(Bridge converterThyristorisedDrivefor 1 HPDC motor) Voltage& Currentcommutationkit 9

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING POWER SYSTEM SIMULATION LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

SlNo	NameoftheEquipments
1	RDP Laptop Intel Quad code processor Z8350 (upto1.92GHZ)-30
2	ScilabSoftware
3	Printer

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING ROBOTICS LAB

### FOR UG STUDENTS

SlNo	NameoftheEquipments
1	DOBOTSOFTWARE
2	COMPUTER

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING POWER ELECTRONICS FOR POWER SYSTEMS LAB FOR PG STUDENTS LIST OF MAJOR EQUIPMENTS

SlNo	o NameoftheEquipments	
1	RDP Laptop Intel Quad code processor Z8350(upto1.92GHZ)-30	
2	ScilabSoftware	

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY ELECTRICAL AND ELECTRONICS ENGINEERING POWER SYSTEM SIMULATION – II FOR PG STUDENTS LIST OF MAJOR EQUIPMENTS

SlNo	NameoftheEquipment
1	RDP Laptop Intel Quad code processor Z8350(upto1.92GHZ)-30
2	ScilabSoftware

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENTOFMECHANICALENGINEERING MACHINEDRAWINGLAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

### S.No List of Equipments

1 COMPUTER

CPUMAKE - HPPROCESSOR -

INTELCOREi5RAM -4GB

ROM -500GB

MONITOR -COMPAQ

OPERATINGSYSTEM-WINDOWS7(Ultimate)

2 SOFTWARE –CATIAV5R21

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING MANUFACTURING TECHNOLOGY LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

### NameoftheEquipment Sl.No Benchgrindingmachine 1 2 Capstan&turretlathe Shapingmachine 3 4 Slottingmachine 5 Planningmachine Horizontalmillingmachine 6 7 Radialdrillingmachine 8 Surfacegrindingmachine 9 Tooland cutter Pillardrillingmachine 10 Cylindricalgrindingmachine 11 12 Heavydutylathe

### VINAYAKA MISSIONS RESEARCH FOUNDATION **AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY** DEPARTMENT OF MECHANICAL ENGINEERING **ENGINE TESTING LAB** FOR UG STUDENTS

Sl.No	NameoftheEquipment
1	RedWoodViscometer.
2	FlashPointandFire PointSetup.
3	Cutsectional,4strokeSinglecylinderedDiese lEngine.
4	Cutsectional,2stroke SinglecylinderedPetrolEngine.
5	Fourstroke, Twincylindered Diesel Engine.
6	Fourstroke,4-cylinderedPetrol Engine
7	Fourstroke, Singlecylindered Diesel Engine.
8	VariableCompressionRatio,SingleCylinder ed,4strokeDieselEngine.

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING DYNAMICS AND METROLOGY LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No	NameOftheEquipment
1	Governor
2	GyroscopicCouple
3	Tri-FilarSuspensionSystem
4	CompoundPendulum
5	SpringMass System
6	WhirlingOfShaft
7	BevelProtector
8	Sine Bar
9	Rotameter
10	ProfileProjector
11	Lvdt
12	Stroboscope
13	LatheToolDynamometer

## VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING FINITE ELEMENT ANLYSIS LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

### NameOftheEquipments Sl.No 1 **COMPUTER** CPUMAKE - HPPROCESSOR -INTELCOREi5RAM -4GB ROM -500GB MONITOR -COMPAQ OPERATINGSYSTEM-WINDOWS7(Ultimate) 2 **SOFTWARE** -ANSYS 16.0

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING INDUSTRIAL AUTOMATION LAB FOR UG STUDENTS

Sl.No	NameOftheEquipments
1	Basicpneumatictrainer kit.
2	Basicpneumatictrainer kitwith electricalcontrols/PLCcontrol
3	Basichydraulictrainerkit
4	Automaticbottlefillingmachine
5	Speedcontrollerof ACand DCdrives

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING HYDRAULICSANDPNEUMATICSYSTEMLAB FOR UG STUDENTS

Sl.No	NameOftheEquipments
1	StudyofSpeedControlCircuitonHydraulicT rainer
2	StudyofSequencingCircuitonHydraulicTrainer
3	StudyofSynchronizingCircuitonHydraulic Trainer
4	StudyofRegenerativeCircuitonHydraulicTr ainer
5	StudyofCounterbalancingCircuitonHydrau licTrainer
6	StudyofISO/GISFluid PowerSymbols
7	Designandassemblyof hydraulic/pneumaticcircuit
8	VisitReportforDemonstrationofFluidPower Circuit

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING ENGINEERING SKILLS PRACTICE LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No	NameOftheEquipments
1	PowerHacksawMachine
2	WoodCuttingMachine
3	ArcWeldingMachine
4	FittingVice
5	CarpentryVice

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING MANUFACTURING PROCESS LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

S.No	Nameofequipments
1	CentreLathe4 1/2"
2	CentreLathe4 1/2"
3	CentreLathe4 1/2"
4	Doubleendedbenchgrinding
	Machine

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING METALLURGY LAB (UG)

### FOR UG STUDENTS

Sl.No	NameOftheEquipment
1	LinishingMachine
2	MuffleFurnaces
3	MetallurgicalMicroscopes
4	DoublediscPolishingMachines
5	MetallographyPolishingstands
6	RockwellHardnessTestingMachine
7	StandardMetallographicSpecimenswithDesicator
8	Dryer

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING AUTOMOBILE ENGINEERING FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No	ListOfEquipments		
1	6CYLINDERDIESELENGINE.		
2	4CYLINDERPETROLENGINE		
3	3CYLINDERPERTOLENGINE		
4	SynchromeshGearBox,TransferCase		
5	SteeringGearBox,DrumBrake		
6	OilFilter,FuelFilter,FuelInjector, Carburetor,MpfiEngine		
7	IgnitionCoil.		
8	OilPump		
9	DialBoreGauge		
10	ClutchAssembly		

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING COMPUTER INTEGRATED MANUFACTURING LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No	ListOfEquipments
1	Laggedpipeapparatus
2	Twoslabguardedhotplateapparatus
3	Compositewallapparatus
4	Pin-finapparatus
5	Naturalconvectionapparatus
6	Forcedconvectionapparatus
7	Emissivityapparatus
8	Heatexchanger
9	StefanBoltzmann'sapparatus
10	Insulatingpowderapparatus

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING DYNAMICS LAB

### FOR UG STUDENTS

S.No	List of Equipments
1	Centrifugal Governor
2	Gyroscopic Couple
3	Tri-Filar Suspension
4	Bi-Filar Suspension
5	Compound Pendulum
6	Spring Mass System
7	Whirling Of Shaft

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING AUTOMATION LAB FOR PG STUDENTS

S.No	ListOfEquipments
1	BasicPneumaticTrainerKit
2	BasicPneumaticTrainerKitWith ElectricalControls/PLCControl
3	BasicHydraulic TrainerKit
4	AutomaticBottleFillingMachine
5	SpeedControllerOfACAndDCDrives

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING COMPUTER INTEGRATED MANUFACTURING LAB FOR PG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No	NameoftheEquipments
1	CNCMillingMachine
2	CNCLatheMachine
3	CNCTrainSimulationSoftware
4	MastercamSoftware/EdgecamSoftware
5	Computer

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING MODELLING AND ANLYSIS LAB FOR PG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No	NameofTheEquipments	
1	COMPUTER	
	CPUMAKE	- HPPROCESSOR
		-
	INTELCOREi	5RAM -
	4GB	
	ROM	-500GB
	MONITOR	-COMPAQ
	OPERATINGSYSTEM- WINDOWS7(Ultimate)	
2	SOFTWARE	C-ANSYS16.0

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF HUMANITIES AND SCIENCE DEPARTMENT OF PHYSICS

### PHYSICAL SCIENCES LAB: PART-A REAL AND VIRTUAL LAB IN PHYSICS LAB FOR UG STUDENTS

S.No	List	of	<b>Equipments</b>
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- 1 TravellingMicroscope
- 2 TorsionalPendulumSetup
- 3 UltrasonicInterferometer
- 4 Spectrometer
- 5 LaserSource
- 6 Poiseuille'ssetup
- 7 Lee'sdiscsetup
- 8 PostOfficebox
- 9 Potentiometer
- 10 Air-wedgesetup
- 11 Band-gapdeterminationkit

### VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF HUMANITIES AND SCIENCE DEPARTMENT OF PHYSICS

### PHYSICAL SCIENCES LAB: PART-A REAL AND VIRTUAL LAB IN CHEMISTRY LAB FOR UG STUDENTS

### LIST OF MAJOR EQUIPMENTS

### S.No List of Equipments

- 1. PH Meter
- 2. Conductivity Meter
- 3. Potentiometer
- 4. UV Visible Spectrometer

# VINAYAKA MISSIONS RESEARCH FOUNDATION AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY DEPARTMENT OF HUMANITIES AND SCIENCE DEPARTMENT OF ENGLISH ENGLISH LANGUAGE LAB FOR UG STUDENTS LIST OF MAJOR EQUIPMENTS

Sl.No	List of Equipments
1	MONITOR
2	UPS
3	HEADSET
4	KEYBOARD
5	MOUSE
6	N-COMPUT

### DEPARTMENT OF BIOMEDICAL ENGINEERING PATHOGLOGY & MICRO BIOLOGY LAB

### FOR UG STUDENTS

### LISTOF EXPERIMENTS

Sl.No.	Name of Experiments
1.	Sterilizationtechniques
2.	Preparationofculturemediaformicroorganisms
3.	ABObloodgrouping
4.	Crossmatchingofblood
5.	Hemoglobinestimation
6.	Bleedingtimeandclottingtime
7.	Studyandhandlingoflightmicroscope
8.	TotalRBCcount
9.	Peripheral smear study (i) Morphology (ii) WBC differential count.
10.	Manualparaffintissueprocessingandsectioncutting
	(demonstration)
11.	Cryoprocessingoftissueandcryo-sectioning(demonstration)
12.	Urinephysicalandchemicalexamination.
13.	SimpleStaining
14.	Gram's Staining
15.	Widalslidetest

### DEPARTMENT OF BIOMEDICAL ENGINEERING BIO TRANSDUCER LAB FOR UG STUDENTS LISTOF EXPERIMENTS

### Sl.No. Name of Experiments

- 1 Characteristics of Temperature Transducers.
- 2 Temperature Measurement using Thermistor and its Linearization characteristics.
- 3 Characteristics of Optical Transducer.
- 4 Characteristics of LVDT.
- 5 Characteristics of Hall effect Transducer.
- 6 Characteristics of Strain Gauge.
- 7 Characteristics of Potentiometer Transducer.
- 8 Characteristics of Pressure transducer
- 9 Characteristics of Piezo electric transducers
- 10 Characteristics of Piezo resistive transducers

### DEPARTMENT OF BIOMEDICAL ENGINEERING BIOMEDICAL INSTRUMENTATION LAB FOR UG STUDENTS LISTOF EXPERIMENTS

Sl.No.	Name of Experiments
1	Blood pressure measurement using sphygmomanometer
2	Design of instrumentation amplifier
3	Measurement PH using PH meter
4	Galvanic Skin resistance measurement
5	Recording of ECG using ECG simulator
6	Recording of EEG using EEG simulator
7	Recording of EMG using EMG simulator
8	Optical Isolation Amplifier
9	Study of Phono Cardiogram (PCG)
10	Study of Types of electrodes

### DEPARTMENT OF BIOMEDICAL ENGINEERING BIOMEDICAL SIGNAL AND IMAGE PROCESSING LAB FOR UG STUDENTS LISTOF EXPERIMENTS

### Sl.No. **Name of Experiments** 1 Representation of basic discrete time signals. Computation of convolution –linear convolution. 2 3 Response of a difference equation to initial conditions; stability. 4 DFT and FFT computation. 5 FIR filter design using windowing techniques 6 IIR filters design-digital Butterworth filter and Chebyshev filter. 7 Simulation of Bio-signals.

Analysis of ECG, EEG & EMG signals

8

### DEPARTMENT OF BIOMEDICAL ENGINEERING DIAGNOSTIC AND THERAPEUTIC EQUIPMENT LAB FOR UG STUDENTS

### LISTOF EXPERIMENTS

Sl.No.	Name of Experiments
1	12 Lead ECG
2	Recording of EEG
3	Electro occulo graph (EOG)
4	Short wave diathermy
5	Surgical diathermy
6	Recording of EMG
7	Ultrasound blood flow meter
8	Biotelemetry
9	Study of Lithotripsy
10	Study of radiotherapy equipment

### DEPARTMENT OF BIOMEDICAL ENGINEERING BIOSENSORS AND MEASUREMENT DEVICES FOR UG STUDENTS LISTOF EXPERIMENTS

### Sl.No. **Name of Experiments** 1 Characteristics of temperature transducers. 2 Characteristics of pressure and optical transducers. 3 Characteristics of strain gauge. 4 Blood pressure measurement using sphygmomanometer. 5 Design of instrumentation amplifier. 6 Measurement PH using PH meter. 7 Galvanic Skin resistance measurement. 8 Recording of ECG using ECG simulator. 9 Recording of EEG using EEG simulator. 10 Recording of EMG using EMG simulator

# DEPARTMENT OF BIOMEDICAL ENGINEERING MEDICAL INSTRUMENTATION LAB FOR UG STUDENTS LISTOF EXPERIMENTS

#### Sl.No. **Name of Experiments** 1 Design and analysis of biological pre amplifiers. 2 Plotting of human auditory response using audiometer. 3 Recording of ECG signal and analysis 4 Recording of EMG-Signal 5 Recording of EEG-Signal 6 Recording of various physiological parameters using patient monitoring system and telemetry units. 7 Measurement of pH and conductivity. 8 Study of ESU – cutting and coagulation modes 9 Study of characteristics of optical Isolation amplifier 10 Galvanic skin resistance (GSR) measurement

# DEPARTMENT OF BIOTECHNOLOGY CHEMICAL ENGINEERING LABORATORY FOR UG STUDENTS

S.NO	NAME OF THE EXPERIMENTS
1.	Simple Distillation
2.	Parallel Flow Heat Exchanger
3.	Counter Flow Heat Exchangers
4.	Bath Adsorption
5.	Batch Sedimentation
6.	Liquid Liquid Equilibrium In Extraction
7.	Solid Liquid Extraction – Leaching
8.	Plate And Frame Filter Press
9.	Determination Of Screen Effectiveness
10.	Calibration Of Orifice Meter
11.	Calibration Of Venturimeter
12.	Steam Distillation
13.	Jaw Crusher
14.	Pressure Drop In Pipes

### DEPARTMENT OF BIOTECHNOLOGY BIOORGANIC CHEMISTRY LAB

### FOR UG STUDENTS LIST OF EXPERIMENTS

S.No	NAME OF THE EXPERIMENTS
1	Synthesis of Aspirin
2	Hydrolysis ofSucrose
3	Preparation of Pyruvic acid from Tartaricacid.
4	Preparation of Oleicacid
5	Preparation of alpha D- glucopyranosepentaacetate
6	Preparation of Lycopene from Tomatopaste
7	Preparation of L-Proline.
8	Preparation of 1,2,5,6 di-O-Cyclohexylidine-alpha-D-glucofuranose.
9	Preparation of s-ethyl hydroxybutonate from ethyl acetoacetate
	usingYeast.
10	Preparation of s-ethyl hydroxybutonate using 3,5dinitrobenzoate.

# DEPARTMENT OF BIOTECHNOLOGY CELL BIOLOGY LAB FOR UG STUDENTS LIST OF EXPERIMENT

#### S.No NAME OF THE EXPERIMENTS

- 1. Introduction to principles of sterilization techniques and cellpropagation.
- 2. Principles of Microscopy.
- 3. Isolation of Cell organelle Mitochondria, Microtubules, Actin and Myosinfilaments.
- 4. Cell Fractionation Separation of peripheral blood mononuclear cells fromblood.
- 5. Cell staining Gram's staining, Leishmanstaining
- 6. Cell counting Tryphan blue assay, Alamar blueassay.
- 7. Osmosis and Tonicity.
- 8. Staining for different stages of mitosis in *Allium cepa*(Onion).

# DEPARTMENTOFBIOTECHNOLOGY MOLECULAR BIOLOGY LAB FOR UG STUDENTS LIST OF EXPERIMENTS

S.NO	NAME OF THE EXPERIMENT
1	neral guidelines for working in molecular biology lab
2	Isolation of genomic dna from e. Coli
3	Quantitativeanalysisofdna
4	Plasmid dnaisolation
5	Isolation of mitochondria from yeast cell
6	Elutionofdnafromagarosegelelectrophoresis
7	Isolationofdnafromanimal
8	Agarose gelelectrophoresis

#### GENETIC ENGINEERING LAB

#### FOR UG STUDENTS

Expt:	NAME OF THE EXPERIMENT
No	
	General guidelines for working in genetic engineering lab
1	Isolation of DNA from plant
2	Isolation of DNA from animal
3	Isolation of fungal DNA
4	B-galactosidase selection using iptg and x-gal
5	Single and double digestion of lambda DNA with restriction enzymes
6	Ligation of DNA
7	GFP cloning
8	Polymerase chain reaction
9	Southern hybridization
10	Protein separation by sds- page

#### **GENETIC ENGINEERING LAB**

#### FOR PG STUDENT

#### LIST OF EXPERIMENTS

#### S.NO NAME OF THE EXPERIMENT

- 1. Leishmanstaining
- 2. Giemsa staining
- 3. Osmosis andtonicity
- 4. Tryphan blue assay
- 5. Staining for different stages of mitosis in Allium cepa(Onion)
- 6. Staining for different stages of meiosis using(Grasshopper)
- 7. Blue and White selection forrecombinants
- 8. Isolation of Genomic DNA from Plant / Animal / BacterialCells
- 9. Isolation of TotalRNA
- 10. Isolation of PlasmidDNA
- 11. Quantification of DNA and RNA
- 12. Gel Electrophoresis of DNA Agarose Gel, Polyacrylamidegel.
- 13. SouthernBlotting.
- 14. Polymerase ChainReaction.
- 15. Elution of Plasmid DNA from Agarose gel.
- 16. Restriction digestion of Bacterial Genomic and PlasmidDNA.
- 17. Ligation of DNA.
- 18. Preparation of CompetentCells.
- 19. Transformation in E.Coli.
- Screening and selection of Recombinants and Confirmation of InsertDNA in Plasmid.
- 21. SDS-PAGE.
- 22. WesternBlotting.

#### **BIOCHEMISTRY LAB**

#### FOR UG STUDENT

#### LIST OF EXPERIMENTS

#### S.NO NAME OF THE EXPERIMENT

- 1. PH measurements and Buffer preparations.
- 2. Estimation of Ascorbic acid by Titrimetric method using 2,6Dichlorophenol Indophenol.
- 3. Determination of Saponification value of Edibleoil.
- 4. Determination of Acid number of Edibleoil
- 5. Determination of Iodine value of oil.
- 6. Isolation of Chloroplast from spinachleaves
- 7. Cheese production from Milk
- 8. Casein fromMilk
- 9. Starch from Potato

#### ADVANCED BIOCHEMISTRY LAB

#### FOR UG STUDENTS

S.NO	NAME OF THE EXPERIMENT
1	Qualitative Analysis of Carbohydrates.
2	Qualitative Analysis of Amino acids.
3	Qualitative Analysis of Lipids.
4	Qualitatively analysis of Normal and abnormal constituents of Urine
5	Estimation of Glucose by O-toludinemethod.
6	Protein estimation byBiuret,
7	Estimation of Cholesterol by Zak'smethod.
8	Estimation of urea DAM method.
9	Estimation of Hemoglobin.
10	Separation of plant pigments by column chromatography(Demo)

#### **BIOINSTRUMENTATION LAB**

#### FOR UG STUDENT

S.NO	NAME OF THE EXPERIMENT
1	Validating Lambert – Beer's law using KMnO <sub>4</sub> .
2	Determination of complementary color and complementary wavelength
3	Precision and Validity in an experiment using Absorption spectroscopy.
4	Finding the Stoichiometry of the Fe (1,10Phenanthroline Complex) spectroscopy.
5	UV spectra of Nucleic Acid.
6	Estimation of Alizarin Aluminium complex
7	Estimation of Al <sup>3+</sup> concentration using Alizarin in the spectrometer.
8	Estimation of Sulphate by Nephelometry.
9	Experiments on
	a) Conductivity meter
10	b) Turbidity meter. Estimation of Dissolvedoxygen.
11	Determination of Fe <sup>2+</sup> content in fruitjuices

#### DEPARTMENT OF BIOTECHNOLOGY ADVANCED BIOCHEMISTRYLAB

#### FOR PG STUDENT

#### LIST OF EXPERIMENT

#### S.NO

#### NAME OF THE EXPERIMENT

One	alitativ	ve An	alysis
Qua	antau	ve An	larysis

	Qualitative Analysis	
1	(i)	Carbohydrates
	(ii)	Lipids
	(iii)	Proteins
	(iv)	Normal and abnormal constituents ofurine.
	(i)	Estimation of glucose by ortho – Toluidinemethod
	(ii)	Estimation of blood urea by Nessler'smethod
	(iii)	Estimation of cholesterol by Zak'smethod
	(iv)	Estimation of bilirubin by Malloy and Erelynmethod
	(v)	Estimation of protein by Lowry'smethod
	(vi)	Estimation of nucleic acids by spectrophotometricmethod
	(vii)	Estimation of haemoglobin by Shali'smethod.
	(viii)	Determination of Erythrocyte Sedimentation Rate by using WestergrenPipette
3	Chron	natography
	Separat	ion of sugars and amino acids by Paperchromatography
	Extracti	ion of lipids and analysis byTLC
4	Enzyme	racean.

- Enzymeassay
  - Determination of serum LDHactivity (i)
  - Determination of Serum Glutamate Oxaloacetate Transaminase (SGOT) by (ii) Mohn and Cook method.
  - Determination of Serum Glutamate Pyruvate Transaminase (SGPT) by (iii) IFCCMethod

#### **IMMUNOLOGY LAB**

#### FOR UG STUDENT

S.NO	NAME OF THE EXPERIMENT
1	Handling of animals, immunization and raising antisera.
2	Identification of cells in a bloodsmear.
3	Identification of bloodgroups.
4	Immunodiffusion
5	Immunoelectrophoresis.
6	Testing for Typhoid antigens by Widaltest.
7	Enzyme Linked ImmunoSorbent Assay(ELISA).
8	Isolation of pheripheral blood mononuclearcells.
9	Isolation of monocytes fromblood.
10	Immunofluorescence

### DEPARTMENT OF BIOTECHNOLOGY FOOD PROCESSING TECHNOLOGY LAB

#### FOR UG STUDENT

S.NO	NAME OF THE EXPERIMENT
1	Preparation of Orangesquash
2	Preparation of Mango jam anfjelly
3	Preparation of Tomatoketchup.
4	Preparation of CannedPea
5	Preparation of Mangopickle.
6	Experiment on Preparation of fruitbar.
7	Preparation of Frozenprawn
8	Preparation of chillisauce
9	Preparation ofbread
10	Identification of Adulterant

## DEPARTMENT OF BIOTECHNOLOGY BIOPROCESSING ENGINEERING LABORATORY FOR UG STUDENTS

S.NO	NAME OF THE EXPERIMENT
1	Batch growth kinetics of bacteria
2	Media optimization by plackett and burman
3	Effect of temperature on enzyme activity
4	Effect of ph on enzyme activity
5	Enzyme immobilization kinetics – gel entrapment
6	Enzyme immobilization – cross linking
7	Enzyme kinetics – michelis-menton parameters
8	Enzyme inhibition
9	Production of wine by yeast
10	Production of amino acid
11	Production of yogurt

### DEPARTMENT OF BIOTECHNOLOGY IMMUNOTECHNOLOGY LAB

#### FOR PG STUDENT

S.NO	NAME OF THE EXPERIMENT
1	Handling of animals, immunization and raisingantisera.
2	Identification of cells in a bloodsmear.
3	Identification of bloodgroups.
4	Immunodiffusion and immuno electrophoresis.
5	Testing for Typhoid antigens by Widaltest.
6	Enzyme Linked Immunosorbent Assay (ELISA).
7	Isolation and culture of peripheral blood mononuclearcells
8	Isolation of monocytes fromblood.
9	Immunofluorescence.
10	Identification of T-cell rossetting using sheepRBC

### DEPARTMENT OF BIOTECHNOLOGY ADVANCED BIOPROCESS LABORATORY

#### FOR PG STUDENT

S.NO	NAME OF THE EXPERIMENT
1	Batch growth kinetics of bacteria-
2	Effect of substrate concentration on growth of e.coli
3	Effect of temperature on enzyme activity
4	Effect of ph on enzyme activity
5	Enzyme immobilization kinetics – gel entrapment
6	Enzyme immobilization – cross linking
7	Enzyme kinetics – michelis-menton parameters
8	Production of wine
9	Determination of kla by sodium sulphite oxidation method
10	Demonstration of a fermentor and its components
11	Centrifugation
12	Ammonium sulphate precipitation
13	Simple distillation
14	Batch sedimentation
15	Liquid – liquid extraction

### DEPARTMENT OF BIOTECHNOLOGY PATHOLOGY AND MICRO BIOLOGY

#### FOR UG STUDENTS

S.NO	NAME OF THE EXPERIMENT
1	Sterilization techniques
2	Preparation of culture media for micro organisms
3	ABO blood grouping
4	Cross matching of blood
5	Hemoglobin estimation
6	Bleeding time and clotting time
7	Study and handling of light microscope
8	Total RBC count
9	Peripheral smear study (i) Morphology (ii) WBC differential count
10	Manual paraffin tissue processing and section cutting
11	(demonstration)  Cryo processing of tissue and cryo-sectioning (demonstration)
12	Urine physical and chemical examination.
13	Simple Staining
14	Gram's Staining
15	Widal slide test

### DEPARTMENT OF BIOTECHNOLOGY MICROBIOLOGY LABORATORY

#### FOR UG STUDENT

S.NO	NAME OF THE EXPERIMENT
1.	Principles Of Microscopy
2.	Sterilization
3.	Preparation Of Culture Media For Micro Organisms
4.	Preparation Of Agar Slants And Agar Plates
5.	Pure Culture Techniques
6.	Simple Staining
7.	Gram's Staining
8.	Enumeration Of Bacteria From Soil
9.	Environmental Sample Analysis
10.	Analysis of Milk Sample
11.	In vitro Determination Of Anti Microbial Sensitivity
12.	Bacterial Growth Curve
13.	Quantitation Of Microbes
14.	Effect Of Different pH on Bacterial Growth
15.	Biochemical Test-Indole production test
16.	Urease test

### DEPARTMENT OF BIOTECHNOLOGY DOWNSTREAM PROCESSING ENGINEERING LAB

#### FOR UG STUDENT

S.NO	NAME OF THE EXPERIMENT
	REMOVAL OF INSOLUBLES
1.	Cell disruption by sonication
2.	Centrifugation studies during settling of yeast cells
3.	Flocculation
	ISOLATION OF PRODUCTS
4.	Isolation of casein from milk ( Isoelectric precipitation)
5.	Precipitation of protein by salting out method (Ammonium sulphate
	precipitation)
6.	Ultra filtration of protein
7.	Aqueous two phase extraction of protein
	PURIFICATION
8.	Separation of plant pigments by Thin layer
	Chromatography
9.	High Performance liquid Chromatography
	POLISHING
10.	Crystallization of a product

#### **MICROBIOLOGY LAB**

#### FOR PG STUDENTS

S.NO		NAME OF THE EXPERIEMNT
1		Sterilization Techniques
2		Preparation Of Culture Media For Micro Organisms
	a.	<b>D</b>
	b.	Solid type media
3		Culture of Micro organisms
	a.	Pure culture techniques
		i) Streak plate
		ii) Spread plate
	d.	iii) Pour plate
4		Identification of Microorganisms
		Staining Techniques
	a.	Simple staning
	b.	Gram staining
	c.	Endospore staining
	d.	Acid Fast staining
	e.	Hanging drop
		Biochemical Testing
	f.	Indole Test
	g.	Urease Test
5		Environmental Sample Analysis
		i) Isolation and enumeration of microbes from soilsample
6	Food I	Microbiology
		i) Analysis of milk sample
7		Clinical Microbiology
	i)	Isolation of normal mouthflora
	ii)	ii) In vitro Determination of Anti Microbial Sensitivity

# DEPARTMENT OF CIVIL ENGINEERING SURVEY PRACTICAL -I LAB FOR UG STUDENTS LIST OF EXPERIMENTS

#### Sl.No.

#### **Name of Experiments**

- 1 CHAINSURVEYING
  - Ranging changing and traverse.
- 2 **COMPASSSURVEYING** 
  - Traverse.
- 3 PLANETABLESURVEYING.
  - Triangulation to find the distance between inaccessible points with and without known scale. Three-point problem, two point problem.
- 4 **LEVELLING** 
  - Study of levels and leveling staff Fly leveling using dumpy level. fly leveling using tilting level. Check leveling.
- 5 THEODOLITESURVEYING
  - Study of theodolite measurement of angles by reiteration and repetition measurement of vertical angles

#### DEPARTMENT OF CIVIL ENGINEERING

#### SURVEY PRACTICAL -II LAB

#### LIST OF EXPERIMENTS

FOR UG STUDENTS

#### Sl.No.

#### **Name of Experiments**

- 1. Study of theodolite and measurement of horizontal angle by repetition method.
- 2. Measurement of horizontal angle by reiteration method.
- 3. Determine the distance and heights of the objects using Stadia tacheometric method.
- 4. Determine the distance and heights of the objects using tangential tacheometric method
- 5. Find the gradient between two points using stadia and tangential tacheometric principle.
- 6. Find the distance and elevation of the inaccessible (single) object by single plane method.
- 7. Find the distance and elevation of the inaccessible (single) object by double plane method.
- 8. Find the elevation of the inaccessible (double) object by double plane method.
- 9. Determine the elevation of the given point using subtense bar.
- 10. Measurement of horizontal, sloping and vertical distances of the object using Total station.
- 11. Setting out a circular curve using Total Station.
- 12. Using profile levelling, plot the longitudinal section and cross section of road

# DEPARTMENT OF CIVIL ENGINEERING SURVEY CAMP FOR UG STUDENTS LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
1.	Triangulation
2.	Trilateration
3.	Road Profile leveling
4.	Calculation of area using Offset Method
5.	Height of a building

# DEPARTMENT OF CIVIL ENGINEERING COMPUTER AIDED BUILDING DRAWING LABORATORY FOR UG STUDENTS LIST OF EXPERIMENTS

# Name of Experiments Principles of planning, orientation and complete joinery details (Paneled and Glazed Doors and Windows) Buildings with load bearing walls Buildings with sloping roof R.C.C. framed structures Industrial buildings – North light roof structures

# DEPARTMENT OF CIVIL ENGINEERING COMPUTER AIDED DESIGN AND DRAWING LABORATORY FOR UG STUDENTS LIST OF EXPERIMENTS

#### Sl.No.

#### **Name of Experiments**

- 1. Design and drawing of R.C.C. cantilever and counter fort type retaining walls with reinforcement details
- Design of solid slab and R.C. Tee beam bridges for IRC loading and reinforcement detail
- 3. Design of rectangular, pressed and hemispherical bottomed steel tank staging –riveted joints detailed drawing
- 4. Design of circular, rectangular and intze type water tank reinforcement details
- Design of plate girder twin girder deck type railway bridge through type and deck type highway bridges – Truss girder bridges – detailed drawing – riveted connection

# DEPARTMENT OF CIVIL ENGINEERING SOIL MECHANICS LABORATORY FOR UG STUDENTS LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
1.	Grain size distribution - Sieve analysis
2.	Grain size distribution - Hydrometer analysis
3.	Atterberg limits test
4.	Determination of moisture - Density relationship using standard proctor.
5.	Permeability determination (constant head and falling head methods)
6.	Specific gravity of soil grains
7.	Relative density of sand
8.	Determination of shear strength parameters
	a) Direct shear test on cohesion less soil
	b) Unconfined compression test in cohesive soil
	c) Triaxial compression test
9.	One dimensional consolidation test

# DEPARTMENT OF CIVIL ENGINEERING ENVIRONMENTAL ENGINEERING LABORATORY FOR UG STUDENTS LIST OF EXPERIMENTS

#### Sl.No.

#### Name of Experiments

- 1. Sampling, preservation methods and significance of characterisation of water and wastewater
- 2. Determination of I)pH and turbidity 2)Hardness
- 3. Determination of Iron & Fluoride
- 4. Determination of residual Chlorine
- 5. Determination of Chlorides
- 6. Determination of Ammonia Nitrogen
- 7. Determination of Sulphate
- 8. Determination of Optimum Coagulant Dosage
- 9. Determination of available Chlorine in Bleaching powder
- 10. Determination of Dissolved Oxygen
- 11. Determination of suspended, volatile and fixed solids
- 12. B.O.D. test
- 13. C. O.D. test
- 14. Introduction to Bacteriological Analysis (Demonstration only)

# DEPARTMENT OF CIVIL ENGINEERING CONCRETE & CONSTRUCTION TECHNOLOGY LABORATORY FOR UG STUDENTS LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
1.	Compressive Strength Test on Bricks
2.	Water Absorption Test on Bricks
3.	Specific gravity Test on Cement
4.	Soundness Test on Cement
5.	Consistency and Setting Time Test on Cement
6.	Crushing Strength Test on Aggregates
7.	Impact Resistance Test on Aggregates
8.	Slump cone on concrete
9.	Flow table test on concrete
10.	Cube and Cylinder strength on concrete
11.	Crushing Strength Test on Aggregates

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COMPUTER PROGRAMMING LAB

#### FOR UG STUDENTS

S.No	List of Experiments
1.	Basic programs to understand different types of data, operators and expressions.
2.	Programs using control structures
	<ul> <li>i) Factorial of a number</li> <li>ii) Fibonacci series</li> <li>iii) Generating prime numbers</li> <li>iv) Generating Armstrong numbers</li> <li>v) Greatest common divisor</li> </ul>
3.	Programs using arrays
	<ul> <li>i) Merging of arrays</li> <li>ii) Array order reversal</li> <li>iii) Selection sort</li> <li>iv) Bubble sort</li> <li>v) Insertion sort</li> </ul>
4.	. Programs using strings
	<ul> <li>i) Palindrome checking</li> <li>ii) String sorting</li> <li>iii) Linear pattern search</li> <li>iv) Text line editing</li> </ul>
5.	Programs using functions
6.	Programs using pointers
7.	Programs using structures

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING RICH INTERNET APPLICATION DEVELOPMENT LAB

#### FOR UG STUDENTS

#### **List of Experiments**

S.No	Name of Experiments
1.	Use HTML5 markup tags for structuring web page
2.	Use HTML5 with appropriate CSS properties and elements for styling, formatting, and enhancing web pages
3.	Construct and validate web pages using HTML5 and CSS3
4.	Implement client-side application logic using JavaScript
5.	Define XML related concepts and languages
6.	Compare and contrast between HTML and XML
7.	Validate XML documents for correctness.
8.	Create JSON in JavaScript and insert JSON data into HTML
9.	Implement Server-Side script to serve client-side requests
10.	Develop dynamic web pages using Ajax technology

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING C# AND .NET APPLICATION DEVELOPMENT LAB FOR UG STUDENTS

#### **List of Experiments**

S.No	Name of Experiments
1.	Classes and Objects using out, ref and params
2.	Student Information System using Properties
3.	Banking Application using Inheritance
4.	Library Management using Predefined Interfaces
5.	Students Admission using User defined Interfaces
6.	Solving Postfix Expressions using Stack
7.	Solving Complex Numbers using Operator Overloading
8.	Matrix Addition, Subtraction, Multiplication and Division using Delegates
9.	User Subscription for News Events using Events
10.	Calculator using Windows Application
11.	Advanced Windows Controls

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING DATABASE MANAGEMENT SYSTEM LAB FOR UG STUDENTS LIST OF EXPERIMENTS

S.No	Name of the Experiments
1	Write a program to illustrate the creation of a database and writing SQL queries to retrieve information from the database
2	Write a program to perform Insertion, Deletion, Modifying, Altering, Updating and Viewing records based on conditions
3	Write a program to illustrate Simple SQL Queries
4	Write a program to analyze and model a database application
5	Write a program to illustrate the creation and Modification of Tables without normalization
6	Write a program to illustrate the creation and Modification of Tables with normalization
7	Write a program to illustrate Integrity Constraints enforcement
8	Write a program to illustrate Complex SQL Queries
9	Write a program to illustrate the creation and usage of other database objects
10	Write a program to illustrate the creation of Procedures, Functions and Package with Cursor
11	Write a program to illustrate the creation of Triggers.
12	Write a program to illustrate the creation of composite data types in PL/SQL

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ALGORITHM LAB

#### FOR UG STUDENTS

S.No	Name of the Experiments
1	Write a program to illustrate basic algorithm design and asymptotic notations
2	Write a program to illustrate algorithm design involving sorting and selection
3	Write a program to illustrate algorithm design involving union find structures
4	Write a program to illustrate algorithm design involving hash tables and priority queues
5	Write a program to illustrate Divide and Conquer Algorithm design
6	Write a program to illustrate Greedy Algorithm design
7	Write a program to illustrate algorithm design involving trees like search trees, interval trees, kd trees and AVL trees
8	Write a program to illustrate Dynamic Programming Algorithm design
9	Write a program to illustrate Branch-and-Bound Algorithms
10	Write a program to illustrate Algorithm design involving graphs
11	Write a program to illustrate Algorithm design involving String matching.
12	Write a program to illustrate Algorithm design based on Network Flows.

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OPERATING SYSTEMS LAB

#### FOR UG STUDENTS

#### **List of Experiments**

S.No	Name of the Experiments
1	Execute Basic UNIX commands.
2	Write C programs to simulate UNIX commands like ls, grep, etc.
_	
3	Given the list of processes, their CPU burst times and arrival times, display/print the
	Gantt chart for FCFS and SJF. For each of the scheduling policies, compute and print
	the average waiting time and average turnaround time. (2sessions).
4	Given the list of processes, their CPU burst times and arrival times, display/print the
4	Gantt chart for Priority and Round robin. For each of the scheduling policies, compute
	and print the average waiting time and average turnaround time. (2sessions).
5	Developing Application using Inter Process communication (using shared memory,
	pipes or message queues).
6	Implement the Producer – Consumer problem using semaphores.
O	Implement the Froducer – Consumer problem using semaphores.
7	Implement some memory management schemes – I.
8	Implement some memory management schemes – II.
9	Implement any file allocation technique (Linked, Indexed or Contiguous)

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NETWORKING LAB FOR UG STUDENTS LIST OF EXPERIMENTS

SL.NO	Name of Experiments
1.	Implementation of Stop and Wait Protocol and Sliding Window Protocol.
2.	Study of Socket Programming and Client – Server model
3.	Write a code simulating ARP /RARP protocols.
4.	Write a code simulating PING and TRACEROUTE commands
5.	Create a socket for HTTP for web page upload and download.
6.	Simple Tcp/Ip Client Server Communication
7.	UDP Echo Client Server Communication
8.	Half Duplex Chat Using TCP/IP
9.	Full Duplex Chat Using TCP/IP
10.	Implementation Of File Transfer Protocol
11.	Remote Command Execution Using UDP
12.	ARP Implementation Using UDP

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING JAVA PROGRAMMING LAB

#### FOR UG STUDENTS

SL.NO	NAME OF EXPERIMENTS
1.	Write a JAVA program to search the largest element from the given array.
2.	Write a JAVA program to sort the strings in an alphabetical order.
3.	Write a JAVA program to extract a portion of a character string and to print the extracted portion
	and the remaining portion of the string. Assume that m characters are extracted, starting with the
	nth character.
4.	Write a JAVA program for illustrating overloading and overriding methods in JAVA.
5.	Write a JAVA program which illustrates the implementation of multiple inheritance using
	interfaces in JAVA.
6.	Write a JAVA program to create your package for basic mathematical operations such as add,
7.	Subtract, multiply. Demonstrate the use of this package in another class.
8.	Write a JAVA program that counts the number of digits in a given number. If an alphabet is
	entered instead of a number, the program should not terminate. Instead it should display
	appropriate error message. (Exception Handling).
9.	Write a JAVA program to move the text "JAVA PROGRAMMING LAB" diagonally using
	Applet.
10.	Write a JAVA program to create an Applet with a label "Do you know car driving?" and two
	buttons Yes, NO.
11.	When the user clicks "Yes" button, the message "Congrats" must be displayed. When the user
	clicks "NO "button, "Regrets" must be displayed.
12.	Write a JAVA program to animate the face image using Applet.
13.	Write a JAVA program to create four Text fields for the name, street, city and pin code with
	suitable Labels. Also add a button called "My Details". When you click the button, your name,
	street, city, and pin code must appear in the Text fields.

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CASE TOOLS LAB FOR UG STUDENTS LIST OF EXPERIMENTS

SL.NO	NAME OF EXPERIMENTS
1.	Prepare the following documents for two or three of the experiments listed below and develop the software engineering methodology.
2.	Program Analysis and Project Planning. Thorough study of the problem – Identify project scope, Objectives, Infrastructure.
3.	Software requirement Analysis Describe the individual Phases / Modules of the project, Identify deliverables.
4.	Data Modelling Use work products – Data dictionary, Use diagrams and activity diagrams, build and test lass diagrams, Sequence diagrams and add interface to class diagrams.
5.	Software Development and Debugging
6.	Software Testing
7.	Prepare test plan, perform validation testing, Coverage analysis, memory leaks, develop test case hierarchy, Site check and Site monitor.
8.	Create an Application for any 2 of the following:
9.	Quiz System Student Marks Analyzing System Online Ticket Reservation System Payroll System Course Registration System Expert Systems ATM Systems Stock Maintenance Real-Time Scheduler Remote Procedure Call Implementation

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING DATA STRUCTURES LAB

## FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Exercises using Objects, Classes, Inheritance
2.	Operator Overloading and Polymorphism
3.	Array implementation of List Abstract Data Type (ADT)
4.	Linked list implementation of List ADT
5.	Cursor implementation of List ADT
6.	Array implementations of Stack ADT
7.	Linked list implementations of Stack ADT
8.	Queue ADT
9.	Search Tree ADT - Binary Search Tre
10.	Heap Sort
11.	Quick Sort

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OBJECT ORIENTED PROGRAMMING LAB

## FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Write a program to illustrate function overloading feature
2.	Write a program to illustrate the overloading of various operators Ex. Binary operators, Unary operators, New and Delete operators.
3.	Write a program to illustrate the use of following functions: a) Friend functions b) Inline functions c) Static Member functions d) Function with default arguments
4.	Write a program to illustrate the use of destructor and the various types of constructors (no arguments, constructor, constructor with arguments, copy constructor etc).
5.	Write a program to illustrate the various forms of inheritance: Ex. Single, Multiple, multilevel, hierarchical inheritance etc.
6.	Write a program having student as on abstract class and create many derived classes such as Engg. Science, Medical, etc. from student's class. Create their objects and process them.
7.	Write a program to illustrate the use of virtual functions.
8.	Write a program to illustrate the use of virtual base class.
9.	Write a program to illustrate file handling operations: Ex. a) Copying a text files b) Displaying the contents of the file etc.
10.	Write a program to illustrate how exceptions are handled (ex: division-by-zero, overflow and underflow in stack etc).
11.	Write a program to illustrate function overloading feature

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING COMPILER DESIGN LAB

## FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Write a program for Constructing NFA from a regular Expression.
2.	Write a program for Constructing DFA from a regular Expression.
3.	Write a program to find leading and Trailing of the given Grammar.
4.	Write a program for constructing Top Down Parsing table.
5.	Write a program to implement Shift reduce parsing Algorithm.
6.	Write a program to implement Operator precedence Parsing Algorithm.
7.	Write a program to find the Closure of the given Grammar.
8.	Write a program for constructing LR Parsing table.
9.	Write a program to generate DAG for the given expression.
10.	Write a program to simulate the storage management.
11.	Write a program to generate a code for a given intermediate code

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ADVANCED JAVA PROGRAMMING LAB

## FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Write a Java Program to implement multithreading (three threads using single
	run method).
2.	Write a Java Program to implement the calculator.
3.	Write a Java Program to implement the URL.
4.	Write a Java Program to implement the InetAddress.
5.	Write a Java Program for Sending E-mail in Java.
6.	Write a Java Program to implement Single Client-Server Communication.
7.	Write a Java Program to implement the Login_Id Form using JDBC.
8.	Write a Java Program to implement the SQL commands using JDBC.
9.	Write a Java Program to implement the JTrees.
10.	Write a Java Program to implement the JTable.
11.	Write a Java Program to create the table using JDBC.
12.	Write a Java Program to implement Remote Method Invocation.

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING DATA STRUCTURES LAB

# FOR PG STUDENTS

# **List of Experiments**

S.No	Name of Experiments
1.	MinHeap
2.	Deaps
3.	LeftistHeap
4.	AVL Tree
5.	B-Tree
6.	Tries
7.	Quick Sort
8.	Convexhull
9.	0/1KnapsackusingDynamicProgramming
10.	Graphcoloring usingbacktracking

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## **NETWORKING LAB**

# FOR PG STUDENTS

# **List of Experiments**

S.No	Name Of Experiments
1.	SocketProgramming
2.	TCPSockets
3.	UDPSockets
4.	ApplicationsusingSockets
5.	SimulationofSlidingWindowProtocol
6.	SimulationofRoutingProtocols
7.	Development of applications such as DNS/HTTP/E -mail/Multi-userChat
8.	SimulationofNetworkManagementProtocols
9.	StudyofNetworkSimulatorPackages—suchasopnet,ns2,etc.

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING OPERATING SYSTEM LAB

#### FOR PG STUDENTS

#### **List of Experiments**

#### **MULTIPROCESSOROPERATINGSYSTEMS**

PROGRAM1–Semaphores-Multiprocessor operating systems

Assumetherearethreeprocesses:Pa,Pb,andPc.OnlyPacanoutputtheletterA,PbB,and PcC.

Utilizing only semaphores (and no other variables) the processes aresynchronized so that the output satisfies the following conditions:

- a) ABmustbeoutputbeforeanyC'scanbeoutput.
- b) B's and C's must alternate in the output string, that is, after the first Bisoutput, another Bcannot beoutput until a C is output.

Similarly, once a C is output, another C cannot be output until a B is output.

c) The total number of B's and C's which have been output at any given point in theoutputstringcannot exceedthenumber of A'swhichhavebeen output uptothat point.

Examples

AACB -- invalid, violates a)ABACAC-- invalid, violates b)AABCABC-- invalid, violates c)AABCAAABC--valid

AAAABCBC -- validAB --valid

PROGRAM2—Multithreading-Multiprocessoroperatingsystems TheCigaretteSmokersProblem Consider a simulation with three *smoker* threads and one *agent* thread. Each smokercontinuously makes a cigarette and smokes it. But to make a cigarette, a smoker needsthree ingredients: tobacco, paper, and matches. One of the smoker threads has onlypaper, another has only tobacco, and the third has only matches. The agent thread hasan infinite supply of all three materials. The three smoker threads are initially blocked. The agent places two randomly chosen (different) ingredients on the table and unblockstheonesmokerwhohastheremaininging redient. The agent then blocks.

Theunblocked smoker removes the two ingredients from the table, makes a cigarette, andsmokes it for a random amount of time, unblocking the agent on completion of smokingthe cigarette. The agent then puts out another random two of the three ingredients, andthecycle repeats.

Write a multi-class multithreaded Java program that uses a monitor to synchronize theagentthreadandthethreesmokerthreads. Donotmechanically translates emaphore code into monitor code! The agent thread executes in an agent object created from an agent class. Each smoker thread executes in a smoker object. Allsmoker objects are created from one smoker class whose constructor is used to specify the ingredient possessed by the smoker object. A driver class with amain method constructs the objects and starts the threads.

Use a single monitor object instantiated from a class Control for synchronization. Each ofthe four threads invokes a synchronized monitor method for its synchronization. Nosemaphoresareallowed.Nosynchronizedblocksareallowed,onlysynchronizedmethods. No busy waiting is allowed. No calls to nap inside a synchronized method areallowed (do notnap while holdingthe monitor object's lock,thatis, while inside asynchronizedmethodorwhileinsidea methodcalledbyasynchronizedmethod).

#### PROGRAM3-Multiplesleepingbarbers-Multiprocessoroperatingsystems

Write a multi-class multithreaded Java program that simulates multiple sleeping barbers, all in one barbershop that has a finite number of chairs in the waiting room. Each customer is instantiated from a single Customer class, each barber is instantiated from a single Barberclass.

#### <u>Networkoperatingsystems</u>

#### PROGRAM4-Networkoperatingsystems

EstablishaLabsetupforthefollowingnetworkoperatingsystemsbasedprograms based on the skills in networking on your own. E.g. for identifyingnetworking hardware, identifying different kinds of network cabling and networkinterface cards canbedone.

#### Exercises

- 1. IdentifyingLocalAreaNetworkHardware
- 2. ExploringLocalAreaNetwork ConfigurationOptions
- 3. VerifyingTCP/IPSettings
- 4. SharingResources
- 5. TestingLANConnections

#### Real timeoperatingsystems

PROGRAM5-Realtimeoperating systems

Areal-timeprogramimplementinganalarmclockshallbedeveloped.[Alarmclock,usingCand Simple\_OS]

Theprogramshallfulfillthefollowing requirements:

Clock with alarm functionality shall be implemented, It shall be possible to set the time, Itshallbepossibletosetthealarmtime,thealarmshallbe*enabled* whenthealarmtimeis set, the alarm shall be *activated* when the alarm is enabled, and when the current timeis equal to the alarm time, an activated alarm must be acknowledged. Acknowledgementof an alarm shall lead to the alarm being *disabled*, *the* alarm is enabled again when anew alarm time is set, an alarm which is not acknowledged shall be repeated every 10seconds. The program shall communicate with a graphical user interface, where thecurrent time shall be displayed, and where the alarm time shall be displayed when thealarm is enabled. It shall be possible to terminate the program, using a command whichis sentfromthegraphical userinterface.

#### <u>Databaseoperatingsystems</u>

PROGRAM6-Transactions and Concurrency-Database operating systems

Exercises

Assumeanyapplication(e.g.banking) onyour ownanddothefollowingexercises.

- 1. InvestigateandimplementtheObjectStore'sconcurrencyoptions.
- 2. Implementtheconcurrencyconflictthatoccursbetweenmultipleclientapplications.
- 3. Observeandimplementtheimplication of nested transactions.

#### <u>Distributedoperatingsystems</u>

#### PROGRAM7-Distributedoperating systems

- 1. Design a RMI Lottery application. Each time you run the client program -"javaLotteryClient n", the server program "LotteryServer" will generaten set ofLottery
  numbers. Here n is a positive integer, representing the money you willspend on Lottery in
  sterling pounds. Write this program in a proper engineeringmanner, i.e. there should be
  specifications, design (flow chart, FD, or
  pseudocode),coding,test/debug,anddocumentation.
- 2. Consider a distributed system that consists of two processes which communicate with each other. Let P be a state predicate on the local state of one process and Qbe a state predicate on the local state of the other process. Assume that neither Pnor Qarestable (i.e.closed).

Designasuperimposedcomputationwhichdetectsthatthereexistsaninterleaving of underlying events in this system where at some state P ^Q holds.(A superposed computation is one that does not a\_ect the underlying system; itmay\read"butnot\write"thestateoftheunderlyingsystem.Eventsinasuperposed computation may occur in at the same instant as the underlyingevents and/oratdi\_erentinstants.) Stateanyassumptionsyoumake.

[Hint:Usevectorclocks.]

#### DEPAREMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **WEB TECHNOLOGY**

#### FOR PG STUDENTS

S.No	Name of the Experiments
1.	Creation of HTML pages with frames, links, tables and other tags
2.	Usage of internal and external CSS along with HTML pages
3.	Client side Programming
4.	Java script for displaying date and comparing two dates
5.	Form Validation including text field, radio buttons, check boxes, list box and other controls
6.	Usage of ASP/JSP objects response, Request, Application, Session, Server,
7.	ADO etc
8.	Writing online applications such as shopping, railway/air/bus ticket reservation system with set of ASP/JSP pages
9.	Using sessions and cookies as part of the web application
10.	Writing Servlet Program using HTTP Servlet
11.	Any online application with database access
12.	Creation of XML document for a specific domain
13.	Writing DTD or XML schema for the domain specific XML document
14.	Parsing an XML document using DOM and SAX Parsers
15.	Sample web application development in the open source environment

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SEMICONDUCTOR DEVICES LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Half Wave Rectifier
2.	Full Wave Rectifier
3.	Clipper
4.	Clamper
5.	Input/output Characteristics of CE Amplifier
6.	Input/output Characteristics of CC Amplifier
7.	Transfer Characteristics of JFET
8.	Voltage Regulator
9.	TRIAC, DIAC
10.	SCR

#### ANALOG CIRCUITS LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### Name of Experiments

- 1. Design, Simulation and Hardware realization of Single Stage Common Emitter amplifier for given specification
- 2. Simulation & Hardware realization of Feedback amplifiers and its frequency analysis
  - a) Voltage Series
  - b) b) Current Shunt
- 3. Design, Simulation and Hardware realization of Sinusoidal waveform generators.
  - a) RC Oscillators
  - b) LC Oscillators
- 4. Design and simulation of Power amplifiers
- 5. Frequency Response characterization of Tuned amplifier circuit.
  - a) Single Tuned
  - b) Double Tuned
- 6. Design and hardware realization of Multistage Amplifier for given specification
  - a) Cascade
  - b) Darlington
- 7. Design and simulation of Differential pair circuit with active load and current references and its frequency analysis.
- 8. Miniproject.

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING LINEAR INTEGRATED CIRCUITS & MICROCONTROLLERS LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
	LINEAR INTEGRATED CIRCUITS LAB
Design	
1.	Inverting, Non-Inverting and Differential Amplifier.
2.	Integrator, Differentiator, Comparator and Schmitt trigger.
3.	Active LPF and HPF.
4.	Astable and Monostable Multivibrators using IC 555.
5.	Voltage regulation using IC 723.
	MICROCONTROLLERS LAB
6.	8086 & 8051 Assembly language program for Arithmetic Operations.
7.	8051 Assembly language program for Logical, Interrupt & UART Operations.
8.	Interfacing DAC to Microcontroller and generate Square, Triangular and Saw tooth waveforms.
9.	Interfacing ADC to Microcontroller.
10.	Interfacing Stepper Motor to 8051 and operate it in Clockwise and Anti-

Clockwise directions.

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS & DESIGN LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No. Name of Experiments

### **Hardware Experiments**

	<u> Hardware Experiments</u>
1.	Design and implementation of Adders using logic gates.
2.	Design and implementation of Sub tractors using logic gates.
3.	Design and implementation of BCD to Excess -3 code converter using logic gates
4.	Design and implementation of Binary to Gray code converter using logic gates
5.	Design and implementation of 4 bit BCD adder using IC 7483
6.	Design and implementation of 2 Bit Magnitude comparator using logic gates
7.	Design and implementation of Multiplexer and De-Multiplexer using logic gates
8.	Design and implementation of encoder and decoder using logic gates
9.	Design and implementation of 3 bit synchronous up/down counter.
10.	Implementation of SISO, SIPO, and PISO shift registers using flip flops.

#### **Software Experiments using HDL**

- 11. Design and Simulation of Full adder circuit using Gate level modelling
- 12. Design and Simulation of 2X2 multiplier circuit using structural level modeling.
- 13. Design and Simulation of 8 to 1 Multiplexer circuit using behavioural level modeling.

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING LINEAR INTEGRATED CIRCUITS & MICROCONTROLLERS LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
	LINEAR INTEGRATED CIRCUITS LAB
Design	
1.	Inverting, Non-Inverting and Differential Amplifier.
2.	Integrator, Differentiator, Comparator and Schmitt trigger.
3.	Active LPF and HPF.
4.	Astable and Monostable Multivibrators using IC 555.
5.	Voltage regulation using IC 723.
	MICROCONTROLLERS LAB
6.	8086 & 8051 Assembly language program for Arithmetic Operations.
7.	8051 Assembly language program for Logical, Interrupt & UART Operations.
8.	Interfacing DAC to Microcontroller and generate Square, Triangular and Saw tooth waveforms.
9.	Interfacing ADC to Microcontroller.
10.	Interfacing Stepper Motor to 8051 and operate it in Clockwise and Anti-Clockwise directions.

#### MICROPROCESSOR LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1. 2.	8085 & 8086 Assembly Language Program (ALP) for Arithmetic Operations 8051 Assembly Language Program (ALP) for Arithmetic Operations.
3.	8051 Assembly Language Program (ALP) for Logical Operations.
4.	8051 Assembly Language Program (ALP) for Bit Manipulation Operations.
5.	8051 Assembly Language Program (ALP) for arrange the numbers in Ascending and Descending order.
6.	8051 Assembly Language Program (ALP) for Interrupt & UART Operations.
7.	Interfacing an ADC to 8051 Controller.
8.	Interfacing DAC to 8051 Controller and generate Square, Triangular & Sawtooth waveform.
9.	Interfacing a Stepper motor to 8051 Controller and operate it in clockwise and anti-clockwise directions.
10.	Interfacing a Keyboard & Display controller (8279) to 8051 Controller.

#### SIGNAL PROCESSING LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Generate different time signals and display the same.
2.	Compute the linear convolution of a signal using DFT.
3.	Compute the circular convolution of a given signal.
4.	Design analogChebyshev filters and apply bilinear transformation
5.	Design analog Butterworth filters and apply bilinear transformation
6.	Design analogChebyshev filters and apply impulse invariance transformation
7.	Design analog Butterworth filters and apply impulse invariance transformation
8.	Design FIR filters using Fourier series method and frequency sampling methods
9.	Design FIR filters using Different windowing techniques
10.	Effect of quantizations

## DIGITAL IMAGE PROCESSING LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	To acquire an image, store in different formats and display the properties of the images.
2.	To find the discrete Fourier transform of a gray scale image and perform inverse transform to get back the image
3.	Analyze the rotation and convolution properties of the Fourier transform using any gray scale image
4.	Find the discrete cosine transform of a given image. Compare discrete Fourier transform and discrete cosine transforms
5.	Apply histogram equalization for enhancing the given images
6.	Perform image enhancement, smoothing and sharpening, in spatial domain using different spatial filters and compare the performances
7.	Perform image enhancement, smoothing and sharpening, in frequency domain using different filters and compare the performances
8.	Perform noise removal using different spatial filters and compare their performances
9.	For the given image perform edge detection using different operators and compare the Results
10.	For a given image, compress and decompress using wavelets. Study and compare the efficiency of the scheme with any two schemes

## DATA COMMUNICATION NETWORKING LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Study of serial data Communication between two computers
2.	Study of Parallel data Communication between two computers.
3.	Study of Network Topologies – Star, Bus & Ring
4.	Implementation of stop and wait protocol using simulator.
5.	Implementation of Sliding window protocol using simulator.
6.	Implementation of Go-Back N protocol using simulator.
7.	Implementation of Selective Repeat protocol using simulator
8.	Study the performance of the network with CSMA/CD protocol
9.	Study the performance of the network with CSMA/ CA protocol
	Implementation of routing algorithm
10.	<ul><li>a. Distance vector Routing Algorithm</li><li>b. Link State Routing Algorithm</li></ul>
11.	Encryption and Decryption
	Study of Ethernets and Fast Ethernets
12.	

#### FPGA SYSTEM DESIGN LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Implementation of Logic Gates –Data flow model and Behavioural model
2.	Combinational logic circuits -Adders and Subtractor
3.	Code converters-Binary to Gray and Gray to Binary
4.	3 to 8 Decoder –74138
5.	4 Bit Comparator –7485
6.	8 x 1 Multiplexer –74151 and 2X4 De-multiplexer –74155
7.	16 x 1 Multiplexer –74150 and 4X16 De-multiplexer –74154
8.	Sequential circuits -Flip-Flops
9.	Decade counter –7490.
10.	Synchronous & Asynchronous Counters
11.	Shift registers –7495.
12.	Universal shift registers –74194/195.
13.	RAM (16 x 4) –74189 (Read and Write operations).
14.	Stack and Queue Implementation using RAM

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING EMBEDDED SYSTEMS LAB - I

#### FOR PG STUDENTS

Sl.No.	Name of Experiments
	Design with 8 bit Microcontrollers 8051/PIC Microcontrollers
1.	i) I/O Programming, Timers, Interrupts, Serial port programming
1.	ii) PWM Generation, Motor Control, ADC/DAC, LCD and RTC Interfacing, Sensor Interfacing
	iii) Both Assembly and C programming
_	Design with 16 bit processors
2.	I/O programming, Timers, Interrupts, Serial Communication,
	Design with ARM Processors.
3.	I/O programming, ADC/DAC, Timers, Interrupts,
4.	Study of one type of Real Time Operating Systems (RTOS)
5.	Electronic Circuit Design of sequential, combinational digital circuits using CAD Tools
6.	Simulation of digital controllers using MATLAB/LabVIEW.
7.	Programming with DSP processors for Correlation, Convolution, Arithmetic adder, Multiplier, Design of Filters - FIR based , IIR based
8.	Design with Programmable Logic Devices using Xilinx/Altera FPGA and CPLD Design and Implementation of simple Combinational/Sequential Circuits
	Network Simulators
9.	Simple wired/ wireless network simulation using NS2
10.	Programming of TCP/IP protocol stack

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING EMBEDDED SYSTEMS LAB - II

#### FOR PG STUDENTS

Sl.No.	Name of Experiments
1.	ATMEL CPLDs – Prochip designer a) Schematic entry b) VHDL entry
2.	AT40K FPGA series – synthesis – design – simulation of application programs
3.	Xilinx EDA design tools – device programming –PROM programming
4.	Programming & Simulation in GUI Simulators /Tools
5.	Code compressor studio for embedded DSP using Texas tool kit
6.	Programming ARM processor :ARM7 / ARM9/ARM Cortex, Study on incircuit Emulators, cross compilers, debuggers
7.	IPCORE usage in VOIP through SoC2 tools
8.	Programming with Rasberry Pi Microcontroller Board :Study on incircuit Emulators, crosscompilers, debuggers
9.	Third party tools for embedded java and embedded C++ applications through cadence tools

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MICROWAVE AND OPTICAL COMMUNICATION LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

Sl.No. Name of Experiments

#### **MICROWAVE**

- 1 Characteristics of Gunn diode Oscillator.
- 2 Characteristics of Reflex Klystron oscillator.
- 3 Characteristics of Directional Coupler
- 4 Characteristics of E / H Plane waveguide Tee
- 5 Characteristics of Magic Tee.
- 6 Horn Antenna Gain and directional Characteristics

#### **OPTICAL COMMUNICATION**

- 1 Numerical aperture determination for fibers
- 2 D.C. Characteristics of LED and PIN Photo Diode
- 3 Optical transmission using Analog Modulation
- 4 Data transmission through Fiber Optic Link.
- 5 PI Characteristics of LASER diode.

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ANALOG AND DIGITAL COMMUNICATION LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Signal Sampling and Reconstruction.
2.	Generation of Amplitude Modulation and Demodulation
3.	Frequency Modulation and Demodulation
4.	Pre-emphasis and De-emphasis
5.	Pulse Amplitude Modulation, Pulse Position Modulation
6.	Generation of ASK,FSK
7.	Generation of PSK and QPSK
8.	Generation of PN Sequences and Direct sequence spread spectrum
9.	Simulation of Analog Modulation schemes in MATLAB
10.	Simulation of Analog Demodulation schemes in MATLAB

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### ENGINEERING SKILLS PRACTICE LAB

#### A. BASIC ELECTRICAL ENGINEERING

#### FOR UG STUDENTS

# Sl.No. List of Experiments

- 1. Residential house wiring using switches, fuse, indicator, lamp and energy meter.
- 2. Fluorescent lamp wiring.
- 3. Stair case wiring.
- 4. Measurement of electrical quantities voltage, current, power & power factor in RLC circuit.
- 5. Measurement of energy using single phase energy meter.
- 6. Measurement of resistance to earth of an electrical equipment.

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ELECTRIC CIRCUITS LAB

Sl.No.	List of Experiments
1.	Verification of Ohm's Law
2.	Verification of Kirchhoff's laws
3.	Verification of Thevenin's Theorem
4.	Verification of Norton's Theorem
5.	Verification of Superposition theorem
6.	Verification of Reciprocity theorem
7.	Verification of Maximum Power Transfer theorem
8.	Time Domain analysis of RC transient circuits
9.	Time Domain analysis of RL transient circuits
10.	Series Resonance Circuit
11.	Parallel Resonance Circuit
12	Three Phase Power Measurement by Two Wattmeter method

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING PROGRAMMABLE LOGIC CONTROLLERS LAB FOR UG STUDENTS

#### Sl.No. **List of Experiments** PLC ladder diagram using logic gates. 1. 2. Stepper Motor interface. 3. D.C motor controller interface. Linear actuation of hydraulic cylinder with counter and speed 4. control. 5. Sequential operation of pneumatic cylinders. 6. Traffic light controller. 7. Speed control of DC motor using PLC. Testing of Relays using PLC. 8. 9. Design of ON / OFF control in Flow and Pressure process control in PLC.

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING POWER ELECTRONICS LAB

Sl.No.	List of Experiments
1.	Characteristics of SCR & TRIAC
2.	Characteristics of MOSFET and IGBT
3.	AC to DC Half controlled converter
4.	AC to DC fully controlled converter
5.	Voltage Commutated Chopper
6.	Resonant DC to DC converter
7.	AC Voltage Controller
8.	Single Phase Cyclo-converter
9.	Converter fed DC Motor Drive
10.	Inverter fed Induction Motor Drive

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## POWER SYSTEM SIMULATION LAB

Sl.No.	List of Experiments
1.	Computation of Parameters and Modeling of Transmission Lines
2.	Formation of Network Matrices and Solution of Networks
3.	Power Flow Analysis - I: Solution of Power Flow and Related Problems Using Gauss-Seidel Method.
4.	Power Flow Analysis II: Solution of Power Flow and Related Problems Using Newton-Raphson and FastDecoupled Methods.
5.	Short Circuit Analysis.
6.	Transient and Small Signal Stability Analysis: Single-Machine Infinite Bus System.
7.	Transient Stability Analysis of Multimachine Power Systems.
8.	Electromagnetic Transients in Power Systems.
9.	Load – Frequency Dynamics of Single and Two-Area Power Systems.
10.	Unit Commitment and Economic Dispatch in Power Systems.

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## MICROCONTROLLERS LAB

Sl.No.	List of Experiments
1.	8085 & 8086 Assembly Language Program (ALP) for Arithmetic Operations
2.	8051 Assembly Language Program (ALP) for Arithmetic Operations
3.	8051 Assembly Language Program (ALP) for Logical Operations
4.	8051 Assembly Language Program (ALP) for Bit Manipulation Operations
5.	8051 Assembly Language Program (ALP) for arrange the numbers in Ascending and Descending order
6.	8051 Assembly Language Program (ALP) for Interrupt & UART Operations
7.	Interfacing an ADC to 8051 Controller
8.	Interfacing DAC to 8051 Controller and generate Square, Triangular & Saw-tooth waveform
9.	Interfacing a Stepper motor to 8051 Controller and operate it in clockwise and anti-clockwise directions. Interfacing a Keyboard & Display controller (8279) to 8051 Controller

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING MEASUREMENTS AND INSTRUMENTATION LAB FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Study of displacement and pressure transducers (LVDT).
2.	Measurement of water level using capacitive Transducer
3.	Measurement of strain using strain Gauge
4.	Study of temperature measuring transducers (Thermocouples).
5.	AC Bridges.
6.	DC Bridges.
7.	Instrumentation amplifiers.
8.	A/D and D/A converter.
9.	Calibration of Current Transformer
10.	Calibration of Single phase Energy meter.
11.	Calibration of Three phase Energy meter.
12.	Measurement of Three phase power and power factor.

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING SEMICONDUCTORDEVICES LAB

Sl.No.	List of Experiments
1.	HalfWaveRectifier
2.	FullWaveRectifier
3.	Clipper
4.	Clamper
5.	Input/outputCharacteristicsofCEAmplifier
6.	Input/outputCharacteristicsofCCAmplifier
7.	TransferCharacteristicsofJFET
8.	VoltageRegulator
9.	TRIAC,DIAC
10.	SCR

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# ELECTRICAL MACHINES – I LAB FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Load test on DC shunt motor.
2.	Load test on DC series motor.
3.	Speed control of DC shunt motor.
4.	Open circuit and load characteristics of DC generator (Self and Separately Excited).
5.	Load test on dc compound generator.
6.	Load test on single phase transformer.
7.	Open circuit & Short circuit test on single phase transformer.
8.	Swinburne's test.
9.	Separation of Losses in single phase transformer.
10.	Hopkinson's test.
11.	Sumpner's test on 1-phase transformer.
12.	Study of three phase transformer connections.
13.	Study of DC Starters.

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### ELECTRICAL MACHINES – II LAB FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Regulation of 3-phase Alternator by EMF and MMF methods
2.	Regulation of 3-phase Alternator by ZPF and ASA method
3.	Slip test on 3-phase Alternator
4.	Load characteristics of 3-phase Alternator by bus bar loading
5.	V and inverted V curve of Synchronous motors
6.	Load test on 3-phase Induction motor
7.	Load test on 1-phase Induction motor
8.	No load and Blocked Rotor test on three phase induction motor
9.	Equivalent circuit and pre – determination of performance characteristics of single-phase Induction motor
10.	Separation of losses in three-phase induction motor
11.	Speed control of three phase induction motor
12.	Study of Linear induction motor and Synchronous Induction motor

#### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

#### **CONTROL SYSTEMS LAB**

#### FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Transfer function of self and separately excited DCG enerator
2.	Transferfunction of Armature and Field controlled DCM otor
3.	Transferfunction of ACServomotor
4.	Frequency response of Lag, Lead & Lag-Lead networks
5. 6.	Studyof SynchrosandDCStepperMotor TransferfunctionofWard— LeonardmethodofspeedcontrolofDCmotor
7.	StudyofDC PositionControlsystemandstudyofvarioustransducers
8. 9.	Study of P, PI and PID Controllers (First Order) Analogands imulation of type—0 and type—1 systems
10.	Stabilityanalysis of Linear Systems
11.	Digitalsimulationoffirstordersystems
12.	Digitalsimulationofsecondordersystems

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING DIGITALLOGICCIRCUITS&DESIGN LAB

#### FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Designandimplementation of Addersusing logic gates
2.	Design and implementation of Subtractors using logic gates
3.	Designandimplementation of BCD to Excess- 3 code converter using logic gates
4.	Designandimplementation of Binary to Gray code converter using logic gates
5.	Designandimplementation of 4 bit BCD adderusing IC7483
6.	Designandimplementation of 2BitMagnitudecomparatorusinglogic gates
7.	Designandimplementation of Multiplexerand De- Multiplexerusing logic gates
8.	Designandimplementation of encoderand decoder using logic gates
9.	Designandimplementation of 3 bits ynchronous up/down counter
10.	Implementation of SISO, SIPO, and PISO shift registers using flip flops
11.	Design and Simulation of Full adder circuit using Gatelevel modelling
12.	Design and Simulation of 2X2 multiplier circuit using structural level modeling
13.	DesignandSimulationof8to  1Multiplexercircuitusingbehaviourallevelmodeling

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING SOLID STATE DRIVES LAB FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Converter fedDCMotorDrive
2.	InverterfedInduction MotorDrive
3.	V/FControlof VSIFedInductionMotor.
4.	Rotor Resistance Controlof Induction Motor.
5.	Simulation of PWM inverter fedsing lephase induction motor control
6.	Simulation of PWM inverter fed three phase induction motor control
7.	SimulationofCSIfedinductionmotordriveanalysis
8.	SimulationofVSIfedinductionmotordriveanalysis

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING LINEAR INTEGRATED CIRCUITS LAB FOR UG STUDENTS

#### Sl.No. **List of Experiments** DesignofInvertingandNon-1. Invertingamplifierusingoperationalamplifier. DesignofAdders andSubtractorsusingoperationalamplifier 2. DesignofIntegrators and Differentiators using operational amplifiers. 3. Designofcomparatorsusingoperational amplifiers. 4. 5. Designofrectifiersusing operational amplifiers. Designofoscillatorsusingoperationalamplifier 6. 7. Design of A stable and Monostable Multivi brators using IC 555 Timer8. Designoffiltersusingoperationalamplifier. 9. Designof Digitalto analog converter and Analog to Digital converters DesignandimplementationofPhaseLockedLoops. 10.

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING SEMICONDUCTOR DEVICES AND CIRCUITS LAB FOR UG STUDENTS

Sl.No.	List of Experiments
1	TostudyexperimentallythecharacteristicsofDiodes,BJT'sand FET's.
2	ToplottheinputandoutputcharacteristicsofatransistorinCE Configurationandtocomputetheh
	_parameters
3	TostudyDraincharacteristicsandTransfercharacteristics&tofindtheTransconductance,Drain resistance andAmplificationfactorofJFET
4	Simulation&Hardware realizationofHalfwave&Fullwave Rectifierwith andwithoutFilter.
4	Simulation&Hardware realizationofClipping&Clampingcircuits
(	Simulation&Hardware
	realizationofVoltageSeriesFeedbackamplifiersanditsfrequencyanalysis
	Design,SimulationandHardwarerealizationofSinusoidalwaveformgenerators.
	a. RCOscillators
	b. LCOscillators
8	DesignandsimulationofPoweramplifiers
Ç	FrequencyResponsecharacterizationofSingleTunedamplifiercircuit.
]	Miniproject

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ROBOTICS LAB

#### FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Study of different types of robots based on configuration and
	application.
2.	Study of different type of links and joints used in robots 3)
3.	Study of components of robots with drive system and end effectors.
4.	Simulation of Forward and Inverse Kinematics using Robo Analyzer
5.	Simulation of Workspace Analysis of a 6 axis robot.
6.	Forward and inverse kinematics using QBot 2
7.	Verification of transformation (Position and orientation) with
	respect to gripper and world coordinate system
8.	Estimation of accuracy, repeatability and resolution.

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### **SOLAR ENERGY LAB**

#### FOR UG STUDENTS

Sl.No.	List of Experiments
1.	I-V and P-V characteristics with series and parallel combination of modules
2.	Effect of variation in tilt angle and shading on PV module power
3.	Power flow calculations of standalone PV systemof DC load withbattery
4.	Power flow calculations of standalone PV systemof AC load withbattery
5.	Power flow calculations of standalone PV systemof DC and ACload with battery
6.	Charging and discharging characteristics of battery
7.	Interfacing of hardware using RS232 ports and suitable software
8.	Evaluation of Active, Reactive Power & Apparent Energy Flowbetween Grid-Tied Inverter, Grid & Load and Net Metering concept
9.	Grid Synchronization of Solar PV Inverter and it Performance Analysis
10.	Impact of Transmission Line Inductance on Voltage Quality at PCC

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING WIND ENERGY LAB FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Evaluate the efficiency of charge controller used in the Wind Energy Training System (WETS)
2.	Evaluate the cut-in speed of wind turbine experimentally
3.	Evaluate the Tip Speed ratio (TSR) at different wind speeds
4.	Draw the turbine Power versus wind speed curve
5.	Draw the curve between TSR and coefficient of power
6.	Draw the power curve of turbine with respect to the rotational speed of rotor at fix wind speeds
7.	Demonstrate the power analysis at turbine output (for high wind speeds)
8.	Demonstrate the power analysis at different branches of wind turbine energy system (at high frequency) with AC load only
9.	Demonstrate the power analysis at different branches of wind turbine energy system (at high frequency) with DC load only

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING SENSORS AND ELECTRONIC MEASUREMENTS LAB FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Speedmeasurement using Photoelectrictachometer
2.	Digital transducer – shaft angle encoder
3.	Straingauge characteristics
4.	Torquemeasurement
5.	Displacementmeasurement using potentiometric transducer
6.	Measurement of Temperatureusing RTD
7.	Measurement oftemperatureusing Thermocouple
8.	Measurement of Capacitanceusing Schering bridge
9.	Measurement ofFrequencyusing Wein bridge
10.	Measurement of Inductanceusing Anderson bridge

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### POWER SYSTEM SIMULATION – II LAB FOR PG STUDENTS

Sl.No.	List of Experiments
1.	Contingency analysis: Generator shift factors and line outage distribution factors
2.	Small signal stability analysis: SMIB and Multi machine configuration
3.	Transient stability analysis of Multi – machine configuration
4.	Economic dispatch with line flow constraints
5.	Unit commitment: Priority-list schemes and dynamic programming
6.	Co-ordination of over current and distance relays for radial line protection
7.	Induction motor starting analysis
8.	Analysis of switching surge using EMTP

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### POWER ELECTRONICS FOR POWER SYSTEMS LAB FOR PG STUDENTS

Sl.No.	List of Experiments
1.	Single Phase Semi-converter with R-L and R-L-E loads for continuous and discontinuous conduction modes
2.	Single Phase Full- Converter With R-L And R-L-E Loads for Continuous and Discontinuous Conduction Modes
3.	Three phase full-converter with R-L-E load
4.	MOSFET, IGBT based Choppers
5.	IGBT based Single phase inverters
6.	Single phase AC voltage controller
7.	Modeling of PV system
8.	Modeling of Wind Energy conversion System
9.	Modeling of HVDC
10.	Modeling of reactive power control

#### **AUTOMOBILE ENGINEERING LAB**

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Dismantling & Assembling Of 6 Cylinder Petrol Engine.
2.	Dismantling & Assembling Of 4 Cylinder Petrol Engine
3.	Dismantling & Assembling Of 3 Cylinder Diesel Engine
4.	Dismantling & Assembling Of Gear Box – Sliding Mesh, Constant Mesh & Synchromesh Gear Box, Transfer Case
5.	Dismantling & Assembling Of Steering System, Braking System
6.	Study Of Oil Filter, Fuel Filter, Fuel Injection System, Carburettor, MPFI
7.	Study Of Ignition System Components – Coil, Magneto And Electronic Ignition Systems.
8.	Study Of Engine Cooling System Components, Study Of Engine Lubrication System Components
9.	Ovality And Taper Measurement Of Cylinder Bore And Comparison With Standard Specifications
10.	Clutch 2 Types – Coil Spring& Diaphragm Spring Clutches

### DEPARTMENT OF MECHANICAL ENGINEERING COMPUTER INTEGRATED MANUFACTURING LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### **Name of Experiments**

#### Introduction

- 1. Study of G and M codes
- 2. Manual Part Programming for CNC Machines using Stand G and M Code.
- 3. Machining practice on Trainer Type CNC Machines-
- 4. Simulation of tool path using any CAM Software

#### Part programming in CNC Milling

- 1. Point to point motions
- 2. Linear motions
- 3. Circular interpolations
- 4. Contour motions
- 5. Rectangular pocketing
- 6. Mirroring
- 7. Circular Pocketing
- 8. Fixed /canned cycles
- 9. Subroutines

#### Part programming for CNC Turning

- 1. Turning and facing
- 2. Step turning, Taper Turning
- 3. Grooving
- 4. Fixed/Canned Cycles
- 5. Thread cutting Cycles
- 6. Peck Drilling Cycles

#### **HEAT TRANSFER LAB**

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No. **Name of Experiments** 1. Determination of Thermal conductivity (Lagged Pipe) **Determination of Emissivity** 2. 3. Determination of Heat transfer co-efficient through Forced Convection. 4. Determination of Heat transfer co-efficient through Natural Convection. Determination of Heat transfer co-efficient of Pin-Fin Apparatus. 5. 6. Determination of Stefan Boltzmann's Constant. 7. Determination of Thermal conductivity (Two Slabs Guarded Hot Plate Method). 8. Determination of Effectiveness of a Heat Exchanger by Parallel Flow. 9. Determination of Effectiveness of a Heat Exchanger by Counter Flow. 10. Determination of Thermal conductivity of the Composite wall.

Determination of Thermal conductivity (Insulating Powder).

11.

# DEPARTMENT OF MECHANICAL ENGINEERING METALLURGY LAB FOR UG STUDENTS LIST OF EXPERIMENTS

#### Sl.No. **Name of Experiments** 1. Introduction to Metallography 2. Preparation of Metallographic Specimen Heat Treatment – Normalising 3. 4. Heat Treatment – Annealing 5. Heat Treatment – Hardening Heat Treatment – Tempering 6. Identification of Low Carbon Steel 7. Identification of Austenitic Stainless Steel 8. 9. Identification of Grey Cast Iron 10. Identification of Nodular Cast Iron 11. Identification of Brass (Copper Alloy) 12. Identification of Aluminium Alloy

#### **ENGINEERING SKILLS PRACTICE LAB (UG)**

#### A.BASIC CIVIL ENGINEERING

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### **Name of Experiments**

#### **Buildings:**

1. Study of plumbing and carpentry components of residential and industrial buildings, Safety aspects.

#### **Plumbing Works:**

- 2. Study of pipeline joints, its location and functions: valves, taps, couplings, unions, reducers, elbows in household fittings.
- 3. Study of pipe connections requirements for pumps and turbines.
- 4. Preparation of plumbing line sketches for water supply and sewage works.
- 5. Hands-on-exercise: Mixed pipe material connection Pipe connections with different joining components.
- 6. Demonstration of plumbing requirements of high-rise buildings.

#### **Carpentry using Power Tools only:**

7. Study of the joints in roofs, doors, windows and furniture. Hands-on-exercise: Wood work, joints by sawing, planning and cutting.

#### **B.BASIC MECHANICAL ENGINEERING**

#### Sl.No.

#### Name of Experiments

- 1. Tee Fitting.
- 2. Vee Fitting.
- 3. Preparation of a mould for a single piece pattern.
- 4. Preparation of a mould for a split piece pattern.
- 5. Half- Lap Joint in Carpentry.
- 6. Dove Tail Joint in Carpentry.
- 7. Lap Joint Welding.
- 8. Butt Joint Welding.

### DEPARTMENT OF MECHANICAL ENGINEERING MANUFACTURING PROCESS LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No. **Name of Experiments** 1. Exercise on plain turning and facing of given cylindrical MS specimen. 2. Exercise on step turning and chamfering. 3. Exercise on taper turning of given specification on a cylindrical specimen. Manufacture of external or internal threads of given specification on a cylindrical 4. Specimen. 5. Exercise on step turning with knurling of given specification on a cylindrical specimen Exercise on drilling, boring and reaming on the given MS plate. 6. 7. Exercise on eccentric turning in lathe on a given specimen. 8. Exercise on drilling with internal thread on a given specimen.

#### DYNAMICS LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments		
1.	PerformanexperimentonWattandPorterGovernor and to find the Stabilityandsensitivity		
2.	Determine the controlling force and speed of a Proell Governor		
3.	Determine the position of sleeve against controlling force and speed of a Hartnell Governor and top lot the characteristic curve of radius of rotation		
4.	Analysethemotionofgyroscope couple using Motorized Gyroscope		
5.	Determination of critical speed ofwhirlingshaft		
6.	Determination of Natural frequency of single degree freedom system in a spring mass system		
7.	Determination of Radius of Gyration using Compound pendulum		
8	DeterminetheMomentofInertia hyTri-filar and Rifilar suspension		

### DEPARTMENT OF MECHANICAL ENGINEERING AUTOMATION LAB

#### FOR PG STUDENTS

Sl.No.	Name of Experiments		
1.	Simulation of single and double acting cylinder circuits		
2.	Simulation of Hydraulic circuits		
3.	Simulation of electro pneumatic circuits		
4.	Simulation of electro hydraulic circuits		
5.	Simulation of PLC circuits		
6.	Exercises on linear and angular measurements		
7.	Exercises on speed measurements		
8.	Exercises on Vibration measurements		
9.	Exercises on Motion controller using servo motors, encoders		
10.	Exercises on fiber optics transducers.		
11.	Exercises on stepper motor.		
12.	Exercises on microprocessor based data acquisition system.		

### DEPARTMENT OF MECHANICAL ENGINEERING FINITE ELEMENT ANALYSIS LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Studyofanalysisanditsbenefits
2.	Stress analysis of cantile verand simply supported beam
3.	Applicationofdistributedloads
4.	Nonlinearanalysisofcantileverbeam
5.	Bucklinganalysis
6.	Stressanalysisofaxi-symmetryvessels
7.	Staticanalysisoftwodimensionaltruss
8.	Transientthermalconduction
9.	Conductiveheattransferanalysis
10.	Planestressbracket
11.	Modalanalysisofsimplysupportedbeam
12.	Harmonicanalysisofacantileverbeam

### DEPARTMENT OF MECHANICAL ENGINEERING INDUSTRIAL AUTOMATION LAB

#### FOR UG STUDENTS

Sl.No.	Name of Experiments		
1.	To design a Speed control circuits for double acting cylinder.		
2.	To design a Synchronization circuit for two cylinders.		
3.	To design a Continuous reciprocation of double acting cylinder.		
4.	To design a Sequencing of two cylinder circuits		
5.	To design a Cascading circuit for trapped signals-2groups		
6.	Implementation of Logic Circuits: AND OR		
7.	Design of Basic Electro Pneumatic Circuits: Continuous reciprocation of cylinder(with timer and counter)		
8.	Design and testing of Force, Velocity calculations in Hydraulic		
9.	Automatic bottle filling Machine		
10.	Design and simulation of PLC Control Pneumatic/ Hydraulic linear actuator circuits.		
11.	To design a Water Level Controller using PLC.		
12	To design a PLC Controlled Material Handling System		

#### DYNAMICS AND METROLOGY LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### **Name of Experiments**

- 1. Perform an experiment on Watt and Porter Governor to prepare performance characteristic curves and to find stability and sensitivity
- 2. Determine the position of sleeve against controlling force and speed of a Hartnell governor and to plot the characteristic curve of radius of rotation
- 3. Analyse the motion of a motorized gyroscope when the couple is applied along its spin axis and determine gyroscopic couple
- 4. Determine the Moment of Inertia by compound pendulum and tri-filar suspension.
- 5. Determine the frequency of undamped free vibration and damped forced vibration of an equivalent spring mass system.
- 6. Determine whirling speed of shaft theoretically and experimentally.
- 7. Angular Measurements using Bevel Protector and Sine Bar
- 8. Flow Measurement using a Rotameter.
- 9. Fundamental dimension measurement of a gear using a contour projector.
- 10. Measurement of Displacement using Linear Variable Differential Transducer.
- 11. Measurement of speed of Motor using Stroboscope.
- 12. Measurement of cutting forces using Lathe Tool Dynamometer

#### STUDY EXPERIMENTS

- 13. Measurement of various diameters of screw thread using Tool makers Microscope
- 14. Measurement of Temperature by using Thermocouples (J- Type, K-Type).

#### **ENGINE TESTING LAB**

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### **Name of Experiments**

- 1. Determination of Viscosity of the given specimen oil by using Red WoodViscometer.
- 2. Determination of Flash Point and Fire Point of the given fuel sample.
- 3. Actual valve timing diagram of a four stroke engine and comparison with theoretical valve timing diagram.
- 4. Actual port timing diagram of a two stroke engine and comparison with theoretical porttiming diagram.
- 5. Performancetestonafourstrokesingle/ twincylinderdieselengine.
- 6. Determination of frictional power of a four cylinder petrolengine by conducting a Morsetest.
- 7. Conductaretardationtest and determine frictional power in a dieselengine.
- 8. Performancetestonvariablecompressionratioenginewithbiofuel.

#### MACHINE DRAWING LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### **Name of Experiments**

#### **DrawingofMachineElementsandsimpleparts**

Selection of Views, additional views for the following machine elements and parts with every drawing proportions

- 1. Popularformsof Screwthreads, bolts, nuts, studbolts, tapbolts, setscrews.
- 2. Keys,cotterjointsandknucklejoint.
- 3. Rivetedjointsfor plates
- 4. Shaftcoupling, spigot and socket pipejoint.
- 5. Journal, pivot and collar and foot step bearings.

#### **Assembly Drawings**

Drawings of assembled views for the part drawings of the following using conventions and easydrawing proportions

- 1. Engine parts –stuffing boxes, cross heads, Eccentrics, Petrol Engine connecting rod, pistonassembly.
- 2. Othermachineparts-Screwsjacks, MachineVicesPlummer block, Tailstock.
- 3. Valves: Steamstopvalve, springloadedsafetyvalve, feedcheckvalveand aircock.

### DEPARTMENT OF MECHANICAL ENGINEERING MANUFACTURING TECHNOLOGY LAB

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### Name of Experiments

- 1. Make a square end from a given round bar by using shaping machine.
- 2. Make an inclined surface from a given specimen by using shaping machine.
- 3. Make a hexagonal block from a given round stock by using plain milling machine.
- 4. Make a spur gear from the given blank by using universal milling machine.
- 5. Make an external keyway on a given round rod by using vertical milling machine.
- 6. Make an internal keyway on a given hallow specimen by using slotting machine.
- 7. Make a grinding process on a machined surface as given surface finish by using cylindrical
- 8. Make an internal thread cutting on a given specimen as per given dimensions by the sequence drilling, boring, reaming and tapping by using respective tools and machines.

# DEPARTMENT OF MECHANICAL ENGINEERING HYDRAULICS AND PNEUMATIC SYSTEM LAB FOR UG STUDENTS

Sl.No.	Name of Experiments
1.	Study of Speed Control Circuit on Hydraulic Trainer
2.	Study of Speed Control Circuit on Hydraulic Trainer
3.	Study of Synchronizing Circuit on Hydraulic Trainer
4.	Study of Regenerative Circuit on Hydraulic Trainer
5.	Study of Counterbalancing Circuit on Hydraulic Trainer
6.	Study of ISO/GIS Fluid Power Symbols
7.	Design and assembly of hydraulic / pneumatic circuit
8	Visit Report for Demonstration of Fluid Power Circuit

#### DEPARTMENT OF MECHANICAL ENGINEERING ENGINEERING SKILLS PRACTICE LAB (UG)

#### A.BASIC CIVIL ENGINEERING

#### FOR UG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### Name of Experiments

#### **Buildings:**

 Study of plumbing and carpentry components of residential and industrial buildings,
 Safety aspects.

#### **Plumbing Works:**

- 2. Study of pipeline joints, its location and functions: valves, taps, couplings, unions, Reducers, elbows in household fittings.
- 3. Preparation of plumbing line sketches for water supply and sewage works.
- 4. Demonstration of plumbing requirements of high-rise buildings.

#### **Carpentry using Power Tools only:**

- 5. Study of the joints in roofs, doors, windows and furniture.
- 6. Hands-on-exercise: Wood work, joints by sawing, planning and cutting.

#### **B.BASIC MECHANICAL ENGINEERING**

Sl.No.	Name of Experiments
1.	Tee – Fitting.
2.	Vee – Fitting.
3.	Preparation of a mould for a single piece pattern.
4.	Preparation of a mould for a split piece pattern.
5.	Half- Lap Joint in Carpentry.
6.	Dove Tail Joint in Carpentry.
7.	Lap Joint – Welding.
8.	Butt Joint – Welding.

# DEPARTMENT OF MECHANICAL ENGINEERING MODELLING AND ANALYSIS LAB FOR PG STUDENTS LIST OF EXPERIMENTS

Sl.No.	Name of Experiments		
1.	Studyofanalysisanditsbenefits		
2.	Stress analysis of cantile ver and simply supported beam		
3.	Applicationofdistributedloads		
4.	Nonlinearanalysisofcantileverbeam		
5.	Bucklinganalysis		
6.	Stressanalysisofaxis-symmetryvessels		
7.	Staticanalysisoftwodimensionaltruss		
8.	Transientthermalconduction		
9.	Conductiveheattransferanalysis		
10.	Planestressbracket		
11.	Modalanalysisofsimplysupportedbeam		
12	Harmonicanalysisofacantileverbeam		

#### **CIM LAB**

#### FOR PG STUDENTS

#### LIST OF EXPERIMENTS

#### Sl.No.

#### **Name of Experiments**

#### **Exercise on CNC Lathe:**

- 1. Plain Turning
- 2. Step turning
- 3. Taper turning
- 4. Threading
- 5. Grooving
- 6. canned cycle

#### **Exercise on CNC Milling Machine**

- 7. Profile Milling
- 8. Mirroring
- 9. Scaling
- 10. canned Cycle

#### **Study of Sensors**

- 11. Transducers & PLC: Hall-effect sensor, Pressure sensors, Strain gauge, PLC, LVDT, Load cell, Angular potentiometer, Torque, Temperature & Optical Transducers.
- 12. Mini project on any one of the CIM elements is to be done. Software or hardware simulating a CIM element.

#### CAD LABORATORY -2D modeling and 3D modeling of components

- 13. Bearing
- 14. Couplings
- 15. Gears
- 16. Sheet metal components
- 17. Jigs, Fixtures and Die assemblies.

#### DEPARTMENT OF HUMANITIES AND SCIENCES

#### **DEPARTMENT OF ENGLISH**

#### **ENGLISH LANGUAGE LAB**

#### FOR UG STUDENTS

Sl. No.	Name of Experiments
1.	Listening Skill (Activity 1)
2.	Listening Skill (Activity 2)
3.	Listening Skill (Activity 3)
4.	Listening Skill (Activity 4)
5.	Listening Skill (Activity 5)
6.	Phonetics
7.	Accents and MTI
8.	Speaking Skill (Activity 1)
9.	Speaking Skill (Activity 2)
10.	Speaking Skill (Activity 3)
11.	Speaking Skill (Activity 4)
12.	Speaking Skill (Activity 5)
13.	Case Study 1
14.	Case Study 2
15.	TOEFL
16.	BEC

#### DEPARTMENT OF HUMANITIES AND SCIENCES

#### **DEPARTMENT OF PHYSICS**

#### PHYSICAL SCIENCES (REAL AND VIRTUAL LAB IN PHYSICS) LAB

#### FOR UG STUDENTS

Sl. No.	Name of Experiments
1.	Young's Modulus of a bar – Non uniform bending.
2.	Torsional Pendulum – Determination of Rigidity modulus of
	the wire.
3.	Determination of Viscosity of a liquid – Poiseulle's Method.
4.	Ultrasonic Interferometer – Determination of velocity of sound
	and compressibility of the liquid.
5.	Diode Laser – Determination of Particle size.
6.	Spectrometer – Determination of Wavelength of the mercury
	Spectrum.
7.	Air-wedge – Determination of thickness of the material.
8.	Determination of thermal conductivity of bad conductor -
	Lee's Disc Apparatus.
9.	Band Gap Apparatus – Determination of Band gap of a
	therrmistor.
10.	Young's Modulus of a bar – Non uniform bending.
11.	Torsional Pendulum – Determination of Rigidity modulus of
	the wire.
12.	Determination of Viscosity of a liquid – Poiseulle's Method.
13.	Specific resistance of a wire - Potentiometer

#### **DEPARTMENT OF HUMANITIES AND SCIENCES**

#### **DEPARTMENT OF CHEMISTRY**

#### PHYSICAL SCIENCES LAB: PART – B ENGINEERING CHEMISTRY LAB

#### FOR UG STUDENTS

Sl. No.	Name of Experiments	
1.	. Determination of Hardness by EDTA method.	
2.	Estimation of Hydrochloric acid by Conductometric method.	
3.	Acid base titration by pH method.	
4.	Estimation of ferrous ion by Potentiometric method.	
5.	Determination of Dissolved oxygen by Winkler's method	
6.	Estimation of Sodium by Flame photometer	
7.	Estimation of copper from Copper Ore Solution	
8.	Estimation of iron by spectrophotometer	
9.	Separation of mixture of components using thin layer chromatography.	
10.	Corrosion experiment by weight loss methods.	

#### **Computing Facilities**

Internet Bandwidth: 500 Mbps

SI.No	Nameof theItem	NumberofQuantity
1	Desktop	520
2	MiniLaptop	240
3	Laptop	27

#### SERVERROOMEQUIPMENTS

S.NO	EQUIPMENT	CONFIGURATION	QTY
1	SYSTEM –	PROCESSOR: INTEL XEON @1.86 GHZ	3
	HPPROLIANTML110	RAM:4GB	
		HDD:250GB	
2	SYSTEM –	PROCESSOR: INTEL XEON @1.86 GHZ	1
	HPDL380G5	RAM:2GB	
		HDD:72 GB	
3	SYSTEM-	PROCESSOR: INTEL XEON @1.86 GHZ	1
	DELLPOWEREDGET31	RAM:4GB	
	0	HDD:500GB	
4	SYSTEM-	PROCESSOR: INTEL CORE IS @ 3.20 GHZ	2
	DELLOPTIPLEX302	RAM:4GB	
	0	HDD:1TB	
5	SYSTEM -	PROCESSOR: INTEL XEON @3.00 GHZ	1
	HPPROLAINT	RAM:4GB	
	BL260CG5	HDD:500GB	
6	ASSEMBLEDSYS	PROCESSOR: INTEL CORE I3 @ 3.70 GHZ	1
	TEM	RAM:4GB	
		HDD:1TB	
	ASSEMBLEDSYS	PROCESSOR: INTEL CORE I3 @ 3.70 GHZ	1
7	TEM	RAM:4GB	
		HDD:500GB	
8	MICROTIK	MICROTIK GIGABIT ROUTER	1
	ROUTERCCR1009-7G-		
	1C-15+		
9	SOPHOS	1000NODESSUPPORT	1
	XG430FIREWALL		
10	EXTREAM	MANAGEABLE28PORT	1
	SUMMITX460-24X		
	CORESWITCH		
11	HIKE VISION	64CHANNELNVRFULLHD1080	4
	64CHANNELNVR		

#### Major software packages available:

S. NO.	Department	Name	Version
1	Mechanical	CATIA V5 academic discover package	V5 academic discover package- 30 User

2	Mechanical	PROE wildfire 3.0	wildfire 3.0 - 5 User
3	Mechanical	Autodesk Inventor Professional 2009 solution Set	Professional 2009 solution Set- 20 User
4	Mechanical	Solid Works	Education version 2014-15 50 User
5	Mechanical	ANSYS 16.0 ACADEMIC TEACHING MECHANICAL (2,56,000 nodes) + CFD(5,12,000 nodes)	16.0 Academic Teaching 50 User
6	Mechanical	Edge Cam	R2020- 10 User
7	Mechanical	MASTERCAM for solidworks Version X7	X7- 30 User
8	Mechanical	ESI(Tronic) Bosch Vehicle Diagnostic Software	ESI TRONIC
9	Mechanical	CNC	CNC TRAIN
10	Mechanical	Automation Studio	
11	Mechanical	QCAD	Open source software
12	Mechanical	OpenFoam	Open source software
13	Mechanical	Openmodelica	Open source software
14	Mechanical	Lab view ic engine automation software VCR lab	
15	EEE	COMOS plant Engineering software	NIL
16	EEE	SIMATIC Pcs 7 Software Trainer Package V 8.2	8.2
17	EEE	Simit Simulation Framework	9
18	EEE	Scilab	OPEN SOURCE
19	EEE	e Sim	OPEN SOURCE
20	CSE	Microsoft Office	365
21	CSE	Adobe Reader	15
22	CSE	Win Zip	22
23	CSE	Win Rar	6
24	ECE	L-SIM Simulator	NIL
25	ECE	N-Sim Simulator	NIL
26	ECE	Xilinux	HLx
27	ECE	Arudino	Open Source
28	ECE	e sim	Open Source
29	ECE	Scilab	Open Source
30	ECE	Tinker Cad	Open Source
31	ECE	NS2	Open Source
32	Civil	AutoCADD	
33	Civil	Revit Architecture	Revit2015
34	Civil	sap2000	
35	English	Odell	1
36	Caentre for Nano technology Lab	Instrument Software for AFM	Park System - Smart Scan - 1.0R TM11; Park System - XE1
37	Caentre for Nano technology Lab	Instrument Software for FITR	Lab solition IR 2.20
38	Caentre for Nano technology Lab	Instrument Software for UV-Spectrometer	UV performance 1.10

Innovation Cell: Available Social Media Cell: Available Compliance of NAD: yes

Facilities: https://www.avit.ac.in/campus/hostel.php

#### 16. Placement details of students in the last 3 years

S.No	Department	21-22	20-21	19-20
1	Biotechnology	8	4	3
2	Biomedical	5	16	13
3	Civil	30	26	16
4	CSE	42	38	16
5	ECE	21	25	15
6	EEE	17	13	5
7	Mechatronics	5	5	4
8	Mechanical	87	80	52
9	Automobile	4	5	2

#### 17. List of Research Projects / Consultancy works

#### Projects Carried out, funding agency, Grant received

Name of the Project	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provide d (INR in Lakhs)	Duration of the project
Preventive Women's Safety App using Location based Alerting	Chitra.L	Department of Science & Technology- SEED	Electrical and Electronics Engineering	2019-20	13.22	2 Years

#### Publication in last 3 years

S.No	Year	No. of Journals
1	2022	202
2	2021	110
3	2020	257

#### **Consultancy Works in last 3 Years**

Name of advisory / R&D Name of the consultancy/clin ical trial project		Consulting/Sponsoring agency with contact details	Year	Revenue generated (INR in Lakhs)
Department of Civil Engineering, AVIT	Compression Testing	Sri Varahai Construction, Chennai	2022-2023	0.014
Department of Civil Engineering, AVIT	Compression Testing	Mrs. Theerkadharshni, Research Scholar	2022-2023	0.04

Department of Civil Engineering, AVIT	Compression Testing	Sri Varahai Construction, Chennai	2022-2023	0.006
Department of Civil Engineering, AVIT	Compression Testing	Sri Varahai Construction, Chennai	2022-2023	0.008
Department of Civil Engineering, AVIT	Compression Testing	Sri Varahai Construction, Chennai	2022-2023	0.01
Department of Civil Engineering, AVIT	Evaluation report	United Shakthi Associates	2022-2023	0.0855
Dept. of Mechanical Engineering,AVIT	Alternate fuel Testing Research Lab	Nachimuthu Polytechnic college, Pollachi	2022-2023	0.035
Department of Civil Engineering, AVIT	Structural Drawing	Jayakrishna ,Proprietor,M/s Jayam Ventures-9884362527	2022-2023	0.09
Department of Civil Engineering, AVIT	Structural Drawing	G K Constructions	2022-2023	0.3
Department of Civil Engineering, AVIT	Geo technical Report	IGCAR	2022-2023	0.195
Dept. of Mechanical Engineering,AVIT	Alternate fuel Testing Research Lab	J J College of Engineeringand Technology	2022-2023	0.0425
Dept. of Mechanical Engineering,AVIT	Alternate fuel Testing Research Lab	Veltech University	2022-2023	0.07
Department of Civil Engineering, AVIT	Structural Drawing	Mr.Vignesh Shankar	2022-2023	0.04
Department of Civil Engineering, AVIT	Structural Drawing	Mr.K.Aathiram, Lithika Construction, Thirukkalukundram	2022-2023	0.1502
Department of Civil Engineering, AVIT	Soil Test	IGCAR, Kalpakkam	2021-2022	0.432
Department of Civil Engineering, AVIT	Soil Test	Aurobindo Reality & Infrastructure Pvt. Ltd., Vittilapuram, Chengalpet District	2021-2022	0.316
Department of Civil Engineering, AVIT	Soil Test	Aurobindo Reality & Infrastructure Pvt. Ltd., Vittilapuram, Chengalpet District	2021-2022	0.04
Department of Civil Engineering, AVIT	Analysis and design of G+4 RCC structure and drafting and detailing of structural drawing	Sree Thangam Constructions	2020-2021	1.02
Dept. of Biotechnology, AVIT	Enzyme Stability	Janaki Scientific Company	2020-2021	0.25

Dept. of Electronics & Communication Engineering, AVIT	Design and Development of Solar and Wind Energy Generator Training System	OHMTRONIXS	2020-2021	0.15
Dept. of Mechanical Engineering, AVIT	Consultation for 3D Printing and prototype design	ShivPrema Project Consultant	2020-2021	0.20
Dept. of Mechanical Engineering, AVIT	Test rig for brass gas valve shaft used in gas stoves	Avinash Industries	2020-2021	0.50

#### **MOUs with Industries**

https://www.avit.ac.in/research/mou.php

#### AICTE APPROVAL LETTERS:

https://www.avit.ac.in/aicte\_approvals/