

Mandatory Disclosure by Institutions running AICTE approved programme to be included in their respective information brochure, displayed on their website and to be submitted to AICTE every year together with its URL

**I. NAME OF THE INSTITUTION**

**St. Joseph's College of Engineering**

Jeppiaar Nagar, Old Mamallapuram road,

Chennai – 600 119.

Phone: (044) 24501060, 24501449

Fax: 044 -24500861

Email: [jprjosep@giasmd01.vsnl.net.in](mailto:jprjosep@giasmd01.vsnl.net.in)

Web: [www.stjosephs.ac.in](http://www.stjosephs.ac.in)

**II. NAME & ADDRESS OF THE DIRECTOR / PRINCIPAL**

**Dr. Jolly Abraham M.E., Ph.D**

St. Joseph's College of Engineering

Jeppiaar Nagar, Old Mamallapuram road,

Chennai – 600 119.

Phone: (044) 24501060, 24501449

Fax: 044 -24500861

Email: [jprjosep@giasmd01.vsnl.net.in](mailto:jprjosep@giasmd01.vsnl.net.in)

Web: [www.stjosephs.ac.in](http://www.stjosephs.ac.in)

### III. NAME OF THE AFFILIATING UNIVERSITY

ANNA UNIVERSITY CHENNAI  
Guindy  
Chennai - 600 025  
Tamil Nadu  
INDIA

### IV. GOVERNANCE

#### *Members of the Board and their brief background*

Sl.No.	Name of College Committee Member	Designation
1.	Dr.Jeppiaar	Chairman
2.	Mrs.Remibai Jeppiaar	Trustee
3.	Dr.Babu Manoharan	Director
4.	Director	Southern Regional Office, AICTE
5.	Nominee of the affiliating body-University	- be appointed by the Anna University
6.	Commissioner of Technical Education	Directorate of Technical Education, Chennai-25
7.	Prof.Jolly Abraham	Principal

#### *Members of Academic Advisory Body*

Sl.No.	Name	Position	Qualification	Present professional position / Occupation
1.	Dr.Jolly Abraham	Chairman	M.E., Ph.D	Principal
2.	Dr.Hari T.S Narayanan	Member	M.E Ph.D	Professor
3.	Dr.Mohan Ram	Member	M.A,M.B.A, M.Phil., Ph.D	Professor
4.	Dr. V. Seshagiri Rao	Member	M.E, Ph.D	Professor&HOD/Mech
5.	Dr.V.Vallinayagam	Member	M.Sc, Ph.D	Professor&HOD/Maths
6.	Dr.M.Balakrishna	Member	M.E, Ph.D	Professor
7.	Dr.K.Manjunath	Member	M.E, Ph.D	Professor

#### *Frequency of the Board Meetings and Academic Advisory Body*

Board Meeting – Monthly

Academic Advisory Body meeting – Yearly

**Organizational Chart :** **Attached Separatly**

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

1. Well trained, dedicated and self motivated faculty who take initiative and discharge their duty wholeheartedly. All faculty members act as facilitators to the students.
2. Discipline, excellent quality and highly sophisticated labs provide very good academic atmosphere
3. Students skills are improved through motivational programmes like Technical Seminars, Advisory bureau for higher studies, Soft skill training centre, Professional Associations, Professional Societies, Co-curricular Activities and Extra-curricular activities.
4. Staff stability is commendable and 70% of staff are having more than years of service at our college.

***Mechanism/Norms & Procedure for democratic/good Governance***

1. Full academic freedom and complete financial control within the allocated budget under the direct control and supervision of principal.
2. Salary and workload as per AICTE norms.
3. Sixth Pay Commission salary with 22% of DA

***Student Feedback on Institutional Governance/faculty performance***

**Complaint/Suggestions:**

A complaint book is available in all the class room blocks, lab blocks, Gents hostel and Ladies hostel. The college office with the help of various in charges receives suggestions and complaints. It is attended - immediately and the report is submitted in the board meeting.

**Class Monitoring Committee**

The Committee consisting of twenty teaching staff members is instituted to visit the class rooms twice in a semester to have direct interaction with the students The committee records the grievances/suggestions and the feed back is passed on to the principal. The principal reviews the complaints and give it to the respective HOD's to initiate action.

**Class Monitoring committee feed back format:**

1. Industrial Visit	
2. Assignment	
3. Guest Lecturer	
4. Year Incharges	
5. Book Bank	
6. Central Library	
7. Reference Books	
8. Lab / Workshop	
9. Staff	
10. General	

**Performance Appraisal Systems:**

Staff appraisal by the students: The performance of every faculty is appraised by the students once in a month. This helps them to improve their performance in a sustained manner.

The quality of the faculty demands challenging avenues and frontier areas both for the upliftment of individual and the institution, which will be possible only by greater autonomy to our college.

Staff members are also appraised by the HOD to assess the performance and monitor the completion of syllabus.

***Grievance redressal mechanism for faculty, staff and students***

Sl. No.	Name	Position	Category	Profession	Address
1.	Dr.Jayashree Krishnan	Chairman	Professor & Head of the Department	Teaching	Jeppiaar Nagar, Old Mamallapuram Road, Chennai-119
2.	Prof.Muthuchelvi.P	Member	Assistant Professor		
3.	Dr.Nandhinidevi.P	Member	Professor & Head of the Department		
4.	Prof.T.Sasilatha	Member	Assistant Professor		

## V. PROGRAMMES

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

B.E. Computer Science & Engg  
B.E. Electrical & Electronics Engg  
B.E. Instrumentation & Control Engg  
B.E. Electronics & Instrumentation Engg  
B.E. Mechanical Engg  
B.E. Electronics and Communication Engg  
B.Tech Information Technology  
B.Tech Chemical Engg  
B.Tech BioTechnology  
M.E. Applied Electronics  
M.E. Power Electronics  
M.E. Computer Science & Engg  
M.C.A. Master of Computer Applications  
M.B.A. Master of Business Administration

❖ **Name of the Programmes accredited by the AICTE:**

B.E. Computer Science & Engg  
B.E. Electrical & Electronics Engg  
B.E. Instrumentation & Control Engg  
B.E. Electronics & Instrumentation Engg  
B.E. Mechanical Engg  
B.Tech Information Technology  
B.Tech Chemical Engg  
B.E. Electronics and Communication Engg  
B.Tech Biotechnology  
M.C.A. Master of Computer Applications  
M.B.A. Master of Business Administration

## Details for each programme:

S.no	Name of the programme	Number of Seats	Duration	Cut off mark/ rank for admission		Tuition Fee
				Academic year	Percentage of Mark	
1.	<b>B.E. ECE</b>	120	4 years	2008-2009	OC – 98.833-96.833	Rs.40,000
					BC- 98.833-97.667	
					MBC-97.333-95.667	
					SC- 94-90.833	
					ST – 77.833	
				2007-2008	OC – 98.500–97.667	
					BC- 98.167 – 96.167	
					MBC-97.667–94.500	
					SC- 93.250– 88.167	
					ST – 70.333- -	
				2006-2007	OC – 276.31–269.49	
					BC- 271.01 – 264.59	
					MBC-251.84–220.58	
					SC- 228.51– 211.97	
					ST – Nil	
2.	<b>B.E. CSE</b>	120	4 years	2008-2009	OC – 98-97.333	Rs.40,000
					BC- 98.333-93.5	
					MBC- 96-93	
					SC- 90.167-85.667	
					ST – 64.5	
				2007-2008	OC – 98.333–96.500	
					BC- 98.000 – 95.500	
					MBC-95.333–93.167	
					SC- 88.000– 85.667	
					ST – 70.500- -	
				2006-2007	OC- 270.41 - 263.82	
					BC- 269.80 - 260.32	
					MBC-252.92 -164.83	
					SC-237.59 - 208.69	
					ST- Nil	

Mandatory Disclosure as on 27<sup>th</sup> Aug'09

S.no	Name of the programme	Number of Seats	Duration	Cut off mark/ rank for admission		Tuition Fee
				Academic year	Percentage of Mark	
3.	<b>B.E. EEE</b>	120	4 years	2008-2009	OC – 97.5-96.667	Rs.40,000
					BC- 97.667-96.333	
					MBC- 96.5-93.667	
					SC- 88.5-83.167	
					ST – Nil	
				2007-2008	OC – 97.000–94.667	
					BC- 96.167 – 93.667	
					MBC-93.000–89.833	
					SC- 83.000– 76.167	
					ST – Nil	
				2006-2007	OC- 260.27 – 253.61	
					BC- 258.67 – 248.86	
					MBC-244.63 – 227.03	
					SC-195.60 – 186.88	
					ST- Nil	
4.	<b>B.E. EIE</b>	120	4 years	2008-2009	OC – 97.167-95.667	Rs.40,000
					BC- 97.5-91.875	
					MBC- 94.833-90.833	
					SC- 85.667-78	
					ST – Nil	
				2007-2008	OC – 95.500–94.167	
					BC- 95.833 – 91.667	
					MBC-97.375–86.833	
					SC- 80.667- 74.667	
					ST – Nil	
				2006-2007	OC-252.74 – 246.74	
					BC- 251.32 – 218.76	
					MBC-224.87 – 214.07	
					SC-224.87 – 214.07	
					ST- Nil	

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S.no	Name of the programme	Number of Seats	Duration	Cut off mark/ rank for admission		Tuition Fee
				Academic year	Percentage of Mark	
5.	<b>B.E. ICE</b>	60	4 years	2008-2009	OC – 95.667-94.833	Rs.40,000
					BC- 95.167-93.25	
					MBC- 90.667-87.833	
					SC- 83.333-74.5	
					ST – Nil	
				2007-2008	OC – 94.000–91.667	
					BC- 93.833 – 88.833	
					MBC-87.500–84.000	
					SC- 79.667- 66.000	
					ST – Nil	
				2006-2007	OC- 248.41 - 237.80	
					BC- 237.01 - 232.41	
					MBC-237.80 - 205.38	
					SC-166.50 - 137.93	
					ST- Nil	
6.	<b>B.E. Mechanical</b>	120	4 years	2008-2009	OC – 98-96.667	Rs.40,000
					BC- 98.333-95.833	
					MBC- 95.667-92.667	
					SC- 88.667-82.5	
					ST – Nil	
				2007-2008	OC – 96.167–93.167	
					BC- 95.667 – 91.833	
					MBC-91.833–87.000	
					SC- 85.000- 72.333	
					ST – Nil	
				2006-2007	OC-258.04 - 244.88	
					BC-250.16 - 216.28	
					MBC-229.74 - 214.38	
					SC-208.07 - 183.07	
					ST-Nil	

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S.no	Name of the programme	Number of Seats	Duration	Cut off mark/ rank for admission		Tuition Fee
				Academic year	Percentage of Mark	
7.	<b>B.Tech IT</b>	120	4 years	2008-2009	OC – 97.95.667	Rs.40,000
					BC- 97.5-93.875	
					MBC-96.5-93.167	
					SC- 86.833-81	
					ST –Nil	
				2007-2008	OC – 97.000-95.833	
					BC- 96.833-95.000	
					MBC-94.167-92.000	
					SC- 92.500-82.667	
					ST –72.000 ---	
				2006-2007	OC-264.32 – 259.75	
					BC-263.67 – 258.14	
					MBC-259.24 – 239.21	
					SC-225.58 – 184.22	
					ST-185.86	
8.	<b>B.Tech Bio-Tech</b>	60	4 years	2008-2009	OC-95.667-94.667	Rs.40,000
					BC-95.167-85.375	
					MBC-94.333-90.333	
					SC-84-79.5	
					ST- Nil	
				2007-2008	OC-96.833-93.667	
					BC-96.333-91.833	
					MBC-91.000-87.333	
					SC-86.750-72.500	
					ST-Nil	
				2006-2007	OC-265.29 – 253.64	
					BC-263.50 – 242.42	
					MBC-232.42 – 219.51	
					SC-202.89 – 156.06	
					ST-Nil	

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S.no	Name of the programme	Number of Seats	Duration	Cut off mark/rank for admission		Tuition Fee
				Academic year	Percentage of Mark	
9.	<b>B.Tech Chemical</b>	60	4 years	2008-2009	OC-95.333-93.333	Rs.40,000
					BC-96.667-91.833	
					MBC-89-87	
					SC-75.833-72.333	
					ST- Nil	
				2007-2008	OC-95.500-90.667	
					BC-92.333-87.833	
					MBC-93.500-78.667	
					SC-83.667-62.000	
					ST- Nil	
				2006-2007	OC-251.21 - 235.12	
					BC-243.69 - 224.92	
					MBC-202.72- 197.04	
					SC-170.65 - 153.63	
					ST- Nil	
10.	<b>M.E. Applied Electronics</b>	18	2 years	2008-2009	OC-Nil	Rs.45,000
					BC-33.839 -28.42	
					MBC-31.04	
					SC-Nil	
					ST-Nil	
				2007-2008	OC- 37.320-25.330	
					BC-34.560-33.590	
					MBC-28.600	
					SC-30.140	
					ST-Nil	
				2006-2007	OC-Nil	
					BC-42.420 - 27.568	
					MBC-32.594	
					SC-30.682	
					ST-Nil	

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S.no	Name of the programme	Number of Seats	Duration	Cut off mark/rank for admission		Tuition Fee
				Academic year	Percentage of Mark	
11.	<b>M.E. Power Electronics &amp; Drives</b>	18	2 years	2008-2009	OC- 31.991 – 31.939	Rs.45,000
					BC-30.317 – 29.941	
					MBC-Nil	
					SC-Nil	
					ST-Nil	
				2007-2008	OC-Nil	
					BC-33.560-28.030	
					MBC-Nil	
					SC-Nil	
					ST-Nil	
				2006-2007	OC-35.974	
					BC-40.352 - 34.460	
					MBC-26.814	
					SC-35.416	
					ST-Nil	
12.	<b>M.E. CSE</b>	18	2 years	2008-2009	OC-38.434	Rs.45,000
					BC-32.089	
					MBC-29.203 – 7.089	
					SC-Nil	
					ST-Nil	
				2007-2008	OC-40.060-37.300	
					BC-33.940	
					MBC-31.200	
					SC-30.500	
					ST-Nil	
				2006-2007	OC-Nil	
					BC-41.758	
					MBC-41.142 - 35.280	
					SC-35.142	

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S.no	Name of the programme	Number of Seats	Duration	Cut off mark/rank for admission		Tuition Fee
				Academic year	Percentage of Mark	
13.	<b>M.E. CAD</b>	18	2 years	2007-2008	OC-31.090	Rs.45,000
					BC-30.870-24.760	
					MBC-Nil	
					SC-Nil	
					ST –Nil	
				2006-2007	MBC -34.200	
14.	<b>Master of Computer Applications</b>	120	3 years	2008-2009	OC- 39-35.75	Rs.30,000
					BC- 37-31.75	
					MBC-31.25 – 28.75	
					SC-22.75 – 21	
					ST- Nil	
				2007-2008	OC- 45.000-41.330	
					BC- 45.330-20.330	
					MBC-33.670 – 32.330	
					SC-26.000-24.000	
					ST- 16.000	
				2006-2007	OC- 40.667 – 33.333	
					BC- 40.000 – 17.000	
					MBC-31.333 – 25.667	
					SC-23.000 – 15.000	
ST- Nil						

S.no	Name of the programme	Number of Seats	Duration	Cut off mark/rank for admission		Tuition Fee
				Academic year	Percentage of Mark	
15.	<b>Master of Business Administration</b>	120	2 years	2008-2009	OC-47.4 – 40.8	Rs.30,000
					BC- 41.2 -36.4	
					MBC-37.6-34.6	
					SC- 35.2 – 29.2	
					ST- Nil	
				2007-2008	OC- 40.500-37.000	
					BC- 38.750 – 35.500	
					MBC-31.000 – 29.500	
					SC-31.250 – 26.500	
					ST- 8.000	
				2006-2007	OC- 44.500 -38.500	
					BC- 45.750 -35.500	
					MBC-34.750-31.500	
					SC-30.250 - 27.75	
					ST- 32.500	

### Placement facilities

#### Activities of Placement Cell:

- The placement cell organizes the campus interview for B.E.,B.Tech., M.E., M.C.A., M.B.A.The cell is maintaining a very strong database of all our students from various disciplines.
- The placement cell is monitored by a professor who continuously monitors the human resource requirements of the leading companies around the country as and when it arises.
- The placement officer will be continuously sending the list of students to the potential recruiters. Many leading companies send their invitation to our college regularly to participate in campus selection.
- All leading companies are participating in our campus recruitment program every year.
- The placement also conducts Career Development programme which is unique of its kind in India guides our students in selecting their career and provides complete training to them right from the preparation of their interview and its techniques. Aptitude Test, Group Discussion, Test of reasoning and mock interviews is conducted.

- Campus placement in last three years with minimum salary, maximum salary and average salary

Year	No. of students placed	Rupees lakhs per annum		
		Max. Salary	Min. salary	Average Salary
2008-2009	677	6.5	2.4	3.3
2007-2008	810	6.1	2	3.2
2006-2007	604	3.8	2.1	2.65

❖ Name and duration of programme(s) having affiliation/collaboration with Foreign University(s)/Institution(s) and being run in the same Campus along with status of their AICTE approval. If there is foreign collaboration, give the following details:

NIL

#### VI. Faculty

- ❖ List of permanent faculty members:

Branch	Details of the faculty available				
	Professors	Asst.Professors	Lecturers	Total	Others/Visiting faculty
CSE(UG+PG)	2+1	9+3	13	28	-
ECE(UG+PG)	2+1	15+3	7+0	28	-
EEE(UG+PG)	2+1	14+3	8+0	28	-
MECH(UG+PG)	3+3	6+1	15+0	28	-
ICE	1	5	4	10	-
EIE	2	11	11	24	-
CHEM	2	4	5	11	-
IT	2	7	15	24	-
BIOTECH	1	6	5	12	-
MBA	3	7	6	16	-
MCA	2	9	13	24	-
I Year (Science and Humanities & General Engineering)					
General Engg	2	8	13	60	-
Science & Humanities	4	7	26		-

#### VII. PROFILE OF PRINCIPAL AND FACULTY: **Attached Separatly**

#### VIII. FEE

- ❖ Details of fee, as approved by State fee Committee, for the Institution.

	Tuition Fess (as per the recommendations of the Govt.)
B.E/B.Tech	Rs.40,000/- Per annum
M.E	Rs.45,000/- Per annum

- ❖ Time schedule for payment of fee for the entire programme -  
- **Beginning of the academic year**
- ❖ No. of Fee waivers granted with amount and name of students

**FULL FEE IS WAIVED FOR THE FOLLOWING STUDENTS**

S.No	Name of the Fee waivers	Branch	S.No	Name of the Fee waivers	Branch
1	Abinaya S	II B.E. Engg.& B.Tech	36	Vijayalakshmi D	II B.E. Engg.& B.Tech
2	Aishwarya T		37	Arunaa Bhavani A G	
3	Anjugam R		38	Arunprakash A	
4	Haripriya N		39	Divya V	
5	Mariam Rizvi H		40	Gayathri M	
6	Nandini Ravi		41	Harsha Vardhan B	
7	Kalpagam S		42	Karthick V	
8	Kannan A		43	Kirubakaran V	
9	Mutharasu L C		44	Nishitha R	
10	Raja Rajeshwari G		45	Preethi S	
11	Samyukta V		46	Satheesh S	
12	Vivek B		47	Shakthi Bose	
13	Deepika S		48	Uma K	
14	Harini R		49	Aarathy R	
15	Kirubashree K		50	Aishwarya C	
16	Manoj Raj M		51	Ashwini N S	
17	Nandini B		52	Karthick P	
18	Niranjana S		53	Manju Bhashini A	
19	Omprakash S		54	Manockiya V	
20	Shanu S		55	Nisha R	
21	Sowmya Padmanaban		56	Prasanna Karthikm	
22	Sujitha S		57	Ramakrishnan N	
23	Vaishnavy G		58	Sathish Kumar M	
24	Venkatesh S		59	Vinoth S	
25	Aishwarya R		60	Viswambara S	
26	Anandhi P		61	Ajorin Deva Nesalin J	
27	Dhivya R		62	Aparna R	
28	Kannan L		63	Deepika S	
29	Karthika M A		64	Poornima S	
30	Madhumitha S		65	Ragavendran P S	
31	Pushpa Latha P		66	Siva S	
32	Sathish Kumar M S		67	Amsaveni H	
33	Subitha I		68	Aravindhan R R	
34	Suppriya R		69	Janani A T	
35	Vidya Sridharan		70	Kishore Kumar V K	

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S.No	Name of the Fee waivers	Branch	S.No	Name of the Fee waivers	Branch
71	Lakshmi Lavanya P	II B.E. Engg.& B.Tech	110	Mohammed Fayaz	III B..E. Engg.& B.Tech
72	Muthulakshmi R		111	Janet	
73	Nandha Kumar B		112	Akalya	
74	Prasath Kumard		113	Udaya Shankar	
75	Priyanka Jain R		114	SuryaNarayanan	
76	Sherly Vinothiny J		115	Vivek	
77	Suganthy N		116	Karthikeyan	
78	Thirumalai Kumara Samy M		117	Saravana Krishnan	
79	Jeyabalaganesh G		118	RajaPrasad	
80	Karthik Prabhu R S		119	Poongothai.E	
81	Muthukumar J	120	Pechiyammal.P		
82	Parthasarathy K	121	Durga.M		
83	Prabhu D	122	Jovin P Vincent		
84	Prithiv G Mohan	123	Anbu kumar		
85	Ramesh Kumar S	124	Aneez husain		
86	Siva Kumar K	125	Sajana.C		
87	Srikanth G	126	Rupa.K		
88	Vignesh R	127	Johnsi rossariomary.S		
89	Vignesh T	128	Rukmani.R		
90	Vijayprsanth D	129	Hemalatha.G		
91	Arun Kumar T	130	Cristy cathrine.J		
92	Padmanaban A	131	Bhaskar.S		
93	Vivekandan T	132	Gayathri devi.M		
94	Faizal Mohamed A	133	Meena.R		
95	Syed Ibrahim S P	134	Renuka.R		
96	D. V. Sineka	135	Priya.A		
97	Rajkumar	136	Parkavi.N		
98	Uma	137	Adithya elango		
99	Sasirekha	138	Sivashankari.P		
100	Vivekanandan	139	Hari balu		
101	Vijayasarithi	140	Siva balan.N		
102	SenthilKumar	141	Madhan Yadav		
103	Jenifer Elizabeth	142	Hariharan.T		
104	Shakunthala Devi	143	Ramesh kumar		
105	Bharath	144	Malkar Raiz Kadar.S		
106	Amith	145	Santhosh Kumar.P		
107	Teby Auguestin	146	Manoj kumar.M		
108	Jabir Ahamed	147	Hemanath kirulkar		
109	Ajay Kumar	148	Nilavarasan.A		

- ❖ Number of scholarship offered by the institute, duration and amount

**- Merit Scholarship for students of Rs.1.72 Crore**

- ❖ Criteria for fee waivers/scholarship

**- Criteria for Merit scholarship of Rs.1.72 Crore**

DEPARTMENT	SLAB MARK						
CSE	90	89	88	87	86	85	-
ECE	92	91	90	89	88	87	-
EEE	91	90	89	88	87	86	85
MECH	91	90	89	88	87	86	-
ICE	88	87	86	85	84	83	82
EIE	89	88	87	86	85	84	83
CHEM	91	90	89	88	87	-	-
BT	90	89	88	87	86	85	-
IT	89	88	87	86	85	-	-
ME-AE	87	86	85	84	83	-	-
ME-PE	88	87	86	85	84	-	-
ME-CSE	89	88	87	86	85	-	-
<b>AMOUNT</b>	<b>75000</b>	<b>60000</b>	<b>45000</b>	<b>40000</b>	<b>35000</b>	<b>30000</b>	<b>25000</b>

**Criteria for fee waivers**

- The student who excel in sports , economically backward and eligible girl student.

**For the academic year 2009 - '10**

- ❖ Estimated cost of Boarding and Lodging in Hostels - **optional**

**-Estimated cost of boarding and lodging (inclusive of room rent, mess, Electricity, washing and ironing charges) - Rs.35, 000**

**OR**

- ❖ Day Scholar - **optional**  
- **Estimated cost for transport ,breakfast , lunch & snacks - Rs.35, 000**
- ❖ Placement training, personality and Carrier development programmes - **optional** - **Rs.7,000**

## IX. ADMISSION

❖ Number of seats sanctioned with the year of approval

COURSE	Number of seats sanctioned(2008-09)	Year of Approval
B.E. ECE	120	1994
B.E. CSE	120	1996
B.E. ICE	60	1994
B.E. EEE	120	1996
B.E. EIE	120	1999
B.E. Mechanical	120	1998
B. Tech. Chemical	60	1994
B. Tech. IT	120	1997
B. Tech. Biotech	60	2002
M.E(P.E & D)	18	2003
M.E(A.E)	18	2003
M.E(CSE)	18	2004

❖ Number of students admitted under various categories each year in the last three years.

## B.E/B.Tech For the Academic Year 2009 - 2010

Sl.No.	Branch	OC	BC	MBC	SC	ST	Total
1.	CSE	<b>Admission not yet over</b>					
2.	ECE						
3.	EEE						
4.	ICE						
5.	EIE						
6.	MECH						
7.	IT						
8.	CHEM						
9.	BT						

**B.E/B.Tech For the Academic Year 2008 - 2009**

Sl.No.	Branch	OC	BC	MBC	SC	ST	Total
1.	CSE	56	64	15	11	01	147
2.	ECE	55	59	17	11	01	143
3.	EEE	46	63	19	11	-	139
4.	ICE	22	22	12	11	-	67
5.	EIE	42	71	12	11	-	136
6.	MECH	50	69	20	10	-	149
7.	IT	34	77	14	10	-	135
8.	CHEM	31	22	12	06	-	71
9.	BT	30	29	06	04	-	69

**B.E/B.Tech For the Academic Year 2007 - 2008**

Sl.No.	Branch	OC	BC	MBC	SC	ST	Total
1.	CSE	43	66	15	9	1	134
2.	ECE	46	64	17	10	1	138
3.	EEE	46	56	17	9	0	128
4.	ICE	17	28	10	5	0	60
5.	EIE	41	57	20	13	0	131
6.	MECH	63	46	13	11	0	133
7.	IT	35	66	14	10	1	126
8.	CHEM	22	22	12	6	0	62
9.	BT	23	24	9	7	0	63

**M.E For the Academic Year 2009 - 2010**

Sl.No.	Branch	OC	BC	MBC	SC	ST	Total
1.	CS	<b>Admission not yet over</b>					
2.	AP						
3.	PE						
4.	CAD						

**M.E For the Academic Year 2008 - 2009**

Sl.No.	Branch	OC	BC	MBC	SC	ST	Total
1.	CS	7	9	2	-	-	18
2.	AP	2	13	2	1	-	18
3.	PE	2	4	-	-	-	6
4.	CAD	1	2	-	-	-	3

**M.E For the Academic Year 2007 - 2008**

Sl.No.	Branch	OC	BC	MBC	SC	ST	Total
1.	CS	4	11	2	1	0	18
2.	AP	5	8	1	1	0	15
3.	PE	0	10	2	0	0	12
4.	CAD	1	2	0	0	0	3

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

**B.E/ B.Tech**

S. No.	Year	No. of applications received	No. of Student Admitted
1.	2008 - 2009	1290	648
2.	2007 - 2008	1206	560

**M.E**

S. No.	Year	No. of applications received	No. of Student Admitted
1.	2008 - 2009	65	29
2.	2007 - 2008	61	31

**X ADMISSION PROCEDURE**

- ❖ Mention the admission test being followed, name and address of the Test Agency and its URL (website).

**B.E/ B.Tech**

Rank List based on Plus two marks (Normalization method)  
 - Published by Anna University ([www.annauniv.edu](http://www.annauniv.edu))  
 - Published by consortium ([www.tnsfconsortium.org](http://www.tnsfconsortium.org))

**ME**

TANCET - Tamil Nadu Common Entrance Test ([www.annauniv.edu](http://www.annauniv.edu))  
 CET - Common entrance Test conducted by consortium ([www.tnsfconsortium.org](http://www.tnsfconsortium.org))

- ❖ Number of seats allotted to different Test Qualified candidates separately [AIMCET/CET (State conducted test/University tests)/ Association conducted test]

	Number of seats allotted
<b>B.E/ B. Tech</b>	<b>Total No. of Seats -Government Quota 50% &amp; Management Quota 50%</b>
<b>M.E</b>	<b>Total No. of Seats -Government Quota 30% &amp; Management Quota 70%</b>

- ❖ Calendar for admission against management/vacant seats:
  - Last date for request for applications  
**B.E/ B. Tech**  
**19<sup>th</sup> July 2009**
  - Last date for submission of application  
**B.E/ B. Tech**  
**17<sup>th</sup> Aug 2009 as given by consortium**
  - Dates for announcing final results:  
**For B.E./B.Tech Rank List will be announced on 31<sup>st</sup> Aug 2009**
  - Release of admission list (Main list and waiting list should be announced on the same day) :  
**Three days after announcement of Rank List.**
  - Date for acceptance by the candidate (time given should in no case be less than 15 days):  
**Maximum of 15 days after the release of admission list.**
  - Last date for closing of admission:  
**Last date given by Anna University**
  - Starting of the Academic session:  
**As per Anna University instruction.**
  - The waiting list should be activated only on the expiry of date of main list:
  - The policy of refund of the fee, in case of withdrawal, should be clearly notified:  
**As per Government norms.**

#### **XI. Criteria and Weightages for Admission**

- ❖ Describe each criteria with its respective weightages i.e. Admission Test, marks in qualifying examination etc.  
**Selection to I year B.E/B.Tech Course is based on the normalized marks for Maths, Physics and Chemistry in the Qualifying examination.**  
  
**Selection to I year ME Course is based on merit and due weightage will be given to the following.**
  - i) UG Degree Marks - 100 Marks
  - ii) TANCET Score - 100 Marks
- ❖ Mention the minimum level of acceptance, if any –
- ❖ Mention the cut-off levels of percentage & percentile scores of the candidates in the admission test for the last three years.

**B.E/B.Tech - For the academic year 2008-2009**

BRANCH	OC	BC	MBC	SC	ST
CSE	98 to 97.333	98.333 to 93.5	96 to 93	90.167 to 85.667	64.5
ECE	98.833 to 96.833	98.833 to 97.667	97.333 to 95.667	94 to 90.833	77.833
Bio-tech	95.667 to 94.667	95.167 to 85.375	94.333 to 90.333	84 to 79.5	-
IT	97 to 95.667	97.5 to 93.875	96.5 to 93.167	86.833 to 81	-
Mechanical	98 to 96.667	98.333 to 95.833	95.667 to 92.667	88.667 to 82.5	-
EEE	97.5 to 96.667	97.667 to 96.333	96.5 to 93.667	88.5 to 83.167	-
EIE	97.167 to 95.667	97.5 to 91.875	94.833 to 90.833	85.667 to 78	-
ICE	95.667 to 94.833	95.167 to 93.25	90.667 to 87.833	83.333 to 74.5	-
Chemical	95.333 to 93.333	96.667 to 91.833	89 to 87	75.833 to 72.333	-

**B.E/B.Tech - For the academic year 2007-2008**

BRANCH	OC	BC	MBC	SC	ST
CSE	98.333 to 96.500	98.000 to 95.500	95.333 to 93.167	88.000 to 85.667	70.500
ECE	98.500 to 97.667	98.167 to 96.167	97.667 to 94.500	93.250 to 88.167	70.333
Bio-tech	96.833 to 93.667	96.333 to 91.833	91.000 to 87.333	86.750 to 72.500	---
IT	97.000 to 95.833	96.833 to 95.000	94.167 to 92.000	92.500 to 82.667	72.000
Mechanical	96.167 to 93.167	95.667 to 91.833	91.833 to 87.000	85.000 to 72.333	---
EEE	97.000 to 94.667	96.167 to 93.667	93.000 to 89.833	83.000 to 76.167	---
EIE	95.500 to 94.167	95.833 to 91.667	97.375 to 86.833	80.667 to 74.667	---
ICE	94.000 to 91.667	93.833 to 88.833	87.500 to 84.000	79.667 to 66.000	---
Chemical	95.500 to 90.667	92.333 to 87.833	93.500 to 78.667	83.667 to 62.000	---

**B.E/B.Tech - For the academic year 2006-2007**

BRANCH	OC	BC	MBC	SC	ST
CSE	270.41 to 263.82	269.80 to 260.32	252.92 to 164.83	237.59 to 208.69	---
ECE	276.31 to 269.49	271.01 to 264.59	271.84 to 220.58	228.51 to 211.97	---
Bio-tech	265.29 to 253.64	263.50 to 242.42	232.42 to 219.51	202.89 to 156.06	---
IT	264.32 to 259.75	263.67 to 258.14	259.24 to 239.21	225.58 to 184.22	185.86
Mechanical	258.04 to 244.88	250.16 to 216.28	229.74 to 214.38	208.07 to 183.07	---
EEE	260.27 to 253.61	258.67 to 248.86	244.63 to 227.03	195.60 to 186.88	---
EIE	252.74 to 246.74	251.32 to 218.76	224.87 to 214.07	190.17 to 171.15	---
ICE	248.41 to 237.80	237.01 to 232.41	237.80 to 205.38	166.50 to 137.93	---
Chemical	251.21 to 235.12	243.69 to 224.92	202.72 to 197.04	170.65 to 153.63	---

**ME - For the academic year 2008-2009**

BRANCH	OC	BC	MBC	SC	ST
CSE	38.434	32.089	29.203 to 27.089	-	-
AE	-	33.839 to 28.42	31.04	-	-
PE & D	31.991 to 31.939	30.317 to 29.941	-	-	-

**ME - For the academic year 2007-2008**

BRANCH	OC	BC	MBC	SC	ST
CSE	40.060 to 37.300	33.940	31.200	30.500	---
AE	37.320 to 35.330	34.560 to 33.590	28.600	30.140	---
PE & D	---	33.560 to 28.030	---	---	---
CAD	31.090	30.870 to 24.760	---	---	---

**ME - For the academic year 2006-2007**

BRANCH	OC	BC	MBC	SC	ST
CSE	---	41.758	41.142 to 35.280	35.142	---
AE	---	42.420 to 27.568	32.594	30.682	---
PE & D	35.974	40.352 to 34.460	26.814	35.416	---
CAD	---	---	34.200	---	---

- ❖ Display marks scored in Test etc. and in aggregate for all candidates who were admitted (2009-2010)

Admission Procedure will be started only after the publishing of Rank List by consortium – Probably after the first week of September 2009.

**XII. Application form**

- Government Application forms available at [www.annauniv.edu/TNEA2009/](http://www.annauniv.edu/TNEA2009/)
- Consortium Application forms available at [www.tnsfconsortium.org](http://www.tnsfconsortium.org)

**Attached separately**

**XIII. LIST OF APPLICANTS- (2009-2010)**

Admission procedure will be started only after the publishing of Rank List by Consortium – Probably after the first week of September 2009.

**XIV. RESULTS OF ADMISSION UNDER MANAGEMENT SEATS/VACANT SEATS**

- ❖ Composition of selection team for admission under Management Quota with the brief profiles of members (This information be made available in the public domain after the admission process is over)

**B.E Admission Committee members**

1. Director
2. Principal
3. Head of respective Engineering Departments
4. Professors of respective Engineering Departments

- ❖ Score of the individual candidates admitted arranged in order of merit –

Admission Procedure will be started only after the publishing of Rank List by Consortium – Probably after the first week of September 2009.

**xv. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE****◆ LIBRARY:**

S.NO	DEPT	TITLES	VOLUMES
1.	CSE	3290	16663
2.	IT	3133	15669
3.	ECE	3445	17487
4.	ICE	1611	7687
5.	EIE	1639	10897
6.	EEE	2905	16591
7.	MECH	2153	13695
8.	CHEM	1716	8370
9.	SCI & HUM	607	1890
10.	BIOT	1150	5967
11.	ME-POWER	329	1246
12.	ME-APPLIED	392	1529
13.	ME-CSE	272	1001
14.	ME-CAD	167	647
15.	GENERAL		657
		<b>22,809</b>	<b>1,19,996</b>

S.NO	DEPT	TITLES	VOLUMES
1.	MBA	<b>3361</b>	<b>13380</b>

S.NO	DEPT	TITLES	VOLUMES
1.	MCA	<b>2009</b>	<b>11156</b>

GRAND TOTAL	TITLES	VOLUMES
	<b>28,179</b>	<b>1,44,532</b>

**Number of Reference Books : 5,356**

**Total Number of Periodicals : 4289**

**1. Indian : 176**

**2. Foreign : 4113\***

**\* Online Journals through INDEST-AICTE : IEL (IEEE), ASME, SPRINGERLINK, DEL (Digital Engineering Library), ESDU (Engineering Sciences Data Unit) & ABI Inform Complete**

Back Volumes : IEEE Journals from 1998 Onwards

Total Number of Student Project Reports : 1636

Total Number of Video Compact Discs : 119

**Encyclopedias:**

1. Encycloepadia of Chemical Technology : 27 Volumes
2. Encycloepadia of Britannica : 32 Volumes
3. Encycloepadia of Americana : 30 Volumes
4. McGraw Hill Encycloepadia of Science & Technology : 20 Volumes
5. Encycloepadia of Practical Management : 20 Volumes
6. Encycloepadic Dictionary of Environmental Pollution : 5 Volumes
7. Space Encycloepadia : Single Volume
8. Encyclopedia of Practical Management – Ratan,Anurag : 6 Volumes
9. McGraw Hill Concise Encycloepadia of Science & Technology : Single Volume
10. Encyclopedia of Management : 7 Volumes
11. Computer Desk Top Encycloepadia : Single Volume
12. McGraw Hill Circuit Encycloepadia Troubleshooting : 2 Volumes
13. Environmental Encycloepadia : Single Volume
14. Bioresource Technology Encycloepadia : Single Volume
15. Encycloepadia of Medical Devices & Instrumentation : 6 Volumes
16. Wiley Encycloepadia of Telecommunications : 5 Volumes
17. Encyclopedia of Software Engineering : 2 Volumes

❖ **LABORATORY:**➤ **List of Major Equipment / Facilities & Experimental Setup**UNDER GRADUATE COURSES:**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING****1. Electron Devices Laboratory****MAJOR EQUIPMENTS/FACILITIES**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	300V Regulated Power Supply (Rathna)	08
2.	Regulated Power Supply	33
3.	Function Generator	05
4.	CRO	02

**EXPERIMENTAL SETUP**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Digital IC Trainer Kit	05
2.	Digital Multi Meter	10
3.	Decade Resistance Box	05
4.	Moving Coil Voltmeter	17
5.	Volt meter	92
6.	Moving Coil Ammeter	30
7.	Moving Iron Meter	05
8.	Ammeter	90

**2. Electronic Circuits Laboratory****MAJOR EQUIPMENT/FACILITIES**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Regulated Power Supply	35
2.	Function Generator	25
3.	30MHz CRO	17

**EXPERIMENTAL SET UP**

S.No.	NAME OF THE EQUIPMENT	AVAIL QTY.
1.	Transformer with mount	15
2.	Decade Resistance Box	15
3.	Decade Capacitance Box	45
4.	Decade Inductance Box	45
5.	Digital LCR Meter	04
6.	Digital Multimeter	15

**3. Communication Engineering Laboratory****MAJOR EQUIPMENTS/FACILITIES**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Regulated Power Supply	15
2.	Function Generator	19
3.	Palmscope	01
4.	20MHz DSO	01
5.	Spectrum Analyzer	02
6.	Oscilloscope	15
7.	100MHz Mixed Signal Oscilloscope	01
8.	Output power meter – 100W	02

**EXPERIMENTAL SET UP**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Video Amplifier Trainer Kit	01
2.	PAL Trainer Module	01
3.	AM Modulation & Demodulation	02
4.	FM Modulation & Demodulation	02
5.	PCM Communication Trainer Module	01
6.	Envelope Detector	02
7.	Microphone & Loudspeaker	01
8.	Video Amplifier Trainer	01
9.	Radio Receiver Kit	01
10.	Transducer Trainer Kit	01
11.	Pulse Modulation Module	01
12.	PLL Trainer Module	01
13.	DSB/SSB AM Transmitter & Receiver	01
14.	FM Transmitter & Receiver	01
15.	PAM,PPM,PWM Modem	01
16.	TDM Pulse AM / Demodulation	01
17.	Delta, Adaptive Demodulation	01
18.	AM /FM Transmitter & Receiver Kit	02
19.	Noise Power Spectrum Density Kit	02
20.	PCM Transmitter Kit	02
21.	PC Demodulation Kit	01
22.	Decade Capacitance Box	05
23.	Decade Inductance Box	05
24.	Modular RF Commn. Training Lab	01
25.	10MHz-1.15GHz RF Signal Source	04
26.	10Mhz-500MHz RF Signal Detector Model	02
27.	Network Analyzer-Add on Module Model	01
28.	86-860MHz Advanced Antenna Training System	02

**4. Linear & Digital Integrated Circuit Laboratory****MAJOR EQUIPMENTS/FACILITIES**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Regulated Power Supply	23
2.	Function Generator	15
3.	Oscilloscope	06

**EXPERIMENTAL SET UP**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Digital IC Trainer Kit	32
2.	Analog & Digital IC Tester	01
3.	Decade Resistance Box	05
4.	Digital Multi Meter	18

**5. Microprocessor & Microcontroller Laboratory****MAJOR EQUIPMENTS/FACILITIES**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	30MHz Oscilloscope	03
2.	8085 Microprocessor Trainer Kit with Power Supply	49
3.	8086 Microprocessor Trainer Kit with Power Supply	30
4.	Z – 80 Microprocessor Trainer Kit with Power Supply	02
5.	68,000 Microprocessor Trainer Kit with Power Supply	02
6.	8031 Microcontroller Kit	02
7.	8051 Microcontroller with Power Supply & FG	13

**EXPERIMENTAL SET UP**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Interface Board of different applications	114
2.	Universal Programmer	01
3.	LVDT Position Trainer	01
4.	μP Based DC Motor Controller	01
5.	μP Based AC Motor Controller	01
6.	SMPS Trainer Board	01
7.	High Freq. DC to DC Converter Trainer	01
8.	DC Motor speed measurement & control module	04
9.	ADC & DAC measurement & Control module	02

**6. Microwave & Optical Laboratory****MAJOR EQUIPMENTS / FACILITIES**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Function Generator	09
2.	20MHz CRO	12
3.	Klystron Power Supply	04
4.	Gunn Power Supply	04
5.	M-100 Fiber Optical Power Meter	03
6.	Fiber Optical LED Power Source	05
7.	Polarimeter PA530-EC	01
8.	Polarization Controller FBR05	01
9.	Soleil-Babinet Compensator SBC-IR	01
10.	DFB Fibre Coupled Laser Source S3FC1310	02

**EXPERIMENTAL SETUP**

S.No.	NAME OF THE EQUIPMENT	AVAIL. QTY.
1.	X-Band Microwave bench	06 sets
2.	J-Band Microwave bench	01set
3.	Fiber Optic Training Lab. Kits (Falcon)	01 Set
4.	Fiber Optic Link-E Trainer Kit (Falcon)	01
5.	Fiber Optic Link-D Trainer Kit (Falcon)	01
6.	AL-DL Analog & Digital Link for plastic Fiber (Falcon)	01 Set
7.	Fiber Optic Link-E Trainer Kit (Falcon)	01

**7. DSP & VLSI Laboratory****MAJOR EQUIPMENTS / FACILITIES**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	DSP Trainer Kit TMS 320C 5402 with CD	15
2.	Spartan-II Development Kit	01
3.	CPLD Trainer Kit	01
4.	Xilinx Foundation 4.2i ISE1# (ET-US-ISE-FM)	07 CDs
5.	VLSI Design Suite: (Plus Edition) * A bundle of <b>5 User</b> Active HDL-VHDL plus edition network licence for 5 years. * Single user Synplify Pro Floating for 5 years	02 CDs 02 USB Locks
6.	Multi Sim 8 Education <b>10 Users.</b>	02 CDs
7.	Ultiboard 7 Education power ful PCB Layout tool <b>5 Users.</b>	01 CD
8.	Pentium P4, 2.4GHz CPU with Mother Board, 256MB DDR RAM, 1.44MB FDD, 40GB HDD, 15" Color Monitor, 104 Keyboard & Optical Mouse.	12
9.	Pentium P4, 2.4GHz CPU with Mother Board, 128MB SDR RAM, 1.44MB FDD, 40GB HDD, 15" Color Monitor, 104 Keyboard & Mouse (Samsung Combo Drive-1, FDD-7).	10

**EXPERIMENTAL SET UP**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Pentium P4, 2.4GHz CPU with Mother Board, 256MB DDR RAM, 1.44MB FDD, 40GB HDD, 15" Color Monitor, 104 Keyboard & Optical Mouse.	12
2.	Pentium P4, 2.4GHz CPU with Mother Board, 128MB SDR RAM, 1.44MB FDD, 40GB HDD, 15" Color Monitor, 104 Keyboard & Mouse (Samsung Combo Drive-1, FDD-7).	10

**8. Networking Lab****MAJOR EQUIPMENTS / FACILITIES**

S.No.	NAME OF THE EQUIPMENT	QTY.
1.	Software(ViLAN-SoftRtSim) Network fundamental through animation Encryption and decryption Star,Bus & Ring Topologies Ethernet LAN protocols. User selectable packet size. Manual Error generation. Sample C programs files provided Real time Interface	25 user
2.	Network Simulator (NetSim Academic version 2.0) <b>Protocols:</b> Aloha, slotted Aloha, Token Bus, Token Ring, Ethernet hub, Ethernet switch, wireless LAN, TCP, UDP, Router Net protocol – Real time packet capture ,network programming exercises in C/C++ /Java, 26 exercises including, ARP CIDR, Cryptography distance codes, Framing sequence, MLMA, pc to pc communication, scheduling, shortest path, transmission flow control, animated basics for all protocols	15 user
3.	Pentium P4, 3.4GHz CPU, D101GGLL original Mother Board, 512MB DDR RAM, 80GB HDD, 15" SAMSUNG Color Monitor, MS Internet Keyboard, Optical Mouse & P4 Cabinet with SMPS.	15 no.s

**EXPERIMENTAL SETUP**

<b>S.No.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QTY.</b>
1.	LAN Trainer (ViLAN-01A) <u>A1. VILAN-01A</u> 1) 3Nos of NIC Cards & One Network Emulator 2) Each Network Emulator provides 9 nodes 3) 5 Nos 20 * 4 LCD for display all information's 4) 2 switches for frame and bit error generation A2. Serial- to- serial communication for two pcs A3. Parallel – to – parallel communication for two pcs A4. Wireless LAN protocol study module	4 sets
2.	Network Interface unit (kit based) containing i) MCS51 Microcontroller based nodes -12 no.s ii) Wireless modules-4 no.s iii) RS232 to RS485 Interface card - 4 no.s iv) UE Token bus analyzer software, UE Token ring analyzer software UE wireless LAN monitor software -4 CDs v) 8-bit parallel cable - 4 no.s vi) RS232 cable for serial communication - 4 no.s vii) RS232 downloadable cable - 4 no.s viii) RS232 LAN cable-4 no.s ix) Token bus cable - 4 no.s x) Token ring cable -4 no.s xi) SMPS power supply – 8 no.s xii) User/lab experiments - 4 no.s	4 sets

**DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING****MAJOR EQUIPMENTS/FACILITIES**

S.No	NAME EQUIPMENTS	QTY
1.	Closed loop temperature control	1
2.	Closed loop pressure control	1
3.	Integrated level flow control	1
4.	Instrumentation & transducer trainer kit	1
5.	PLC trainer based on simatic S5-100v with cpu103 with 4 manuals	1
6.	Cascade control trainer	1
7.	Pneumatic P+I controller	1
8.	Matlab software	1
9.	Pressure Transmitter	1
10.	Uninterrupted power supply	1
11.	Microprocessor based UV visible spectrophotometer	1
12.	DCS trainer system	3
13.	Siemen's D.C drive trainer with analog control & angle control	1
14.	Temperature Calibrator	1
15.	Magnetic flow meter	1
16.	Heat exchanger	1
17.	6 channel Recorder	1
18.	Control valve trainer	1
19.	Digital storage oscilloscope	1
20.	Matlab7 software R(14)	1
21.	SIMENS PLC S7 CPU(226)	1
22.	<b>Xeon server</b> 3 GHZ processor . 2 GB RAM 2*80 HDD	1
23.	1) Optical fiber trainer (PSD- 7ps accessories )	1
	2) FOPM 101 (850nm) –Light Source	1
	3) FOPM 102 Power Meter With 850/1300/1550nm Calibration	1
	4) LED MODEL (850nm)	1
	5)PD model (FODM-100)	1
	6) 1550nm LD Module (consist of LD unit (FOSM U 1000), LD driver (FOSM- D600) for characteristics study )	1
	7) APD Module (FODM200)	1
24.	BCK 120& BSK40ST Connocterisation kit and uv & Mechanical Splicing kit	1
25.	LABVIEW SOFT WARE 8.5 FOR (50USER)	1
26.	Voltage Base DAQ System NI USB6251	1
27.	First order and system real time liquid level System	1
28.	Feed forward control	1

**1. Process Control Lab****EXPERIMENTAL SETUP**

S.No	Name Of The Equipment	Qty
1.	Closed loop temperature control loop	1
2.	Closed loop pressure control loop	1
3.	Integrated level flow control	1
4.	Control value based expt set up (model : itb-PCS05)	1
5.	Flapper value demo system	1
6.	Heat exchanger (computerized)	1
7.	Cascade control trainer	1
8.	Pneumatic P+I controller	1
9.	Magnetic flow meter	1
10.	YOKOGAWA make pre. transmitter	1
11.	Differential pre. transmitter	1
12.	Furnace System	1
13.	Interaction /Non- Interaction Trainer	1
14.	Control valve trainer	1
15.	“YOKOGAWA make 6 channel Recorder	1
16.	DCS trainer system DCS trainer system support service	3
17.	PLC trainer	1
18.	I/P to P/I Converter	1
19.	PLC S7-200 (SIEMENS)	1
20.	Seven segment display	1
21.	Fan control simulator	1
22.	Tank level control simulator	1
23.	Relay unit with 8 relay simulator	1
24.	Pneumatic circuit trainer	1
25.	Traffic light control trainer	1
26.	Automation bottle filling system	1
27.	PCI Based high speed data acquisition card	1
28.	2Channel DAC interface board	1
29.	8/16 Channel ADC interface card	1
30.	Analog PID controller	1
31.	Digital PID controller	1
32.	Multivariable system	1
33.	FOTR -300 -2 Mbps digital MM GF Link with digital transmitter (FOTX-00),receiver (FORX-300)100m MM ST connctorised	1
34.	1)ELED –GF -1300nm :1300nm ELED SM Glass fiber in ST Receptacle	1
35.	2) PD –GF –GE :1300nm PD MM Glass fiber in ST Receptacle	1
36.	Voltage based DAQ System	1
37.	First order and system real time liquid level System	1
38.	Feed forward control	1

**2. Measurements and Instruments Lab****EXPERIMENTAL SETUP**

<b>S.No</b>	<b>Name Of The Equipment</b>	<b>Qty</b>
1.	Digital stroboscope	2
2.	Load cell with load indicator	1
3.	Digital transducer with digital indicator	1
4.	Digital PH meter with electrode	1
5.	Temperature exp.setup & Thermocouple	1
6.	strain gauge Digital indicator	1
7.	Angular displacement	1
8.	Kelvin double bridge	1
9.	Anderson bridge	1
10.	Hay's bridge	1
11.	Desauty's Bridge	1
12.	Schering's Bridge	1
13.	3 Wire RTD in a wheat stone bridge	1
14.	2 Wire RTD in a wheat stone bridge	1
15.	Photo Diode	1
16.	Photo Transistor	1
17.	Micro controller trainer	1
18.	Optical pyrometer	1
19.	Digital ph meter	1
20.	Digital conductivity meter	1
21.	Maxwell's bridge kit	1
22.	Piezo electric accelerometer with built amplifier & vibration meter	1
23.	Compton type potentiometer	1
24.	Torque Transducer Exp.	1
25.	Variable area capacitor Transducer	1
26.	Anemometer	1
27.	Hall Effect trainer	1
28.	Study of current transformer	1
29.	D'Arsonval galvanometer setup	1

Mandatory Disclosure as on 27<sup>th</sup> Aug'09

S.No	Name Of The Equipment	Qty
30.	Photoelectric tachometer	1
31.	Calibration of single phase energy meter	1
32.	Photoelectric tachometer	1
33.	Hall effect trainer	1
34.	LVDT position trainer [VLPCT01]	1
35.	LVDT trainer	1
36.	Capacitive transducer	1
37.	Strain gauge setup with load	1
38.	Optical sensor trainer (photo conductive kit )	1
39.	Capacitive type liquid level measurement	1
40.	Instrumentation tutor	1
41.	Calibration Tester (Dead Weight pressure Gauge)	1
42.	Characteristic of synchro- transmitter receiver	1
43.	D.C servo motor position control system	1
44.	A.C servo motor position control system	1
45.	Microprocessor based UV visible spectrophotometer	1
46.	Temperature Calibrator	1
47.	Bourdon Pressure transducer trainer	1
48.	U-tube mercury manometer	1
49.	Digital shaft angle encoder	1
50.	Pulse kit	1
51.	Reparative kit	1
52.	ECG analyzer	1
53.	Cold junction compensation of Thermocouple	1
54.	Liner Power Supply	1
55.	Flow Measurement Using Venturi Meter	1
56.	Flow Measurement Using Orifice Plate Meter	1
57.	Analog & Digital Tester	1

**DEPT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING****MAJOR EQUIPMENTS/FACILITIES**

S.No	NAME EQUIPMENTS	QTY
1.	Closed loop temperature control	1
2.	Closed loop pressure control	1
3.	Integrated level flow control	1
4.	Instrumentation & transducer trainer kit	1
5.	PLC trainer based on simatic S5-100v with cpu103 with 4 manuals	1
6.	Cascade control trainer	1
7.	Pneumatic P+I controller	1
8.	Matlab software	1
9.	Pressure Transmitter	1
10.	Uninterrupted power supply	1
11.	Microprocessor based UV visible spectrophotometer	1
12.	DCS trainer system	3
13.	Siemen's D.C drive trainer with analog control & angle control	1
14.	Temperature Calibrator	1
15.	Magnetic flow meter	1
16.	Heat exchanger	1
17.	6 channel Recorder	1
18.	Control valve trainer	1
19.	Digital storage oscilloscope	1
20.	Matlab7 software R(14)	1
21.	SIMENS PLC S7 CPU(226)	1
22.	<b>Xeon server</b> 3 GHZ processor . 2 GB RAM 2*80 HDD	1
23.	1) Optical fiber trainer (PSD- 7ps accessories )	1
	2) FOPM 101 (850nm) –Light Source	1
	3) FOPM 102 Power Meter With 850/1300/1550nm Calibration	1
	4) LED MODEL (850nm)	1
	5)PD model (FODM-100)	1
	6) 1550nm LD Module (consist of LD unit (FOSM U 1000), LD driver (FOSM- D600) for characteristics study)	1
	7) APD Module (FODM200)	1
24.	BCK 120& BSK40ST Connocterisation kit and uv & Mechanical Splicing kit	<b>1</b>
25.	LABVIEW SOFT WARE 8.5 FOR (50USER)	<b>1</b>
26.	Voltage Base DAQ System NI USB6251	<b>1</b>
27.	First order and system real time liquid level System	1
28.	Feed forward control	1

**1. Process Control Lab****EXPERIMENTAL SETUP.**

<b>S.No</b>	<b>Name Of The Equipment</b>	<b>Qty</b>
1.	Closed loop temperature control loop	1
2.	Closed loop pressure control loop	1
3.	Integrated level flow control	1
4.	Control value based expt set up (model : itb-PCS05)	1
5.	Flapper valve demo system	1
6.	Heat exchanger (computerized)	1
7.	Cascade control trainer	1
8.	Pneumatic P+I controller	1
9.	Magnetic flow meter	1
10.	YOKOGAWA make pre. transmitter	1
11.	Differential pre. transmitter	1
12.	Furnace System	1
13.	Interaction /Non- Interaction Trainer	1
14.	Control valve trainer	1
15.	“YOKOGAWA make 6 channel Recorder	1
16.	DCS trainer system DCS trainer system support service	3
17.	PLC trainer	1
18.	I/P to P/I Converter	1
19.	PLC S7-200 (SIEMENS)	1
20.	Seven segment display	1
21.	Fan control simulator	1
22.	Tank level control simulator	1
23.	Relay unit with 8 relay simulator	1
24.	Pneumatic circuit trainer	1
25.	Traffic light control trainer	1
26.	Automation bottle filling system	1
27.	PCI Based high speed data acquisition card	1
28.	2Channel DAC interface board	1
29.	8/16 Channel ADC interface card	1
30.	Analog PID controller	1
31.	Digital PID controller	1
32.	Multivariable system	1
33.	FOTR -300 -2 Mbps digital MM GF Link with digital transmitter (FOTX-00),receiver (FORX-300)100m MM ST connctorised	1
34.	1)ELED –GF -1300nm :1300nm ELED SM Glass fiber in ST Receptacle	1
35.	2) PD –GF –GE :1300nm PD MM Glass fiber in ST Receptacle	1
36.	Voltage based DAQ System	1
37.	First order and system real time liquid level System	1
38.	Feed forward control	1

**2. Measurements and Instruments Lab****EXPERIMENTAL SETUP**

<b>S.No</b>	<b>Name Of The Equipment</b>	<b>Qty</b>
1.	Digital stroboscope	2
2.	Load cell with load indicator	1
3.	Digital transducer with digital indicator	1
4.	Digital PH meter with electrode	1
5.	Temperature exp.setup & Thermocouple	1
6.	strain gauge Digital indicator	1
7.	Angular displacement	1
8.	Kelvin double bridge	1
9.	Anderson bridge	1
10.	Hay's bridge	1
11.	Desauty's Bridge	1
12.	Schering's Bridge	1
13.	3 Wire RTD in a wheat stone bridge	1
14.	2 Wire RTD in a wheat stone bridge	1
15.	Photo Diode	1
16.	Photo Transistor	1
17.	Micro controller trainer	1
18.	Optical pyrometer	1
19.	Digital ph meter	1
20.	Digital conductivity meter	1
21.	Maxwell's bridge kit	1
22.	Piezo electric accelerometer with built amplifier & vibration meter	1
23.	Compton type potentiometer	1
24.	Torque Transducer Exp.	1
25.	Variable area capacitor Transducer	1
26.	Anemometer	1
27.	Hall Effect trainer	1

**Mandatory Disclosure as on 27<sup>th</sup> Aug'09**

<b>S.No</b>	<b>Name Of The Equipment</b>	<b>Qty</b>
28.	Study of current transformer	1
29.	D`Arsonval galvanometer setup	1
30.	Photoelectric tachometer	1
31.	Calibration of single phase energy meter	1
32.	Photoelectric tachometer	1
33.	Hall effect trainer	1
34.	LVDT position trainer [VLPCT01]	1
35.	LVDT trainer	1
36.	Capacitive transducer	1
37.	Strain gauge setup with load	1
38.	Optical sensor trainer (photo conductive kit )	1
39.	Capacitive type liquid level measurement	1
40.	Instrumentation tutor	1
41.	Calibration Tester (Dead Weight pressure Gauge)	1
42.	Characteristic of synchro- transmitter receiver	1
43.	D.C servo motor position control system	1
44.	A.C servo motor position control system	1
45.	Microprocessor based UV visible spectrophotometer	1
46.	Temperature Calibrator	1
47.	Bourdon Pressure transducer trainer	1
48.	U-tube mercury manometer	1
49.	Digital shaft angle encoder	1
50.	Pulse kit	1
51.	Reparative kit	1
52.	ECG analyzer	1
53.	Cold junction compensation of Thermocouple	1
54.	Liner Power Supply	1
55.	Flow Measurement Using Venturi Meter	1
56.	Flow Measurement Using Orifice Plate Meter	1
57.	Analog & Digital Tester	1

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING****B.E (COMPUTER SCIENCE& ENGINEERING)****MAJOR EQUIPMENT / FACILITIES**

S.No	Item	Name of the Lab	Qty
1.	P- IV Node	PIV 2.00 GHZ 512 RAM,40 GB Hard Disk 15" Monitor ,110 Key Board, Optical Scroll Mouse	90
		P IV 3.0 GHZ system 512 MB DDR RAM,80 GB SATT A HDD, 15" SVGA LG Color Monitor - Black, Black Optical Scroll Mouse /110 Keyboard	30
2.	Winter park Server	PIV 2.66 GHZ 1 GB RAM,80 GB Hard Disk Drive 1.44 MB Floppy Disk Drive 15" Monitor,110 Key Board, Optical Scroll Mouse	02
3.	Xeon – Server	Intel Xeon 2*2.8 GHZ Dual Processor 4 GB RAM,80 GB Hard Disk Drive 1.44 MB Floppy Disk Drive 110 Key Board, Optical Scroll Mouse,15" Colour Monitor	01
4.	Dot matrix printer	TVS MSP 80 Column Printer	12
5.	Laser Printer	Laser Printer	01
6.	Switch	24 Port Switch	05
7.	Rack	24" U Rack	01
8.	Patch card	3 Feet Patch card	92
		7 Feet Patch card	105
9.	Patch panel	24 port Patch panel	02
10.	UPS	5 KVA UPS	02
		10 KVA UPS	02

**EXPERIMENTAL SETUP**

S.No	Name of the Lab	Experimental Setup
1.	Programming Languages Lab	Object Oriented Programming
		Data Structures
		System Software
		Visual Programming
		DBMS
2.	Networking Lab	Network
		Case Tools
		Internet Programming
3.	Compiler Lab	Graphics and Multimedia
		Operating Systems
		Compiler Design

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING****MAJOR EQUIPMENT / FACILITIES**

<b>S.No.</b>	<b>ELECTRICAL MACHINES LAB</b>	<b>Qty</b>
1.	Single Phase Induction Motor	3
2.	Alternator	4
3.	Three Phase Induction Motor	3
4.	DC Shunt Motor	3
5.	DC Shunt Generator	5
6.	DC Compound Generator	5
7.	Transformers	10
8.	Digital Storage Oscilloscope	1
9.	Series Motor	2
<b>II</b>	<b>CONTROL SYSTEM LABORATORY</b>	
1.	Closed Loop Position/Speed/Temp/System with detachable control units	1
2.	PLC Trainer Kit	2
3.	Digital Storage Oscilloscope	2
<b>III</b>	<b>POWER ELECTRONICS LAB</b>	
1.	IGBT Based Variable Frequency PWM Converter	2
2.	Digital Storage Oscilloscope	2
3.	Three Phase Converter with Microprocessor based firing Scheme	2
4.	Mat lab real time interface Board	1
5.	IPM based Power module 3HP	1
6.	TMS320F2407A based DSP Controller	1
7.	PWM Testing Unit	1
8.	Code Composer Studio for Taxes F2407	1
9.	Microcontroller based automatic Synchronizing setup.	1
10.	Self Excited Induction Generator with tacho generator, Digital Voltmeter and Ammeter	1
11.	Synchroscope	1

**FACILITIES**

1. Lab with 40PCs and Software MATLAB, ETAP, ORCAD

**EXPERIMENTAL SETUP****I. Electrical Machines Lab**

SL.NO	NAME OF THE EQUIPMENT	QTY
1.	Load test on DC Shunt motor	2
2.	Speed control of DC shunt motor	2
3.	Load test on DC series motor	2
4.	OCC & Load test on Separately and Self excited Generator	3
5.	Load test on DC Compound motor	3
6.	Swinburn's test	2
7.	Hopkinson's test on DC machines	1
8.	Load test on Three Phase Induction Motors	2
9.	Equivalent circuit of Three phase Induction Motors	2
10.	Load test on Three Phase/Single Phase Transformer	4
11.	Equivalent circuit of Single phase Transformer	2
12.	Load test on Three phase Alternator	1
13.	'V' and inverted 'V' curves on Synchronous Motor	1
14.	Synchronization with infinite bus bar.	1
15.	Speed control of Slip-ring Induction motor	1
16.	Characteristics of Series Generator	1
17.	Separation of Losses in Transformer	1
18.	Sumpner's Test	1
19.	Scott Connections	1
20.	EMF/MMF Method for Alternator	3
21.	ZPF Method for Alternator	2
22.	Energy recovery for negative slip	1

**II Control System Laboratory**

SL.NO	NAME OF THE EQUIPMENT	QTY
1.	Study of P,PI,PID Controller	2
2.	Study of 1 <sup>st</sup> Order & II <sup>nd</sup> Order System	1
3.	Analog Simulation of Type 0 Type 1	5
4.	Digital Simulation of Linear Systems	5
5.	Digital Simulation of non linear System	5
6.	Stability analysis of linear system.	5
7.	Study of synchros	1
8.	Design of Lag-Lead Network	3
9.	Determination of Transfer function of DC/AC Servomotor	2
10.	Ward-Leanard Method	1
11.	Closed loop Temperature control using digital PID Controller/Analog Controller	2
12.	Digital/Analog position control of stepper motor.	2
13.	Transfer function of field control of DC motor	1
14.	Transfer function of Ward Leonard System	1

**III Measurements Lab**

<b>SL.NO</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QTY</b>
1.	ADC/DAC converter	2
2.	Single phase Energy meter	2
3.	Three phase Energy meter	2
4.	Power measurement of two wattmeter method	2
5.	Wheatstone/Kelvin/Schering/Anderson bridges	3
6.	Experiment with Instrumentation amplifier	2
7.	LVDT/RTD/Temperature Controller Experiments	2
8.	Series resonance/Parallel resonance	2
9.	Power measurement by Three Voltmeter-Three Ammeter method	2
10.	Circuit thevenins.	2

**IV Power Electronics Lab**

<b>SL.NO</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QTY</b>
1.	Characteristics of SCR/TRIAC/IGBT/MOSFET	3
2.	Single phase half controlled/fully controlled converter	3
3.	Three phase half controlled/fully controlled converter	3
4.	Single phase power converter	2
5.	Three phase power converter	2
6.	Voltage Commutator /Current Commutator chopper	2
7.	Speed control of DC shunt motor using three phase fully controlled converter	2
8.	Three phase A/C voltage controller	3
9.	Single phase cyclo converter	1
10.	Four quadrant operation chopper	2
11.	Three phase converter with Microprocessor based firing scheme for induction motor.	2

**DEPARTMENT OF MECHANICAL ENGINEERING****1. Thermal Lab**

<b>S.No.</b>	<b>Name of the Equipment</b>	<b>Quantity</b>
1.	Induced Draught Cooling tower	1
2.	Supersonic Wind tunnel with 600mm x 600mm test section	1
3.	Flue gas analyser	1
4.	Single cylinder 4-stroke slow speed diesel engine with retardation test facility	1
5.	Single cylinder 4-stroke diesel engine with performance test facility	1
6.	Twin cylinder 4-stroke diesel engine with performance and heat balance test facility	1
7.	Single cylinder 4-stroke petrol engine with performance test facility	1
8.	Single cylinder 2-stroke petrol engine with performance test facility	1
9.	Single cylinder 4-stroke horizontal diesel engine with Performance test facility	1
10.	4 cylinder petrol engine (IZUSU engine) fitted with hydraulic dynamometer with Morse test facility	1
11.	Two-stage reciprocating air compressor with performance test facility	1
12.	Air blower with performance test facility	1
13.	R-12 vapour compression refrigeration system	1
14.	LPG vapour compression refrigeration system	1
15.	Air-conditioning system	1
16.	Energy Balance Test facility on steam boiler	1
17.	1 HP Reaction turbine	1

**2. Heat Transfer Lab**

<b>S.No.</b>	<b>Name of the Equipment</b>	<b>Quantity</b>
1.	Parallel flow & counter flow heat exchanger test facility	1
2.	Test facility for determining Stefan-Boltzmann constant	1
3.	Free Convection heat transfer apparatus	1
4.	Forced Convection heat transfer apparatus	1
5.	Thermal Conductivity of Insulating powder- Test rig	1
6.	Guarded hot plate –test rig	1
7.	Pin-Fin apparatus	1

**3.Dynamics Lab**

S.No.	Name of the Equipment	Quantity
1.	Motorized Gyroscope	1
2.	Universal Governor	1
3.	Vib lab	1
4.	Whirling of shaft apparatus	1
5.	Longitudinal vibration of spring mass system	1
6.	Torsional vibration equipment	1
7.	Lathe Tool Dynamometer	1
8.	Drilling Tool Dynamometer	1
9.	Dynamic Balancing of Machine	1

**4.Strength of Materials Lab**

S.No.	Name of the Equipment	Quantity
1.	Universal Testing Machine	1
2.	Compression Testing Machine	1
3.	Hardness Testers ( BHN, RHN, VHN)	1 each
4.	Izod impact test rig	1
5.	Spring Testing machine	1
6.	Cupping Test rig	1
7.	Torsional test rig	1

**5.Fluid Machinery Lab**

S.No.	Name of the Equipment	Quantity
1.	Reciprocating pump	1
2.	Gear oil pump	1
3.	Jet pump	1
4.	Submersible pump	1
5.	Centrifugal pumps	2
6.	Kaplan turbine	1
7.	Francis turbine	1
8.	Pelton turbine	1
9.	Pipe friction apparatus	1

**6.CAD/CAM Lab****Hardware:**

S.No.	Name of the Equipment	Quantity
1.	Pentium-IV Terminals with 2.4HZ,CPU With Mother Board, 40GBHDD, 256 MB RAM, 10/100 Ethernet Card, 15'' Color Monitor, 104 Key Board, Logitech Mouse, P4 Cabinet.	39
2.	Pentium-IV Terminals with 2.4HZ,CPU With Mother Board, 40GBHDD, 128 MB RAM, 10/100 Ethernet Card, 21''Color Monitor,104 Key Board, Logitech Mouse, P4 Cabinet.	2
3.	Pentium-IV Server with P4 – 2.8 GHZ CPU, With Mother Board 1GB RAM, 1.44 MB FDD, 52X CD Writer, Color Monitor, Key Board,Optical Scroll Mouse, Server Cabinet With SMPS.	2
4.	HP Design Jet 10PS (Plotter)	2
5.	CNC Turning Machine	2
6.	CNC Milling Machine	2

**Softwares:**

S.No.	Name of the Software	Licences
7.	Mechanical Desktop 6 & AutoCAD 2002	15
8.	Mechanical Desktop 9 & AutoCAD 2005	5
9.	Mechanical Desktop 11 & AutoCAD 2007	10
10.	Visual Nastran 4D – Simulation & Analysis.	1
11.	Solid Cam	5
12.	Ansys university low Software version 7.0	5
13.	CADian MECH 2004-2D Drafting Software	10
14.	Iron CAD 6.3 3D modeling, surfacing, Assembly software	100
15.	CNC TRAIN Offline Simulation Software (WINDOWS) Mill & lathe	5
16.	CNC Xlturn Offline Simulation Software (DOS)	3
17.	CNC Xlmill Offline Simulation Software (DOS)	3

**7.Machine Shop**

S.No.	Name of the Equipment	Quantity
1.	Centre Lathe with accessories	15
2.	Shaping Machine	1
3.	Slotting Machine	1
4.	Radial Drilling Machine	1
5.	Horizontal grinding machine	1
6.	Planner	1
7.	Gear hobbing machine	1
8.	Turret Lathe	1
9.	Upright Drilling Machine	1

**8.Metrology Lab**

S.No.	Name of the Equipment	Quantity
1.	Auto Collimator	1
2.	Electronic Comparator	1
3.	Tool Makers Microscope	1
4.	Profile Projector	1

**9.Metallurgy Lab**

S.No.	Name of the Equipment	Quantity
1.	Metallurgical microscope	4
2.	Polishing machine	2
3.	Specimen cut off machine	1
4.	Linisher	1
5.	Jominy end Quenching set up	1
6.	Heat treatment furnace	1

**10. Basic Work shops**

(Plumbing, Carpentry, welding, , Sheet metal , foundry)

S.No.	Name of the Equipment	Quantity
1.	Assorted components for plumbing consisting of metallic pipes, plastic pipes, flexible pipes, couplings, unions, elbows, plugs and other fittings.	15
2.	Carpentry vice (fitted to work bench)	15
3.	Standard wood working tools	15
4.	Models of industrial trusses, door joints, furniture joints	5
5.	Arc welding transformer with cables and holders	5
6.	Welding booth with exhaust facility	5
7.	Welding accessories like welding shield, chipping hammer, wire brush, etc.	5
8.	Oxygen and acetylene gas cylinders, blow pipe and other welding outfit.	2
9.	Hand shearing machine	1
10.	Mould Table, patterns, and standard foundry tools	15

**11. Mechatronics Lab**

SI No	Name of the equipment	Quantity
1	PLC/RTA Hydraulic Linear actuation system Trainer	01
2	Electro pneumatic trainer Kit	01
3	Pneumatic trainer Kit	01
4	Electro pneumatic trainer Kit with PLC	01
5	Servo controller for open and closed loop system	01
6	PID controller with interfacing	01
7	Temperature control system	01
8	DC motor speed control module	01
9	Micro controller trainer	01
10	Stepper motor	01
11	Data acquisition system_Software	01
12	Hydraulic simulation software	05
13	Pneumatic simulation software	05

**DEPARTMENT OF CHEMICAL ENGINEERING****Chemical Reaction Engineering Laboratory****List of Major Equipment:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Sono Chemical Reactor	1
2.	Adiabatic Reactor	1
3.	RTD Studies in MFR Setup	1
4.	MFRs in Series	1
5.	Continuous Stirred Tank Reactor	1
6.	RTD Studies in Plug Flow Reactor Setup	1
7.	Packed Bed Reactor	1
8.	Photochemical Reactor	1
9.	Non-Catalytic Fluid-Solid Reactor	1
10.	Biochemical Reactor	1

**EXPERIMENTAL SETUP**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Plug Flow Reactor	1
2.	Adiabatic Reactor	1
3.	RTD Studies in MFR	1
4.	Batch Reactor	1
5.	Semi-Batch Reactor	1
6.	Mixed Flow Reactor in Series	1
7.	Continuous Stirred Tank Reactor	1
8.	RTD Studies in Plug Flow Reactor	1
9.	Combined Reactor ( MFR & PFR)	1
10.	Packed Bed Reactor	1
11.	Photochemical Reactor	1
12.	Non-Catalytic Fluid-Solid Reactor	1
13.	Biochemical Reactor	1
14.	Bacterial Incubator	1
15.	Tubular Reactor	1

**Fluid Mechanics Lab:****List of Major Equipment:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Non Circular Conduits	1
2.	Flow Through Packed Beds	1
3.	Flow Through Fluidised Bed	1
4.	Flow Through Pipes	1

**EXPERIMENTAL SETUP**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Flow Through Helical Coil	1
2.	Flow Through Notches	1
3.	Open Orifice Tank	1
4.	Non Circular Conduits	1
5.	Reynold's Exprimnt	1
6.	Flow Through Packed Beds	1
7.	Flow Through Fluidised Bed	1
8.	Flow Through Annulus	1
9.	Flow Through Pipes	1
10.	Efflux Time Test Rig	1
11.	Rotameter Experimental Setup	1
12.	Venturimeter Experimental Setup	1
13.	Pitot Tube Experimental Setup	1
14.	Centrifugal Pump Experimental Setup	1
15.	Reciprocating Pump Experimental Setup	1
16.	Deep Well Turbine Pump Expmntl Setup	1
17.	Submersible Pump Experimental Setup	1

**Heat transfer laboratory:****List Of Major Equipment :**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Boiler [Non Ibr ]	1
2.	Jacketed Vessel	1
3.	Thermal Conductivity Apparatus	1
4.	Shell & Tube Heat Exchanger	1
5.	Evaporator	1
6.	Emissivity Setup	1

**EXPERIMENTAL SETUP**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Vertical Condensor Experiment	1
2.	Conductive Heat Transfer Experiment Unit	1
3.	Bare And Finned Tube Heat Exchanger	1
4.	Jacketted Agitated Vessel	1
5.	Evaporator	1
6.	Transient Heat Conduction At Const.Temp	1
7.	Temperature Measuring Device	1
8.	Thermal Conductivity Apparatus	1
9.	Emissivity Determination Setup	1
10.	Stefen Boltzmann's Apparatus	1
11.	Composite Walls	1
12.	Shell And Tube Heat Exchanger	1
13.	Double Pipe Heat Exchanger	1
14.	Horizontal Condensor	1
15.	Convective Heat Transfer Experiment	1

**MECHANICAL OPERATION LAB:****List Of Major Equipment:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Continuous Thickener	1
2.	Solid Level Control System	1
3.	Ball Mill	1
4.	Jaw Crusher	1
5.	Roller Crusher	1

**EXPERIMENTAL SETUP**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Jaw Crusher	1
2.	Rotap Sieve Shaker With Motor	1
3.	Pneumatic Air Compressor	2
4.	Vacuum Leaf Filter With Accessories	1
5.	Ball Mill	1
6.	Drop Weight Crusher	1
7.	Plate & Frame Filter Press	1
8.	Air Permeability	1
9.	Air Elutriator	1
10.	Floatation Cell With Motor And Cell	1
11.	Cyclone Separator With Blower	1
12.	Baum Jig With 0.5 Hp Motor	1
13.	Roll Crusher	1
14.	Sieve Shaker Gyratory	1
15.	Sieve Shaker (Hand Operated)	2
16.	Test Sieve Set	4
17.	Hot Air Oven With Fan, Temp.Indicator	1
18.	I.C.I. Sedimentation ( Glass )	1

**Mass Transfer Operations Laboratory:****List Of Major Equipment :**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Continuous Distillation Column	1
2.	Packed Bed Absorption Column	1
3.	R.D.C. Extractor [Liquid-Liquid Extractor]	1
4.	ROTARY DRYER	1
5.	Steam Distillation Setup	1
6.	Liquid Diffusivity Setup	1
7.	Continuous Adsorption Setup	1
8.	Vacuum Dryer Setup	1
9.	Wetted Wall Column	1
10.	Tray Dryer Setup	1

**EXPERIMENTAL SETUP**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Simple Distillation Experiment	2
2.	Steam Distillation Experiment	1
3.	Packed Bed Distillation Experiment	1
4.	Vapour Diffusivity Coefficient Experiment	1
5.	Liquid Diffusivity Coefficient Experiment	1
6.	Vacuum Dryer Experiment	1
7.	Tray Dryer Experiment	1
8.	Surface Evaporation Experiment	1
9.	Continuous Adsorption Experiment	1
10.	Wetted Wall Column Experiment	1

**Chemistry, Physical chemistry and Technical analysis Laboratories:****List Of Major Equipment :**

S. NO.	NAME OF THE EQUIPMENT	QTY
1	P C based UV-Vis Spectrophotometer	1
2	Electronic Top Loading Balance	1
3	Interfacial Tensiometer	1

**EXPERIMENTAL SETUP**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Optical experiments : Polarimeter	2
2.	Optical experiments : Refractometer	2
3.	Conductivity experiments : Conductivity meters	4
4.	EMF measurements : Potentiometers	2
5.	Interfacial Surface tension experiment	2
6.	Viscosity measurements : Oswald's Viscometer	4
7.	Colorimetric experiments : Colorimeter	1
8.	Turbidimetry experiments : Turbidometer	1
9.	DO determination set up : DO meter	1
10.	pH determination set up : pH meters	2
11.	Gravimetric analysis : Muffle furnace	1
12.	Quantitative analysis : Flame photo meter	1
13.	Quantitative analysis : Vis Spectrophotometer	1
14.	Melting point determination : Melting point Apparatus	1

**ORGANIC CHEMISTRY LAB:****List of Major Equipment:**

S. NO.	NAME OF THE EQUIPMENT	QUANTITY
1.	Melting point apparatus	1
2.	Boiling point apparatus	1
3.	Electronic balance	1
4.	Abbey refractometer	2

**EXPERIMENTAL SETUP**

S. NO.	NAME OF THE EQUIPMENT
1.	Qualitative Analysis Experiments
2.	Estimation of Phenol
3.	Estimation of Glucose
4.	Preparation of Nitrobenzene
5.	Preparation of Benzaldehyde
6.	Oxidation of Benzaldehyde to Benzoic Acid
7.	Conversion of Ortho to Para Nitrobenzene
8.	Nitration of Nitrobenzene to meta dinitrobenzene
9.	Acetylation of Aniline to Acetanilide

**DEPARTMENT OF INFORMATION TECHNOLOGY****LIST OF MAJOR EQUIPMENTS AND FACILITIES**

<b>S.No</b>	<b>Item</b>	<b>Item Description</b>	<b>QTY</b>
1.	SERVER	WINTER PARK P IV - 2.66Ghz 512 KB Integrated L2 cache / Intel S875WP1-EOriginal Motherboard Winter Park/ 1GB Ram / Integrated Intel ATI range XL VGA controller with 8 MB Ram/ Built in U-160 SCSI Controller /15" LG Color Monitor /36 GB SCSI Hard Disk Drive/1.44 Floppy Disk Drive / CD Writer / Keyboard / Black optical Scroll mouse / SERVER ATX cabinet Server Management Software /LDCM, Two Integrated Serial ATA port with support for RAID	02 Nos.
		INTEL XEON 2 * 2.8 Ghz Dual processor /Intel Server original Mother board / 512 KB integrated L2 cache 1MB integrated L3 cache / 2 GB RECC RAM DDR 266Mhz( up gradable up to 8GB)/ 1 Hot plug HDD support Bay upgradeable to 436.8GB /1.44 MB 3.5" diskette drive /52X IDE CD-ROM Drive / Integrated 1024x768x16.7 million colors video controller on the PCI local bus with 8MB Video SDRAM	02 Nos
2.	CLIENTS	<u>P IV -2.0GHZ:</u> OEM INTEL G VSR mother board 512 MB DDR RAM,40 GB HDD,15" SVGA LG Color Monitor - Black, Black optical scroll Mouse /Keyboard & 2 USB Ports P4 Cabinet with SMPS - Black, 10/100E'net card with boot Rom.	100Nos.
		<u>P IV 3.0 GHZ system</u> 915 GVWBL INTEL mother board 512 MB DDR RAM,80 GB SATT A HDD, 15" SVGA LG Color Monitor - Black, Black optical scroll Mouse /Keyboard & 6 USB Ports P4 Cabinet with SMPS - Black, 10/100E'net `card with boot Rom.	20 Nos.
3.	PRINTER	TVS MSP 345 Champion Printer	08 Nos
		HP Laser Jet Printer 1015	02 Nos
		HP Laser Jet Printer 1015	01 No
4.	UPS	5 KVA UPS	03Nos
		10 KVA UPS	02 Nos
5.	MULTIMEDIA KIT	LG CD Drive	30 Nos
		Web Camera (Logitech)	30 Nos
		Speaker with Microphone	30 Nos
6.	NETWORKING ACCESSORIES	'D' link switch (24 Port)	05 Nos
		'D' link Patch Panel	06 Nos
		22U Rack	01 No
7.	CD WRITER	LG CD WRITER	01 No
		LG COMBO DRIVE	01 No
8.	SCANNER	UMAX 3600 SCANNER	30 Nos
9.	A/C	1. 5 TON	22 Nos

➤ **Total number of systems connected by LAN: 120 systems**

**Major software packages available**

<b>S.No</b>	<b>Software Packages</b>
1.	Fedora – version 2
2.	Microsoft Windows 2003 Server
3.	Microsoft Windows XP Professional
4.	Microsoft windows 2003 Client
5.	Oracle 9i Database for windows Release 2
6.	Oracle 9i Developer suite for Windows
7.	Oracle Database Standard Edition Version 10.1.0.2
8.	Trend Micro (virus Software)
9.	Rational Rose
10.	Adobe Photoshop
11.	Adobe Page Maker
12.	Adobe Acrobat
13.	MSD Academic Alliance
14.	3D Studio Max
15.	Macro Media Director 8.5 Shockwave Studio
16.	Macro Media Flash Version – MX
17.	Macro Media Freehand Version – 10
18.	Macro Media Author ware – Version 6.0
19.	Macromedia Fire works MX
20.	Macromedia Dream Weaver – version MX
21.	Macromedia Studio
22.	Borland Turbo C++
23.	Visual Studio .Net Pro 2003
24.	VX 2000 Plus – Antivirus Enterprise Edition
25.	Microsoft SQL Server 2000
26.	Microsoft SQL CAL 2000
27.	Microsoft Office 2003
28.	Microsoft Front Page 2003
29.	Borland Visi Broker for Java
30.	Web Sphere

**DEPARTMENT OF BIOTECHNOLOGY****List of Major Equipment:**

<b>S. NO.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QTY</b>
1.	Precisa analytical electronic balance	1
2	Laminar flow chamber	4
3	Electronic orbital laboratory shaker with Temperature control chamber	1
4	Rectangular horizontal autoclave 2ft x 2ft x 4ft ;	1
5	Digital gel documentation & analysis system	1
6	Epi fluorescent microscope attachment	1
7	Biofermenter autoclave (external)	1
8	Biofermenter in-situ sterilisable - with software.	1
9	Elisa reader (automated)	1
10	Spectrophotometer uv visible range	1
11	Ultrasonic processor (sonicator)	1
12	Highspeed centrifuge (eltek)	1
13	Mastercycler gradient per	1
14	High pressure liquid chromatograph	1
15	Automatic microplate washer	1
16	Table top borosilicate glass fermentor	2
17	Ice flaking machine	1
18	Ultrafiltration system	1
19	CO <sub>2</sub> incubator	1
20	High pressure cell disruption system	1
21	Freeze dryer	1
22	Electroporation system	1

**EXPERIMENTAL SETUP****1. Downstream processing lab:**

<b>S. NO.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QTY</b>
1.	Cell disruption Techniques using Ultrasonication	1
2.	High Pressure Cell disruption	1
3.	Solid-liquid Separation methods	1
4.	Centrifugation, Micro & Ultra filtration	1
5.	Product enrichment – Protein precipitation techniques	1
6.	Product enrichment – Aqueous Two phase extractions	1
7.	Chromatographic techniques – HPLC techniques	1
8.	Product Crystallization – Freeze drying	1

**2. Immunology lab:**

S.NO.	NAME OF THE EQUIPMENT	QTY
1.	Quantitation of Precipitin assay	1
2.	Blood group analysis– Latex agglutination reaction for Serum	1
3.	Single radial immuno diffusion	1
4.	Rocket-immuno electrophoresis	1
5.	Counter-current immuno electrophoresis	1
6.	Isolation of peripheral blood non-nuclear cell	1
7.	Purification of IgG – Sephadex column	1
8.	Antibody labeling	1
9.	Enzyme linked immunosorbant assay	1

**3. Analytical Techniques in Biotechnology:**

S.NO.	NAME OF THE EQUIPMENT	QTY
1.	Centrifugation studies	1
2.	Chromatography studies : TLC	1
3.	Chromatography studies : Column,	1
4.	Chromatography studies : HPLC	1
5.	Electrophoresis studies	1
6.	Immunological techniques – ELISA, PCR	1
7.	Electroporation studies	1
8.	Bioreactor operation studies	1

**4. Bioprocess lab II:**

S.NO.	NAME OF THE EQUIPMENT	QTY
1.	Thermal death kinetics Batch sterilization design	1
2.	Batch cultivation - growth kinetics analysis	1
3.	Fed batch Cultivation- growth kinetics analysis	1
4.	Estimation of kLa – dynamic gassing method,	1
5.	Estimation of kLa – power correlation method	1
6.	Analysis of Power number for reactor	1
7.	Residence time distribution analysis	1

**5. Genetic Engineering lab:**

S.NO.	NAME OF THE EQUIPMENT	QTY
1.	Plasmid isolation studies	1
2.	Ligation of DNA	1
3.	Expression studies: Optimization of Inducer Conc & time	1
4.	Transformation of Cloned DNA	1
5.	SDS PAGE analysis	1
6.	Electro transfer studies: Western blot & Southern blot	1
7.	DNA amplication studies : PCR	1

**6. Bioprocess lab I:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Growth kinetics studies of bacterial cell	1
2.	Growth kinetics studies of yeast	1
3.	Medium optimization studies – Plackett Burman design & Response surface	1
4.	Enzyme kinetics studies – effect of Temperature , pH	1
5.	Enzyme inhibition studies – type of inhibition	1
6.	Enzyme immobilization studies – mass transfer resistance	1

**7. Molecular Biology lab:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Characterisation of Culture media	1
2.	Agarose gel electrophoresis	1
3.	Isolation of Plasmids DNA	1
4.	Isolation of Plant genomic DNA	1
5.	Isolation of Bacterial genomic DNA	1
6.	Restriction of DNA by using restriction enzymes	1
7.	Ligation of DNA fragments by using Ligation enzymes	1
8.	Gene cloning & Gene expression analysis	1

**8. Microbiology lab:**

S. NO	NAME OF THE EQUIPMENT	QTY
1.	Preparation of culture media –Culturing, Identification of Microbes	1
2.	Quantification of Microbes – Haematocytometry, Serial dilution	1
3.	Studying the effect of disinfectants on Microbes	1
4.	Studying the effect of physical agents on Microbes	1
5.	Studying the effect of Antibiotics on Microbes ( Well Assay )	1

**9. Bioorganic Chemistry lab:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Synthesis of aspirin	1
2.	Hydrolysis of sucrose	1
3.	Preparation of pyruvic acid	1
4.	Preparation of oleic acid from tartaric acid	1
5.	Preparation of alpha d- glucopyranose penta-acetate	1
6.	Isolation of lycopene from tomato paste	1
7.	Preparation of alpha d- glucopyranose penta-acetate	1

**10. Instrumental methods of analysis lab:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Precision and validity studies	1
2.	Analysis Fe(1,10 phenanthroline) -absorption spectrometry.	1
3.	Analysis of pKa of 4-nirophenol	1
4.	UV spectra analysis of nucleic acids.	1
5.	Nephelometry analysis.	1
6.	Flurometry analysis	1
7.	Chromatography analysis	1

**11. Biochemistry Lab:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Protein analysis	1
2.	Carbohydrate analysis	1
3.	Lipid analysis	1
4.	Nucleic acid analysis	1
5.	Chromatography techniques	1

**12. Cell biology lab:**

S. NO.	NAME OF THE EQUIPMENT	QTY
1.	Blood group analysis	1
2.	Bacteria cell analysis- identification, characterization	1
3.	Studies on Osmosis and tonicity of cell	1
4.	Chromatography techniques	1

**I Year B.E/ B.Tech Degree Programme****PHYSICS & CHEMISTRY LABORATORY  
DEPARTMENT OF CHEMISTRY****List Of Major Equipments**

S.NO.	NAME OF THE EQUIPMENT	QTY
1.	Bomb calorimeter	1
2.	Cloud and pour point apparatus	5
3.	Electronic balance	3
4.	M.V.titrater	3
5.	Pensky martin flash apparatus	5

**EXPERIMENTAL SETUP**

S.NO.	NAME OF THE EQUIPMENT	QTY
1.	Conductivitymeter and Conductivity cell for Conductometric experiments	13
2.	Potentiometer (digital), platinum electrode, calomel electrode and salt bridge for entire Potentiometric experimental set up.	12
3.	P <sup>H</sup> meter (digital), glass electrode and calomel electrode for entire P <sup>H</sup> metric experimental set up.	8

**DEPARTMENT OF PHYSICS****List Of Major Equipments**

S.NO.	NAME OF THE EQUIPMENT	QTY
1.	Potentiometer	12
2.	Ultrasonic Interferometer	14
3.	Spectrometer	22
4.	Travelling microscope	41
5.	Single trace CRO	6
6.	Quincke's apparatus	4
7.	Gouy balance	1
8.	Digital Microvoltmeter	2
9.	Muffle furnace	2

**EXPERIMENTAL SETUP**

S.NO.	NAME OF THE EQUIPMENT	QTY
1.	Torsional Pendulum with accessories	14
2.	Young's modulus with accessories	12
3.	Air wedge with accessories	12
4.	Lee's Disc with accessories	14
5.	Determination of Band gap with accessories	12
6.	a. Wavelength, particle size using laser and accessories b. Numerical aperture, acceptance angle using optical fiber	12 12
7.	Co-efficient of Viscosity with accessories	12

**III. POST GRADUATE COURSES****DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**M.E (POWER ELECTRONICS & DRIVES)****MAJOR EQUIPMENT / FACILITIES**

<b>S.No.</b>	<b>POWER ELECTRONICS LAB</b>	<b>QTY</b>
1.	PC terminal	25
2.	HP Laser Printer	1
3.	UPS-5KVA	2
4.	Standard circuit Modules	10
5.	Cathode Ray Oscilloscope	5
6.	DC shunt motor module	2sets
7.	Single phase SCR based ½ controlled converter & fully controlled converter along built-in/separate/firing circuit/module and meter	2
8.	IGBT based single phase PWM inverter module	2

**LIST OF FACILITIES**

1. Dot matrix Printer
2. Compilers: VB, VC++, C++, C
3. Software: MATLAB/PSPICE

<b>SL.NO</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QTY</b>
1.	Single Phase Semi-converter with R-L and R-L-E loads for continuous and discontinuous conduction modes.	2
2.	Single phase full-converter with R-L and R-L-E loads for continuous and discontinuous conduction modes.	1
3.	Three phase full-converter with R-L-E load.	2
4.	MOSFET, IGBT based Choppers.	2
5.	IGBT based Single phase inverters.	2
6.	Single phase AC voltage controller.	2
7.	Simulation of closed loop control of converter fed DC motor drive.	1
8.	Simulation of closed loop control of chopper fed DC motor drive.	1
9.	Simulation of VSI fed three phase induction motor drive.	1
10	Simulation of three phase synchronous motor and drive.	1

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG**  
**M.E (APPLIED ELECTRONICS)**

**Electronic System Design Lab****MAJOR EQUIPMENTS / FACILITIES**

<b>S.No.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QTY.</b>
1.	DSP Trainer Kit TMS 320C 5402 with CD	02
2.	Spartan-II Development Kit	01
3.	CPLD Trainer Kit	01
4.	Xilinx Foundation 4.2i ISE1# (ET-US-ISE-FM)	07 CDs
5.	VLSI Design Suite: (Plus Edition) * A bundle of <b>5 User</b> Active HDL-VHDL plus edition network licence for 5 years. * Single user Synplify Pro Floating for 5 years	02 CDs 02 USB Locks
6.	Multi Sim 8 Education <b>10 Users.</b>	02 CDs
7.	Ultiboard 7 Education power ful PCB Layout tool <b>5 Users.</b>	01 CD
8.	Easy PIC Development Kit PIC16F877A	03 Kit 03 CDs
9.	Micropro Program for PIC Devices	01 Kit 01 CD
10.	PIC C Compiler – PCM from CCS, USA	01 CD
11.	XEON 4.04GHz CPU, SE7520 Dual Processor Server Mother Board, 2GB DDR RAM, 160GB HDD, 1.44MB FDD, Sony DVD R\W Drive, 15” SAMSUNG Color Monitor, MS Internet Keyboard, Optical Mouse & P4 Cabinet with SMPS.	01
12.	Pentium P4, 3.4GHz CPU, D101GGLL original Mother Board, 512MB DDR RAM, 80GB HDD, 15” SAMSUNG Color Monitor, MS Internet Keyboard, Optical Mouse & P4 Cabinet with SMPS.	14
13.	M S P – 245 Printer	01

**EXPERIMENTAL SETUP**

<b>S.No.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QTY.</b>
1.	Elevator Controller	01 Kit 01 CD
2.	Temperature Measurement with RTD	01 Kit 01 CD
3.	Real Time Clock	01 Kit 01 CD

**DEPARTMENT OF MECHANICAL ENGG**  
**M.E (COMPUTER AIDED DESIGN)**

**MAJOR EQUIPMENTS / FACILITIES**

**CAD/CAM LAB**

<b>S. NO</b>	<b>NAME OF THE SOFTWARE</b>	<b>NO.OF LICENSE AVAILABLE</b>
1	AutoDesk Inventor Series 5 Mechanical Desktop 6 & AutoCAD 2002	15
2	AutoDesk Inventor Series 9 Mechanical Desktop 9 & AutoCAD 2005	5
3	AutoDesk Inventor Series 11 Mechanical Desktop 11 & AutoCAD 2007	10
4	Visual Nastran 4D – Simulation & Analysis.	1
5	Solid Cam	5
6	Ansys university low Software version 7.0 Updated to Version 11	5
7	Ansys Teaching Introductory Version 11	25
8	CADian MECH 2004-2D Drafting Software	10
9	Iron CAD 6.3 3D modeling, surfacing, Assembly software	100 Seats / Server
10	CNC TRAIN Offline Simulation Software (WINDOWS) Mill & lathe	5
11	CNC Xlturn Offline Simulation Software (DOS)	3
12	CNC Xlmill Offline Simulation Software (DOS)	3
13	CATIA V5 R17	10

**HARDWARE**

<b>S. NO</b>	<b>DESCRIPTION OF THE HARDWARE / EQUIPMENT</b>	<b>QTY</b>
1	DENFORD CNC Turning Machine ] MODEL XL Turn Slant Bed CNC Lathe.	2
2	DENFORD CNC Milling Machine [Bench Milling Machine Model XL Mill ATS.]	2
3	<b>PC- Pentium-IV</b> 2.4HZ,CPU With Mother Board, 40GBHDD, 128 MB RAM, 10/100 Ethernet Card, 15'' Color Monitor, 104 Key Board, Logitech Mouse, P4 Cabinet.	15
4	<b>PC- Pentium-IV</b> 2.4HZ,CPU With Mother Board, 40GBHDD, 128 MB RAM, 10/100 Ethernet Card, 21''Color Monitor,104 Key Board, Logitech Mouse, P4 Cabinet.	2
5	<b>PC-Server</b> P4 – 2.8 GHZ CPU, With Mother Board 1GB RAM, 1.44 MB FDD, 52X CD Writer, Color Monitor, Key Board,Optical Scroll Mouse, Server Cabinet With SMPS.	1
6	<b>PC- Pentium-IV</b> 2.0 GHZ System Oem Intel Grsr Mother Board, 512 MB DDR RAM, 40 GB HDD, 15'' SVGA LG Color Monitor, Block Cabinet, Optical Scroll Mouse, Key Board. 1Serial, 1Parallel and 2UPS Ports, P-4 Cabinet With SMPS- Block /10/100 E' net Card With Boot Rom.	14
7	<b>PC- Pentium-4,</b> 3.2 GHZ, OEM Intel GVSR Mother Board, 512 MB DDR RAM, 80 GB HDD, 15'' Color Monitor, Optical Scroll Mouse, 104 Key Board, P4 Cabinet.	10
8	Server	1
9	IBM Server	1
10	Samsung ML-1200 printer	2
11	HP Design Jet 10PS (Plotter)	1
12	HP 1020 Laser printer	1
13	Numeric 5.0 KVA UPS	2

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****M.E (COMPUTER SCIENCE& ENGINEERING)****MAJOR EQUIPMENT / FACILITIES**

S.No.	Item	Description	Qty
1.	Xeon – Server	Xeon 2.8 GHz CPU server Mother board, 4 GB EE Ram, 1.44 MB FDD, 73 GB SCSI HDD, 15” Color Monitor, 110 keys keyboard, 52 * CD Rom Drive, optical Scroll Mouse, Server Cabinet with Smps	01
2.	P- IV Node	P IV C2D 2.2/945 GCNL Mother Board 1 GB DDR2 RAM 160 GB SATA HDD 15”Samsung TFT monitor Multimedia Keyboard/optical mouse	20
3.	Printer	Laser Printer	01
4.	Dot matrix Printer	TVS MSP 80 Column Printer	01
5.	Switch	24 Port Switch	01
6.	UPS	15 KVA UPS	01

**EXPERIMENTAL SETUP**

S.No	Name of the Lab	Experimental Setup
1.	Networking Lab	Data Structures Lab
		Operating System Lab
		Networking Lab
		DBMS Lab

**COMPUTING FACILITIES:****COMPUTER CENTER**➤ **Number and configuration of system**

S.NO	ITEMS	DESCRIPTION	Qty
1	SERVER  <i>Pentium 4 Xeon Processor</i>	<i>Pentium 4 Xeon Processor 3.0 GHZ,</i> Intel Original Dual Server support Mother Board 512 KB Cache Memory,2 GB RAM 2 * 72GB SCSI Hard Disk ,1.44 FDD, 52X DVD combo drive 10/100 Mbps Ethernet Card,17 “ TFT Color Monitor 104 Keys Keyboard, Optical Mouse Server Cabinet with SMPS	<b>03</b>
2	NODES  Pentium IV	Pentium IV 3.0 GHZ Intel Original Mother Board,80GB SATA Hard Disk 512 MB RAM,10/100 Mbps Ethernet Card with Boot ROM 15” Color Monitor,P4 Cabinet with SMPS  104 Keys Multimedia Keyboard, Optical Mouse,(Black color)	120
3	Printer	TVSE MSP 245 Dot Matrix Printer LASER PRINTER	08 01
4	Switch	24 Port Switch	06
5	Panel	24 Port Patch Panel	06
6	CD ROM Drive	52X Samsung CD ROM Drive	05
7	FLOPPY DRIVE	1.44MB FDD	05
8	UPS	Numeric 10KVA UPS	03
9	A/C	LG 2 TON split A/C	20

➤ **Total number of systems connected by LAN : 120 systems**

➤ **INTERNET Facilities:**

- Wireless RF service at the speed of 512 kbps
- Wireless internet facility at the speed of 4 Mbps

➤ **Major software packages available**

S.No	Software packages
1	Fedora – Version 2
2	Microsoft Windows 2003 Server
3	Microsoft Windows XP Professional
4	Microsoft Windows 2003 Client
5	Oracle 9i Database for Windows Release 2
6	Oracle 9i Developer suite for windows
7	Oracle Database Standard Edition Version 10.1.0.2
8	Trend Micro (virus Software)
9	Adobe Photoshop
10	Adobe Page Maker
11	Adobe Acrobat
12	MSDN Academic Alliance
13	3D Studio Max
14	Macro Media Director 8.5 Shockwave Studio
15	Macro Media Flash Version – MX
16	Macro Media Freehand Version – 10
17	Macro Media Author ware – Version 6.0
18	Macro Media Fire works MX
19	Macromedia Dream Weaver – version MX
20	Macro media studio
21	Borland Turbo C++
22	Visual Studio .Net Pro 2003
23	VX 2000 Plus – Antivirus Enterprise Edition
24	Microsoft SQL Server 2000
25	Microsoft SQL CAL 2000
26	Microsoft Office 2003
27	Microsoft Front Page 2003

➤ **Special Purpose Facilities Available**

Games and Sports Facilities :

S.No	Name of the Game / Event	Courts/Fields
1	BASKET BALL	3
2	VOLLEY BALL	3
3	BALL BADMINTON	3
4	TENNIS	3
5	KABADDI	3
6	FOOT BALL	4
7	ATHLETICS (400 Mts.) TRACK (Stadium with 3000 seating capacity)	2
8	CRICKET	4
9	BADMINTON (INDOOR)	3
10	HOCKEY	2
11	HANDBALL	2
12	KHO KHO	2
13	TABLE TENNIS (INDOOR)	8 (Boards)
14	THROW BALL	3
15	GYM (Men – 1 & Woman – 1) Air Conditioned	2

**Extra Curriculum Activities:**

1. Cultural
2. Student development programmes
3. Seminars
4. Symposium
5. Youth Red Cross Society
6. NSS Activities, etc.

**Soft Skills Development Facilities:**

In Order to meet the recent trends of Industry, We are providing the Value added Soft Skills Programmes, that will impart not only the Computer Knowledge but also the Management, Administrative and Professional skills to our Students.

We are Educating the Following Soft Skills to groom them in a better way.

S.No	TOPICS
1.	Grammar & Vocabulary
2.	Listening & Reading Skills
3.	Speech Skills
4.	Writing Skills
5.	Facing Interviews & Group Discussions

S.No	TOPICS
6.	Verbal and Non Verbal Communication
7.	Aptitude Test
8.	Conceptual Test
9.	Analytical Test
10.	Mathematical Test
11.	Practical Test
12.	Oral Communication
13.	Technical Test
14.	Focus on Leader Ship Qualities
15.	Basic Communication Skills
16.	Effective communication and ingredients
17.	Presentation Skills
18.	Presentation of Business letters
19.	Boosting and building confidence
20.	Decision making approach

**Number of Class Rooms and Size of each**

96 non – A/C Classrooms each of 110 Sq. M = 10,560 Sq. M  
 24 A/C Classrooms each of 110 Sq. M = 2640 Sq. M

**Number of Laboratories and Size of each**

S.No	Name of the Lab/Workshop	Carpet Area Available(Sq.M)
1.	Department of ECE (UG & PG)	1800
2.	Department of ICE & EIE	900
3.	Department of CSE (UG & PG) & IT	1941
4.	Department of EEE (UG & PG)	1390
5.	Department of Mechanical (UG & PG)	4350
6.	Department of Chemical Engineering	1200
7.	Department of Biotechnology	1800
8.	Computer Centre	900

**Number of Drawing Halls and Size of each**

3 Drawing halls each of 300 Sq. M = 900 Sq. M

**Number of Computer centers with capacity of each**

1 computer centre of 900 Sq. M

**Central examination facilities, number of rooms and capacity of each**

Exam Hall : 1,965 Sq. M

Teaching learning process - Available

- Curricula and syllabi for each of the programmes as approved by the university  
 Refer: [www.annauniv.edu](http://www.annauniv.edu)

➤ **Academic calendar of the university**

Refer: [www.annauniv.edu](http://www.annauniv.edu)

➤ **Academic time table**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**TIME TABLE - ODD SEMESTER 2009- 20010**

**IV ECE-A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EC1401	EC1009	EC1008	MG1401	L	EC1402	EC1404/ EC1405		
TUE	EC1404/EC1405			EC1009	U	EC1403	EC1008	EC1401	MG1401
WED	MG1401	EC1403	EC1009	LIB	N	MG1401	EC1402	EC1403	EC1008
THUR	EC1403	EC1401	EC1402		C	EC1008	EC1403	EC1008	EC1009
FRI	PLACEMENT		EC1402	EC1401	H	EC1401	EC1009	MG1401	SEM

**IV ECE-B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EC1404/EC1405			EC1008	L	MG1401	EC1401	EC1402	EC1009
TUE	EC1402	EC1009	EC1403	LIB	U	EC1401	EC1009	EC1402	EC1008
WED	EC1401	EC1401	EC1008	EC1403	N	EC1008	EC1403	EC1402	MG1401
THUR	MG1401	EC1008	EC1403	MG1401	C	EC1009	EC1404/EC1405		
FRI	PLACEMENT		EC1401	EC1402	H	MG1401	EC1403	EC1009	SEM

**IV ECE-C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EC1403	MG1401	EC1401	MG1401	L	EC1401	EC1402	EC1009	LIB
TUE	EC1009	MG1401	EC1009	EC1403	U	EC1008	EC1401	EC1402	MG1401
WED	EC1404/EC1405			EC1403	N	EC1402	EC1008	EC1008	EC1009
THUR	EC1404/EC1405			EC1401	C	EC1008	EC1009	EC1401	SEM
FRI	PLACEMENT		EC1403	EC1402	H	EC1008	EC1402	EC1403	MG1401

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (CONTD.)**  
**III ECE-A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		EC1302	EC1307			L	EC1303	EC1305
TUE	EC1302	MA1251	EC1304	EC1303	EC1305	EC1304	U	EC1301	SEM
WED	EC1305	EC1302	MA1251	EC1306			N	EC1301	EC1303
THUR	EC1304	EC1301	EC1302	EC1305	MA1251	EC1301	C	EC1302	EC1304
FRI	EC1303	MA1251	EC1305	EC1301	EC1304	LIB	H	EC1303	MA1251

**III ECE-B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		EC1304	MA1251	EC1303	LIB	L	EC1305	EC1304
TUE	MA1251	EC1302	EC1301	EC1306			U	EC1304	EC1302
WED	EC1304	MA1251	EC1305	EC1307			N	EC1302	EC1301
THUR	EC1301	EC1302	EC1303	MA1251	EC1305	EC1304	C	EC1305	EC1301
FRI	EC1303	EC1301	EC1302	SEM	EC1301	EC1303	H	MA1251	EC1305

**III ECE-C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		EC1305	MA1251	EC1304	EC1305	L	EC1303	EC1301
TUE	EC1304	EC1305	MA1251	EC1303	EC1304	EC1304	U	MA1251	SEM
WED	EC1302	MA1251	EC1303	EC1304	EC1302	EC1301	N	EC1305	LIB
THUR	EC1303	EC1305	MA1251	EC1307			C	EC1304	EC1302
FRI	EC1301	EC1303	EC1302	EC1306			H	EC1301	EC1303

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (CONTD.)**

**II ECE-A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EC2207			MA2211	EC2201	L	EC2204	EC2203	EC2205
TUE	MA2211	EC2204	EC2201	EC2202	L/S	U	EC2209		
WED	PLACEMENT		EC2205	EC2202	EC2203	N	EC2201	MA2211	EC2203
THUR	EC2205	MA2211	EC2202	EC2204	EC2203	C	EC2208		
FRI	EC2204	EC2205	MA2211	EC2203	EC2201	H	EC2202	EC2201	EC2204

**II ECE-B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EC2202	EC2203	EC2201	EC2204	MA2211	L	EC2205	EC2202	EC2204
TUE	EC2208			MA2211	EC2203	U	EC2204	EC2205	EC2201
WED	PLACEMENT		EC2203	EC2205	MA2211	N	EC2209		
THUR	EC2203	EC2202	EC2201	MA2211	EC2204	C	EC2207		
FRI	EC2202	EC2201	EC2204	EC2201	L/S	H	MA2211	EC2203	EC2205

**II ECE-C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	MA2211	EC2204	EC2205	EC2203	EC2202	L	MA2211	EC2201	EC2202
TUE	EC2202	MA2211	EC2204	EC2201	L/S	U	EC2203	EC2201	EC2205
WED	PLACEMENT		MA2211	EC2203	EC2204	N	EC2208		
THUR	EC2203	MA2211	EC2204	EC2205	EC2201	C	EC2209		
FRI	EC2207			EC2201	EC2202	H	EC2204	EC2205	EC2203

**DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING**  
**TIME TABLE - ODD SEMESTER 2009- 2010**  
**IV ICE**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	IC1404			IC1401	L	IC1403	GE1301	EI1002	EI1001
TUE	EI1002	EI1001	EI1002	LIB	U	EI1001	IC1401	IC1402	IC1401
WED	IC1403	IC1401	EI1001	IC1402	N	IC1401	EI1002	GE1301	IC1402
THUR	EI1401			IC1402	C	IC1403	GE1301	IC1452	
FRI	PLACEMENT		GE1301	IC1403	H	EI1002	IC1402	EI1001	IC1403

**III ICE**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		EC1362	EE1301	EC1311	EI1301	L	CS1261	IC1301
TUE	IC1301	CS1261	EI1301	EI1302/EC1314			U	EC1362	EC1311
WED	EI1302/EC1314			EC1362	GE1303→B		N	IC1301	EE1301
THUR	EC1311	EE1301	IC1301	CS1261	IC1301	LIB	C	EC1311	EI1301
FRI	EC1362	CS1261	EC1311	EE1301	EC1362	EI1301	H	GE1303→A	

**II ICE**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EE2207/EI2208			EI2201	EI2202	L	GE2211	EE2204	EI2203
TUE	MA2211	EI2203	EI2202	EI2201	GE2211	U	EE2209		
WED	PLACEMENT		MA2211	EI2202	MA2211	N	EE2204	EI2201	EI2202
THUR	EI2202	MA2211	EI2203	GE2211	EE2204	C	EE2207/EI2208		
FRI	EI2201	EI2203	GE2211	EE2204	L/S	H	EI2201	EI2203	MA2211

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**  
**TIME TABLE - ODD SEMESTER 2009- 2010**  
**IV CSE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CS1403			CS1402	L	MG1401	CS1015	CS1401	CS1401
TUE	CS1015	MG1401	CS1402	CS1401	U	CS1401	IT1252	SEM	CS1014
WED	MG1401	CS1014	CS1015	CS1402	N	IT1252	CS1015	CS1014	IT1252
THUR	CS1404			MG1401	C	CS1401	CS1014	IT1252	LIB
FRI	PLACEMENT		MG1401	CS1402	H	IT1252	CS1402	CS1014	CS1015

**IV CSE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CS1404			CS1014	L	CS1402	CS1014	MG1401	CS1015
TUE	CS1402	IT1252	CS1014	CS1015	U	CS1401	MG1401	CS1015	CS1402
WED	CS1403			IT1252	N	CS1402	MG1401	MG1401	CS1401
THUR	CS1015	MG1401	IT1252	CS1401	C	CS1402	CS1015	CS1014	IT1252
FRI	PLACEMENT		CS1401	IT1252	H	SEM	CS1014	CS1401	LIB

**IV CSE - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	MG1401	CS1015	CS1015	LIB	L	CS1401	CS1402	CS1401	CS1014
TUE	CS1404			IT1252	U	CS1402	CS1014	IT1252	CS1401
WED	CS1015	CS1401	CS1404	MG1401	N	SEM	CS1014	CS1402	CS1402
THUR	CS1403			CS1402	C	MG1401	CS1401	IT1252	CS1015
FRI	PLACEMENT		CS1014	IT1252	H	IT1252	MG1401	CS1015	MG1401

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (CONTD.)****III CSE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT EXAM		CS1301	MG1351	CS1303	CS1304	L	CS1302	MA1256
TUE	CS1304	MA1256	CS1302	CS1306			U	CS1301	MG1351 (A)
WED	CS1305			CS1302	CS1303	MG1351	N	CS1304	CS1301
THUR	CS1303	MG1351 (A)	CS1302	MG1351	MA1256	L/S	C	MA1256	CS1303
FRI	CS1301	CS1302	MA1256	CS1307			H	CS1303	CS1304

**III CSE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		MA1256	CS1304	CS1301	L/S	L	CS1303	MG1351 (S)
TUE	CS1302	CS1303	CS1301	CS1305			U	MA1256	CS1304
WED	CS1301	MA1256	MG1351 (S)	CS1307			N	CS1302	CS1301
THUR	CS1304	MG1351 (S)	MG1351 (J)	MA1256	CS1302	MA1256	C	CS1303	CS1301
FRI	CS1306			CS1304	CS1302	CS1303	H	MG1351 (J)	CS1302

**III CSE - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		CS1303	CS1305			L	CS1301	CS1304
TUE	CS1301	MG1351	CS1304	CS1303	MA1256	L/S	U	CS1302	CS1303
WED	CS1306			CS1304	MG1351	CS1302	N	CS1303	MA1256
THUR	CS1302	MA1256	CS1301	CS1307			C	CS1302	MG1351
FRI	MA1256	MG1351	CS1302	CS1303	MG1351	CS1304	H	MA1256	CS1301

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (CONTD.)**

**II CSE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CS2201	CS2204	GE2021	CS2202	CS2203	L	CS2207		
TUE	CS2202	GE2021	MA2211	CS2204	L/S	U	MA2211	CS2201	CS2203
WED	PLACEMENT		CS2201	MA2211	CS2203	N	CS2208		
THUR	CS2204	CS2203	CS2203	MA2211	CS2202	C	CS2202	CS2204	GE2021
FRI	MA2211	GE2021	CS2201	CS2202	CS2204	H	CS2209		

**II CSE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	MA2211	GE2021	CS2201	CS2202	L/S	L	CS2203	CS2204	CS2203
TUE	CS2207			MA2211	CS2201	U	CS2203	CS2202	CS2204
WED	PLACEMENT		CS2202	GE2021	CS2201	N	CS2204	CS2203	MA2211
THUR	CS2202	MA2211	CS2202	MA2211	GE2021	C	CS2209		
FRI	CS2201	CS2204	GE2021	CS2204	CS2203	H	CS2208		

**II CSE - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	MA2211	CS2203	CS2203	CS2204	CS2201	L	CS2208		
TUE	CS2203	CS2201	CS2201	CS2202	GE2021	U	MA2211	CS2204	GE2021
WED	PLACEMENT		CS2203	CS2204	CS2202	N	CS2207		
THUR	GE2021	L/S	MA2211	CS2204	CS2203	C	GE2021	MA2211	CS2202
FRI	CS2209			CS2202	CS2201	H	MA2211	CS2202	CS2204

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**TIME TABLE - ODD SEMESTER 2009- 2010**  
**IV EEE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EE1001	EE1403	EE1401	GE1301	L	EE1404/EE1453			EE1403
TUE	EE1403	EE1001	EE1402	EE1001	U	EE1401	EE1403	MG1401 (V)	GE1301
WED	EE1404/EE1453			EE1401	N	EE1402	MG1401 (A)	EE1401	MG1401 (V)
THUR	EE1402	GE1301	EE1001	LIB/SEM	C	EE1402	MG1401 (A)	EE1001	GE1301
FRI	PLACEMENT TEST		EE1403	EE1402	H	EE1403	MG1401 (V)	GE1301	EE1401

**IV EEE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	GE1301	EE1403	EE1001	EE1401	L	EE1403	EE1401	MG1401	GE1301
TUE	EE1404/EE453			LIB/SEM	U	GE1301	MG1401	EE1402	EE1001
WED	EE1402	EE1001	EE1402	EE1403	N	EE1403	GE1301	EE1401	MG1401
THUR	EE1001	EE1401	EE1402	EE1403	C	EE1001	EE1404/EE453		
FRI	PLACEMENT TEST		EE1403	MG1401	H	EE1401	EE1402	MG1401	GE1301

**IV EEE - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EE1001	GE1301	MG1401	EE1403	L	EE1402	GE1301	MG1401	EE1402
TUE	GE1301	EE1401	EE1402	LIB/SEM	U	EE1403	EE1401	EE1403	MG1401
WED	EE1402	EE1403	EE1001	EE1401	N	EE1001	EE1401	EE1403	EE1401
THUR	EE1404/EE1453			MG1401	C	EE1401	GE1301	EE101	EE1403
FRI	PLACEMENT TEST		EE1001	EE1402	H	GE1301	EE1404/EE1453		

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (CONTD.)****III EEE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT TEST		CS1261	EE1301	EE1302	EC1311	L	EC1313	LIB
TUE	EC1312	EE1302	EC1312	EC1314			U	EC1312	EC1313
WED	EC1312	EE1302	EC1312	CS1262			N	CS1261	EE1302
THUR	CS1261	EC1312	GE1303 (LAB)	EC1313	EC1311		C	GE1303 (Theory)	
FRI	EE1303		EE1303	EE1302	EE1301	EC1313	H	EE1301	EC1311

**III EEE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT TEST		EE1313	EC1311	EC1312	EE1301	L	CS1261	EC1313
TUE	CS1261	EE1302	EC1311	EE1303			U	EE1302	GE1303 Theory
WED	EC1314			EE1302	EC1312	LIB	N	EC1313	EE1301
THUR	EE1301	EC1313	CS1261	GE1303 Theory	GE1303 LAB		C	EC1311	EC1312
FRI	EC1311	EE1301	EC1312	CS1262			H	CS1261	EE1302

**III EEE-C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT TEST		EC1312	CS1262			L	EE1301	EC1311
TUE	EE1302	EC1313	EE1301	EC1313	GE 1303(LAB)		U	EE1302	CS1261
WED	EC1313	CS1261	EE1302	EE1303			N	GE1303(Theory)	
THUR	EE1301	EC1311	EC1312	EC1311	EE1302	CS1261	C	EE1301	EC1313
FRI	EC1312	CS1261	EC1311	EC1314				EC1312	LIB

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (CONTD.)**

**II EEE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EE2202	GE2211	MA2211	EE2202	EE2204	L	EE2207	EE2207	
TUE	EE 2209			GE2211	EE2203	U	EE2204	EE2201	EE2202
WED	PLACEMENT TEST		EE2204	EE2201	MA2211	N	EE2202	EE2203	GE2211
THUR	EE2201	GE2211	EE2202	MA2211	LIB/SEM	C	EE2201	MA2211	EE2203
FRI	EE2203	EE2201	EE2204	MA2211	EE2203	H	EE2208		

**II EEE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EE2208			GE2211	EE2203	L	MA2211	EE2204	EE2201
TUE	EE2202	EE2203	EE2201	EE2202	MA2211	U	EE2207		
WED	PLACEMENT TEST		EE2202	MA2211	EE2204	N	GE2211	EE2201	EE2202
THUR	EE2203	EE2202	EE2204	EE2201	LIB/SEM	C	EE 2209		
FRI	MA2211	GE2211	EE2203	MA2211	EE2201	H	EE2204	GE2211	EE2203

**II EEE C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EE2204	EE2203	MA2211	EE2202	LIB/SEM	L	EE2201	GE2211	MA2211
TUE	EE2201	GE2211	EE2203	MA2211	EE2201	U	GE2211	EE2202	EE2204
WED	PLACEMENT TEST		EE2202	MA2211	EE2203	N	EE2209		
THUR	EE 2208			EE2203	EE2204	C	EE2203	EE2202	EE2201
FRI	EE2202	MA2211	EE2201	GE2211	EE2204	H	EE2207		

**DEPARTMENT OF MECHANICAL ENGINEERING  
TIME TABLE - ODD SEMESTER 2009-2010  
IV MECH - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	ME1404 / PR1353			ME1403	<b>L</b>	MG1401	LIB	ME1403	MG1401
TUE	ME1401	ME1402	ME1007	ME1008	<b>U</b>	ME1401	ME1404 / PR1353		
WED	ME1007	MG1401	ME1402	ME1403	<b>N</b>	ME1401	ME1402	MG1401	ME1008
THUR	ME1007	ME1403	ME1401	ME1008	<b>C</b>	ME1401	ME1007	ME1403	SEM
FRI	Placement		MG1401	ME1402	<b>H</b>	ME1402	ME1008	ME1007	ME1008

**IV MECH - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	MG1401	ME1008	ME1007	ME1403	<b>L</b>	ME1403	MG1401	ME1402	ME1401
TUE	ME1404 / PR1353			ME1402	<b>U</b>	ME1402	ME1008	MG1401	ME1007
WED	ME1404 / PR1353			MG1401	<b>N</b>	ME1403	ME1007	ME1008	ME1402
THUR	ME1008	ME1401	ME1007	ME1402	<b>C</b>	ME1008	LIB	ME1401	MG1401
FRI	Placement		ME1401	ME1403	<b>H</b>	ME1007	ME1401	ME1403	SEM

**IV MECH - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	ME1402	ME1403	MG1401	ME1008	<b>L</b>	ME1007	ME1401	ME1402	ME1401
TUE	ME1008	ME1007	ME1401	ME1403	<b>U</b>	ME1007	MG1401	ME1403	SEM
WED	ME1008	ME1401	ME1007	ME1008	<b>N</b>	MG1401	ME1402	ME1403	ME1402
THUR	ME1404 / PR1353			MG1401	<b>C</b>	ME1403	LIB	ME1007	MG1401
FRI	Placement		ME1008	ME1402	<b>H</b>	ME1401	ME1404 / PR1353		

**DEPARTMENT OF MECHANICAL ENGINEERING (CONTD.)****III MECH - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	Placement		ME1305	CY1201	ME1302	<b>L</b>	ME1306 / ME1307 / ME1308		
TUE	ME1301	ME1304	ME1303	ME1303	CY1201	ME1301	<b>U</b>	ME1302	ME1305
WED	ME1306 / ME1307 / ME1308			ME1305	ME1304	ME1302	<b>N</b>	CY1201	ME1303
THUR	ME1304	ME1303	CY1201	ME1301	ME1303	<b>C</b>	ME1306 / ME1307 / ME1308		
FRI	ME1301	ME1304	ME1302	ME1305	ME1302	LIB / SEM	<b>H</b>	ME1304	ME1301

**III MECH -B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	Placement		ME1301	ME1304	ME1302	ME1304	<b>L</b>	CY1201	ME1302
TUE	CY1201	ME1303	ME1301	ME1306 / ME1307 / ME1308			<b>U</b>	ME1302	LIB/SEM
WED	ME1303	ME1305	CY1201	ME1301	ME1303	ME1304	<b>N</b>	ME1305	ME1301
THUR	ME1301	ME1305	ME1302	ME1306 / ME1307 / ME1308			<b>C</b>	CY1201	ME1305
FRI	ME1306 / ME1307 / ME1308			ME1303	ME1304	ME1302	<b>H</b>	ME1304	ME1303

**III MECH -C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	Placement		ME1302	ME1306 / ME1307 / ME1308			<b>L</b>	ME1303	ME1305
TUE	ME1301	ME1305	ME1303	ME1304	ME1302	CY1201	<b>U</b>	ME1301	ME1304
WED	ME1301	ME1304	ME1301	ME1306 / ME1307 / ME1308			<b>N</b>	ME1304	ME1303
THUR	ME1304	ME1303	ME1305	ME1303	ME1302	LIB / SEM	<b>C</b>	CY1201	ME1302
FRI	CY1201	ME1301	ME1302	ME1306 / ME1307 / ME1308			<b>H</b>	CY1201	ME1305

**DEPARTMENT OF MECHANICAL ENGINEERING (CONTD.)**

**II MECH - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	ME2203	ME2202	ME2209			L	ME2205	MA2211	ME2204
TUE	ME2204	ME2204	MA2211	ME2201	ME2203	U	ME2207 / ME2208		
WED	Placement		ME2205	ME2202	LIB/SEM	N	MA2211	ME2201	ME2205
THUR	ME2202	ME2201	ME2203	ME2204	MA2211	C	ME2207 / ME2208		
FRI	MA2211	ME2203	ME2204	ME2202	ME2205	H	ME2202	ME2203	ME2201

**II MECH - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	ME2203	ME2202	ME2207 / ME2208			L	MA2211	ME2201	ME2205
TUE	ME2201	ME2205	ME2204	ME2204	MA2211	U	ME2209		
WED	Placement		ME2204	ME2201	ME2205	N	ME2203	ME2202	ME2204
THUR	MA2211	ME2203	ME2201	ME2202	LIB/SEM	C	ME2203	MA2211	ME2202
FRI	ME2203	ME2205	ME2202	MA2211	ME2204	H	ME2207 / ME2208		

**II MECH - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	ME2204	ME2205	ME2203	MA2211	ME2202	L	ME2207 / ME2208		
TUE	MA2211	ME2202	ME2203	ME2201	ME2205	U	MA2211	ME2201	ME2202
WED	Placement		ME2207 / ME2208			N	ME2204	ME2201	ME2204
THUR	ME2203	ME2201	ME2202	ME2203	LIB/SEM	C	ME2202	MA2211	ME2205
FRI	ME2204	ME2204	ME2205	ME2203	MA2211	H	ME2209		

**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**  
**TIME TABLE - ODD SEMESTER 2009- 2010**  
**IV EIE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EI1002	IC1401	EI1002	LIB	L	IC1401	EI1001	GE1301	EI1001
TUE	EI1001	IC1403	IC1402	IC1401	U	EI1002	IC1404/EI1401		
WED	GE1301	IC1402	IC1403	IC1401	N	IC1452		IC1401	IC1403
THUR	IC1402	IC1401	GE1301	EI1001	C	IC1403	EI1002	EI1001	EI1002
FRI	PLACEMENT		IC1403	IC1402	H	GE1301	IC1404/EI1401		

**IV EIE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	GE1301	IC1402	IC1401	EI1001	L	IC1402	IC1404/EI1401		
TUE	IC1404/EI1401			EI1002	U	EI1001	IC1402	IC1403	EI1002
WED	IC1402	IC1403	EI1002	LIB	N	IC1403	IC1401	EI1002	GE1301
THUR	IC1401	EI1002	IC1403	GE1301	C	IC1452		IC1401	EI1001
FRI	PLACEMENT		EI1001	IC1401	H	EI1001	GE1301	IC1403	IC1402

**IV EIE - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EI1001	GE1301	EI1001	IC1403	L	EI1002	IC1403	IC1452	
TUE	IC1401	IC1402	IC1401	EI1002	U	IC1402	EI1002	EI1001	GE1301
WED	IC1402	EI1001	IC1403	IC1401	N	IC1403	IC1404/EI1401		
THUR	GE1301	IC1401	IC1402	EI1002	C	IC1401	IC1404/EI1401		
FRI	PLACEMENT		GE1301	LIB	H	IC1402	EI1001	IC1403	EI1002

**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING (CONTD.)****III EIE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		IC1251	EI1302/EC1314			L	EE1301	EC1362
TUE	CS1261	EC1362	EC1311	EE1301	IC1251	EI1301	U	GE1303 B	
WED	EI1301	EC1311	IC1251	CS1261	GE1303 A		N	IC1251	EE1301
THUR	EC1362	EI1301	CS1261	EI1302/EC1314			C	EC1362	EC1311
FRI	EC1311	EE1301	EC1362	IC1251	EC1311	CS1261	H	EI1301	LIB

**III EIE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		EI1301	EE1301	GE1303 COMM SKILL		L	CS1261	IC1251
TUE	EI1302/EC1314			CS1261	EC1362	EC1311	U	IC1251	EI1301
WED	EE1301	IC1251	EC1362	EC1311	IC1251	LIB	N	EC1311	EC1362
THUR	EI1302/EC1314			EC1311	CS1261	EC1362	C	EI1301	EE1301
FRI	IC1251	EI1301	EC1311	EC1362	GE1301 TECH SEM		H	EE1301	CS1261

**III EIE - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		EC1311	EC1362	CS1261	EE1301	L	EC1311	EC1362
TUE	EE1301	CS1261	IC1251	EC1311	EI1301	LIB	U	GE1303 A	
WED	EC1362	IC1251	EE1301	EI1302/EC1314			N	EI1301	IC1251
THUR	CS1261	EI1301	EC1311	EC1362	IC1251	EE1301	C	GE1303 B	
FRI	EI1302/EC1314			CS1261	IC1251	EC1311	H	EC1362	EI1301

**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING (CONTD.)**  
**II EIE - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	EE2204	EI2202	EI2201	EI2203	EI2201	L	EE2208		
TUE	GE2211	EI2203	EI2201	EE2204	EI2201	U	EE2207		
WED	PLACEMENT		GE2211	EI2202	GE2211	N	EE2204	MA2211	EI2203
THUR	EI2209			EI2202	MA2211	C	EI2202	EI2203	MA2211
FRI	MA2211	EI2201	MA2211	EE2204	L/S	H	EI2202	EI2203	GE2211

**II EIE - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	MA2211	EI2201	EI2203	MA2211	L/S	L	EI2202	EI2203	EE2204
TUE	EI2202	GE2211	EI2202	EI2201	MA2211	U	EE2204	EI2203	EI2201
WED	PLACEMENT		EI2202	GE2211	EE2204	N	EI2208		
THUR	EE 2207			EI2203	EE2204	C	EI2201	GE2211	MA2211
FRI	MA2211	EI2203	EI2201	GE2211	EI2202	H	EI2209		

**II EIE - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	MA2211	EI2203	EI2201	EI2202	L/S	L	EE2204	MA2211	EI2202
TUE	EE2209			EI2203	EI2202	U	EI2202	GE2211	MA2211
WED	PLACEMENT		EE2204	EI2203	EI2201	N	EI2203	EI2202	GE2211
THUR	EI2208			EI2201	GE2211	C	MA2211	EE2204	EI2201
FRI	GE2211	EE2204	EI2202	EI2203	MA2211	H	EE2207		

**DEPARTMENT OF CHEMICAL ENGINEERING**  
**TIME TABLE - ODD SEMESTER 2009- 2010**

**IV CHEMICAL**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CH1404/1405/1406 LAB				L	CH1402	CH1403	CH1403	CH1402
TUE	CH1401	CH1401	CH1001	CH1403	U	CH1403	CH1001	CH1407	
WED	CH1402	CH1404	MG1402	CH1404	N	CH1405/CH1406LAB			CH1401
THUR	MG1402	CH1403	CH1401	CH1401	C	CH1404	MG1402	CH1402	LIB
FRI	PLACEMENT		CH1001	MG1402	H	CH1404	MG1402	CH1402	CH1001

**III CEMICAL**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		CH1301	CH1301	MA1301	LUNCH	CH1305/CH1306 LAB		
TUE	GE1301	CH1301	CH1302	CH1302	CH1304	CH1304	L U N C H	CH1303	CH1301
WED	CH1305/CH1306 LAB			CH1303	CH1304	MA1301		CH1301	LIB
THUR	GE1301	CH1303	CH1304	CH1302	MA1301	GE1301		MA1301	CH1303
FRI	GE1352		CH1302	CH1304	MA1301	GE1301		GE1352 LAB	

**II CHEMICAL**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	MA2211	GE2211 (B)	CH2201	MA2211	CH2202	L	ME2205	GE2211 (A)	GE2211 (A)
TUE	CH2202	ME2205	CH2207/CH2208/CH2209 LAB			U	CH2201	ME2205	CH2203
WED	PLACEMENT		CH2203	MA2211	LIB/SEM	N	GE2211 (B)	CH2201	ME2205
THUR	ME2205	MA2211	CH2207/CH2208/CH2209 LAB			C	CH2202	CH2203	CH2201
FRI	MA2211	CH2203	CH2207/CH2208/CH2209 LAB			H	CH2201	CH2203	CH2202

**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**TIME TABLE - ODD SEMESTER 2009- 2010**

**IV IT -A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	IT1403			CS1004	L	CS1354	CS1004	CS1203	IT1401
TUE	IT1402	CS1004	IT1001	IT1401	U	IT1402	CS1354	IT1001	CS1203
WED	CS1207			IT1401	N	CS1354	IT1001	CS1203	IT1402
THUR	IT1401	CS1354	IT1401	CS1203	C	CS1004	CS1355		
FRI	PLACEMENT		IT1402	LIB	H	CS1004	IT1001	IT1402	IT1001

**IV IT - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CS1203	CS1004	CS1203	IT1402	L	CS1004	IT1402	CS1354	LIB
TUE	IT1001	IT1401	CS1354	CS1004	U	CS1203	IT1403		
WED	CS1355			IT1001	N	IT1401	IT1402	CS1004	CS1354
THUR	CS1207			IT1001	C	IT1402	IT1401	IT1001	CS1203
FRI	PLACEMENT		IT1401	IT1001	H	IT1402	CS1354	IT1401	CS1004

**IV IT - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CS1355			CS1354	L	CS1203	IT1401	IT1001	IT1402
TUE	CS1207			CS1203	U	IT1401	CS1004	IT1402	IT1001
WED	IT1401	LIB	IT1001	IT1402	N	CS1203	IT1403		
THUR	IT1402	CS1004	CS1354	IT1402	C	CS1354	CS1203	IT1402	CS1004
FRI	PLACEMENT		CS1004	IT1001	H	IT1401	IT1001	CS1004	PLACE MENT

**DEPARTMENT OF INFORMATION TECHNOLOGY (CONTD.)****III IT - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		CY1201	CS1254			L	CS1252	EC1391
TUE	CS1252	EC1391	GE1302(L)		CS1302	LIB	U	CS1402	CY1201
WED	CS1301	CY1201	CS1302	CS1307			N	CS1302	CS1402
THUR	CS1402	CY1201	CS1252	CS1301	CS1302	CS1252	C	GE1302(T)	CS1301
FRI	CS1403			EC1391	CS1301	EC1391	H	CS1402	GE1302(T)

**III IT -B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		CS1301	CS1307			L	EC1391	CY1201
TUE	CS1402	CY1201	CS1302	CS1254			U	CS1301	CS1252
WED	EC1391	CS1252	CS1301	CS1402	CS1252	CS1402	N	CY1201	CS1301
THUR	GE1302(T)	EC1391	CS1402	CS1403			C	CS1302	CS1252
FRI	CS1302	LIB	CS1302	GE1302(L)		CY1201	H	EC1391	GE1302(T)

**III IT -C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		CS1252	GE1302(T)	EC1391	CS1252	L	CS1301	LIB
TUE	CS1302	CS1301	CS1402	CS1403			U	CS1252	GE1302(T)
WED	CS1402	CS1302	EC1391	CY1201	CS1302	EC1391	N	GE1302(L)	
THUR	CS1252	CS1301	CY1201	CS1254			C	EC1391	CS1402
FRI	CS1307			CY1201	CS1302	CS1402	H	CS1301	CY1201

**DEPARTMENT OF INFORMATION TECHNOLOGY (CONTD.)**

**II IT - A**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	IT2201	CS2202	IT2202	MA2211	CS2203	L	IT2205		
TUE	CS2202		GE2021	MA2211	IT2201	U	CS2207		
WED	PLACEMENT		CS2202	GE2021	LIB/SEM	N	IT2202	CS2202	IT2201T
THUR	IT2202	MA2211	CS2203	CS2202	IT2201	C	GE2021	IT2202	MA2211
FRI	MA2211	IT2201	CS2203	CS2203	IT2202	H	CS2209		

**II IT - B**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CS2203	GE2021	IT2201	CS2202	MA2211	L	GE2021	IT2202	CS2202
TUE	IT2201	MA2211	CS2202	MA2211	IT2202	U	IT2205		
WED	PLACEMENT		CS2203	IT2201	CS2202	N	CS2209		
THUR	CS2207			IT2202	GE2021	C	CS2203	CS2202	MA2211
FRI	GE2021	CS2203	IT2202	MA2211	LIB/SEM	H	IT2201	IT2202	IT2201

**II IT - C**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	IT2202	MA2211	CS2203	GE2021	IT2201	L	CS2209		
TUE	GE2021	LIB/SEM	IT2201	MA2211	GE2021	U	IT2202	GE2021	LIB/SEM
WED	PLACEMENT		MA2211	IT2202	CS2203	N	IT2201	CS2202	PLACEMENT
THUR	CS2203	GE2201	IT2201	MA2211	CS2202	C	IT2205		
FRI	CS2202	IT2202	CS2202	IT2201	CS2203	H	CS2207		

**DEPARTMENT OF BIO-TECHNOLOGY**  
**TIME TABLE - ODD SEMESTER 2009- 2010**

**IV Bio-Tech**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	BT1010	BT1010	BT1401	BT1002	L	BT1002	BT1402	MG1351	BT1401
TUE	BT1403 LAB			BT1401	U	BT1402	MG1351	BT1019	LIB/SEM
WED	BT1002	MG1351	BT1402	BT1002	N	BT1404/1405 LAB			
THUR	BT1401	BT1010	BT1401	MG1351	C	BT1402	MG1351	BT1019	BT1019
FRI	PLACEMENT		BT1019	BT1010	H	BT1404/1405 LAB			

**III Bio-Tech**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PLACEMENT		BT1302	BT1304	BT1305	GE1301	L	GE1352 LAB	
TUE	GE1301	BT1301	BT1303	BT1302	BT1257/1306		U	LAB	
WED	BT1302	GE1301	BT1305	BT1304	GE1352		N	BT1304	GE1301
THUR	BT1304	BT1305	BT1303	BT1303	BT1257/1306		C	LAB	
FRI	BT1303	BT1301	BT1302	BT1305	BT1304	LIB	H	BT1301	BT1301

**II Bio-Tech**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	BT2203	MA2211	BT2204	BT2207/2208 LAB			LUNCH	BT2203	MA2211
TUE	MA2211	BT2204	BT2203	BT2201	BT2204	L U N C H	BT2202	GE2211	LIB/SEM
WED	PLACEMENT		MA2211	BT2202	GE2211		BT2201	BT2204	BT2202
THUR	BT2209 LAB			BT2201	BT2203		GE2211	MA2211	BT2203
FRI	BT2207/2208 LAB			BT2201	GE2211		BT2204	BT2202	BT2201

**POST GRADUATE COURSES****TIME TABLE - ODD SEMESTER 2009- 2010****II ME (POWER ELECTRONICS AND DRIVES)**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	PS1671	LIB	PROJECT PHASE-I			L	CI1602	PS1671	CI1602
TUE	PROJECT PHASE-I			PS1671	PE1621	UCI1602	SEM	PE1621	
WED	PROJECT PHASE-I			CI1602	PE1621	N	PS1671	CI1602	PS1671
THUR	CI1602	PE1621	PS1671	PS1621	PS1671	C	PROJECT PHASE-I		
FRI	PLACEMENT		PE1621	CI1602	PE1621	H	PROJECT PHASE-I		

**II ME (APPLIED ELECTRONICS )**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	AN1630	PROJECT PHASE-I(HOD)			AN1625	L	SEM	AN1630	AN1625
TUE	AN1625	PROJECT PHASE-I(BVJ)			AN1625	L	AN1625	AN1628	
WED	AN1630		AN1628	AN1625		N	PROJECT PHASE-I(SRK)		
THUR	AN1628	AN1630	AN1630	AN1628	LIB	C	PROJECT PHASE-I(RK)		
FRI	PLACEMENT		PROJECT PHASE-I(RV)			H	AN1625		AN1628

**II ME (CAD)**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CD1721	IE1721	CD1751			L	SEM	CD1672	CD1721
TUE	IE1721	CD1751	CD1751	IE1721	SEM	U	SEM	CD1672	CD1672
WED	IE1721	IE1721	CD1751	CD1721	CD1721	N	CD1751		CD1721
THUR	CD1672	CD1721	LIB	IE1721	SEM	C	CD1751		SEM
FRI	CD1672	CD1751	CD1751	LIB	CD1672	H	CD1721	IE1721	SEM

**II ME (COMPUTER SCIENCE AND ENGINEERING)**

TIME / DAY	7.50 to 8.40	8.40 to 9.30	9.45 to 10.30	10.30 to 11.15	11.15 to 12.00	12.00 to 12.45	12.45 to 1.30	1.30 to 2.15	2.15 to 3.00
MON	CS1632	CS1625	CS1629	CS1629	CS1751	L	CS1751		
TUE	CS1629	CS1625	CS1632	CS1632	CS1751	U	CS1751		
WED	CS1625	CS1625	CS1632	CS1632	CS1751	N	CS1751		
THUR	CS1625	CS1625	CS1632	CS1629	CS1751	C	CS1751		
FRI	PLACEMENT		CS1629	CS1629	CS1751	H	CS1751		

- **Teaching load of each faculty**  
As per AICTE Norms
- **Internal continuous Evaluation System and place**  
Refer: [www.annauniv.edu](http://www.annauniv.edu)

➤ Student Assessment of Faculty, System in place



# St. Joseph's College of Engineering

## QUALITY SYSTEM PROCEDURE

### FEED BACK FORM



ISO  
9001 - 2000

Name of the staff :

Year :

Branch :

Subject :

Section :

Kindly allocate the marks between very good- 5; Good –4; Satisfactory– 3; Poor- 2; Very Poor - 1

**1. PLANNING AND ORGANISATION**

- 1.1 Teacher comes to the class on time and engages the classes till end
- 1.2 Teaching is well planned and continuity between the topics covered throughout the syllabus is maintained
- 1.3 Teacher comes well prepared in the subject

**2. PREPARATION / COMMUNICATION**

- 2.1 Teacher speaks clearly and audibly
- 2.2 Teacher writes and draws legibly
- 2.3 Explanations are clear and effective and the proficiency in English
- 2.4 Speed and level of teaching are best suited to the students
- 2.5 Teacher takes extra efforts for weak students
- 2.6 Teacher is giving typed notes for important topics
- 2.7 Teacher uses clear cut transparencies
- 2.8 Answers given for Question Bank – part 'A'

**3. STUDENTS PARTICIPATION**

- 3.1 Teacher asks sufficient questions to promote interaction and reflective thinking
- 3.2 Teacher encourages questioning / raising doubts by students and answers them well
- 3.3 Teacher works out more problems in the class
- 3.4 Teacher encourages, compliments and praises originality and creativity displayed by the students
- 3.5 Teacher's courteous impartial and approachable in the class
- 3.6 Gives additional information for the topics

**4. CLASS MANAGEMENT / ASSESSMENT OF STUDENTS**

- 4.1 Teacher has control over the class and maintains discipline.
- 4.2 Teacher covers the syllabus completely at appropriate speed
- 4.3 Teacher is prompt and impartial in valuing and returning the answer scripts and providing Feedback on students performance.

Total out of / 100

**OVERALL RATING : by the students – PUT ✓ in any one of the boxes**

Very Good  Good  Satisfactory  Poor  Very Poor

**GENERAL REMARKS**  
( if any )

1. Any of the staff :

2. Bus :

3. Mess :

4. Lab / Workshop :

5. Others if any :

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

- **Title of the programme** : **M.E. ( Power Electronics and Drives )**
- **Curricula and Syllabi** : As given in [www.annauniv.edu](http://www.annauniv.edu)
- **Faculty Profile**

S.No	Name	Designation	Subject Teaching
1.	Dr. Ramani Kalpathi	Prof	Embedded control of Electrical machines, Computer Networks and Data Communication
2.	Ms. Jayarama Pradeep	Asst. Prof	Analysis of Power Converters Solid state AC Drives
3.	Ms. A. Manjula	Asst. Prof	Advanced Power Semiconductor devices. Solid state DC Drives
4.	Mr. D. Kirubakaran	Asst. Prof	Embedded control of Electrical machines

- **Brief profile of each faculty** : **Attached Separately**
- **Laboratory facilities exclusive to the PG programme**

S.No	POWER ELECTRONICS LAB	Quantity
1.	PC Terminal	29
2.	HP Laser Printer	1
3.	Dot Matrix Printer	1
4.	UPS 10 KVA	1
5.	Standard Circuit Modules	10
6.	Digital Storage Oscilloscope	5
7.	DC Shunt motor Module	2 Sets
8.	Single Phase SCR based Half controlled converter and Fully controlled converter along built in / separate / firing circuit/ module and meter	2
9.	IGBT based single phase PWM inverter module	2

➤ **SPECIAL PURPOSE**

- **Software, all design tools in case**

**Compilers : VB, VC++, C++, C**  
**MATLAB 7.4 – 25 USERS**  
**MATLAB TOOL BOXES:**

1. Neural Network tool box
2. Signal Processing
3. Image Processing
4. Wavelet toolbox
5. Filter design toolbox
6. Control system toolbox
7. Fuzzy Logic toolbox
8. Simulink
9. SimPower system BlockSet
10. Signal Processing Blockset
11. Genetic Algorithm and direct search toolbox
12. Fixed point toolbox
13. Simulink fixed point
14. Optimisation toolbox
15. Matlab Compiler - 5 Nos

**List of Equipments Purchased for MODROBS**

1. Mat lab real time interface Board
2. IPM based Power module 3HP
3. Three phase AC motor 1HP with sensors
4. 1HP DC motor
5. TMS320F2407A based DSP Controller
6. PWM Testing Unit
7. Digital function Generator
8. Code Composer Studio for Taxes F2407
9. Automatic Synchronization of an Alternator
10. Microcontroller based automatic Synchronizing setup.
11. Dual Variable DC power supply 2Amp
12. Dual Variable DC power Supply 5Amp.
13. Self Excited Induction Generator with tacho generator, Digital Voltmeter and Ammeter
14. UPF two element Wattmeter 5/10A, 300V/600V “ Meco” Make
15. APLAB 10MHZ Signal Generator/Counter with RS232
16. Escol make Dual Digital DC regulated Power Supply
17. Tong Tester model: 2250
18. LPF Wattmeter 5/10A, 150/300/600V, “ meco” make
19. Synchroscope

20. DC Power regulated power supply Panel
21. DC distribution Panel (15 outlets) 16A, two pole, DC MCB

- **Academic Calendar and frame work** : As given in [www.annauniv.edu](http://www.annauniv.edu)

➤ **Research Focus**

1. Design and analysis of hybrid linear and surface stepper motor
2. A passive soft switching snubber for PWM inverter
3. A design of low frequency AC to high frequency AC inverter
4. Design and implementation of two inductor boost converter by using microcontroller
5. EMI Reduction of Power electronic converter.
6. FPGA based digital modulators for inverter control.
7. Hybrid control of permanent magnet synchronous machine.
8. AC –AC converter for Induction Heating.

○ **List of Typical Research Projects**

1. A ZVS three level converter with power factor correction
2. Implementation of AC to AC converter with capacitor clamping
3. Microcontroller based sensor less control of brushless DC drives
4. Design and implementation of isolated boost full bridge ZVS PWM DC/DC converter
5. Design and implementation of PFC boost rectifier with integrated fly back converter
6. Design and implementation of microcontroller based low voltage, high current, high frequency resonant converter
7. Design and implementation of new micro controller based switch mode DC power supply using 2X2 matrix converter
8. Control of single-phase-to-three-phase AC/DC/AC PWM converter for induction motor drives.
9. A single phase boost rectifier system for wide range of load variations.

10. Design and simulation of high frequency resonant inverter based universal electronic ballast.
11. Fuzzy logic implementation of speed profile control brushless dc motor.
12. Design of a soft switched 6 KW Battery charger for Traction applications.
13. Optimization of multilevel inverters for STATCOM applications.
14. High Side Low Noise SMPS System. ( Closed Loop Control)
15. Low harmonic push pull CLASS-E power amplifier with a pair of LC resonant network
16. A Passive 36-Pulse Ac-Dc Converter with inherent load balancing using combined harmonic voltage and current injection.
17. Pulse Converter fed Induction Heater.
18. A new PWM ZVS Full Bridge Converter.
19. Design And Implementation of VLSI Technology Based Versatile Digital Modulator For Power Inverters.
20. Design and Implementation of Embedded Controller Based Efficient Z-Source Inverter with Harmonics Minimization for Solar Power Driven Hybrid Electric Vehicles.
21. Design and Implementation of Embedded Based Dual Output LC-LC Resonant Converter with Closed Loop Control.
22. Design and Implementation of a Verilog Based FPGA Methodology to Control the High Performance DC Servo Motor.
23. Design and Implementation of a Microcontroller based Bidirectional DC-DC Converter for Multiple Energy Storage Elements.
24. Design and Implementation of a new PWM controlled quasi Resonant converter for an Efficiency enhancement of DC motor.

25. Design and Implementation of Embedded control based closed loop controller for low voltage resonant voltage regulator modules.
26. Design and Implementation of Embedded controller based Highly Efficient current fed Dual Bridge DC-DC Converter for Electric Vehicles.
27. Bi-Frequency control of Auxiliary resonant Snubber for forward converter using PIC controller.
28. Design and implementation of a ZVS PWM strategy based single phase AC-DC-AC converter using soft switching.
29. Design and Implementation of bridgeless boost rectifier fed with full bridge inverter with power factor correction.
30. Design and Implementation of Embedded controller based High Frequency AC Converter for Induction Heaters.

- **Industry Linkage**

The department has interaction with the following industries

- M/s. Best Match Engineers, Chennai
- Sri Annai Instruments Service Pvt. Ltd, Chennai
- Anshuman Pvt Ltd.
- Vi Microsystems private Ltd.

- **Publications (if any) out of Research in last three years out of Master projects**

- **G.W.Martin**, “Microcontroller based sensorless control of brushless DC drives”, in National Conference on Recent Trends in Electrical engineering – RTIEE '07, March 2007, Chennai.
- **M.Preethi Pauline Mary**, “Design and implementation of isolated boost full bridge ZVS PWM DC/DC converter”, in National Conference on Recent Trends in Electrical engineering – RTIEE '07, March 2007, Chennai.

- **J.Rahila**, “Design and implementation of PFC boost rectifier with integrated fly back converter”, in First National Conference on Emerging Trends in Power systems 2007 - ETPS-07, March 2007, Chennai.
- **C.M.Varsha**, “Design and implementation of microcontroller based low voltage, high current, high frequency resonant converter”, in National Level Conference on Emerging technologies in Electrical Systems, March 2007, Thuckalay.
- **K.Madhavan** “Implementation of AC to AC converter with capacitor clamping”, in National Level Conference on Emerging technologies in Electrical Systems, March 2007, Thuckalay.
- **J.Jayapriya**, “A ZVS three level converter with power factor correction”, in Third National Conference on Power Electronics And Drives, March 2007, Karaikudi.
- **A.Inba Rexy**, “A novel DC-DC boost converter for fuel cell powered residential power system”, in National Conference on Recent Trends in Electrical engineering – RTIEE '07, March 2007, Chennai.
- **Kaliagurumoorthi**, “DC UPS integrated multi output AC/DC converter”, in Third National Conference on Power Electronics And Drives, March 2007, Karaikudi
- **T.Divya**, “Control of single-phase-to-three-phase AC/DC/AC PWM converter for induction motor drives” in TECHCON ' 08, conducted by IFET college of Engg.
- **G.Ganesh**, “A new PWM ZVS Full Bridge Converter” in NCACTES- 08, conducted by S.A. Engg. College Chennai.
- **Jovin John**, “Design and simulation of high frequency resonant inverter based universal electronic ballast” , in NCACTES ' 08 conducted by S.A. Engineering College.
- **N.Karthik**, “Fuzzy logic implementation speed profile control brushless dc motor”, in CIPS ' 08 conducted by SRM University.

- **C.R.Maheswari**, “Design of a soft switched 6KW Battery charger for Traction applications”, in PEDC '08 conducted by Alagappa Chettair College of Engg & Technology.
- **S.MANIMEGALAI**, “Optimization of multilevel inverters for STATCOM applications”, in NACPED '08 conducted by government College of Engg, Thirunelveli.
- **B.NANDHINI**, “Low harmonic push pull CLASS-E power amplifier with a pair of LC resonant network”, in TECHCON '08, conducted by IFET college of Engg.
- **M.Reji**, “A Passive 36-Pulse Ac-Dc Converter with inherent load balancing using combined harmonic voltage and current injection”, in NCACTES- 08, conducted by S.A. Engg. College Chennai.
- **M.Rimondi Ram**, “Pulse Converter fed Induction Heater”, in NCACTES- 08, conducted by S.A. Engg. College Chennai.
- **S.Srinivasan**, “A single phase boost rectifier system for wide range of load variations”, NCEPET 2008 conducted by Rajarajeswari Engg college.
- **J.S.Nancy Mary**, “ High side low noise SMPS system (closed loop control)”, in PEDC '08 conducted by Alagappa Chettair College of Engg & Technology.
- **Lenin**, “ Embedded control based closed loop control for a 48 V resonant voltage regulator modules”, in National conference on Innovative Techniques in Power Engineering and drives conducted by Velammal college of Engineering on 20<sup>th</sup> March 2009.
- **K.Priyavathanaa**, “ Bi-frequency control of Auxiliary resonant snubber for forward converter using PIC controller” in 2<sup>nd</sup> National conference on Advances in Power engineering and control Technology – APECT '09 conducted by Francis Xavier Engineering College, Vannarpettai, Tirunelveli.

- **V.Reena Joshi Vince**, “ A ZVS PWM strategy based single phase AC-DC-AC converter using soft switching”, in 2<sup>nd</sup> National conference on Advances in Power engineering and control Technology – APECT '09 conducted by Francis Xavier Engineering College, Vannarpettai, Tirunelveli.
- **K.R.Sughashini**, “ Performance Evaluation of Bridgeless Boost Rectifier fed full bridge inverter with power factor correction”, in 2<sup>nd</sup> National conference on Advances in Power engineering and control Technology – APECT '09 conducted by Francis Xavier Engineering College, Vannarpettai, Tirunelveli.
- **V.Aravindan**, “FPGA Based Versatile Digital Modulator For Power Inverters”, in National conference on Emerging Trends in Electrical Engineering (ETEE'09) conducted by Sri Sairam College of Engineering on 12<sup>th</sup> February 2009.
- **R.Chinnaswamy**, “Embedded Controller Based Efficient Z-Source Inverter with Harmonics Minimization for Solar Power Driven Hybrid Electric Vehicles” in National conference on Innovative Techniques in Power Engineering and drives conducted by Velammal college of Engineering on 20<sup>th</sup> March 2009.
- **S.N.Chithireswari**, “Design and Implementation of Embedded Based Dual Output LC-LC Resonant Converter with Closed Loop Control ”, in National conference on Electrical and Electronics Engineering conducted by C.S.I Institute of Technology on 27<sup>th</sup> February 2009.
- **M. Jayachandran**, “Design and Implementation of a Verilog Based FPGA Methodology to Control the High Performance DC Servo Motors for industrial applications”, in National conference of Modeling, Simulation, Design and experimental study of electrical systems conducted by Crescent college of Engineering on 13<sup>th</sup> February 2009.

- **D. John Sundar**, “Design and Implementation of a Microcontroller based Bidirectional DC-DC Converter for Multiple Energy Storage Elements”, in 2<sup>nd</sup> National conference on Advances in Power engineering and control Technology – APECT '09 conducted by Francis Xavier Engineering College, Vannarpettai, Tirunelveli.
- **N.Kamalakaran**, “Design and Implementation of a new PWM controlled quasi Resonant converter” in National conference on emerging investigation in electrical engineering conducted by Dhanalakshmi srinivasa college of Engineering on 7<sup>th</sup> March 2009.
- **M.Mohamed Ibrahim**, “Design and Implementation of Embedded controller based Highly Efficient current fed Dual Bridge DC-DC Converter for Electric Vehicles”, in National conference on Innovative Techniques in Power Engineering and drives conducted by Velammal college of Engineering on 20<sup>th</sup> March 2009.
- **D.Tamilselvan**,” Digital Simulation of low frequency to high frequency AC converter”, in International conference on emerging scenario in space technology and applications conducted by Satyabama University.
- **Placement Status**
  1. Ms.C.Amudha Placed in HCL Technologies
  2. Mr.G.Ganesh Placed in Infosys
  3. Mr.M.Rimondi Ram Placed in Wipro Technologies
  4. Mr. N.Karthik Placed in Wipro Technologies
  5. Ms. J.S. Nancy Mary Placed in HCL Technologies
  6. Ms.C.R.Maheswari Placed in HCL Technologies
  7. Mr.Aravindan Placed in Wipro Technologies
  8. Mr.Mohammed Ibrahim Placed in TCS
- **Contact address of Co-ordinator of the PG Programme**

<b>Name</b>	: Dr.Ramani Kalpathi
<b>Address</b>	: Professor, St.Joseph's College of Engineering, Jeppiaar Nagar, Chennai-119
<b>Telephone</b>	: 044-24501060
<b>E-mail</b>	: <a href="mailto:ramani_kalpathi@yahoo.com">ramani_kalpathi@yahoo.com</a>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

- **Title of The Programme:** M.E. – Applied Electronics
- **Curriculum And Syllabi:** As given in [www.annauniv.edu](http://www.annauniv.edu)
- **Faculty Profile:**

S. No.	NAME	DESIGNATION	SUBJECT TEACHING
1	Dr.Vasumathi Narayanan	Professor	Computer Architecture and Parallel Processing. Advanced Microprocessor and Microcontroller
2	Mrs.I.Johnsi Stella	Asst. Professor	Low Power VLSI Design VLSI Design Technique
3	Mr.J.Sivakumar	Asst. Professor	Advanced Digital Signal Processing
4	Mr.R.Vijayarajan	Asst. Professor	Advanced Digital System Design Advanced Digital Signal Processing

- **Brief Profile of each faculty - Attached separately**
  - **Laboratory Facilities Exclusive to the PG Programme**

S. No.	Name of the Equipments/Software	Quantity
1.	Computers	18
2.	DSP Trainer Kits	10
3.	FPGA Trainer Kits	10
4.	CPLD Trainer Kits	02
5.	FPGA Development Board	03
6.	MSP Printer	02
7.	PIC Development kit	03

➤ **Special Purpose**

• **Software, all design tools in case**

S.No	Software Packages
1.	Code Composer studio (Platinum Edition) - Multi-user
2.	Xilinx 902i ISE, Modelsim - Multiuser
3.	ASIC Design Software – 7 Users.
4.	Multisim – Circuit Simulation Software – 10 Users
5.	Ulti board – PCB Layout tool – 5 user
6.	PIC C Compiler – Multi user.

- **Academic Calendar and frame work** : As given in [www.annauniv.edu](http://www.annauniv.edu)

➤ **Research Focus**

Ad-Hoc, Mobile Networks, Network Security, Data Mining, Digital Image Processing, VLSI, Optical Fiber Communication, Optical Networks.

○ **List of Typical Research Projects**

- ❖ Pulse Narrowing in Optical Fiber due to PMD & PDL
- ❖ Image Fusion using DWT, PCA, Laplace Transformation for various Fusion Algorithms.
- ❖ Study of Trust establishment in Mobile Ad-Hoc Network.

• **Industry Linkage**

The department has an understanding with the industries to strengthen the industry-academia relationship and create a strong foundation for the future need of growing Electronics & Communication Industry industry. The MOU is for collaboration between both parties, for mutual benefit for many purposes like, students projects, guest lectures, industry visit, placement guidance and need based training to the faculty members etc., to enhance the quality of the educational experience for students.

The industries with which the department has an understanding are as,

1	<b>Vi Micro System Pvt. Ltd.</b>
2	<b>SANDS Instruments Pvt. Ltd.</b>
3	<b>Lifeline Circuits Pvt. Ltd., Houser.</b>
4	<b>AG Automation.</b>
5	<b>The Industrial Estate Manufacturer's Association.</b>
6	<b>Vee Eee Technologies.</b>
7	<b>Gemini Communication Ltd.</b>

- **Publications (if any) out of Research in last three years out of Master projects**

- The paper entitled “Design of Test Access Mechanism (TAM) architecture for systems”, of Ms. Alex Maria Joseph (M.E. - Student) was Presented at a National conference on Recent Trends in Electrical Engineering-RTIEE'07 conducted by Sri Sai Ram Engineering College on 13<sup>th</sup> March 2007.
- The paper entitled “FPGA implementation of adaptive noise cancellor using modified least Mean Square Algorithm”, of Mr. B.Alifkhan (M.E. - Student) was Presented at a National conference on Trend development in VLSI and embedded systems conducted by Adhiyamaan college of Engineering on 5-6<sup>th</sup> March 2007.
- The paper entitled “An Efficient FPGA implementation of Fully pipelined Des Algorithm”, of Mr. Anandharajan T.V.R (M.E. - Student) was Presented at a National conference on Recent Trends in Electrical Engineering-RTIEE'07 conducted by Sri Sai Ram Engineering College on 13<sup>th</sup> March 2007.
- The paper entitled “FPGA implementation of DCT for video compression Algorithm”, of Ms. J.Anitha Gnana Selvi (M.E. - Student) was Presented at a National conference on VLSI and embedded systems conducted by Adhiyamaan college of Engineering on 5-6<sup>th</sup> March 2007.
- The paper entitled “Efficient implementation of image compression technique using discrete wavelet transform in JPEG2000”, of Ms. J.Bethaney Janney (M.E. - Student) was Presented at a National conference on Trend development in VLSI and embedded systems conducted by Adhiyamaan college of Engineering on 5-6<sup>th</sup> March 2007.
- The paper entitled “Resource balancing based test scheduling for Embedded core based SOCS”, of Mr. Bharaneedharan (M.E. - Student) was Presented at a National conference on Recent Trends in Electrical Engineering-RTIEE'07 conducted by Sri Sai Ram Engineering College on 13<sup>th</sup> March 2007.
- The paper entitled “Modified Hexagon – based search Pattern for Fast Block Motion Estimation”, of Ms. M.M.Devika (M.E. - Student) was Presented at a National conference on Trend development in VLSI and embedded systems conducted by Adhiyamaan college of Engineering on 5-6<sup>th</sup> March 2007.
- The paper entitled “Three step diamond search Algorithm for Block Matching Motion Estimation”, of Ms. P.Gracelin Sheela (M.E. - Student) was Presented at a National conference on Trend development in VLSI and embedded systems conducted by Mahendra Engineering College on RETEEICOM'07 9<sup>th</sup> March 2007
- The paper entitled “Automatic Hybrid genetic Algorithm based printed circuit board Inspection”, of Ms. G.Mary Valentina` (M.E. - Student) was Presented at a National

conference on Trend development in VLSI and embedded systems conducted by Adhiyamaan college of Engineering on 5-6<sup>th</sup> March 2007

- The paper entitled “LZW Compression for FPGA based Embedded Systems”, of Ms. G.Paliammal (M.E. - Student) was Presented at a National conference on Trend development in VLSI and embedded systems conducted by Adhiyamaan college of Engineering on 5-6<sup>th</sup> March 2007
- The paper entitled “Digital RF Transmitter that Meets Bluetooth Applications”, of Ms. K.J. Rajalakshmi (M.E. - Student) was Presented at a National conference on Trend development in VLSI and embedded systems conducted by Adhiyamaan college of Engineering on 5-6<sup>th</sup> March 2007
- The paper entitled “FPGA Implementation adaptive LMS Predictor for ESM Receiver”, of Ms. Z.Stefi Grace` (M.E. - Student) was Presented at a National conference on Trend development in VLSI and embedded systems conducted by Adhiyamaan college of Engineering on 5-6<sup>th</sup> March 2007
- The paper entitled “An NP based efficient packet scheduling algorithm for multimedia service” of V.Christina Ruth (M.E.-Student) was presented at a National conference on Convergence of technologies conducted by S.A.Engineering College on 9<sup>th</sup> & 10<sup>th</sup> April, 2008.
- The paper entitled “Design of test access mechanism (TAM) architecture for system-on-chip” of N.Radha Krishnan (M.E.-Student) was presented at a National conference on Application of emerging technologies conducted by Adhiyamaan College of Engineering on 24<sup>th</sup> & 25<sup>th</sup> March, 2008.
- The paper entitled “Image enhancement based on Histogram matching and shifting” of N.Suveera (M.E.-Student) was presented at a National conference on ETICE'08 conducted by PET Engineering College on 27<sup>th</sup> & 28<sup>th</sup> March, 2008.
- The paper entitled “A low power gating structure & switching strategy for MTCMOS design” of S.Sophia Shalini (M.E.-Student) was presented at a National conference on Convergence of technologies conducted by S.A.Engineering College on 9<sup>th</sup> & 10<sup>th</sup> April, 2008.
- The paper entitled “Key management in wireless sensor network” (M.E.-Student) was presented at a National conference on Emerging trends in Engineering & Technology conducted by Rajarajeswari Engineering College on 4<sup>th</sup> & 5<sup>th</sup> April,2008.
- The paper entitled “Implementation and performance analysis of a packet classifier using NP for multimedia application” of D.Sujatha (M.E.-Student) was presented at a National

conference on Recent trends in Electronics conducted by Jaya Engineering College on 20<sup>th</sup> March, 2008.

- The paper entitled “Performance analysis of low power low noise amplifier” of R. Joseph Rathish (M.E.-Student) was presented at a National conference on Emerging trends in Engineering & Technology conducted by Rajarajeswari Engineering College on 4<sup>th</sup> & 5<sup>th</sup> April, 2008.
- The paper entitled “Validating a high performance multilevel design security system” of T. Anuja Gnana Deepthi (M.E.-Student) was presented at a National conference on ETICE'08 conducted by PET Engineering College on 27<sup>th</sup> & 28<sup>th</sup> March, 2008.
- The paper entitled “Grid based key distribution wireless sensor networks” of Ajay Priyadarshan (M.E.-Student) was presented at a National conference on Application of emerging technologies conducted by Adhiyamaan College of Engineering on 24<sup>th</sup> & 25<sup>th</sup> March, 2008.
- The paper entitled “Fire and intruder detection using multisensor security robot system” of T. Merlin Inbamalar (M.E.-Student) was presented at a National conference on ETICE'08 conducted by PET Engineering College on 27<sup>th</sup> & 28<sup>th</sup> March, 2008.
- The paper entitled “Design and implementation of FFT processor for wireless LANs” of T.R. Chenthil (M.E.-Student) was presented at a National conference on Emerging trends in Engineering & Technology conducted by Rajarajeswari Engineering College on 4<sup>th</sup> & 5<sup>th</sup> April, 2008.
- The paper entitled “Key Management in wireless sensor networks” of P. Navaraja (M.E.-Student) was presented at a National conference on Emerging trends in Engineering & Technology conducted by Rajarajeswari Engineering College on 4<sup>th</sup> & 5<sup>th</sup> April, 2008.
- The paper entitled “The still image compression using IWT-SPIHT Image CODEC” of S. Aaron James (M.E.-Student) was presented at a National conference on Advanced communication and computing conducted by Paavai College of Engg, Namakkal.
- The paper entitled “RISC processor design using FPGA” of D.V. Abhilash (M.E.-Student) was presented at a National conference on Advanced communication and computing conducted by Paavai College of Engg, Namakkal.
- The paper entitled “Network mobility management and route optimization scheme for mobile IPV6 network” of N. AMMINI (M.E.-Student) was presented at a National conference on Emerging trends in Engineering & Technology conducted by Rajarajeswari Engineering College on 2<sup>nd</sup> & 3<sup>rd</sup> April, 2009.

- The paper entitled “Hybrid packet scheduling algorithm for QoS Enhancement of real-time multimedia” of T. Anna Sudha (M.E.-Student) was presented at a National conference on Recent trends in Information Technology & Communication (NCRTIC '09) conducted by Velammal Engineering College on 6<sup>th</sup> March, 2009.
- The paper entitled “Design of a high speed matrix multiplier based on balanced word width decomposition and Karatsuba multiplication ” of R.L. Bhargavi (M.E.-Student) was presented at a National conference on Recent trends in Communication systems and information technology (RACSIT '09) conducted by Francis Xavier Engineering College on 11<sup>th</sup> March, 2009.
- The paper entitled “Distributed estimation using wireless sensor network and performance analysis” of C.Bisly Bismi Das (M.E.-Student) was presented at a National conference on Innovative vogue in Electronics and Communication Engineering (IVECE '09) conducted by Madha Engineering College on 28<sup>th</sup> March, 2009.
- The paper entitled “Efficient construction of HBISS packet classification algorithm to enhance multimedia application” of P.S.Cyrlia Destemona (M.E.-Student) was presented at a National conference on Recent trends in Information Technology & Communication (NCRTIC '09) conducted by Velammal Engineering College on 6<sup>th</sup> March, 2009.
- The paper entitled “An Improved data gathering algorithm for maximizing network lifetime in wireless sensor network” of Maggie Sarah Varghese (M.E.-Student) was presented at (NCCCN '09) conducted by SMR Fomra Institute of Technolgoy on 20<sup>th</sup> March, 2009.
- The paper entitled “Improving fairness for mobile adaptive multimedia in 4G wireless networks using vertical handoff” of P.Sheeba (M.E.-Student) was presented at a National conference on Recent trends in Information Technology & Communication (NCRTIC '09) conducted by Velammal Engineering College on 6<sup>th</sup> March, 2009.
- The paper entitled “Self-Testing and Self-healing for FPGA based system” of R.R.Shiney (M.E.-Student) was presented at a National conference on Recent trends in Communication systems and information technology (RACSIT '09) conducted by Francis Xavier Engineering College on 11<sup>th</sup> March, 2009.
- The paper entitled “Analysis of pulse width optical fibre in presence of PMD & PDL” of T.Siva (M.E.-Student) was presented at a National conference on signaling processing and communication technologies (NCSC '09) conducted by Anand Institute of Higher Technology on 24<sup>th</sup> April,2009.

- The paper entitled “VLSI based design for SOC using watermarking techniques for Intellectual property identification” of D.Sobya (M.E.-Student) was presented at a National conference on Power Electronics and Drives applications (PEDAC '09) conducted by Anand Institute of Higher Technology on 2<sup>nd</sup> April,2009.
- The paper entitled “An efficient data aggregation approach for wireless sensor networks” of M.Sruthy Sreekumar (M.E.-Student) was presented at a National conference on Recent trends in Communication systems and information technology (RACSIT '09) conducted by Francis Xavier Engineering College on 11<sup>th</sup> March, 2009.
- The paper entitled “A New scan architecture for both low power testing and test volume compression under SOC test environment” of C.S.Swapna (M.E.-Student) was presented at a National conference on Recent advances in e-communication i-technology (REACT '09) conducted by Anand Institute of Higher Technology on 3<sup>rd</sup> & 4<sup>th</sup> April,2009.

- **Placement Status**

S.NO	Student Name	Register No	Company
1	N.Radha Krishnan	31706401009	Infosys
2	V.Christina Ruth	31706401004	HCL
3	Z.Stefi Grace	31705401012	TCS
4	Julie A	31704401006	TCS
5	P.Sheeba	31707401010	INFOSYS

Apart from these students, many of them are recruited as Lecturers in various Engineering Colleges.

- **Contact address of Co-ordinator of the PG Programme**

**Name** :Dr. A.Sivasubramanian, B.E., M.E., Ph.D.,  
**Address** :Head of the Department  
Electronics and Communication Engineering  
St. Joseph's College of Engineering  
Old Mahapalipuram Road,  
Chennai -119.  
**Telephone** :044-24501060  
**E-mail** : [shiva\\_31@yahoo.com](mailto:shiva_31@yahoo.com)

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

- **Title Of The Programme:** M.E – Computer Science and Engineering
- **Curriculum and Syllabi:** Refer [www.annauniv.edu](http://www.annauniv.edu)
- **Faculty Profile:**

S.No	Name	Designation	Subject Teaching
1	Dr.(Hari)T. Srinivasan Narayanan	Professor	Computer Architecture, Web Technology, Computer Networks
2	Mr.R.Pugalenth	Assistant Professor	Operating Systems, Data Ware Housing and Data Mining, Compiler Design
3	Ms.S.Padmakala	Assistant Professor	Data Structures and Algorithms, Multimedia Systems, DataBase Technology
4	Mr.R.Shankar	Assistant Professor	Software Quality Assurance, Software Engineering Methodologies, OOAD

- **Brief Profile of Each Faculty :** - Attached separately

- **Laboratory Facilities Exclusive to the PG Programme**

S.No.	Item	Description	Quantity
1.	Xeon – Server	Xeon 2.8 GHz CPU server Mother board, 2 GB EE Ram, 1.44 MB FDD, 73 GB SCSI HDD, 15” Color Monitor, 110 keys keyboard, 52 * CD Rom Drive, optical Scroll Mouse, Server Cabinet with Smps	01
2.	P- IV Node	P IV C2D 2.2/945 GCNL Mother Board 1 GB DDR2 RAM 160 GB SATA HDD 15”Samsung TFT monitor Multimedia Keyboard/optical mouse	20
3.	Printer	Laser Printer	01
4.	Dot matrix Printer	TVS MSP 80 Column Printer	01
5.	Switch	24 Port Switch	01
6.	UPS	15 KVA UPS	01

➤ **Special Purpose**

• **Software, all design tools in case**

S.No	Software Packages
1.	Fedora – version 2
2.	Microsoft Windows 2003 Server
3.	Microsoft Windows XP Professional
4.	Microsoft windows 2003 Client
5.	Oracle 9i Database for windows Release 2
6.	Oracle 9i Developer suite for Windows
7.	Oracle Database Standard Edition Version 10.1.0.2
8.	Trend Micro (virus Software)
9.	Rational Rose
10.	Adobe Photoshop
11.	Adobe Page Maker
12.	Adobe Acrobat
13.	MSD Academic Alliance
14.	3D Studio Max
15.	Macro Media Director 8.5 Shockwave Studio
16.	Macro Media Flash Version – MX
17.	Macro Media Freehand Version – 10
18.	Macro Media Author ware – Version 6.0
19.	Macromedia Fire works MX
20.	Macromedia Dream Weaver – version MX
21.	Macromedia Studio
22.	Borland Turbo C++
23.	Visual Studio .Net Pro 2003
24.	VX 2000 Plus – Antivirus Enterprise Edition
25.	Microsoft SQL Server 2000
26.	Microsoft SQL CAL 2000
27.	Microsoft Office 2003
28.	Microsoft Front Page 2003
29.	Borland Visi Broker for Java
30.	Web Sphere

• **Academic Calendar And Framework**

- As given in [www.annauniv.edu](http://www.annauniv.edu)

- **Research Focus**

Distributed OS, Grid Computing, Natural Language Processing, Software Engineering, Web services, Network Security, Biometric Security.

- **List of Typical Research Projects**

- ❖ Implementation of broadcast authentication protocol for Multimedia Communication-recommended for INAE award for the year 2008

- **Industry Linkage**

The department has an understanding with the industries to deepen the industry-academia relationship and create a strong foundation for the future need of growing IT industry. The MOU is for collaboration between both parties, for mutual benefit for many purposes like, students projects, guest lectures, industry visit, placement guidance and need based training to the faculty members etc., to enhance the quality of the educational experience for students.

The industries with which the department has an understanding are as,

1. Infosys, Bangalore
2. Object Frontier Software Private Limited, Chennai
3. VI Microsystems, Chennai
4. Virtusa, Chennai

- **Publications (if any) out of Research in Last Three Years out of Masters Projects**

- K.A.Abinaya Janani, presented the paper titled "Protection against web application Vulnerabilities", National Conference on Computer Communication and networking(2009),India.
- L.G.X.Agnel livingston, presented the paper titled "Secure MultiAgent Framework for Grid",National Conference on Communication and Informatics(2009),India
- B.Ayyappan, presented the paper titled "Load Balancing in Distributed System over LAN- Effects of Network Delay", National Conference on Computer Communication and Networking(2009),India

- K.Bhuvneshwari., presented the paper titled "Effective Classification for Network Anomaly Intrusion Detection",National Conference on Computer Communication and Networking(2009),India.
- Jenefa john," presented the paper titled AES Algorithm using 512bit key implemented for secure communication", National Conference on Computer Communication and Networking(2009),India.
- L.M.Jenila livingston, presented the paper titled "Automated System for Finger Print matching using Extended Features",National Conference on Communication and Informatics(2009),India
- Jerin thomas, presented the paper titled "Clustering of Moving Objects by using Efficient K-Means Algorithm",National Conference on Signal and Image Processing (2009),India
- Joseph george, presented the paper titled "Identifying Trends in Multiattribute Transactional Data using of Clustering based approach", National Conference on Computer Communication and Networking(2009),India
- G.Manikandan, presented the paper titled "Round Robin Based Efficient Scheduling Algorithm in Routers",National Conference on Computer Communication and Networking(2009),India
- M.Meenakshi sundareswari, presented the paper titled "Performance Analysis of IEEE 802.11MAC for ADHOC-Networks", National Conference on Computer Communication and Networking(2009),India
- L.S.Prakashraj,Dr.Hari T.T.Narayanan,Dr.Vasumathi K Narayanan, presented the paper titled "Dynamic Bandwidth Optimization for High Volume Management Traffic",Notification of Acceptance ICCNT(2009),India
- G.R.Priyasri, presented the paper titled "Dynamic Load Balancing in mobile GRID", National Conference on Computer Communication and Networking(2009),India
- K.Rajaganesh, presented the paper titled "Enhancement of QOS in Dispersed mediaStreaming", National Conference on Computer Communication and Networking(2009),India
- R.Rajkumar, presented the paper titled "Efficient Rekeying security for Hierarchical Wireless Sensor Network", National Conference on Computer Communication and Networking(2009),India.
- Rama Chaithanya Tanguturi, presented the paper titled "Energy Efficient Scheme for Wireless Sensor Network", National Conference on Computer Communication and Networking(2009),India.

- J.Sowmya, presented the paper titled "Clock Synchronization in Wireless Sensors using Enhanced CSMNS", National Conference on Computer Communication and Networking(2009),India.
- R.Vijai, presented the paper titled "Elimination of Redundancy in Peer to Peer StorageSystem", National Conference on Computer Communication and Networking(2009),India.
- S.Sangeetha, presented the paper titled "Principle and Application of Steganography using BPCS and IWT",National Conference on Computer Communication and Networking(2009),India
- Ardly Melba Reena, presented the paper titled “Monitoring faults in semantic based dynamic service compositions” accepted for publication in National Conference IMC-08, Noorul Islam College of Engineering, Thuckalay, Tamilnadu.India.
- M.Anuradha, presented the paper titled “Distributed Knowledge Management Using Semantic Approach” accepted for publication in National Conference IMC-08, Noorul Islam College of Engineering, Thuckalay, Tamilnadu
- The paper entitled “Data Replication and Power Efficient Transaction Management for Real-Time Mobile Ad-hoc Network”, of Ms. S. Renuka Devi (M.E.Student) is awarded as Best Paper Award at the National Conference NCICI'07 by Sai Ram Engineering College in March 2007
- U.Sakthi presented the paper titled “Dynamic Load Balancing for the Distributed Mining of Location – Aware Service Patterns in Mobile Web Environments” in National Conference on Recent Advancements in Information Technology, NCRAIT '07,Coimbatore..
- S.Siva Kumar presented the paper titled “Raw Packet Generator” in National Conference on Web Technology & Open Source,WEBTOPS '07, Trichy.
- N.Mythili presented the paper titled “Location Based Classes of Objects Using Proactive Caching” in National Conference on Innovations in Computing Techniques'07, Namakkal.
- S.Madhan Kumar presented the paper titled “Enhance Communication Privacy Without Significant Routing Performance Degrading” in Second National Conference on Innovations in Computing Techniques-'07”, Mahendra Engineering College,Namakkal.
- Ruth Sheela.E presented the paper titled “Upgrading the Performance of Data Analysis By Removing High Level Noise” in National Conference on Innovations in Computing Techniques – '07“, Mahendra Engineering College, Chennai.

- Amuthamozhi.A presented the paper titled “Energy Preserving TDMA Based Transmission Scheduling” in Second National Conference on Innovations in Computing Techniques – '07 “, Mahendra Engineering College, Namakkal.
- D.Manohari presented the paper titled “Multistack Framework Autonomous Mobile P2P Networking with Web Services” in National Conference on NCRDCS '07, Trichy.
- C.Ezhil Star presented the paper titled “Efficient Web Usage Mining Using Closed Itemsets” in Second National Conference on Innovations in Computing Techniques-07, Namakkal.
- Lin Eby Chandra.J presented the paper titled “Authentication & Key Exchange Systems Using Dual Server Architecture” in Second National Conference on Innovations in Computing Techniques-07, Namakkal.
- Sumathi.M presented the paper titled “Reducing Packet Loss in AD HOC Networks Through Co-operative Caching” in Second National Conference on Innovations in Computing Techniques-07, Namakkal.
- G.Rajasekaran presented the paper titled “Agent Based Co-operative Anamoly Detection for Wireless AD HOC Networks: Under Real Time Attacks” in National Conference on Emerging Trends in Computer Communications and Networks”, Hosur.
- Nishanth Sudhakaran presented the paper titled “Python Extension Module for Frame Capture and Transmission” in National Conference on Extreme Engineering and Technological Advancements XETA – 2K7, Dharmapuri.
- S.Venkatesh presented the paper titled “Delay Tolerant Trajectory Compression and Encryption for Object Tracking Sensor Networks” in Second National Conference on Innovations in Computing Techniques-07, Namakkal.
- A.Subash Chandra presented the paper titled “Projected Clustering ” in Second National Conference on Innovations in Computing Techniques-07, Namakkal.
- Pradeep presented the paper titled “Secure Field Bus Protocol for Network Communication in Process Automation” in National Conference on Information Communication and Computing-07, Chennai.
- Akila.V presented the paper titled “Intelligent Data Miner” in National Conference on Computing Technologies, MEPCONCT '06, Sivakasi.
- Adlin Sheeba presented the paper titled “Estimation of Elbow Extension Angle from Motion Pictures” in National Conference on Advanced Computing NCACT'06, Coimbatore.

- J.Ramya presented the paper titled “Block Signature Techniques for Secure Authentication in Multicast” in National Conference on Recent Trends in Information Technology, NCRIIT '06, Virudhunagar.
- K.Sudha presented the paper titled “Agent Based Resource Discover Model with Negotiation for Grid Computing” in National Conference on Innovations in Computing Techniques”, NCICT'06, Namakkal.
- Vijaya Kumar.M presented the paper titled “Developing Platform Independent TCL Packet Interface” in National Conference on Recent Trends in Computing Applications, NCRTCA'06, SVCE Sriperumbudur.
- G.Logeshwari presented the paper titled “Distributed Data Mining Using Software Intelligent Agents” in National Conference on Recent Trends in Computing Applications”, NCRTCA'06, SVCE Sriperumbudur.
- A.Anandbabu presented the paper titled “Detecting & discarding DDoS & WORM n/w attack”
- M.Anu Radha presented the paper titled “Distributed knowledge management using semantic web based approach”
- B.Ardly Melba Reena presented the paper titled “Monitoring faults in the semantic based Dynamic service composition” in National Conference on Internet multimedia computing, Noorl Islam college of engineering, Thuckalay.
- J.Asvini presented the paper titled “Implementation of broadcast authentication protocol for Multimedia Communication”
- Binesh. G. T presented the paper titled “Vehicle Number Plate Recognition” in National Conference on Internet multimedia computing, Noorl Islam college of engineering, Thuckalay.
- Jebaralin Sheneegah I presented the paper titled “Semantic Labeling for Image Annotation and retrieval”
- Mahalakshmi M presented the paper titled “Semantic web service on query based system for Automatic invocation”
- Mercy Paul Selvan presented the paper titled “Dynamic Efficient Rekeying Management for Secure Multicast communications”
  
- Rajeshwari S presented the paper titled “Dynamic Framework for Executing Runtime Web Service Business Process” in National Conference on Internet multimedia computing, Noorl Islam college of engineering, Thuckalay.

- Reena R presented the paper titled “Towards Service Oriented Architecture for an Integrated E-Healthcare Network” in National Conference on Internet multimedia computing, Noorl Islam college of engineering, Thuckalay.
- Sravani Nalluri presented the paper titled “Multi layer key establishment scheme for wireless sensor networks” in National Conference on Internet multimedia computing, Noorl Islam college of engineering, Thuckalay.
- Srinivas Bodduna presented the paper titled “An acknowledgement based approach for the detection of routing misbehavior in MANETS using Scheduling based MAI” in National Conference on Advances in computer engineering and networking, ACENET'08, PSNA college of engineering and technology, Dindigul, 624622.
- Subashka S S presented the paper titled “Heterogeneous Privacy preserving data mining system”
- Umamaheswari G presented the paper titled “Secured web search using grid domain Migration”
- Venkatesh presented the paper titled “Secure Positioning with Hidden base station” in National Conference on Advances in computer engineering and networking, ACENET'08, PSNA college of engineering and technology, Dindigul, 624622.

• **Placement Status**

S.NO	Student Name	Register No	Company
1	Sowmya	31707405017	INFOSYS
2	Ezhil Star	31705405003	CTS
3	Ruth Sheela E	31706405012	HCL
4	Shalini M P	31706405008	HCL
5	Venkatesh S	31705405018	HCL
6	Amuthamozhi	31705405001	TATA ELXSI
7	Renugadevi	31705405011	TATA ELXSI
8	Nisanth Sudakaran	31705405008	US Technologies
9	Ardly Melba Reena B	31706405004	WIPRO
10	Asvini J	31706405004	TCS
11	Mahalaskshmi M	31706405008	TCS
12	Binesh G.T	31706405004	INFOSYS

- **Contact Address of Co-Ordinator of the PG Programme**

Name: Dr.G.S.Anandha Mala M.E., M.S., Ph.D

Address: Head of the Department  
Computer Science and Engineering  
St.Joseph's College of Engineering  
Old Mahapalipuram Road,  
Chennai -119.

Telephone: 044 – 2450 1060

E-mail: gs.anandhamala@gmail.com

## Department of Mechanical Engineering

Title of the Programme : **M.E (CAD)**

Curricula and Syllabi : As given in [www.annauniv.edu](http://www.annauniv.edu)

Faculty Profile

S.No	Name	Designation	Subject Teaching
1.	Dr.Vaddi Seshagiri Rao	Professor	1.Engineering System Dynamics. 2.Design for Manufacture, Assembly, Environment.
2.	Dr. N. Arunkumar	Professor	1.Integrated Mechanical Design. 2. Composite Material and Mechanics
3.	Dr.S.Sathish Kumar	Professor	1.Rapid Prototyping. 2.Enterprise Resource Planning.
4.	Mr. M. Muthukumarasamy	AP	1.Computer Aided Graphics.

- Brief Profile of each faculty : **Attached separately**
- Laboratory facilities exclusive to the PG programme

### CAD LAB

S.NO	NAME OF THE EQUIPMENT	NOs
1.	Computer	25
2.	Medium Production type CNC turning center	02
3.	Medium production type CNC machining center	02
4.	Vibration Exciters	02
5.	Vibration Pickups	05
6.	Data loggers and display system	02

## **Special Purpose**

- Software

S.NO	NAME OF THE SOFTWARE	NO. OF LICENCES
1.	High level languages – VC++/C/C++/JAVA/VB	10
2.	Drafting and Modeling software	30
3.	FEA Software	25
4.	Software for machining from a 3D model	10
5.	Vision & image processing software	02
6.	Data Processing Software	02
7.	FFT ANALYSER	01
8.	ADAMS SOFTWARE	02
9.	ANSYS & NASTRAN	30

- Research focus  
Vibration Isolation
- List of typical research projects

S.NO	NAME OF THE PROJECT	Sponsored by
1.	Novel Prosthetic Limb Incorporating Modified Hydraulic System	College
2.	Friction Welding of Dissimilar Metals	NAVAL Research Board
3.	Investigations of different Cooling Conditions on Drilling of GFRP Composites	NAVAL Research Board

- Industry Linkage
  1. IGP Engineers Pvt. Ltd., Chennai
  2. CORI Engineers Pvt. Ltd., Chennai
  3. Larsen & Turbo Limited, Chennai
  4. PARADIGM Technical services, Chennai
  5. Vi Micro system Pvt.Ltd
- Publications (if any) out of research in last three years out of master projects- Nil
- Placement status
 

-	1.Mr.Parthasarathi	- Sathyabama University
-	2.Mr. MuthuVaidyanathan	- Hindustan University

Contact address of co-ordinator of the PG programme

Name : Dr.Vaddi Seshagiri Rao  
 Address : Professor.  
 Department of Mechanical Engg,  
 St.Joseph's College of Engg,  
 Chennai – 119  
 Telephone : 044 – 24501060 Extn:5527  
 E-mail : [raosvaddi@hotmail.com](mailto:raosvaddi@hotmail.com)