

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: principal@avit.ac.in

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	Pro Vice Chancellor, VMRF (DU), Salem	Member
3	Mr.J.Suresh Samuel	VMRF(DU), Chennai office	Member
4	Dr.E.Rathnasabapathi	Principal, VMHMC, Salem	Member
5	Dr.DeeptiShastri	Deputy Dean, VMKVMC&H, Salem	Member
6	Dr.K.Mujibur Rahman	Professor & Head, Department of Community Medicine, VMMC&H, Karaikal.	Member
7	Dr.B. Jayaprakash	Associate Professor, Department of Ophthalmology, VMKVMC&H, Salem	Member
8	Dr.T.V.Devarajan	Emeritus Professor of Medicine, AVMC, Puducherry. Senior Consultant Physician, Apollo Hospitals, Chennai	External Expert
9	Padmasri Dr.Sirkali G.Sivachidambaram MD.,	Dean(Former), Government Medical College, Visiting Professor, Faculty of fine Arts, Annamalai University	External Expert
10	Dr.M.Vadivel Kumar	Chairman,(Former)Indian board of Orthodontics	External Expert
11	Yet to be nominated	--	Member
12	Dr.A.Nagappan	Registrar, VMRF(DU), Salem	Ex-officio Secretary

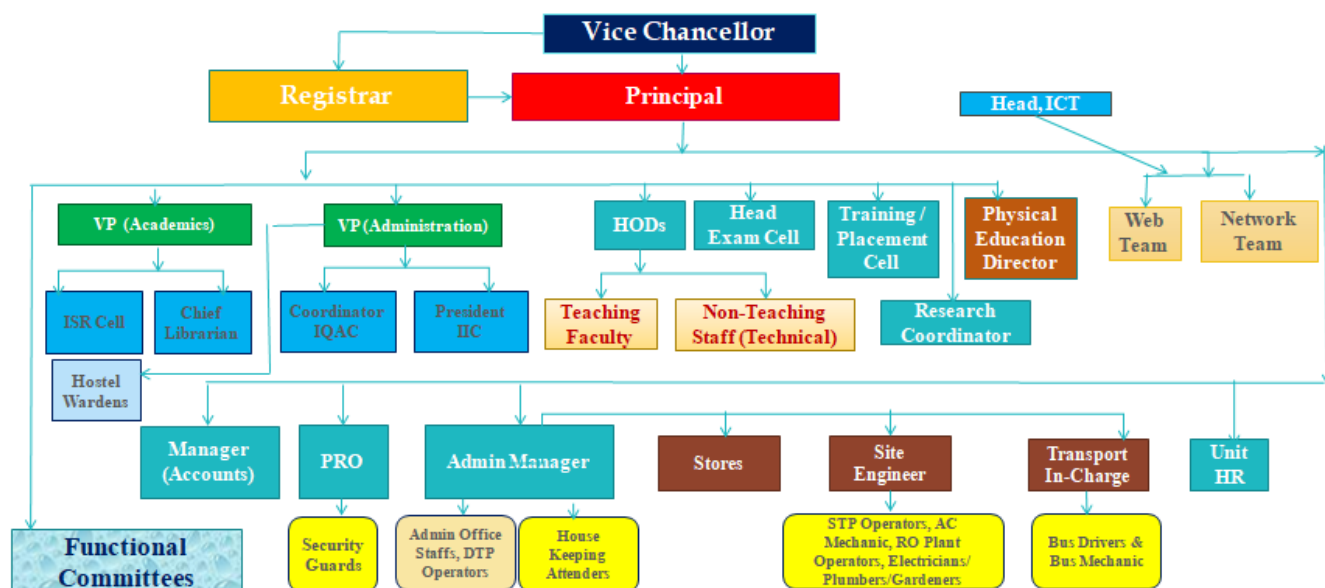
Members of Academic Advisory Body

<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 has modules related to Admission, Academics, Examination, Administration, Finance and Planning, and Monitoring. In addition to e-governance, the University uses LMS extensively. The institution 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 minimum work disruption and reduced turnaround time in case of issues.

VMRF(DU) has constituted all statutory bodies Viz. Board of Management, Academic Council, Planning and Monitoring Board, Finance Committee and Board of Studies as per prescribed standards. Board of Management chaired by Vice Chancellor is the chief governing body, which has fair representation of

eminent external and learned internal members as per prescribed standards. Board of Management is committed to the vision and mission through transparent and participatory governance by embracing new technologies and adhering to standards of Quality. Approved Strategic Plan for development has been deployed and Board 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 approved by Board of Management, for various academic, administrative and research activities implementation. To supplement MoA and Rules VMRF(DU) has well defined and structured Service rules, code of conduct, Staff Welfare Policy, Staff Appraisal policy, Finance and audit Policy, Research related Policies like Research Promotion Support & Incentives policy, Innovation and Entrepreneurship Policy, IPR and Consultancy Policy, Research Code of Conduct and Ethics, Policy/ Guidelines On Standardization for author affiliation and Institution names 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 Banu	drwahidabanu@gmail.com	9443008886

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://avit.ac.in/programmes-offered/>

Name of Programmes Accredited by NBA

Nil

NAAC Accreditation Status – Accredited by NAAC – ‘A’ Grade

Programme details with Approved Intake

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

PROGRAMME/COURSES	Approved Intake					
	23-24	22-23	21-22		20-21	
B.Tech. Biotechnology	30	30	30		30	
B.E. Civil Engineering	90	90	60	60	60	60
B.E. Computer Science and Engineering	180	180	120	60	90	60
B.E. Electronics & Communication Engineering	60	60	30	60	60	60
B.E. Electrical and Electronics Engineering	90	90	60	60	60	60
B.E. Mechanical Engineering	180	180	120	60	120	60
B.E. Biomedical Engineering	60	60	60		60	
B.E. Mechatronics	-	-	30		30	
B.E. Computer Science and Engineering (Cyber Security)	90	60	60		30	
B.E. Artificial Intelligence and Data Science	-	-	60		60	
B.E. Pharmaceutical Engineering	30	30	30		60	
B.E. Computer Science & Engineering (Artificial Intelligence and Machine Learning)	120	60	-		-	
B.E. Computer Science & Engineering (Internet of Things and Cyber Security including Blockchain Technology)	-	60	-		-	
B.E. Computer Science and Design	30	60	-		-	
M.Tech. Biotechnology	18	36	18	18	18	18
M.E. Construction Engineering and Management	18	36	18	18	18	18
M.E. Computer Science and Engineering	18	36	18	18	18	18
M.E. Embedded Systems Technologies	18	36	18	18	18	18

M.E. Manufacturing Engineering	18	36	18	18	18	18
M.E. Power Systems Engineering	18	36	18	18	18	18
MBA	60	60	60	60	60	60

Placement Details:

Level of course	Name of the Course	Lowest Salary (In Lakhs)	Highest Salary (In Lakhs)	Average Salary (In Lakhs)
Under Graduate	B.Tech. Biotechnology	2.05	2.4	2.225
Under Graduate	B.E. Civil Engineering	1.9	2.5	2.2
Under Graduate	B.E. Computer Science and Engineering	1.2	3	2.1
Under Graduate	B.E. Electronics & Communication Engineering	1.2	3.5	2.35
Under Graduate	B.E. Electrical and Electronics Engineering	1.9	6	3.95
Under Graduate	B.E. Mechanical Engineering	1.9	6	3.95
Under Graduate	B.E. Biomedical Engineering	2.05	2.4	2.25
Under Graduate	B.E. Mechatronics	2.05	2.4	2.25
Post Graduate	MBA	2	3	2.3
Post Graduate	M.Tech. Biotechnology	2	3	2.3
Post Graduate	M.E. Construction Engineering and Management	2	3	2.3
Post Graduate	M.E. Computer Science and Engineering	3.1	4.1	3.5
Post Graduate	M.E. Embedded Systems Technologies	3	3.5	3.25
Post Graduate	M.E. Manufacturing Engineering	3.0	4.0	3.5
Post Graduate	M.E. Power Systems Engineering	3	3.5	3.25

Fee Structure:

<https://avit.ac.in/fee-structure/>

7. Faculty

Course/Branch wise list of Faculty Members – Permanent & Adjunct Faculty

Name of the Faculty	Designation	Department	Highest Qualification
Dr.R.Devika	Professor	Biotechnology	PhD
Dr.B.Praba Sheela	Professor	Biotechnology	PhD
Dr.A.Nirmala	Associate Professor	Biotechnology	PhD
Dr.K.Nakarajan	Associate Professor	Biotechnology	PhD
Dr.A.Mohamed Adil	Associate Professor	Biotechnology	PhD
Dr.M.Janani	Associate Professor	Biotechnology	PhD
Ms.M.Subathra	Asst Professor	Biotechnology	M.Tech
Dr. V.Bhuvaneshwari	Asst Professor	Biotechnology	PhD
Mrs.L.Nagalakshmi	Asst Professor	Biotechnology	M.Phil
Ms.M.Kavitha	Asst Professor	Biotechnology	M.Tech

Ms.A.Sasikala	Asst Professor	Biotechnology	M.Tech
Ms.A K .Ramya	Asst Professor	Biotechnology	M.Tech
Dr.S.Shanmuga Sundar	Asst Professor	Biotechnology	PhD
Ms.R.Preethi	Asst Professor	Biotechnology	M.Pharm
Ms.I.Sridevi	Asst Professor	Biotechnology	M.E.
Dr.E.Rajasegaran	Asst Professor	Biotechnology	PhD
Ms.Swadhi Balasubramanian	Asst Professor	Biotechnology	Pharm.D
Mr.R.Veerakumar	Asst Professor	Biotechnology	M.Tech
Ms.L.Catherine	Asst Professor	Biotechnology	M.Tech
Ms.D.Govarthanapriya	Asst Professor	Biotechnology	M.Tech
Prof.P S.Balaganapathy	Associate Professor	Department Of Management	MBA
Dr. V.Sheela Mary	Professor	Department Of Management	PhD
Mrs.S.Subashini	Associate Professor	Department Of Management	MBA
Dr. Vanimurugesan	Associate Professor	Department Of Management	PhD
Mr.T.Thangaraja	Asst Professor	Department Of Management	MBA
Mr.R.Prakash	Asst Professor	Department Of Management	MBA
Mr.B.Guruprasad	Asst Professor	Department Of Management	MBA
Mr.J.Rajkumar	Asst Professor	Department Of Management	MBA
Ms.A.Arunmathi	Asst Professor	Department Of Management	MBA
Dr.Dollymisra	Asst Professor	Department Of Management	PhD
Mr.Jayagopiprasanna	Asst Professor	Department Of Management	MBA
Mr.V.Barathnivash	Asst Professor	Department Of Management	MBA
Ms.M.Sandhiya	Asst Professor	Department Of Management	MBA
Ms.K.Suriya	Asst Professor	Department Of Management	MBA
Ms.M.Rojalakshmi	Asst Professor	Department Of Management	MBA
Dr.S P.Sangeetha	Professor	Civil Engineering	PhD
Dr.R.Divahar	Professor	Civil Engineering	PhD
Dr.D S.Vijayan	Professor	Civil Engineering	PhD
Dr.P S.Aravind Raj	Associate Professor	Civil Engineering	PhD
Dr.C.Vaidevi	Associate Professor	Civil Engineering	PhD
Mr.R.Johnson Daniel	Asst Professor	Civil Engineering	M.E.
Mrs.P.Subathra	Asst Professor	Civil Engineering	M.E.
Dr.Pa.Suriya	Asst Professor	Civil Engineering	PhD
Ms.R.Abirami	Asst Professor	Civil Engineering	M.Tech
Ms.C.Nivetha	Asst Professor	Civil Engineering	M.E.
Mr.D.Parthiban	Asst Professor	Civil Engineering	M.E.
Mr.K.Naveen Kumar	Asst Professor	Civil Engineering	M.E.
Ms.S.Monisha	Asst Professor	Civil Engineering	M.E.
Mr.R.Sanjaykumar	Asst Professor	Civil Engineering	M.E.
Mr.B.Saravanan	Asst Professor	Civil Engineering	M.Tech
Ms.N.Nageswari	Asst Professor	Civil Engineering	M.E.
Mr.K.Gopinath	Asst Professor	Civil Engineering	M.E.
Mr.S.Srinivasan	Asst Professor	Civil Engineering	M.E.
Mr.T.Ayyam Perumal	Asst Professor	Civil Engineering	M.E.

Ms.Jabeenaleem	Asst Professor	Civil Engineering	M.E.
Dr.P.Gnanasekar	Professor	Computer Science And Engineering	PhD
Dr.R.Jai Chandran	Professor	Computer Science And Engineering	PhD
Dr.S.Rajaprakash	Professor	Computer Science And Engineering	PhD
Dr.Rupinderpal	Professor	Computer Science And Engineering	PhD
Mr.P.Karthikeyan	Associate Professor	Computer Science And Engineering	M.Tech
Dr.R.Senthilnathan	Associate Professor	Computer Science And Engineering	PhD
Dr.R.Anand	Associate Professor	Computer Science And Engineering	PhD
Dr.P.Thilagavathi	Associate Professor	Computer Science And Engineering	PhD
Mr.P.Sudharsan	Asst Professor	Computer Science And Engineering	MCA
Mr.K.Karthik	Asst Professor	Computer Science And Engineering	M.E.
Ms.P N.Pushpa	Asst Professor	Computer Science And Engineering	M.E.
Mrs.S.Leelavathy	Asst Professor	Computer Science And Engineering	M.E.
Dr.R.Shobana	Asst Professor	Computer Science And Engineering	PhD
Dr.K.Santhashalini	Asst Professor	Computer Science And Engineering	PhD
Mr.T.Sudhan	Asst Professor	Computer Science And Engineering	M.E.
Ms.S.Suganya	Asst Professor	Computer Science And Engineering	M.E.
Ms.J.Priya Dharshini	Asst Professor	Computer Science And Engineering	M.E.
Ms.V.Malathi	Asst Professor	Computer Science And Engineering	M.E.
Ms.R.Saranya	Asst Professor	Computer Science And Engineering	M.E.
Mrs.P.Thara	Asst Professor	Computer Science And Engineering	M.E.
Ms.A.Parameshwari	Asst Professor	Computer Science And Engineering	M.E.
Ms.J.Mary Praveena	Asst Professor	Computer Science And Engineering	M.E.
Dr.Saliha Bathool	Asst Professor	Computer Science And Engineering	PhD
Ms.R.Ragitha	Asst Professor	Computer Science And Engineering	M.E.
Dr.G.Selvakumar	Principal	Electrical And Electronics Engineering	PhD
Dr.L.Chitra	Professor	Electrical And Electronics Engineering	PhD
Dr.K.Boopathy	Professor	Electrical And Electronics Engineering	PhD
Mr.P.Rajasekaran	Associate Professor	Electrical And Electronics Engineering	M.E.
Mr.V.Ramesh	Associate Professor	Electrical And Electronics Engineering	M.E.
Dr.Devabalaji	Associate Professor	Electrical And Electronics Engineering	PhD
Mr.S.Prakash	Asst Professor	Electrical And Electronics Engineering	M.E.
Mr.V.Rattan Kumar	Asst Professor	Electrical And Electronics Engineering	M.Tech
Mrs.P.Poornima	Asst Professor	Electrical And Electronics Engineering	M.E.
Mrs.D.Janani Sri	Asst Professor	Electrical And Electronics Engineering	M.E.
Ms.S.Jensie Anita	Asst Professor	Electrical And Electronics Engineering	M.E.
Mrs.N.Kiruthika Indumathi	Asst Professor	Electrical And Electronics Engineering	M.E.
Mrs.T.Manjula	Asst Professor	Electrical And Electronics Engineering	M.Tech
Dr.K S .Kavitha Kumari	Asst Professor	Electrical And Electronics Engineering	PhD
Mrs.J.Suganthi	Asst Professor	Electrical And Electronics Engineering	M.E.
Mrs.G.Nithya	Asst Professor	Electrical And Electronics Engineering	M.E.
Ms.T.Amudha	Asst Professor	Electrical And Electronics Engineering	M.E.
Ms.Jyoti	Asst Professor	Electrical And Electronics Engineering	M.Tech
Dr.L.Ramya	Asst Professor	Electrical And Electronics Engineering	PhD

Ms.Geethipeethambaran	Asst Professor	Electrical And Electronics Engineering	M.E.
Ms.R.Vanitha	Asst Professor	Electrical And Electronics Engineering	M.E.
Dr.S A V Satya Murty	Professor	Electronics And Communication Engineering	PhD
Dr.L K.Hema	Professor	Electronics And Communication Engineering	PhD
Dr.G.Jijina	Associate Professor	Electronics And Communication Engineering	PhD
Mr.P.Rajkumar	Associate Professor	Electronics And Communication Engineering	M.E.
Dr.Prasath	Associate Professor	Electronics And Communication Engineering	PhD
Dr.R.Mohana Priya	Associate Professor	Electronics And Communication Engineering	PhD
Mr.R.Karthikeyan	Asst Professor	Electronics And Communication Engineering	M.E.
Ms.K.Chitra	Asst Professor	Electronics And Communication Engineering	M.E.
Mr.V.Prabhakaran	Asst Professor	Electronics And Communication Engineering	M.E.
Ms.S.Mythrehi	Asst Professor	Electronics And Communication Engineering	M.Tech
Ms.R.Sandhiya	Asst Professor	Electronics And Communication Engineering	M.E.
Mr.J.Vijay	Asst Professor	Electronics And Communication Engineering	M.Tech
Mr.Rajat Kumar Dwibedi	Asst Professor	Electronics And Communication Engineering	M.Tech
Ms.V.Vanitha	Asst Professor	Electronics And Communication Engineering	M.Tech
Mr.R.Veera Amudhan	Asst Professor	Electronics And Communication Engineering	M.E.
Ms.Shagul Hammeth Nadhiya	Asst Professor	Electronics And Communication Engineering	M.E.
Mr.S.Regilan	Asst Professor	Electronics And Communication Engineering	M.E.
Mr.S K.Sivasubramanian	Asst Professor	Electronics And Communication Engineering	M.E.
Ms.A P.Amrutha	Asst Professor	Electronics And Communication Engineering	M.E.
Dr.A.Keerthika	Asst Professor	Electronics And Communication Engineering	PhD
Mr.V.Yuvaraj	Asst Professor	Electronics And Communication Engineering	M.Tech
Mr.Anjani Bysani	Asst Professor	Electronics And Communication Engineering	M.Tech
Dr.Jennifer G Joseph	Professor	Humanities And Science	PhD
Dr.R N.Viswanath	Professor	Humanities And Science	PhD
Dr.B.Dhanalakshmi	Professor	Humanities And Science	PhD
Dr.M.Murugan	Professor	Humanities And Science	PhD
Dr.L.Tamilselvi	Professor	Humanities And Science	PhD
Dr.R.Nagalakshmi	Professor	Humanities And Science	PhD

Dr.A K .Bhuvaneswari	Associate Professor	Humanities And Science	PhD
Dr.S.Gayathri	Associate Professor	Humanities And Science	PhD
Dr.M.Thamizhsudar	Associate Professor	Humanities And Science	PhD
Dr.G.Suresh	Associate Professor	Humanities And Science	PhD
Dr.S K.Prem Kishor	Associate Professor	Humanities And Science	PhD
Mrs.S.Udhayaganga	Associate Professor	Humanities And Science	M.Phil
Mr.D.Balaji	Asst Professor	Humanities And Science	M.Phil
Dr.Suganya Josephine	Asst Professor	Humanities And Science	PhD
Mrs.T.Charumathy	Asst Professor	Humanities And Science	M.Phil
Mr.S.Kabilan	Asst Professor	Humanities And Science	M.Phil
Ms.K.Sharmila Jane	Asst Professor	Humanities And Science	M.Phil
Ms.R.Snehaa	Asst Professor	Humanities And Science	M.Phil
Ms.S.Akshaya	Asst Professor	Humanities And Science	M.Phil
Dr.L.Prabhu	Professor	Mechanical Engineering	PhD
Dr.M.Prabhahar	Professor	Mechanical Engineering	PhD
Dr.D.Bubesh Kumar	Professor	Mechanical Engineering	PhD
Dr.S.Sangeetha	Professor	Mechanical Engineering	PhD
Mr.N.Lakshminarayanan	Associate Professor	Mechanical Engineering	M.E.
Mr.K.Surendra Babu	Associate Professor	Mechanical Engineering	M.E.
Mr.C.Thiagarajan	Associate Professor	Mechanical Engineering	M.E.
Mr.J.Senthil	Associate Professor	Mechanical Engineering	M.E.
Mr.S.Ashokkumar	Associate Professor	Mechanical Engineering	M.E.
Mr.A.Elanthiraiyan	Associate Professor	Mechanical Engineering	M.E.
Mr.R.Mahesh	Asst Professor	Mechanical Engineering	M.E.
Dr.M.Saravana Kumar	Asst Professor	Mechanical Engineering	PhD
Mr.B.Samuvel Michael	Asst Professor	Mechanical Engineering	M.Tech
Mr.G.Antony Casmir	Asst Professor	Mechanical Engineering	M.Tech
Mr.A.Senthil Kumar	Asst Professor	Mechanical Engineering	M.E.
Mr.P.Kumaran	Asst Professor	Mechanical Engineering	M.E.
Mr.K.Vijayakumar	Asst Professor	Mechanical Engineering	M.Tech
Dr.S.Prakash	Asst Professor	Mechanical Engineering	PhD
Mr.S.Sathiya Raj	Asst Professor	Mechanical Engineering	M.Tech
Mr.S.Kalyana Kumar	Asst Professor	Mechanical Engineering	M.E.
Mr.B.Selva Babu	Asst Professor	Mechanical Engineering	M.Tech
Mr.A.Imthiyas	Asst Professor	Mechanical Engineering	M.E.
Mr.M.Saravanan	Asst Professor	Mechanical Engineering	M.E.
Mr.V.Aravindan	Asst Professor	Mechanical Engineering	M.E.
Mr.V.Srinivasan	Asst Professor	Mechanical Engineering	M.E.
Mr.A.Manojkumar	Asst Professor	Mechanical Engineering	M.E.
Mr.S.Karthick	Asst Professor	Mechanical Engineering	M.E.
Mr.R.Raja Krishnan	Asst Professor	Mechanical Engineering	M.E.
Mr.Kapilthapa	Asst Professor	Mechanical Engineering	M.E.
Mr.M.Vinothkumar	Asst Professor	Mechanical Engineering	M.E.
Mr.V.Praveenkumar	Asst Professor	Mechanical Engineering	M.E.
Mr.J.Karthik	Asst Professor	Mechanical Engineering	M.E.

Adjunct Faculty

S.No.	Name of the Adjunct Faculty	Department
1	Mr.Sadagopan A	ECE
2	Mr.Venkataraman K	ECE/BME
3	Mr.Rajendra Prasad M N	BIOTECH
4	Mrs.Mohanapriya M	BIOTECH
5	Dr.Shivashankar S	EEE
6	Mr.Ponraj K	MECH
7	Mr.Dhanasekaran V	MECH
8	Dr.Srivatsa S K	CSE
9	Mr.Akashm P	EEE
10	Mr.Praveen Kumar	ECE/BME

Professor of Practice

S.No.	Name	Specialisation
1	Mr.Madan Raj P	Mechanical Engineering
2	Mr.A.Syed Mohamed	IT
3	Dr.Anish K Ravi	Management
4	Mr.A.Rajan Babu	Management
5	Mr.Suresh Raman	HR & Management
6	Mr.Sundar Varanasi	IT
7	Dr.Amaladosanbaskar	Mechanical Engineering
8	Mr.Narasimhan Prakash	Mechanical Engineering
9	Mr.Srinivasan R	Electrical Engineering
10	Mr.Vicky P Nagarajan	Electrical Engineering
11	Mr.Selvanathan P	Electrical Engineering
12	Mr.Ranganathan Rangaraj	Electronics and communication Engg -VLSI
13	Mr.Sankar Sundaram	IT, AI&ML
14	Mr.Muthuswamy R	IT, Emerging Area solution provider and Entrepreneur
15	Mr.Thirumoorthy Balasubramanian	IT, Management and Entrepreneur
16	Mr.R. Venkataramana	Mechanical Engineering, Management
17	Mrs.Panchi S	IT- Cyber Security
18	Mr.Vel Pandian S	IT
19	Mr.Vijaykumar C S	IT
20	Mr.Amit Sharma	IT

Permanent Faculty: Student Ratio

1:8

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, 51 Years

Sex : Male

Nationality : Indian

Contact Address : Villa 82, S&P
Signature Villas,
Nedungundram,
Vandalur Tk,
Chennai - 600127.

Mobile No. 08754203355

E-mail ID :
gsk7070@gmail.com

Religion and Community : Hindu, BC

Educational Qualification :



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

Work Experience (Total experience = 28 years)

S.No.	Organization	Designation	Period		Nature of Work
			From	To	

1.	Instrumentation Division, CRTL, Central Power Research Institute , P.B. No. 9401, Bangalore –560094	M.E. Student	01.06.1992	31.12.1992	For M.E. Project Work
2.	Department of Electrical and Electronics Engg., P.S.G. College of Technology , Coimbatore – 641 004, T.N.	Temporary Lecturer	23.06.1993	29.04.1994	Handled Theory and Laboratory Classes and worked as Research Assistant Under Project IMPACT (A world bank project)
			01.06.1994	15.03.1995	
3.	Department of Electrical and Electronics Engg., Institute of Road and Transport Technology (IRTT) , Erode (Quasi Government Institution established by Transport Corporation of Tamilnadu)	Lecturer	16.03.1995	06.07.2006	Handled Theory and Laboratory Classes for UG Engineering Students
4.	Department of Electrical Sciences, V.M.K.V. Engineering College , Salem – 636308. (Vinayaka Missions Research Foundation)	HoD – EEE	07.07.2006	31.05.2008	Administering the Departments of EEE, EIE, ECE, BME and ETE as Dean. Also looking after all affairs pertaining to students
		Dean – Elect. Sciences & Students Affairs	01.06.2008	11.05.2010	
5.	Annapoorana Engineering College , Salem – 636308.	Principal	12.05.2010	11.05.2013	Administering the whole college and teaching EEE subjects
6.	Excel Engineering College , Komarapalayam.	Vice Principal	16.05.2013	31.05.2014	Assisting the Principal in the administration and teaching subjects
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 of Institutions – Ramapuram Campus	Dean – Innovation, Incubation and Entrepreneurship	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 Processing Society
- Member of IEEE Components, Packaging and Manufacturing Technology Society
- Member of IEEE Biometrics Council
- Member of IEEE Council on Electronic Design Automation
- Member of IEEE Nanotechnology Council
- Member of IEEE Sensors Council
- Member of IEEE Systems Council
- Member of IEEE Industrial Electronics Society
- Member of IEEE Robotics and Automation Society
- 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)
- Senior Member of Institute of Research Engineers and Doctors (iRED) of UA CEE (SNM1010001773)
- Life Member of Biomedical Engineering Society of India (BMESI)
- Member of International Association of Engineers (IAENG) (185502)
- Senior Member of International Association of Computer Science and Information Technology (IACSIT)
- Member of International Association of Information Technology Communication 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)
- Member of International Association of Advances in Engineering and Technology (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 Engineering	1 week 04 th to 10 th December, 2018
2.	Recent Trends in Biomedical Instrumentation	PSG College of Technology, Coimbatore	2 weeks 9 th to 22 nd Nov, 2003

3.	Unified Approach for Industrial and Medical Instrumentation.	Kongu Institute of Technology, Perundurai	2 weeks 9 th to 22 nd Nov, 2000
4.	Neural Networks applied to Pattern Recognition	IRTT, Erode	2 weeks 29 th May to 11 th June, 2000
5.	Advanced Digital Signal Processing and its Applications	NSS College of Engineering, Palakad	2 weeks 8 th to 21 st May 2000
6.	Digital Protection of Power Systems	CIT, Coimbatore	2 weeks 15 th to 28 th Nov, 1999
7.	Induction Training Programme	PSG College of Technology and Bharathiar University, Coimbatore	3 weeks 6 th to 26 th Nov, 1995

Faculty Development Programmes attended:

1. Faculty development programme on “**Power System Operation**” organized by IRTT, Erode and sponsored by Anna University, Chennai from 13th – 18th December, 2004.
2. Programme on “**Train the Trainers on Soft Skills**” organized by WIPRO, Chennai and Sponsored by ELCOT and Anna University, Chennai on 06th and 7th March, 2008.
3. ICTACT Bridge 2012 – **A conference on Focus on Entrepreneurship and Incubation**, organized by ICT Academy of Tamil Nadu in association with NASSCO Mat Chennai on 22nd February 2012.
4. Workshop on “**Effective Utilization of NPTEL**” organized by NPTEL Team, IIT Madras at Chennai on 20th September 2013.
5. Participated in the “**National Higher Education Conclave**” organized by Confederation of Indian Industry at Coimbatore on 29th and 30th 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 21st and 22nd August, 2014.
7. Participated in the “**MSME – Make in India Expo**” organized by MSME Development Institute, Chennai, Government of India, at Salem sponsored by Sona College of Technology, Salem on 06th and 07th November, 2015.
8. Participated in Student Entrepreneurship Promotion through Industry – Institute Connect organized by Salem Productivity Council on 18th 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.
10. Participated in the Online International Webinar on “How to be a Successful Entrepreneur?” organized by MSys Technologies, USA on 10th 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 21st July, 2020 and 22nd July, 2020.

Research Experience : 21 years

Areas of Interest : Bio Medical
Instrumentation Bio
Signal Processing
Digital Signal
Processing
Power Electronics
Power Systems
Intelligent
Techniques

Research Area : Wavelet Transform Based Detection of ECG Abnormalities

Awards :

1. Finalist in **The Best Techno Faculty Award 2014** awarded by ICTACT and powered by Syntel, recognizing the spirit of participation and the efforts made to empower the students.
2. Received “**Exceptional Academic Administrator & Researcher Award**” from Journal of Engineering Technological Research, Engineering Today in association with Society of Engineers and Technicians, Kuala Lumpur, Malaysia on 11th & 12th 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. “An Efficient QRS Complex Detection Algorithm using Optimal Wavelet”, Proc. of the 6th 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 8th 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 and Technology, Govt. of India, Caledonian College of Engineering, Sultanate of Oman, BRNS, Department of Atomic Energy, Govt. of India and 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 on Bioinformatics, 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, 29th February & 01st 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. “AnEfficientApproachforVoltageStabilityImprovementbasedonArtificialBeeColony 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 IEEE Xplore)**

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 & Computing Applications (RTC3A’15), organized by Department of ECE, CARE Group of Institutions, Tiruchirapalli, 09th 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, 29th & 30th April, 2015.

16. “Replacement of TTE with handheld device”, Proceedings of the International Conference on Advances in Communication Technology (ICACT) in Multicon’15 organized by Muthayammal Engineering College, Rasipuram, 29th & 30th 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, 29th & 30th 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, 29th & 30th April, 2015.
19. "GPS Tracking System based Traffic Light Controller to assist Ambulances for quick shifting of Patients", proceedings of 3rd International Conference on Engineering, Technology and Science (ICETS'16) organized by Muthayammal Engineering Institutions, Rasipuram, 18th & 19th 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, 13th & 14th 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, 24th 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, 08th & 09th 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, 30th & 31st March, 2018.
24. "Remote Monitoring System Design for Photovoltaic Panels", proceedings of the DST- SERB Sponsored International Conference on Innovations in Science, Engineering and Technology for Sustainable Development organized by Muthayammal Engineering College, Rasipuram, 30th & 31st 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 of Engineers (India), 07th & 08th 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), 07th& 08th March,2019.
27. “Prevention of Mobile Phone usage while Driving”, proceedings of the 7th
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,
15th March,2019.

National	Internation al	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 Engineering and Technology (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 Research Journal (ISRJ), ISSN: 2230-7850, Vol. 3, Issue 8, September 2013, 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. Chritober Asir Rajan, “Design and Simulation of Neuro-Fuzzy Controller for Power Factor Correction of Three Phase Diode Rectifier using Shunt 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, “EP based PSO method for solving 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 Algorithm Based on Differential Evolution Approach for Voltage Stability Improvement”, International Journal of Computer Applications (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 Approach for 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 of Science and Applied Information Technology (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)**
 18. E.Baraneetharan, G.Selvakumar, “Direct Torque and Flux Control of Induction Motor using Intelligent Technique”, International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), ISSN: 2320-9798, Vol. 3, Special Issue 2, March 2015, pp. 94 – 103.
 19. K.Venkatesan, G.Selvakumar, C.Chritober Asir Rajan, “EP based PSO method for solving Profit based Multi Area Unit Commitment Problem”, Journal of Engineering, Science and Technology (JESTEC), School of Engineering, Taylor’s University, Malaysia, ISSN: 1823 – 4690, Vol. 10, Issue 4, April, 2015, pp. 442 – 460. **(Indexed by SCOPUS) (Listed in Annexure – II of Anna University, Chennai list of journals, S.No.: 10187) (H Index: 6)**
 20. E.Baraneetharan, G.Selvakumar, “Implementation of GSM based Automatic Change over System for Electric Generators”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), ISSN: 2347 – 6710, Vol. 4, Special Issue 6, May 2015, pp. 1399 –1403.

21. T.Kokilavani, G.Selvakumar, “Integrating Wind Energy Source with Distribution Grid with Reduced Harmonics”, International Journal of Applied Engineering Research, ResearchIndiaPublications(RIP),ISSN:0973-4562,Vol.10,No.92,2015,pp.485–490.(Indexed by SCOPUS) (Listed in Annexure – II of Anna University, Chennai list of journals, S. No.: 8565) (H Index: 3)
22. T.Kokilavani, G.Selvakumar, “Power Quality Analysis and Enhancement of Grid Connected Solar Energy Systems”, Circuits and Systems (CS), ISSN Print: 2153-1285, July 2016, pp. 1954-1961. **(Listed in Annexure – I of Anna University, Chennai list of journals)**
23. R.Kabilan, G.Selvakumar, “Real Time Implementation of Neuro-Adaptive Fuzzy InferencesSystemforAutomaticConditionMonitoringandSpeedControlofIM”, Journal of Computational and Theoretical Nanoscience, American Scientific Publishers, ISSN Print: 1546-1955, Vol. 13, No.12, 2016, pp. 1 – 8. **(Listed in Annexure – I of Anna University, Chennai list of journals, S. No.:5890)**
24. E.Baraneetharan, G.Selvakumar, “MPPT based ZVS Resonant Converter for Grid Connected System with SOS Optimization Algorithm”, Journal of Advanced Research in Dynamical and Control Systems, ISSN Print: 1943-023X, Published by Institute of Advanced Scientific Research, USA, Vol. 01, Special Issue, April 2017, pp. 79 – 87. **(Listed in Annexure – II of Anna University, Chennai list of journals, S. No.:10099)**
25. S.Saravanan, G.Selvakumar, C.Amarnath, S.Udayabaskaran, S.Manikandan, “CAD for demarcation of malignant and benign nodules in CT lung images of spiculated nodules”, International Journal of Biomedical Engineering and Technology, ISSN print:1752-6418, Inderscience Publishers, Vol. 24, No. 1, 2017, pp. 33 – 52. **(Listed in Annexure – I of Anna University, Chennai list of journals, S. No.:4858)**
26. R.Kabilan, G.Selvakumar, “Real Time Implementation of Dyadic Transform Algorithm for Automatic Condition Monitoring and Speed Control of IM”, International Journal of Electrical Engineering, ISSN: 0974-2158, International Research Publication House, Vol. 10, No. 1 (2017), pp. 121 – 136.
27. S.Saravanan, G.Selvakumar, C.Amarnath, S.Manikandan, “Boundary Optimization of Ground Glass Opacity in CT Images of Lung Cancer”, ARPN Journal of Engineering and Applied Sciences, ISSN: 1818-6608, Asian Research Publishing Network (ARPN), Vol. 12, No. 17, September 2017, pp. 5058 –5072.
28. E.Baraneetharan,G.Selvakumar,“SmartInternetofThings(IOT)SystemforPerfor

mance Improvement of Dual Bridge LLC Resonant Converter by Using Sophisticated Distribution Control Method (SDC)”, Wireless Personal Communications, Springer International Publishing, ISSN: 0929-6212, Vol. 103, Issue 2, February 2018, pp. 1305 – 1323. **(Indexed by Thomas Reuters)** **(Listed in Annexure – I of Anna University, Chennai list of journals, S. No.:10998)**

29. R.Kabilan, G.Selvakumar, “Automatic Speed Control of Motor via WAD Technique for Prevention of Faults in Motor”, International Journal of Power Electronics and Drive System (IJPEDS), ISSN: 2088-8694, Vol. 9, No. 2, June 2018, pp. 519–526 **(Indexed by SCOPUS)**.

30. M.Jagadeeshwari, G.Selvakumar, “An Efficient Attendance Management system based on Face Recognition using MATLAB and Raspberry Pi 3”, International Journal of Research in Electronics, ISSN: 2349 – 252X, Vol. 5, Issue 2, 2018, pp. 31 – 34.

31. S.Saravanan, G.Selvakumar, C.Amarnath, S.Manikandan, “Precise Classification of calcified nodule as Malignant and Benign using Variogram and Statistical Parameters”, International Journal of Tomography and Simulation, ISSN: 2319 – 3336, Vol. 32, No. 2, 2019, pp. 102 – 128.

32. K.Nithya, M.Udhayavani, G.Selvakumar, S.Aruna Devi, “VANET Connection Performance Analysis using GPSR Protocol”, International Research Journal of Engineering and Technology (IRJET), ISSN: 2395 – 0072, Vol. 6, Issue 3, March, 2019, pp. 5388 – 5391.

(H Index source: <http://www.scimagojr.com> powered by Scopus)

Anna University Annexure – I	Anna University Annexure – II	Others	Total
06	08	18	32

Google Scholar Indexed			Scopus Indexed			Web of Science Indexed		
No. of Papers Indexed	Citations	H - Index	No. of Papers Indexed	Citations	H - Index	No. of Papers Indexed	Citations	H - Index
37	122	06	12	34	03	03	06	02

Citations:

My research works were cited in the following papers:

1. Sergio Renato Rogal Jr., Emerson Cabrera Paraiso et.al., “Automatic Detection of

Cardiac Arrhythmias Using Self-Organizing Artificial Neural Networks”, Proceedings of XXXIV Latin American Conference of Informatics (CLEI 2008), 2008, pp.1090-1099.

2. R.D.Raut,S.V.Dudul,“ArrhythmiasClassificationwithMLPNeuralNetworkand Statistical Analysis”, Proceedings of 1st IEEE International Conference on Emerging Trends in Engineering and Technology, IEEE Computer Society, July 2008, pp.553-558.S.Sumathi, M.Y.Sanavullah, “A Novel Algorithm for Quick QRS Complex Detection in ECG Based on Discrete Wavelet Transform”, CiiT International Journal of Digital Image Processing, Vol 1, No 2, May 2009, pp. 73-77.
3. S.Sumathi, M.Y.Sanavullah, “Comparative Study of QRS Complex Detection in ECG Based on Discrete Wavelet Transform”, International Journal of Recent Trends in Engineering, Vol. 2, No. 5, November 2009, pp. 273 –277.
4. R.Vanithamani, R.S.D. Whahidabanu, “A Quick Algorithm for QRS Noise Detection in ECG Based On Discrete Wavelet Transform”, CiiT International Journal of Programmable Device Circuits and Systems, Vol. 1, No. 8, November 2009, pp. 233 –240.
5. Lai Khin Wee, Yeo Kee Jiar and Eko Supriyanto, “Electrocardiogram Data Capturing System and Computerized Digitization using Image Processing Techniques”, International Journal of Biology and Biomedical Engineering (ISSN: 1998-4510), Issue 3, Volume 3, 2009, pp. 27 – 34.
6. S.Sumathi, M.Y.Sanavullah, “A New Technique of ECG Feature Extraction and Classification by Wavelet Transform and ANFIS”, International Journal of Computational Intelligence Research, ISSN 0973-1873 Volume 6, Number 1 February 2010, pp.153–163.
7. Shivajirao M. Jadhav, Sanjay L. Nalbalwar and Ashok A. Ghatol, “Artificial Neural Network based Cardiac Arrhythmia Classification using ECG Signal Data”, Proceedings of the 2010 International Conference on Electronics and Information Engineering (ICEIE), Kyoto, Japan, ISBN: 978-1-4244-7679-4, Volume1,August1-3,2010,pp.228–231(SponsoredbyIEEEandIACSITand published in IEEEExplore).
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85. Uttam R, Supreeth Arabi, Aatman Mantri and Surabhi Rakhecha, "Evaluation of Performance of Cloud

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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 Osmania University, 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.

Research Guidance:

Programme	Ongoing	Degree Awarded
Ph.D.	2	08

Research Projects:

S.No.	Major/Minor	Funding agency	Sanctioned Amount	Ongoing/ Completed
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1.	Travel Grant for attending International Conference in Bangkok, Thailand, on 25.12.2011 & 26.12.2011	DST, Govt. of India	24,300.00	Completed
2.	To setup Business Incubator at Muthayammal Engineering College	MSME, Govt. of India	65,00,000.00 per year for 5 years	Got Approval for the establishment of Business Incubator
3.	Robot To Rescue The Lives Trapped In The Bore Wells	Texas Instruments	1,00,000.00	Completed
4.	Technology Business Incubator (TBI)	DST – NIDHI, Govt. of India	Expected Funding: Rs.28 Crores	Applied
5.	To setup New Gen Innovation and Entrepreneurship Development Centre (NewGen IEDC) at Muthayammal Engineering College	DST - NSTEDB, Govt. of India	Expected Funding: Rs.2.6 Crores	Applied
6.	Entrepreneurship Awareness Camps – 3 Nos.	DST – NIMAT	Rs.60,000	Completed
7.	Women Entrepreneurship Development Program (WEDP) – 2 Nos.	DST – NIMAT	Rs.2,00,000	Ongoing
8.	Technology Based Entrepreneurship Development Program (TEDP)	DST – NIMAT	Rs.1,60,000	Ongoing

University Assignments:

1. Member of Vigilance Squad for Anna University, Chennai UG/PG Practical Examinations.
2. Question paper setter for Anna University, GCT, Coimbatore, Pondicherry 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 laboratory examinations.

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. Member of International Scientific Committee for the 2016 International Conference on Informatics, Management Engineering and Industrial Application (IMEIA 2016), 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 4th 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. Member of Technical Committee for the 2015 6th International Conference on Advances in 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. Member of Technical Committee for the 2015 3rd International Conference on Economics, Machinery, Materials and Information Technology Applications (ICMMITA 2015), Qingdao, Shandong, China, November 28 – 29, 2015.
14. Member of Technical Program Committee for the 2015 2nd 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 (ICEMEET 2015), Chongqing, China, November 28 – 29, 2015.

16. Member of Technical Program Committee for the 2015 5th International Conference on Electronics Technology and Computer Applications (ICETCA 2015), Chongqing, China, November 28 – 29, 2015.
17. Member of Program Committee for the 2015 6th 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 4th International Conference on Sustainable Construction Materials and Computer Engineering (SCMCE 2015), 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 2nd 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 2nd 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 Internet of Things and Information Technology (ICITIT 2015), 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 2nd 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 (NetComCS 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 2nd 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 3rd 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 3rd International Conference on Mechanical Intelligence and Automatic Control (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. Member of Technical Program Committee for 2014 5th International Conference on Power Electronics, Drives and Energy Systems (ICPDE 2014), Shenzhen, China, December 27–28, 2014.

39. Member of Program Committee for 2014 4th International Conference on Mechanical Engineering and Green Manufacturing (MEGM 2014), Shenzhen, China, December 27–28, 2014.

40. Member of Technical Program Committee for 2014 3rd International Conference on Material Engineering and Mechanical Engineering (MEME 2014), Ottawa, Canada, December 20 – 21,2014.

41. Member of Technical Program Committee for 2014 2th International Conference on Engineering Materials (ICEM 2014), Sanya, Hainan, China, November 22 – 23,2014.

42. Member of Technical Program Committee for 2014 2th 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 3rd 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 3rd International Conference on Electrical Technology and Civil Engineering (ETCE2014), Taiyuan, China, November 08 – 09, 2014.

45. Member of Technical Program Committee for 2014 7th International Conference on Automation, Robotics and Applications (ICARA 2014), Taiyuan, China, November 08 – 09, 2014.

46. Member of Organizing Committee for 2014 International Conference on Material Science, 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. Member of Organizing Committee for 2014 International Conference on Agriculture, Food and Mechanical Engineering (ICAFME 2014), Changsha, Hunan, October 25 – 26, 2014.

51. Member of Technical Program Committee for 2014 International Conference on Mechatronics Engineering and Modern Technologies in Industrial Engineering (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, Energy and Applied Biotechnology (ICEEAB 2014), Shijiazhuang, Hebei, China, October 11 – 12, 2014.

55. Member of Technical Program Committee for 2014 3rd 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 2nd International Conference on Networking, Communication and Computer Science (NetComCS 2014), Guilin, China, September 13 – 14, 2014.

58. Member of Technical Committee for 2014 International Conference on Materials Science, 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 3rd 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 3rd International Conference on Intelligent System and Applied Materials (GSAM 2014), Taiyuan, China, December 18 – 19, 2013.
65. Member of Technical Program Committee for 2013 3rd International Conference on Electrical, Electronics and Computer Engineering (NCEECE 2013), Taiyuan, China, December 28 – 29, 2013.
66. Member of Technical Program Committee for 2013 3rd International Conference on Electrical Engineering and Informatics (ELEEI 2013), 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 4th 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 Approaches for Green Computing, Economy and Environment (SAGCEE–2013), Salem, Tamilnadu, India, December 9 – 11, 2013 (organized by VMKV Engineering College, Salem).
70. Member of Technical Program Committee for the 3rd 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 3rd International Conference on Materials Science and Information Technology (MSIT 2013), Nanjing, Jiangsu, China, June 08-09, 2013.
73. Member of Technical Committee for the 2013 International Conference on Education Technology and Management Science (ICETMS 2013), Nanjing, Jiangsu, China, June 08- 09, 2013.
74. Member of Technical Committee for the 2013 3rd International Conference on Precision Mechanical Instruments and Measurement Technology (ICPMIMT 2013), Zhengzhou Henan, China, May 25 – 26, 2013.
75. Member of Technical Committee for the 2013 3rd International Symposium on Information Technology (ITSim 2013), Zhengzhou Henan, China, May 25 – 26, 2013.
76. Conference Steering Chair for 2013 3rd International Conference on Information and Network Technology (ICINT 2013), Singapore, April 01 – 02, 2013.
77. Member of Technical Program Committee for 2013 2nd International Conference on Computer Science and Electronics Engineering (ICCSEE 2013), 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 2nd 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 Information Technology and Computer Science (CITCS 2012), China, November 16–18, 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. Conference Steering Chair for 2012 International Conference on Information and Network 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. Member of Program Committee for 2011 13th International Conference on Information, 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. Member of Technical Committee for 2011 7th International Conference on MEMS, 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 2nd 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 2nd 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 3rd International Conference on Software Technology and Engineering (ICSTE 2011), Kuala Lumpur, Malaysia, August 12 – 14,2011.
105. Session Chair for 2nd 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.
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 Telecommunication Technology and Applications (ICTTA 2011), Sydney, Australia, May 13 & 14,2011.
109. Program Committee Chair for 2011 International Conference on Computer Communication and Management (ICCCM 2011), Sydney, Australia, May 13 & 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. PublicityChairfor2011the3rdInternationalConferenceonMachineLearning and Computing (ICMLC 2011), Singapore, February 26 - 28, 2011.
118. Program Committee Chair for 2010 the 3rd 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 2nd 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 2nd International Conference on Environmental and Computer Science (ICECS 2009), Dubai, UAE, December 28 – 30,2009.
126. MemberoftheTechnicalReviewCommitteeoftheIEEEBangaloreSection-18th Annual Symposium on Emerging Needs in Computing, Communication, Signals and Power - ENCCSP 2009, Bangalore, 29th 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 3rd 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, 10th WSEAS International Conference on

Automation and Information (ICAI '09), Prague, Czech Republic, March 23-25, 2009. Member of Scientific Committee, 10th WSEAS International Conference on Mathematics & Computers in Biology & Chemistry (MCBC'09), Prague, Czech Republic, 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. Member of Review Committee for the International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) organized by Priyadarshini Engineering College, Chettiyappanur, Vaniyambadi - 635751, Vellore District, Tamil Nadu, January 28th & 29th, 2018.
2. Reviewer for the 2017 2nd IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT2017) organized by SVS College of Engineering, 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 journals.
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 (EJEGR)
8. Editorial Board Member and Reviewer for the International Organization of Scientific Research and Development (IOSRD)
9. Reviewer for International Journal of Artificial Intelligence and Soft Computing (IJASIS), Inderscience Publishers.
10. Editor and Reviewer for International Journal of Engineering and Technology (IJET).
11. Reviewer for International Journal of Information, Intelligence and Knowledge (IJIK).
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 Communication Technologies (ICECCT2015) organized by SVS College of Engineering, Coimbatore and

Sponsored by IEEE and IEEE Madras Section, March 05 – 07,2015.

17. Member of Innovation Identification Panel for Engineering Students Innovation Challenge 2014 (ESIC 2014) organized by International Society for Scientific Research and Development (ISSRD)
18. Reviewer for 2nd 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 4th International Conference on Computer Science and Information 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. Reviewer for 2nd National Conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies (NCVESCOM'10), Chennai, India, March, 2010.
21. Reviewer in the 2nd 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. Reviewer in the International Conference on Advanced Computer Theory and Engineering (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 of 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 th and 14 th April, 2018 at Pattaya, Thailand

Invited Lectures:

S. No.	Area of Lecture	Institution / Organization where lecture was delivered	Period
2005 – 2006			
1.	Goal Setting	Lions Club of Erode West, Erode	15.08.2005
2006 – 2007			
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 Engineering 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 – 2008			
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

		Pondicherry 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 – 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 rd One Day National Conference on Future of Electrical & Instrumentation Technology, Vivekanandha College of Engineering for Women, Tiruchengode.	09.04.2009
2009 – 2010			
15.	Medical Imaging	MIT, Anna University, Chromepet	12.02.2010
2010 – 2011			
16.	DSP Applications to Modern Industrial Drives	National Level Workshop on Modern Drives in Industrial Applications, Department of EEE, Bannariamman Institute of Technology, Sathy	14.09.2010 & 15.09.2010
17.	Goal Setting	Vinayaka IAS Academy, Salem	20.03.2011
18.	Hybrid Renewable Energy Systems	2 nd International Conference on Sustainable Energy and Intelligent Systems (SEISCON 2011), IET Chennai and Dr.M.G.R. University, Chennai	21.07.2011

2013 – 2014			
19.	Alternate Energy	International Conference on Sustainable Approaches for Green Computing, Economy and Environment (SAGCEE'13), V.M.K.V. Engineering College, Salem	09.12.2013
20.	Intelligent Techniques for the improvement of Power Quality	National Conference on Computational Intelligence in Electrical and Electronics Engineering (NCIEE E), Sathyabama University, Chennai	06.02.2014
21.	Recent Advancements and Challenges in Electrical Science	4 th National Conference on Recent Advancements and Challenges in Electrical Science, Department of EEE, IRTT, Erode	27.02.2014
2014 – 2015			
22.	Digital Signal Processing from an Electrical Engineering Perspective	5 th National Conference on Recent Trends in Electrical Sciences, IRTT, Erode	26.02.2015
23.	Optimization Techniques in Electrical Engineering using MATLAB	National Workshop on Optimization Techniques in Engineering using MATLAB, Sathyabama University, Chennai	05.03.2015
24.	1. Electrical Engineers and Green Energy 2. Between you and Success	Technical Talk & Motivational Talk, SCAD Institute of Technology, Palladam	28.03.2015
25.	Engineers and Innovations	Second International Conference on Trends in Technology for Convergence (TITCON'15), AVS Engineering College, Salem	10.04.2015
2015 – 2016			
26.	Recent Trends in Biomedical Signal Processing Techniques	National Level Students Technical Meet "Vision2020". Excel Engineering College, Komarapalayam	25.07.2015

27.	1. Higher Education Opportunities for Polytechnic Students 2. SmartTeaching	Orientation Lecture, Excel Polytechnic Colleg e, Komarapalayam	23.09.2015
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Programmes organized:

S. No.	Nature of Programme	Title of Programme	Capacity	Institution	Period
2006 – 2007					
1.	Faculty Development Programme	Instructional Design and Delivery	Coordinator	VMKV Engg College	04.09.2006 to 06.09.2006
2007 – 2008					
2.	Orientation Programme for 1 st year BE Students	Orientation Programme	Coordinator	VMKV Engg College	25.09.2007 to 28.09.2007
3.	Science Exhibition	Science Expo'08	Co-convenor	VMKV Engg College	08.02.2008 to 11.02.2008
4.	Faculty Development Programme	Instructional Design and Delivery	Coordinator	VMKV Engg College	12.11.2007 to 14.11.2007
2008- 2009					
5.	National Conference	Problems and Perspectives in Power Sector	Co-convenor	VMKV Engg College	06.09.2008
6.	National Conference	Recent Trends in Virtual Instrumentation	Co-convenor	VMKV Engg College	25.09.2008
7.	Orientation Programme for 1 st year BE Students	Orientation Programme	Coordinator	VMKV Engg College	04.11.2008 to 07.11.2008
8.	Refresher Course for Technicians	Creating 'SMARTT' Technicians	Co-convenor	VMKV Engg College	14.11.2008 & 15.11.2008
9.	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 Development	Coordinator	Salem School of Architecture	03.12.2008 to 05.12.2008
11.	Interdepartmental Interdisciplinary Technical Paper Contest	Recent Trends in Engineering	Co-convenor	VMKV Engg College	17.12.2008

12.	Workshop	LabVIEW Applications &	Co-convener	VMKV Engg College	29.01.2009
13.	Interdepartmental Interdisciplinary Hardware Exhibition	Recent Trends in Engineering	Co-convener	VMKV Engg College	30.01.2009
14.	National Level Students Technical Symposium	TECHSPICE'09	Co-convener	VMKV Engg College	19.03.2009
15.	National Conference	Convergent Communication Technologies	Co-convener	VMKV Engg College	17.04.2009
2009 – 2010					
16.	National Conference	Biomedical Informatics	Co-convener	VMKV Engg College	10.09.2009 & 11.09.2009
17.	National Workshop	MATLAB and its Applications in Science & Technology	Member of Advisory Committee	VMKV Engg. College, ICT Academy of Tamilnadu & HP	08.10.2009 to 10.10.2009
18.	ISTE Convention	12 th ISTE Annual Convention of Tamilnadu & Pondicherry Section	Member of Organizing Committee	VMKV Engg College	26.11.2009 & 27.11.2009
19.	Graduation Day	Graduation Day 2009	Member of Organizing Committee	VMKV Engg College	29.11.2009
20.	Workshop	Hands-on Training on Lab View	Convener	VMKV Engg College	11.12.2009 & 12.12.2009
21.	National Conference	Computational Applications in Chemistry	Member of Advisory Committee	VMKV Engg College	04.02.2010 & 05.02.2010
22.	National Conference	2 nd National Conference on Convergence Communication Technologies	Convener	VMKV Engg College	14.05.2010 & 15.05.2010
2010 – 2011					
23.	Faculty Development Programme	Instructional Design and Delivery	Coordinator	Annapoorana Engg College	30.08.2010 & 31.08.2010

24.	Orientation Programme for 1 st year BE Students	Orientation Programme	Coordinator	Annapoorana Engg College	13.09.2010 & 14.09.2010
25.	Faculty Development Programme	Instructional Design and Delivery	Coordinator	Glaze Brooke Matriculation Hr. 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 Engineering colleges.
3. Handled Personality Development Programmes in various Engineering Colleges.
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 qualities of the students and also to make the students to extend service to the community.
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

- 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

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 23-24:

Level of course	Name of the Course	Total Students	Approved Intake	General Male	General Female	OBC Male	OBC Female	SC Male	SC Female	ST Male	ST Female
UG	BIOTECHNOLOGY	21	30	2	6	4	5	1	3	0	0
UG	CIVIL ENGINEERING	21	90			17		3	0	0	0
UG	COMPUTER SCIENCE AND ENGINEERING	92	180	23	9	45	10	2	0	0	0
UG	ELECTRONICS AND COMMUNICATION ENGINEERING	50	60	10	0	28	10	0	0	0	1
UG	ELECTRICAL AND ELECTRONICS ENGINEERING	68	90	3	1	50	2	6	1	1	0
UG	MECHANICAL ENGINEERING	156	180	4	0	137	0	1	0	0	0
UG	BIOMEDICAL ENGINEERING	8	60	1	1	3	1	1	1	0	0
UG	COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)	29	90	3	1	23	1	0	0	0	0
UG	PHARMACEUTICAL ENGINEERING	4	30	0	0	1	0	1	2	0	0
UG	COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	98	120	30	9	46	5	6	1	0	0
UG	COMPUTER SCIENCE AND DESIGN	0	30	0	0	0	0	0	0	0	0
PG	MANUFACTURING ENGINEERING	2	18	1	0	1	0	0	0	0	0
PG	POWER SYSTEMS ENGINEERING	0	18	0	0	0	0	0	0	0	0
PG	COMPUTER SCIENCE AND ENGINEERING	5	18	0	0	5	0	0	0	0	0
PG	EMBEDDED SYSTEMS	3	18	0	0	1	2	0	0	0	0

	TECHNOLOGIES										
PG	BIOTECHNOLOGY	1	18	0	0	1	0	0	0	0	0
PG	CONSTRUCTION ENGINEERING AND MANAGEMENT	5	18	0	0	4	1	0	0	0	0
PG	MBA	53	60	3	2	24	19	3	2	0	0
Total				80	29	39	56	3	4	10	1

Academic Year 22-23:

Level of course	Name of the Course	Total Students	Approved Intake	General Male	General Female	OB C Male	OB C Female	SC C Male	SC C Female	ST C Male	ST C Female
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
UG	COMPUTER SCIENCE AND ENGINEERING	156	180	40	1	79	7	1	0	0	0
UG	ELECTRONICS AND COMMUNICATION ENGINEERING	49	60	9	1	30	3	2	0	0	0
UG	ELECTRICAL AND ELECTRONICS ENGINEERING	75	90	5	0	60	0	5	0	0	0
UG	MECHANICAL ENGINEERING	171	180	8	0	125	2	2	4	0	0
UG	BIOMEDICAL ENGINEERING	21	60	2	2	8	5	3	0	0	0
UG	COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)	32	60	4	0	19	4	2	1	0	0
UG	PHARMACEUTICAL ENGINEERING	5	30	0	0	3	1	1	0	0	0
UG	COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	38	60	14	1	20	1	2	0	0	0
UG	COMPUTER SCIENCE AND ENGINEERING (INTERNET OF THINGS AND CYBER SECURITY INCLUDING BLOCK CHAIN TECHNOLOGY)	1	60	0	0	1	0	0	0	0	0
UG	COMPUTER SCIENCE AND DESIGN	0	60	0	0	0	0	0	0	0	0
PG	MANUFACTURING ENGINEERING	6	36	0	0	5	0	1	0	0	0
PG	POWER SYSTEMS	4	36	0	0	3	0	1	0	0	0

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

Academic year 21-22:

Level of course	Name of the Course	Total Students	Approved Intake	General Male	General Female	OBC Male	OBC Female	SC Male	SC Female	ST Male	ST Female
UG	BIOTECHNOLOGY	15	30	2	0	5	5	3	0	0	0
UG	CIVIL ENGINEERING	29	120	3	0	1 7	2	2	0	5	0
UG	COMPUTER SCIENCE AND ENGINEERING	78	180	23	4	4 0	5	5	0	1	0
UG	ELECTRONICS & COMMUNICATION ENGINEERING	25	90	0	0	2 0	1	4	0	0	0
UG	ELECTRICAL AND ELECTRONICS ENGINEERING	60	120	4	45	5	0	5	0	1	0
UG	MECHANICAL ENGINEERING	175	180	19	0	1 3 8	0	1 7	0	1	0
UG	BIOMEDICAL ENGINEERING	26	60	4	0	1 5	5	1	1	0	0
UG	MECHATRONICS	1	30	0	0	1	0	0	0	0	0
UG	COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)	27	60	1	1	2 1	1	2	1	0	0

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 ENGINEERING 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

11. Admission Procedures

VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM

ADMISSION PROCEDURES

Admission to BE / B.Tech / ME / M.Tech & MBA Degree Programmes:

The admissions will be made for the above Programmes in BE/B.Tech / ME / M.Tech & MBA Degree Programmes on the basis of marks obtained in the qualifying examinations and merit based Counseling conducted by the Admission Monitoring Committee (AMC) of VMRF-DU and the eligibility criteria as prescribed by the Concerned Apex Council/VMRF-DU regulations from time to time.

TENTATIVE COUNSELING SCHEDULE FOR THE ACADEMIC YEAR 2023-24

NAME OF THE FACULTY	Engineering & Technology
COURSE	BE / B.Tech. (Full time)
NAME OF THE COLLEGE	Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.

Advertisement in leading News paper	05.04.2023
Registration for Round 1 counseling	11.04.2023 to 03.06.2023
Declaration of Merit List	05.06.2023
Date of Round 1 Counseling	09.06.2023 to 14.06.2023
Last date for joining the course	31.07.2023
Registration for Round 2 counseling	01.08.2023 to 16.08.2023
Declaration of Merit List	18.08.2023
Date of Counseling	22.08.2023
Last date for joining the course (candidates those who are selected through round 2 counseling).	31.08.2023
Registration for Round 3 counseling (If required)	01.09.2023 to 06.09.2023
Declaration of Merit List	07.09.2023
Date of Counseling	09.09.2023
Last date of joining the course (candidates those who are selected through round 3 counseling)	15.09.2023
Cut-off date for admission of the course	15.09.2023
Date of commencement of Academic session	2 nd Week of September 2023
Verification & Registration of original certificates in the University	2 nd Week of October 2023

NAME OF THE FACULTY	Engineering & Technology
COURSE	ME / M.Tech. (Full time)
NAME OF THE COLLEGE	Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.

Advertisement in leading News paper	05.04.2023
Registration for Round 1 counseling	11.04.2023 to 20.06.2023
Declaration of Merit List	21.06.2023
Date of Round 1 Counseling	24.06.2023 to 28.06.2023
Last date for joining the course	31.07.2023
Registration for Round 2 counseling	01.08.2023 to 26.08.2023
Declaration of Merit List	31.08.2023
Date of Counseling	02.09.2023
Last date for joining the course (candidates those who are selected through round 2 counseling).	15.09.2023
Cut-off date for admission of the course	15.09.2023
Date of commencement of Academic session	2 nd Week of September 2023
Verification & Registration of original certificates in the University	2 nd Week of October 2023

TENTATIVE COUNSELING SCHEDULE FOR THE ACADEMIC YEAR 2023-24

NAME OF THE FACULTY	Management
COURSE	MBA
NAME OF THE COLLEGE	Aarupadai Veedu Institute of Technology, Paiyanoor, Chengalpattu Dist.

Advertisement in leading News paper	05.04.2023
Registration for Round 1 counseling	11.04.2023 to 20.06.2023
Declaration of Merit List	21.06.2023
Date of Round 1 Counseling	24.06.2023 to 27.06.2023
Last date for joining the course	31.07.2023
Registration for Round 2 counseling	01.08.2023 to 26.08.2023
Declaration of Merit List	31.08.2023
Date of Counseling	02.09.2023
Last date for joining the course (candidates those who are selected through round 2 counseling).	15.09.2023
Cut-off date for admission of the course	15.09.2023
Date of commencement of Academic session	2 nd Week of September 2023
Verification & Registration of original certificates in the University	2 nd Week of October 2023

12. Criteria and Weightages for Admission

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

S.No.	Programme (BE / BTECH)	Duration	Eligibility
1	Biomedical Engineering, Pharmaceutical Engineering, Biotechnology	4 years	<p>Passed 10+2 examination with Physics, Chemistry and Select any one from Biology / Biotechnology / Mathematics. Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the above subjects taken together.</p> <p>Or</p> <p>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.</p>
2	Computer Science and Engineering, Computer Science and Engineering (Artificial Intelligence and Machine Learning), Computer Science and Engineering (Cyber Security), Electrical & Electronics Engineering, Electronics & Communication Engineering, Computer Science and Design		<p>Passed 10+2 examination with Physics, Mathematics and Select any one from Chemistry / Computer Science / Electronics / Information Technology / Biology / Informatics Practices / Biotechnology / Technical Vocational Subject / Agriculture / Engineering Graphics / Business Studies / Entrepreneurship. Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the above subjects taken together.</p> <p>Or</p> <p>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.</p>
3	Civil Engineering, Mechanical Engineering		<p>Physics, Chemistry and Mathematics</p> <p>Or</p> <p>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.</p>
4	Lateral Entry	3 Years	<p>a) Passed Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category) in ANY branch of Engineering and Technology.</p> <p>or</p> <p>b) Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% marks in case of candidates belonging to reserved category) and passed 10+2 examination with</p>

			<p>Mathematics as a subject.</p> <p>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</p> <p>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.</p> <p>e) Passed D.Voc. Stream in the same or allied sector.</p> <p>f) In the above cases, a suitable bridge Courses, if required such as in Mathematics may be conducted.</p>
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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 experience in a registered Firm/ Company/ Industry/ Educational and/ Government, Autonomous Organizations in the relevant field in which admission is sought.	
Computer Science and Engineering / Electronics and Communication Engineering / Electrical and Electronics Engineering	Electrical and Electronics / Electronics and Communication / Electronics and Instrumentation / Electronics Engineering (Instrumentation) / Computer Technology / Instrument 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	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) / Foundry 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 (Sandwich) / Electronics (Robotics) (Sandwich)

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

Course in ME/ M.TECH.	Qualifying Degree
Eligibility : Passed Bachelor's Degree or equivalent in the relevant field. & Obtained at least 50% marks (45% marks in 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.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.

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.

MBA - Duration: 2 years

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 2023-2024

Sl.No	Name of The Programme	Sanctioned Intake	Number Eligible Applications Received	of No. of Students admitted
1	BE/B.Tech	960	1482	533
2	ME/ M.Tech/MBA	168	279	69
TOTAL		1128	1761	602

14. Resultsof Admission Under Management seats:NA

15.Information of infrastructure and other resource available

Number of classrooms and size of each : 34 & 66 sq. m. to 109.4 sq. m.

Number of Tutorial rooms and size of each : 9 & Size ranging from 44 sq.m to 76.6 sq. m.

Number of Laboratories and size of each : 49 & 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: 2 & 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**
Boys- 710

Separate Dining facility for boys and girls

Separate Gym facility for boys and girls

PORTS INFRASTRUCTURE

S. No.	Particulars	Nos.
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

LIBRARY FACILITIES

Number of Books/Titles/Journals available

	Quantity
Text Books	37104
Reference Books	4984
e-Books	88959
Journals	155
e-Journals	58551
Digital Database	MEDLINE and other databases of NLM;Cambridge Dictionary Online (through DELNET)
CD & Video	1541
Library automation	Koha with RFID
Weeding (Hard & Soft)	5184
Others (specify)	E- Resources IEEE, ASME, ASCE, Delnet, Refread (Remote Access) , MHRD 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

National Digital Library (NDL) subscription details: Registered

LABORATORY
VINAYAKA MISSIONS RESEARCH FOUNDATION
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF BIOMEDICAL ENGINEERING
PATHOLOGY & 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-Spectrophotometer
14.	FluorescentMicroscope

**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 SIGNAL PROCESSING-LIST OF EQUIPMENTS
FOR UG STUDENTS
LIST OF MAJOR EQUIPMENTS

Sl.No.	Name of Equipment's
1	<u>HARDWARE</u> PCSYSTEM-05No's
2	<u>SOFTWARE</u> 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	TemporarureMeasurementforThermistor
4	ECG12 LeadTrainerKit
5	HI2210Ph Meter
6	EmgAmplifierwithSimulator
7	EEGAmplifier10-20-3lWithSimulatorTrainerKit

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

Sl.No.	Name of Equipment's
1	Multiparameter Patient Monitoring System
2	ECG 12 Lead trainer kit
3	EEG amplifier 10-20-3L with Simulator Trainer kit
4	EMG amplifier
5	GSR meter Kit with simulator
6	Ph meter
7	EEG, ECG, EMG electrodes
8	Optical Isolation Amplifier kit
9	Audiometer
10	Electro Surgical Unit

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

Sl.No.	Name of Equipment's
1	Soxhlet Apparatus
2	Conductivity Meter
3	Centrifuge
4	Magnetic Stirrer
5	pH Meter
6	Colorimeter
7	Hematology Auto Analyzer
8	Turbidity Meter
9	UV-Visible Spectrophotometer

VINAYAKA MISSION'S RESEARCH FOUNDATION
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY, PAIYANOOR
DEPARTMENT OF BIOTECHNOLOGY
17BTCC82-CELL BIOLOGY LAB
LIST OF EQUIPMENT

Sl.No.	Name of Equipment's
1	Microscope
2	Laminar airflow

**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-Spectrophotometer

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-Spectrophotometer

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

Sl.No.	Name of Equipment's
1	HeatingMantle
2	MagneticStirrer WithHot Plate
3	FumeExhaustHood
4	VacuumPump
5	SimpleDistillation SetUp
6	Venturimeter
7	OrificeMeter
8	DoublePipeHeatExchanger
9	FlowThrough Pipe SetUp
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	BlottingAppratus
7	AgaroseGelElectrophoresisUnit
8	Sds-PageAppratus
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
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-Spectrophotometer

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

Sl.No.	Name of Equipment's
1	PCR
2	Ligationbath
3	Electrophoresisequipment
4	Microscope
5	Laminarairflow
6	Centrifuge
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	Name of Equipment's
1	Theodolite
2	Tacheometer
3	Total station
4	Dumpy level

VINAYAKA MISSIONS RESEARCH FOUNDATION
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
SOIL MECHANICS LAB
FOR UG STUDENTS

S.No	Name of Equipment's
1.	Pyconometer
2.	Casagrande's Apparatus
3.	Plastic limit Apparatus
4.	Shrinkage Limit Apparatus
5.	Standard and Modified Proctor's Apparatus
6.	Unconfined compression test Apparatus
7.	Direct shear Apparatus
8.	Consolidation test Apparatus
9.	Constant Head Permeability Method
10.	Falling Head Permeability Method
11.	Mechanical Sieve Shaker
12.	Weighing Balance
13.	Digital Display Constant Temperature Convection Oven

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

S.No	Name of Equipment's
1	PH Meter
2	Conductivity Meter
3	Potentiometer
4	COD Analyser

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

S.No	NameofEquipment'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
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
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1	LENOVO--NOOF SYSTEM-20
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CONFIGURATION

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

2	HP –NOOFSYSTEM–49
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CONFIGURATION

PROCESSOR :1.6 GHZ
DUAL CORERAM
:1GBDDR2
HARDDISK:160GBHDD
MONITOR :18.5''LED

3	LENOVOTHINKCENTER–NOOF SYSTEM–01
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CONFIGURATION

PROCESSOR :
CORE 2 DUO CPU
E750RAM
:2GBD
DR3

**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
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1	LENOVO--NOOF SYSTEM-20
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CONFIGURATION

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

2	HP –NOOFSYSTEM–49
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CONFIGURATION

PROCESSOR :1.6 GHZ
DUAL CORERAM
:1GBDDR2
HARDDISK:160GBHDD
MONITOR :18.5''LED

3	LENOVOTHINKCENTER–NOOF SYSTEM–01
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CONFIGURATION

PROCESSOR :
CORE 2 DUO CPU
E750RAM
:2GBD
DR3

**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
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1	LENOVO--NOOF SYSTEM-20
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CONFIGURATION

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

2	HP –NOOFSYSTEM–49
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CONFIGURATION

PROCESSOR :1.6 GHZ
DUAL CORERAM
:1GBDDR2
HARDDISK :160GBHDD
MONITOR :18.5''LED

3	LENOVOTHINKCENTER–NOOF SYSTEM–01
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CONFIGURATION

PROCESSOR :
CORE 2 DUO CPU
E750RAM
:2GBD
DR3

**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
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1	LENOVO--NOOF SYSTEM-20
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CONFIGURATION

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

2	HP –NOOFSYSTEM–49
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CONFIGURATION

PROCESSOR :1.6 GHZ
DUAL CORERAM
:1GBDDR2
HARDDISK :160GBHDD
MONITOR :18.5''LED

3	LENOVOTHINKCENTER–NOOF SYSTEM–01
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CONFIGURATION

PROCESSOR :
CORE 2 DUO CPU
E750RAM
:2GBD
DR3

**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
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1	LENOVO--NOOF SYSTEM-20
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CONFIGURATION

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

2	HP –NOOFSYSTEM–49
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CONFIGURATION

PROCESSOR :1.6 GHZ
DUAL CORERAM
:1GBDDR2
HARDDISK :160GBHDD
MONITOR :18.5''LED

3	LENOVOTHINKCENTER–NOOF SYSTEM–01
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CONFIGURATION

PROCESSOR :
CORE 2 DUO CPU
E750RAM
:2GBD
DR3

**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
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1	LENOVO--NOOF SYSTEM-20
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CONFIGURATION

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

2	HP –NOOFSYSTEM–49
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CONFIGURATION

PROCESSOR :1.6 GHZ
DUAL CORERAM
:1GBDDR2
HARDDISK:160GBHDD
MONITOR :18.5''LED

3	LENOVOTHINKCENTER–NOOF SYSTEM–01
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CONFIGURATION

PROCESSOR :
CORE 2 DUO CPU
E750RAM
:2GBD
DR3

**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
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1	LENOVO--NOOF SYSTEM-20
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CONFIGURATION

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

2	HP –NOOFSYSTEM–49
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CONFIGURATION

PROCESSOR :1.6 GHZ
DUAL CORERAM
:1GBDDR2
HARDDISK :160GBHDD
MONITOR :18.5''LED

3	LENOVOTHINKCENTER–NOOF SYSTEM–01
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CONFIGURATION

PROCESSOR :
CORE 2 DUO CPU
E750RAM
:2GBD
DR3

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

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
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
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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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,orificemeterandnozzlemeter
20.	Nozzle,orificeandmouthpieceapparatus
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
LIST OF MAJOR EQUIPMENTS

S.No	List of Equipment
1	CNCMillingMachine
2	CNCLatheMachine
3	CNCTrainSimulationSoftware
4	MastercamSoftware/EdgecamSoftwa re
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-DCCConverter
4	Inverter
5	BatteryBank

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

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
LIST OF MAJOR EQUIPMENTS

S.No	Nameoftheequipments
1	SineSquare
2	Regulatedpower
3	DCfixedpower
4	DCfixedpower
5	DigitalMultimeter
6	AndersonBridge
7	ScheringBridge
8	LVDTrainer
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

SINo	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	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

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

SINo	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

SINo	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
LIST OF MAJOR EQUIPMENTS

SINo	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

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

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

SINo	NameoftheEquipments
1	RDP Laptop Intel Quad core 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
LIST OF MAJOR EQUIPMENTS**

SINo	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**

SINo	NameoftheEquipments
1	RDP Laptop Intel Quad core 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 core processor Z8350(upto1.92GHZ)-30
2	ScilabSoftware

**VINAYAKA MISSIONS RESEARCH FOUNDATION
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
MACHINE DRAWING LAB
FOR UG STUDENTS
LIST OF MAJOR EQUIPMENTS**

S.No List of Equipments

- | | |
|---|---|
| 1 | COMPUTER |
| | CPU MAKE – HP PROCESSOR - |
| | INTEL CORE i5 RAM -4GB |
| | ROM -500GB |
| | MONITOR -COMPAQ |
| | OPERATING SYSTEM-
WINDOWS 7 (Ultimate) |
| 2 | SOFTWARE – CATIA V5 R21 |

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

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

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

Sl.No	NameoftheEquipment
1	RedWoodViscometer.
2	FlashPointandFire PointSetup.
3	Cutsectional,4strokeSinglecylinderedDieselEngine.
4	Cutsectional,2stroke SinglecylinderedPetrolEngine.
5	Fourstroke,TwincylinderedDieselEngine.
6	Fourstroke,4-cylinderedPetrol Engine
7	Fourstroke,Singlecylindered DieselEngine.
8	VariableCompressionRatio,SingleCylindered,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 ANALYSIS LAB
FOR UG STUDENTS
LIST OF MAJOR EQUIPMENTS

Sl.No	NameOftheEquipments
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
LIST OF MAJOR EQUIPMENTS

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
HYDRAULICS AND PNEUMATICS SYSTEM LAB
FOR UG STUDENTS
LIST OF MAJOR EQUIPMENTS

Sl.No	Name Of the Equipments
1	Study of Speed Control Circuit on Hydraulic Trainer
2	Study of Sequencing 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

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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
LIST OF MAJOR EQUIPMENTS

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 ANALYSIS LAB
FOR PG STUDENTS
LIST OF MAJOR EQUIPMENTS

Sl.No	NameofTheEquipments
1	<p>COMPUTER</p> <p>CPUMAKE – HPPROCESSOR</p> <p>-</p> <p>INTELCOREi5RAM -</p> <p>4GB</p> <p>ROM -500GB</p> <p>MONITOR -COMPAQ</p> <p>OPERATINGSYSTEM- WINDOWS7(Ultimate)</p>
2	SOFTWARE -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
LIST OF MAJOR EQUIPMENTS

S.No List of Equipments

- 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
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- | | |
|----|-------------------------|
| 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
PATHOLOGY & MICRO BIOLOGY LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
1.	Sterilization techniques
2.	Preparation of culture media for microorganisms
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 (demonstration)
11.	Cryoprocessing of tissue and cryo-sectioning (demonstration)
12.	Urine physical and chemical examination.
13.	Simple Staining
14.	Gram's Staining
15.	Widal's slide test

DEPARTMENT OF BIOMEDICAL ENGINEERING
BIO TRANSDUCER LAB
FOR UG STUDENTS
LIST OF 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
LIST OF 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
LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
1	Representation of basic discrete time signals.
2	Computation of convolution –linear convolution.
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.
8	Analysis of ECG, EEG & EMG signals

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

Sl.No.	Name of Experiments
1	12 Lead ECG
2	Recording of EEG
3	Electro ocular 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
LIST OF 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
LIST OF 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
LIST OF EXPERIEMENTS

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 of Sucrose
3	Preparation of Pyruvic acid from Tartaric acid.
4	Preparation of Oleic acid
5	Preparation of alpha D- glucopyranose pentaacetate
6	Preparation of Lycopene from Tomato paste
7	Preparation of L-Proline.
8	Preparation of 1,2,5,6 di-O-Cyclohexylidene-alpha-D-glucopyranose.
9	Preparation of s-ethyl hydroxybutyrate from ethyl acetoacetate using Yeast.
10	Preparation of s-ethyl hydroxybutyrate using 3,5-dinitrobenzoate.

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 cell propagation.
2.	Principles of Microscopy.
3.	Isolation of Cell organelle – Mitochondria, Microtubules, Actin and Myosin filaments.
4.	Cell Fractionation – Separation of peripheral blood mononuclear cells from blood.
5.	Cell staining - Gram's staining, Leishman staining
6.	Cell counting - Trypan blue assay, Alamar blue assay.
7.	Osmosis and Tonicity.
8.	Staining for different stages of mitosis in <i>Allium cepa</i> (Onion).

DEPARTMENT OF BIOTECHNOLOGY
MOLECULAR BIOLOGY LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

S.NO	NAME OF THE EXPERIMENT
1	General guidelines for working in molecular biology lab
2	Isolation of genomic dna from <i>e. Coli</i>
3	Quantitative analysis of dna
4	Plasmid dna isolation
5	Isolation of mitochondria from yeast cell
6	Elution of dna from agarose gel electrophoresis
7	Isolation of dna from animal
8	Agarose gel electrophoresis

DEPARTMENT OF BIOTECHNOLOGY

GENETIC ENGINEERING LAB

FOR UG STUDENTS

LIST OF EXPERIMENTS

Expt: No	NAME OF THE EXPERIMENT
	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

DEPARTMENT OF BIOTECHNOLOGY
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 andRNA
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 ofDNA.
18.	Preparation of CompetentCells.
19.	Transformation in E.Coli.
20.	Screening and selection of Recombinants and Confirmation of InsertDNA in Plasmid.
21.	SDS-PAGE.
22.	WesternBlotting.

DEPARTMENT OF BIOTECHNOLOGY

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 fromMilk
8.	Casein fromMilk
9.	Starch from Potato

DEPARTMENT OF BIOTECHNOLOGY

ADVANCED BIOCHEMISTRY LAB

FOR UG STUDENTS

LIST OF EXPERIEMNT

S.NO	NAME OF THE EXPERIMENT
1	Qualitative Analysis ofCarbohydrates.
2	Qualitative Analysis of Amino acids.
3	Qualitative Analysis of Lipids.
4	Qualitatively analysis of Normal and abnormal constituents ofUrine
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 ofHemoglobin.
10	Separation of plant pigments by column chromatography(Demo).

DEPARTMENT OF BIOTECHNOLOGY
BIOINSTRUMENTATION LAB
FOR UG STUDENT
LIST OF EXPERIMENT

S.NO	NAME OF THE EXPERIMENT
1	Validating Lambert – Beer’s law using KMnO_4 .
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^{3+} concentration using Alizarin in the spectrometer.
8	Estimation of Sulphate by Nephelometry.
9	Experiments on a) Conductivity meter b) Turbidity meter.
10	Estimation of Dissolved oxygen.
11	Determination of Fe^{2+} content in fruit juices

DEPARTMENT OF BIOTECHNOLOGY
ADVANCED BIOCHEMISTRY LAB
FOR PG STUDENT

LIST OF EXPERIMENT

S.NO	NAME OF THE EXPERIMENT
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Qualitative Analysis

- | | |
|---|---|
| 1 | <ul style="list-style-type: none">(i) Carbohydrates(ii) Lipids(iii) Proteins(iv) Normal and abnormal constituents of urine.(i) Estimation of glucose by ortho – Toluidine method(ii) Estimation of blood urea by Nessler's method(iii) Estimation of cholesterol by Zak's method(iv) Estimation of bilirubin by Malloy and Erel's method(v) Estimation of protein by Lowry's method(vi) Estimation of nucleic acids by spectrophotometric method(vii) Estimation of haemoglobin by Shali's method.(viii) Determination of Erythrocyte Sedimentation Rate by using Westergren Pipette |
| 3 | <p>Chromatography</p> <p>Separation of sugars and amino acids by Paper chromatography</p> <p>Extraction of lipids and analysis by TLC</p> |
| 4 | <p>Enzyme assay</p> <ul style="list-style-type: none">(i) Determination of serum LDH activity(ii) Determination of Serum Glutamate Oxaloacetate Transaminase (SGOT) by Mohn and Cook method.(iii) Determination of Serum Glutamate Pyruvate Transaminase (SGPT) by IFCC Method |

DEPARTMENT OF BIOTECHNOLOGY

IMMUNOLOGY LAB

FOR UG STUDENT

LIST OF EXPERIMENT

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	Immuno electrophoresis.
6	Testing for Typhoid antigens by Widaltest.
7	Enzyme Linked ImmunoSorbent Assay(ELISA).
8	Isolation of pberipheral blood mononuclearcells.
9	Isolation of monocytes fromblood.
10	Immunofluorescence

DEPARTMENT OF BIOTECHNOLOGY
FOOD PROCESSING TECHNOLOGY LAB
FOR UG STUDENT

LIST OF EXPERIMENT

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 ofAdulterant

DEPARTMENT OF BIOTECHNOLOGY
BIOPROCESSING ENGINEERING LABORATORY
FOR UG STUDENTS
LIST OF EXPERIMENT

S.NO	NAME OF THE EXPERIMENT
1	Batch growth kinetics of <i>bacteria</i>
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

LIST OF EXPERIMENT

S.NO	NAME OF THE EXPERIMENT
1	Handling of animals, immunization and raising antisera.
2	Identification of cells in a blood smear.
3	Identification of blood groups.
4	Immunodiffusion and immunoelectrophoresis.
5	Testing for Typhoid antigens by Widal test.
6	Enzyme Linked Immunosorbent Assay (ELISA).
7	Isolation and culture of peripheral blood mononuclear cells
8	Isolation of monocytes from blood.
9	Immunofluorescence.
10	Identification of T-cell rosetting using sheep RBC

DEPARTMENT OF BIOTECHNOLOGY
ADVANCED BIOPROCESS LABORATORY
FOR PG STUDENT
LIST OF EXPERIMENTS

S.NO	NAME OF THE EXPERIMENT
1	Batch growth kinetics of <i>bacteria</i> -
2	Effect of substrate concentration on growth of <i>e.coli</i>
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

LIST OF EXPERIMENT

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 (demonstration)
11	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
LIST OF EXPERIMENT

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.	<i>In vitro</i> 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

LIST OF EXPERIMENT

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

DEPARTMENT OF BIOTECHNOLOGY

MICROBIOLOGY LAB

FOR PG STUDENTS

LIST OF EXPERIMENT

S.NO	NAME OF THE EXPERIMENT
1	Sterilization Techniques
2	Preparation Of Culture Media For Micro Organisms
	a. Broth type media
	b. Solid type media
3	Culture of Micro organisms
	a. Pure culture techniques
	b. i) Streak plate
	c. ii) Spread plate
	d. iii) Pour plate
4	Identification of Microorganisms
	Staining Techniques
	a. Simple staining
	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 soil sample
6	Food Microbiology
	i) Analysis of milk sample
7	Clinical Microbiology
	i) Isolation of normal mouth flora
	ii) <i>In vitro</i> 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 <ul style="list-style-type: none">• Ranging – changing and traverse.
2	COMPASSSURVEYING <ul style="list-style-type: none">• Traverse.
3	PLANETABLESURVEYING. <ul style="list-style-type: none">• Triangulation to find the distance between inaccessible points with and without known scale. – Three-point problem, two point problem.
4	LEVELLING <ul style="list-style-type: none">• Study of levels and leveling staff – Fly leveling using dumpy level. – fly leveling using tilting level. – Check leveling.
5	THEODOLITESURVEYING <ul style="list-style-type: none">• Study of theodolite measurement of angles by reiteration and repetition - measurement of vertical angles

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

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

Sl.No.	Name of Experiments
1.	Principles of planning, orientation and complete joinery details (Paneled and Glazed Doors and Windows)
2.	Buildings with load bearing walls
3.	Buildings with sloping roof
4.	R.C.C. framed structures
5.	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
2.	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
5.	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 <ul style="list-style-type: none">a) Direct shear test on cohesion less soilb) Unconfined compression test in cohesive soilc) 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 1)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

LIST OF EXPERIMENTS

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

LIST OF EXPERIMENTS

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, k-d 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 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.
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
LIST OF EXPERIMENTS

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 class 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
LIST OF EXPERIMENTS

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
LIST OF EXPERIMENTS

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 an 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 file 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
LIST OF EXPERIMENTS

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
LIST OF EXPERIMENTS

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.	0/1 Knapsack using Dynamic Programming
10.	Graph coloring using backtracking

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
NETWORKING LAB
FOR PG STUDENTS
List of Experiments

S.No	Name Of Experiments
1.	SocketProgramming
2.	TCP.Sockets
3.	UDPSockets
4.	ApplicationsusingSockets
5.	SimulationofSlidingWindowProtocol
6.	SimulationofRoutingProtocols
7.	Development of applicationssuchasDNS/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

MULTIPROCESSOR OPERATING SYSTEMS

PROGRAM 1 – Semaphores-Multiprocessor operating systems

Assume there are three processes: Pa, Pb, and Pc. Only Pa can output the letter A, Pb B, and Pc C.

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

- a) A B must be output before any C's can be output.
- b) B's and C's must alternate in the output string, that is, after the first B is output, another B cannot be output 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 the output string cannot exceed the number of A's which have been output up to that point.

Examples

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

PROGRAM2–Multithreading-MultiprocessoroperatingsystemsTheCigaretteSmokersProblem

Consider a simulation with three *smoker* threads and one *agent* thread. Each smoker continuously makes a cigarette and smokes it. But to make a cigarette, a smoker needs three ingredients: tobacco, paper, and matches. One of the smoker threads has only paper, another has only tobacco, and the third has only matches. The agent thread has an 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 unblocks the one smoker who has the remaining ingredient. The agent then blocks.

The unblocked smoker removes the two ingredients from the table, makes a cigarette, and smokes it for a random amount of time, unblocking the agent on completion of smoking the cigarette. The agent then puts out another random two of the three ingredients, and the cycle repeats.

Write a multi-class multithreaded Java program that uses a monitor to synchronize the agent thread and the three smoker threads. Do not mechanically translate semaphore 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. All smoker objects are created from one smoker class whose constructor is used to specify the ingredient possessed by the smoker object. A driver class with a main method constructs the objects and starts the threads.

Use a single monitor object instantiated from a class Control for synchronization. Each of the four threads invokes a synchronized monitor method for its synchronization.

No semaphores are allowed. No synchronized blocks are allowed, only synchronized methods. No busy waiting is allowed. No calls to `nap` inside a synchronized method are allowed (do not `nap` while holding the monitor object's lock, that is, while inside a synchronized method or while inside a method called by a synchronized method).

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 Barber class.

Networkoperatingsystems

PROGRAM4–Networkoperatingsystems

Establish a Lab setup for the following network operating systems based programs based on the skills in networking on your own. E.g. for identifying networking hardware, identifying different kinds of network cabling and network interface cards can be done.

Exercises

1. Identifying Local Area Network Hardware
2. Exploring Local Area Network Configuration Options
3. Verifying TCP/IP Settings
4. Sharing Resources
5. Testing LAN Connections

Real timeoperatingsystems

PROGRAM5–Realttimeoperatingsystems

Areal-timeprogramimplementinganalarmclockshallbedeveloped.[Alarmclock,usingCand Simple_OS]

Theprogramshallfulfillthefollowing requirements:

Clock with alarm functionality shall be implemented, It shall be possible to set the time, Itshallbepossibleto setthealarmtime,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.

Databaseoperatingsystems

PROGRAM6–TransactionsandConcurrency-Databaseoperatingsystems

Exercises

Assumeanyapplication(e.g.banking) onyour ownanddothefollowingexercises.

1. InvestigateandimplementtheObjectStore'sconcurrencyoptions.
2. Implementtheconcurrencyconflictthatooccursbetweenmultipleclientapplications.
3. Observeandimplementtheimplicationofnestedtransactions.

Distributedoperatingsystems

PROGRAM7–Distributedoperatingsystems

1. Design a RMI Lottery application. Each time you run the client program -- “javaLotteryClient n”, the server program “LotteryServer” will generate a set of Lottery numbers. Here n is a positive integer, representing the money you will spend on Lottery in sterling pounds. Write this program in a proper engineering manner, i.e. there should be specifications, design (flow chart, FD, or pseudocode), coding, test/debug, and documentation.
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 Q be a state predicate on the local state of the other process. Assume that neither P nor Q are stable (i.e. closed).

Design a superimposed computation which detects that there exists an interleaving of underlying events in this system where at some state $P \wedge Q$ holds. (A superposed computation is one that does not affect the underlying system; it may read but not write the state of the underlying system. Events in a superposed computation may occur in at the same instant as the underlying events and/or at different instants.) State any assumptions you make.

[Hint: Use vector clocks.]

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

WEB TECHNOLOGY

FOR PG STUDENTS

LIST OF EXPERIMENT

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
LIST OF EXPERIMENTS

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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 <ul style="list-style-type: none">a) Voltage Seriesb) Current Shunt
3.	Design, Simulation and Hardware realization of Sinusoidal waveform generators. <ul style="list-style-type: none">a) RC Oscillatorsb) LC Oscillators
4.	Design and simulation of Power amplifiers
5.	Frequency Response characterization of Tuned amplifier circuit. <ul style="list-style-type: none">a) Single Tunedb) Double Tuned
6.	Design and hardware realization of Multistage Amplifier for given specification <ul style="list-style-type: none">a) Cascadeb) 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
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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

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
LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
<u>LINEAR INTEGRATED CIRCUITS LAB</u>	
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.
<u>MICROCONTROLLERS LAB</u>	
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
MICROPROCESSOR LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

Sl.No.	Name 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.
10.	Interfacing a Keyboard & Display controller (8279) to 8051 Controller.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SIGNAL PROCESSING LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

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 analog Chebyshev filters and apply bilinear transformation
5.	Design analog Butterworth filters and apply bilinear transformation
6.	Design analog Chebyshev 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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
DIGITAL IMAGE PROCESSING LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
DATA COMMUNICATION NETWORKING LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

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.	a. Distance vector Routing Algorithm b. Link State Routing Algorithm
11.	Encryption and Decryption
12.	Study of Ethernets and Fast Ethernets

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
FPGA SYSTEM DESIGN LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

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
LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
	Design with 8 bit Microcontrollers 8051/PIC Microcontrollers
1.	i) I/O Programming, Timers, Interrupts, Serial port programming ii) PWM Generation, Motor Control, ADC/DAC, LCD and RTC Interfacing, Sensor Interfacing iii) Both Assembly and C programming
2.	Design with 16 bit processors I/O programming, Timers, Interrupts, Serial Communication,
3.	Design with ARM Processors. 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
9.	Network Simulators 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

LIST OF EXPERIMENTS

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
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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
LIST OF EXPERIMENTS

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
FOR UG STUDENTS

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
1.	PLC ladder diagram using logic gates.
2.	Stepper Motor interface.
3.	D.C motor controller interface.
4.	Linear actuation of hydraulic cylinder with counter and speed control.
5.	Sequential operation of pneumatic cylinders.
6.	Traffic light controller.
7.	Speed control of DC motor using PLC.
8.	Testing of Relays using PLC.
9.	Design of ON / OFF control in Flow and Pressure process control in PLC.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
POWER ELECTRONICS LAB
FOR UG STUDENTS

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
FOR UG STUDENTS

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
FOR UG STUDENTS

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
SEMICONDUCTOR DEVICES LAB
FOR UG STUDENTS

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.	TransferfunctionofselfandseparatelyexcitedDCGenerator
2.	Transferfunction ofArmatureand Fieldcontrolled DCMotor
3.	Transferfunction ofACServomotor
4.	FrequencyresponseofLag,Lead&Lag–Leadnetworks
5.	Studyof SynchrosandDCStepperMotor
6.	TransferfunctionofWard–LeonardmethodofspeedcontrolofDCmotor
7.	StudyofDC PositionControlssystemandstudyofvarioustransducers
8.	Study ofP,PIandPIDControllers(First Order)
9.	Analogandsimulationoftype–0andtype –1systems
10.	Stabilityanalysis ofLinearSystems
11.	Digitalsimulationoffirstordersystems
12.	Digitalsimulationofsecondordersystems

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
DIGITAL LOGIC CIRCUITS & DESIGN LAB
FOR UG STUDENTS

Sl.No.	List of Experiments
1.	Design and implementation of Adders using logic gates
2.	Design and implementation of Subtractors 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
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 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.	SimulationofPWMinverterfedsinglephaseinductionmotorcontrol
6.	SimulationofPWMinverterfedthreephaseinductionmotorcontrol
7.	SimulationofCSIfedinductionmotordriveanalysis
8.	SimulationofVSIfedinductionmotordriveanalysis

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

Sl.No.	List of Experiments
1.	Design of Inverting and Non-Inverting amplifier using operational amplifier.
2.	Design of Adders and Subtractors using operational amplifier
3.	Design of Integrators and Differentiators using operational amplifiers.
4.	Design of comparators using operational amplifiers.
5.	Design of rectifiers using operational amplifiers.
6.	Design of oscillators using operational amplifier
7.	Design of Astable and Monostable Multivibrators using IC 555 Timer
8.	Design of filters using operational amplifier.
9.	Design of Digital to analog converter and Analog to Digital converters
10.	Design and implementation of Phase Locked Loops.

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

Sl.No.	List of Experiments
1	To study experimentally the characteristics of Diodes, BJT's and FET's.
2	To plot the input and output characteristics of a transistor in CE Configuration and to compute the h-parameters
3	To study Drain characteristics and Transfer characteristics & to find the Transconductance, Drain resistance and Amplification factor of JFET
4	Simulation & Hardware realization of Half wave & Full wave Rectifier with and without Filter.
5	Simulation & Hardware realization of Clipping & Clamping circuits
6	Simulation & Hardware realization of Voltage Series Feedback amplifiers and its frequency analysis
7	Design, Simulation and Hardware realization of Sinusoidal waveform generators. a. RC Oscillators b. LC Oscillators
8	Design and simulation of Power amplifiers
9	Frequency Response characterization of Single Tuned amplifier circuit.
10	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 system of DC load with battery
4.	Power flow calculations of standalone PV system of AC load with battery
5.	Power flow calculations of standalone PV system of DC and AC load 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 Flow between Grid-Tied Inverter, Grid & Load and Net Metering concept
9.	Grid Synchronization of Solar PV Inverter and its 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.	Speed measurement using Photoelectric tachometer
2.	Digital transducer – shaft angle encoder
3.	Strain gauge characteristics
4.	Torque measurement
5.	Displacement measurement using potentiometric transducer
6.	Measurement of Temperature using RTD
7.	Measurement of temperature using Thermocouple
8.	Measurement of Capacitance using Schering bridge
9.	Measurement of Frequency using Wein bridge
10.	Measurement of Inductance using 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

DEPARTMENT OF MECHANICAL ENGINEERING
AUTOMOBILE ENGINEERING LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

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

DEPARTMENT OF MECHANICAL ENGINEERING
HEAT TRANSFER LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
1.	Determination of Thermal conductivity (Lagged Pipe)
2.	Determination of Emissivity
3.	Determination of Heat transfer co-efficient through Forced Convection.
4.	Determination of Heat transfer co-efficient through Natural Convection.
5.	Determination of Heat transfer co-efficient of Pin-Fin Apparatus.
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.
11.	Determination of Thermal conductivity (Insulating Powder).

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
3.	Heat Treatment – Normalising
4.	Heat Treatment – Annealing
5.	Heat Treatment – Hardening
6.	Heat Treatment – Tempering
7.	Identification of Low Carbon Steel
8.	Identification of Austenitic Stainless Steel
9.	Identification of Grey Cast Iron
10.	Identification of Nodular Cast Iron
11.	Identification of Brass (Copper Alloy)
12.	Identification of Aluminium Alloy

DEPARTMENT OF MECHANICAL ENGINEERING

ENGINEERING SKILLS PRACTICE LAB (UG)

A.BASIC CIVIL ENGINEERING

FOR UG STUDENTS

LIST OF EXPERIMENTS

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

DEPARTMENT OF MECHANICAL ENGINEERING
DYNAMICS LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
1.	Perform an experiment on Watt and Porter Governor and to find the Stability and sensitivity
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 to plot the characteristic curve of radius of rotation
4.	Analyze the motion of gyroscope couple using Motorized Gyroscope
5.	Determination of critical speed of whirling shaft
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.	Determine the Moment of Inertia by Tri-filar and Bifilar suspension.

DEPARTMENT OF MECHANICAL ENGINEERING
AUTOMATION LAB
FOR PG STUDENTS
LIST OF EXPERIMENTS

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
LIST OF EXPERIMENTS

Sl.No.	Name of Experiments
1.	Study of analysis and its benefits
2.	Stress analysis of cantilever and simply supported beam
3.	Application of distributed loads
4.	Nonlinear analysis of cantilever beam
5.	Buckling analysis
6.	Stress analysis of axis-symmetry vessels
7.	Static analysis of two-dimensional truss
8.	Transient thermal conduction
9.	Conductive heat transfer analysis
10.	Plane stress bracket
11.	Modal analysis of simply supported beam
12.	Harmonic analysis of a cantilever beam

DEPARTMENT OF MECHANICAL ENGINEERING
INDUSTRIAL AUTOMATION LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

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.

DEPARTMENT OF MECHANICAL ENGINEERING
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). |

DEPARTMENT OF MECHANICAL ENGINEERING
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 Wood Viscometer.
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 port timing diagram.
5.	Performance test on a four stroke single/ twin cylinder diesel engine.
6.	Determination of frictional power of a four cylinder petrol engine by conducting a Morse test.
7.	Conduct a retardation test and determine frictional power in a diesel engine.
8.	Performance test on variable compression ratio engine with biofuel.

DEPARTMENT OF MECHANICAL ENGINEERING
MACHINE DRAWING LAB
FOR UG STUDENTS
LIST OF EXPERIMENTS

Sl.No.

Name of Experiments

Drawing of Machine Elements and simple parts

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

1. Popular forms of Screw threads, bolts, nuts, stud bolts, tap bolts, setscrews.
2. Keys, cotter joints and knuckle joint.
3. Riveted joints for plates
4. Shaft coupling, spigot and socket pipe joint.
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 easy drawing proportions

1. Engine parts – stuffing boxes, cross heads, Eccentrics, Petrol Engine connecting rod, piston assembly.
2. Other machine parts – Screws, jacks, Machine Vices, Plummer block, Tailstock.
3. Valves: Steam stop valve, spring loaded safety valve, feed check valve and 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 hollow 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
LIST OF EXPERIMENTS

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:

- | | |
|----|--|
| 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. | 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, planing 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.	Study of analysis and its benefits
2.	Stress analysis of cantilever and simply supported beam
3.	Application of distributed loads
4.	Nonlinear analysis of cantilever beam
5.	Buckling analysis
6.	Stress analysis of axis-symmetry vessels
7.	Static analysis of two dimensional truss
8.	Transient thermal conduction
9.	Conductive heat transfer analysis
10.	Plane stress bracket
11.	Modal analysis of simply supported beam
12.	Harmonic analysis of a cantilever beam

DEPARTMENT OF MECHANICAL ENGINEERING

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

LIST OF EXPERIMENTS

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

LIST OF EXPERIMENTS

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 – Poiseuille'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 thermistor.
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 – Poiseuille'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

LIST OF EXPERIMENTS

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	Name of the Item	Number of Quantity
1	Desktop	561
2	Mini Laptop	20
3	Laptop	20

SERVER ROOM EQUIPMENTS

S.NO	EQUIPMENT	CONFIGURATION	QTY
1	SYSTEM – HP PROLIANT ML110	PROCESSOR: INTEL XEON @1.86 GHZ RAM:4GB HDD:250GB	3
2	SYSTEM – HP DL380 G5	PROCESSOR: INTEL XEON @1.86 GHZ RAM:2GB HDD:72 GB	1
3	SYSTEM-DELL POWEREDGET310	PROCESSOR: INTEL XEON @1.86 GHZ RAM:4GB HDD:500GB	1
4	SYSTEM-DELL OPTIPLEX 3020	PROCESSOR: INTEL CORE I5 @ 3.20 GHZ RAM:4GB HDD:1TB	2
5	SYSTEM - HP PROLIANT BL260CG5	PROCESSOR: INTEL XEON @3.00 GHZ RAM:4GB HDD:500GB	1
6	ASSEMBLED SYSTEM	PROCESSOR: INTEL CORE I3 @ 3.70 GHZ RAM:4GB HDD:1TB	1
7	ASSEMBLED SYSTEM	PROCESSOR: INTEL CORE I3 @ 3.70 GHZ RAM:4GB HDD:500GB	1
8	MICROTIK ROUTER CCR1009-7G-1C-15+	MICROTIK GIGABIT ROUTER	1
9	SOPHOS XG430 FIREWALL	1000 NODES SUPPORT	1
10	EXTREME SUMMIT X460-24X CORE SWITCH	MANAGEABLE 28 PORT	1
11	HIKE VISION 64 CHANNEL NVR	64 CHANNEL NVR FULL HD 1080	4

Major software packages available:

S. NO.	Department	Name
1	Mechanical	CATIA V5 academic discover package
2	Mechanical	PROE wildfire 3.0
3	Mechanical	Autodesk Inventor Professional 2009 solution Set

4	Mechanical	Solid Works
5	Mechanical	ANSYS 16.0 ACADEMIC TEACHING MECHANICAL (2,56,000 nodes) + CFD(5,12,000 nodes)
6	Mechanical	Edge Cam
7	Mechanical	MASTERCAM for solidworks Version X7
8	Mechanical	ESI(Tronic) Bosch Vehicle Diagnostic Software
9	Mechanical	CNC
10	Mechanical	Automation Studio
11	Mechanical	QCAD
12	Mechanical	OpenFoam
13	Mechanical	Openmodelica
14	Mechanical	Lab view IC engine automation software VCR lab
15	EEE	COMOS plant Engineering software
16	EEE	SIMATIC Pcs 7 Software Trainer Package V 8.2
17	EEE	Simit Simulation Framework
18	EEE	Scilab
19	EEE	e Sim
20	CSE	Windows -11
21	CSE	Window-10
22	CSE	NS2 SIMULATION
23	CSE	JDK
24	CSE	Turbo C++ Compiler
25	CSE	Visual Studio 10 (Free IDE)
26	CSE	STAR UML
27	CSE	Turbo C++ Compiler
28	CSE	HTML, XML (Any Browsers)
29	ECE	L-SIM Simulator
30	ECE	N-Sim Simulator
31	ECE	Xilinx
32	ECE	Arudino
33	ECE	e sim
34	ECE	Scilab
35	ECE	Tinker Cad
36	ECE	NS2
37	English	Orell Talk
38	Centre for Nano technology Lab	Instrument Software for AFM
39	Centre for Nano technology Lab	Instrument Software for FITR
40	Centre for Nano technology Lab	Instrument Software for UV-Spectrometer

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	22-23	21-22	20-21
1	Biotechnology	9	8	4
2	Biomedical	18	5	16
3	Civil	11	30	26
4	CSE	46	42	38
5	ECE	10	21	25
6	EEE	11	17	13
7	Mechatronics	9	5	5
8	Mechanical	33	87	80
9	Automobile	-	4	5

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 provided (INR in Lakhs)	Duration of the project
Nanopore-Based Biosensing Precepts for Identifying Specific Amino Acids: A Novel Approach for the Detection of Early Tumour Cells	Dr. S. Shanmuga Sundar	Start-up Research Grant in DST SERB	Biotechnology	2023-2024	20.94	2 years
Performance Analysis and assessment of Ferrock Cement infused Steel Composite Tubular Column under Seismic loading	Vijayan D S	TARE Scheme-SERB	Civil	2022-2023	15	3 years
Efficient Power Management System by Implementing Solid State Transformer	Vijay J	MSME	ECE	2022-23	12.6	1 Year
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	2023	212
2	2022	155
3	2021	174

Consultancy Works in last 3 Years

Name of the consultant	Name of advisory / R&D consultancy/clinical trial project	Consulting/Sponsoring agency with contact details	Year	Revenue generated (INR in Lakhs)
Dept. of Mechanical Engineering, AVIT	Alternate fuel Testing Research Lab	Research Scholars, Sathyabama University	2023-2024	0.05
Dept. of Biotechnology, AVIT	Test the efficacy of UVC Lamp	Spotless AI Ltd., Coimbatore.	2023-2024	2
Dept. of Mechanical Engineering, AVIT	Alternate fuel Testing Research Lab	Research Scholars, Sathyabama University	2023-2024	0.05
Department of Civil Engineering, AVIT	Cube Testing	Sathlokar Synergy Pvt. Ltd	2023-2024	0.009
Department of Civil Engineering, AVIT	Cube Testing	Sathlokar Synergy Pvt. Ltd	2023-2024	0.057
Department of Civil Engineering, AVIT	Evaluation of Structural adequacy of Industrial Steel structure	Ms. Xylosuisse Private Limited	2023-2024	0.2
Department of Civil Engineering, AVIT	Cube Testing	Sathlokar Synergy Pvt. Ltd	2023-2024	0.027
Department of Civil Engineering, AVIT	Steel Design of Entrance Arch	Arun Excello- Estancia	2023-2024	0.15
Department of Civil Engineering, AVIT	Steel Mezzanine and Terrece Water Proof	Rtn.Vipin	2023-2024	0.12475
Department of Civil Engineering, AVIT	Soil Test Report	Samymal Constructions	2023-2024	0.064
Department of Civil Engineering, AVIT	Solar Panel Frame Design	United Shakthi Associates	2023-2024	0.12
Department of Civil Engineering, AVIT	Evaluation of Fire damage building	Thirusakthivel	2023-2024	0.1
Dept. of Mechanical Engineering, AVIT	Alternate fuel Testing Research Lab	Research Scholars, SRM Institute of Science and Technology	2023-2024	0.1

Dept. of Mechanical Engineering,AVIT	Alternate fuel Testing Research Lab	Research Scholars, SRM Institute of Science and Technology	2023-2024	0.025
Dept. of Mechanical Engineering,AVIT	Alternate fuel Testing Research Lab	Research Scholars, SRM Institute of Science and Technology	2023-2024	0.05
Department of Civil Engineering, AVIT	Concrete Cube Testing	A.Rajamoorthy - AVIT Staduim work	2023-2024	0.006
Department of Civil Engineering, AVIT	Concrete Cube Testing	A.Rajamoorthy - AVIT Staduim work	2023-2024	0.006
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	Research Scholars, 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	Contractor for IGCAR	2022-2023	0.195
Dept. of Mechanical Engineering,AVIT	Alternate fuel Testing Research Lab	Research Scholars, J J College of Engineeringand Technology	2022-2023	0.0425
Dept. of Mechanical Engineering,AVIT	Alternate fuel Testing Research Lab	Research Scholars, 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	Contractor,IGCAR, Kalpakkam	2021-2022	0.432
Department of Civil Engineering, AVIT	Soil Test	Aurobindo Reality & Infrastructure Pvt. Ltd., Vittalapuram, Chengalpet District	2021-2022	0.316
Department of Civil Engineering, AVIT	Soil Test	Aurobindo Reality & Infrastructure Pvt. Ltd., Vittalapuram, Chengalpet District	2021-2022	0.04

MOUs with Industries/organisations

S.No.	MoU Collaboration	Name of the partnering Institution / Industry /Research Lab /Corporate
1	Innovation - Academics, Training, Research	Tamilnadu Technology Hub - iTNT Foundation
2	Academics, Training, Research	Delta star power projects services pvt ltd
3	Academics, Training, Research	SimBioen Labs and Scientific Services
4	Academics, Training, Research	NEC
5	Academics, Training, Research, Internship	Intel Technology
6	Academics, Training, Research	Chipware Technologies Pvt. Ltd
7	Academics, Training, Research	Seattle University
8	Academics, Training, Research	Ramco Cements Limited
9	Academics, Training, Research	NITTTR, Chennai
10	Academics, Training, Research	Taylor's university
11	Academics, Training, Research	Bosch
12	Academics, Training, Research	Veridian
13	Academics, Training, Internship	Infosys Spring Board
14	Academics, Training, Research	Salem Infotech
15	Academics, Training	Kriatec Services Pvt. Ltd
16	Academics, Training, Research	Avanzo
17	Academics, Training, Research	Nila Apps
18	Academics, Training, Research	Bentley Systems Pvt Ltd
19	Academics, Training, Research	Tesla Minds
20	Academics, Training, Research	Wollo University
21	Academics, Training, Research	Vinveli Automated Systems

22	Training On Advanced Areas Of Biotechnology	Golden Jubilee Biotech Park , Chennai
23	Training On Advanced Areas Of Biotechnology	Softgel Healthcare Pvt. Ltd, Pudhupakkam, Kelampakkam
24	Academics, Research, Internship And Placements	Siemens Industry Software (India) Pvt. Ltd
25	Academics, Training, Research, Internship And Placements	M/S Corner stone Automations
26	Academics, Training, Research, Internship And Placements	Gbl – Prayojana Construction Management Training Institute
27	Academics, Training, Research, Internship And Placements	Orion Automotive And Tubular Batteries
28	Academics, Training, Research	NIT, Dimapur, Nagaland
29	Research Collaborations	Society For Electronic Transaction And Security (SETS)
30	Academics, Training, Research	National Polytechnic Institute, Dhaka, Bangladesh
31	Academics, Training, Research	Npi University Of Bangladesh, Manikgonj, Bangladesh
32	Academics, Training, Research	Oakland University, Uk
33	Academics, Training, Research, Internship	M/S Emaar Solar Power System
34	Academics, Training, Research, Internship	M/S Maya Solar Power System Pvt. Ltd.
35	Academics, Training, Research, Internship	M/S Dorcas Upholding Hands
36	Academics, Training, Research, Internship	Lawrence & Mayo Pvt.Ltd
37	Training	Women Entrepreneurs India, Chennai
38	Academics, Training, Research	Naresuan University, Phitsanulok, Thailand
39	Academics, Training, Research, Internship	M/S Steinbei'S Solar Research Centre
40	Academics, Training, Internship	Gss, Japan
41	Academics, Training, Internship	Star Trace
42	Academics, Training	Vijaya Prakash Housing & Infra
43	Academics, Training, Value Added Course	Spoken Tutorial, IIT Bombay
44	Academics, Training, Internship	Vi Micro Systems

AICTE APPROVAL LETTERS:

https://www.avit.ac.in/aicte_approvals/