

MANDATORY DISCLOSURE

NAME OF THE INSTITUTION : **ARKAY COLLEGE OF ENGINEERING & TECHNOLOGY**
Achanpally (Village)
Bodhan (Mandal)
Dist. Nizamabad
Andhra Pradesh
Telephone: 08467-225655, 225656, 225566
Fax: 08467-225656, 223062
E-mail: arkaycollege_80@rediffmail.com
Website: www.arkaycollege.com

NAME & ADDRESS OF PRINCIPAL : Prof. Mohd. Hafeezuddin
Chanchalguda, Hyderabad
Phone: (O):08467-225655, 225656
Mobile: 9848308317

NAME OF THE AFFILIATING UNIVERSITY : **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
KUKATPALLY, HYDERABAD, ANDHRA PRADESH

GOVERNANCE:

A) Members of the Board and their brief background:

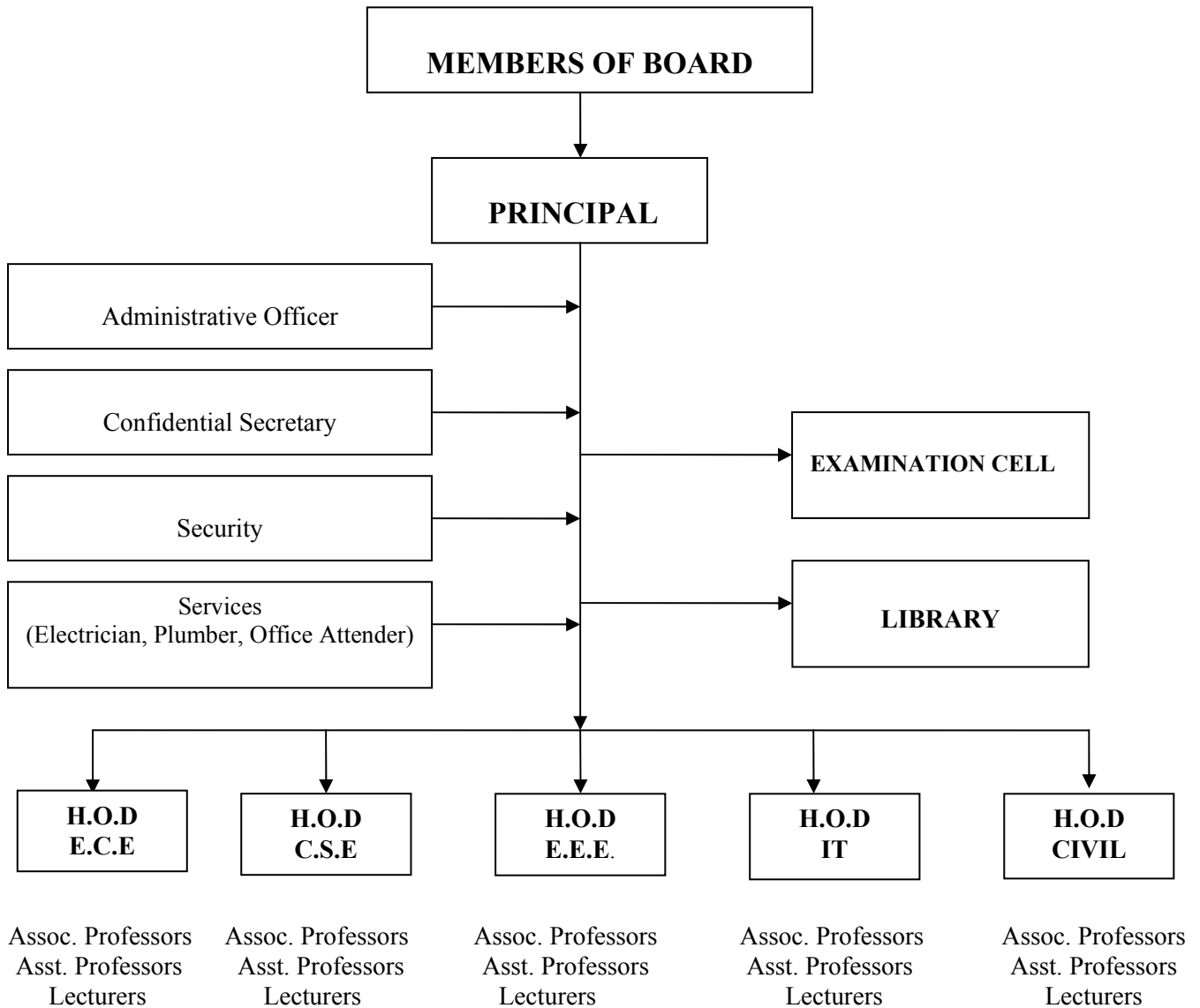
1. Mr. MOHD. MOHIUDDIN GHATALA : CHAIRMAN
Retired Engineer in Chief,
Housing Board PWD, Govt.of A.P.
2. Mr. SAQUIB RASOOL KHAN : SECRETARY
MBA, Ph.D
3. Mr. HUSSAIN MUQAVI : Joint. SECRETARY
4. PROF. MOHD. HAFEEZUDDIN : PRINCIPAL
5. Mr. MOHD FAYAZUDDIN : MEMBER
M.Sc, (Applied Maths), PGDCA
Has more than 15 years Experience
in setting up Laboratories in Engineering
Colleges.

- Modification yet to be done in Governing Body

Frequency of Governing Body meeting:

The Governing Body meets once a Semester

Organizational Chart and Processes



Organizational processes:

Like minded engineering colleges, have formed a Planning, Coordinating Monitoring and Control Board, (PCMB) with the following members

- 1) Mr. Kareemullah khan, Chairman PCMB. (Former Engineer-in-Chief. Govt. of A.P)
- 2) Mr. Mohd Ghousuddin, Vice-Chairman PCMB (Former Engineer-in-Chief. Govt. of A.P)
- 3) Mr. Ahmedullah khan, Member PCMB (Former member, NAAC)
- 4) Mr. S.M. Jinnah, Member PCMB (Former Engineer-in-chief, Irrigation Dept. Govt. of A.P)
- 5) Mr. Mohd Inam-ul-Haq, Member PCMB (Former Chief Engineer, Govt. of A.P)
- 6) Mr. Mohiuddin Ghatala, Member PCMB (Former Chief Engineer, Govt. of A.P)
- 7) Mr. Md. Mahmood Ali, Member PCMB (Former Chief Engineer, Irrigation Dept. Govt. of A.P)

The PCMB conducts a Common Entrance Tests, declares the results on the web site: www.pcmboard.org and does the admissions in the colleges attached to it. The PCMB also conducts a review meeting every half year, for improving the academic performance and infra structural facilities in colleges associated with the Board.

Building:

1. Total Built up Area for the existing programme(s)

Particulars	Area required as per norms (Sq.M)	Building with RCC Roof (Sq.M)	Building with Sheet Roof (if suitable for Educational Institution) (Sq.M)	Total Sanctioned Intake (last 4 years for Engg/Pharm/HMCT/Arch. Etc. 2 yrs MBA & 3 yrs MCA)	Built up Area Available per Student (Sq.M)	Total Area Available (Sq.M)
Instructional Area (Carpet Area)	5940	8700	---	990	8.78	8700
Administrative Area (Carpet Area)	990	1800	---	990	1.82	1800
Amenities (Carpet Area)	1980	2700	---	990	2.73	2700
Circulation & others	2673	3540	---	990	3.57	3540
Total	11583	16740	---	990	16.90	16740

2. Instructional Area:

Particulars	Number of Rooms	Carpet Area of Each Room (Sq.M)	Total Area (Sq.M)
Class Rooms	24	24 X66	1584
Tutorial Hall	10	10 X36	360
Drawing Hall (*)	02	02 X175	350
Computer Center	04	02 X330	660
		02X150	300
Library	01	01 X500	500
Laboratories & Workshops	17 & 1	4950	4950
Total			8704

Nature and Extent of Involvement of Faculty and Students in Academic Affairs Improvements:

There is a continuous interaction between principal / faculty /students to find ways and means to improve academic performance of students. Regular feedback is obtained from students regarding performance of each faculty member. The feedbacks together with results obtained by each faculty members in his/her respective subjects taught, are used to evaluate performance of each faculty member. Corrective action wherever necessary is taken to improve performance of faculty.

Laboratories facilities / Equipment are installed / upgraded in consultation with faculty members. There is a class advisor for each class of each branch whose duties are as follows:

1. To get attendance details from all faculty and submit to the HOD of Dept. on 1st of every month.
2. To collect internal exam marks from faculty members and submit to HOD of the Branch.
3. To maintain discipline of the respective class and inform any acts of indiscipline to the HOD/Principal.
4. To keep in close touch with students of their class and inform their problems to the HOD / Principal
5. To coordinate with the examination cell and help them in seating arrangement.
6. Follow up fees payment.
7. Inform parents over phone / through a letter, performance of students with respect to academics and attendance especially in case of weaker students.
8. Ensure syllabus is being covered as per Teaching Schedule. Allocate additional classes to those faculty members who are lagging behind schedule
9. Ensure faculty is writing Teaching Diaries regularly.

Mechanism/Norms & Procedure for Democratic/good Governance:

Systems and procedures have been defined for all key college activities.

Example: systems and procedures have been laid out for

Library : Timings
Number of books to be issued at a time,
Penalty for late return of books
Rules regarding reference book issuance.

Discipline : Attendance of faculty
Late entry of students to college –permissible limit,
Behavior of students towards faculty,
Behavior of faculty towards students

Grievance redressal : Free access to HODs/Principal at all time for grievance redressal.

**Internal/
University Exams** : Rules to be followed strictly as per norms laid down by University.

Student Feedback on Institutional Governance / Faculty performance.

Principal/HODs and Class Advisors are in regular touch with students in respect of issues such as:

- Syllabus coverage.
- Proficiency of lecturers
- Availability of books
- Facilities for sports and games
- Facilities for transport.

The feedback is reviewed and necessary steps are taken to improve matters. For example: if unsatisfactory feedback is received about any faculty member, the HOD attends his lecture and if the grievance is found to be genuine, counseling is done to faculty member. If, in spite of this, there is no improvement, the faculty member is replaced.

Similarly student's feedback in respect of extracurricular activities or availability of books, transport facilities etc are taken note of and deficiencies, if any are removed.

Grievance Redressal Mechanism for Faculty, Staff and Students:

College maintains an open door policy towards all grievances emanating from faculty or students. Students are free to contact HOD's/Principal at any time not only during college hours but also if necessary after office hours either on the phone or through personal visits to residence of faculty members/Principal.

Similarly, regular faculty meetings are held in Principal's office once a week where all-important issues relating to college matters are addressed.

PROGRAMMES APPROVED BY AICTE:

ELECTRICAL & ELECTRONICS ENGINEERING

Number of seats	: 60
Duration	: 4 Years (B.Tech Degree)
Fee	: Rs. 30,200/-

FACULTY:

The following is the list of Faculty members who are absorbed permanent faculty after serving for one year on probation.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

S.No	Name of the Faculty	Designation	Qualifications
1	Mr. Mubeen Shaikh	Asst.Prof	M.E
2	Mr. Nitin Subhash Rao	Asst.Prof	B.E
3	Mr. Sk. Azhar	Asst.Prof	B.Tech
4	Mr. K.Sanjay Kulkarni	Asst.Prof	B.E(M.E)
5	Mrs. A.Susheela	Asst.Prof	M.Tech
6	Mr. Mohd Abdul Almas	Lecturer	B.Tech
7	Mr.Mohd.Ameenuddin Ahmed	Assoc.Prof	M.Tech,(Ph.D)
8	Mr.Syed Shabbir Ahmed	Assoc.Prof	M.Tech
9	Mr.Azam Pasha Quadri	Assoc.Prof	M.Tech

10	Ms.G.Shravanthi	Lecturer	B.Tech
11	Mr.Mohd Abdul Layeeq	Lecturer	B.Tech
12	Mr.B.Ravi	Lecturer	B.Tech
13	Mr.Pankaj Bhushan Naike	Lecturer	B.Tech

ELECTRONICS & COMMUNICATION ENGINEERING

Number of seats : 90

Duration : 4 Years (B.Tech Degree)

Fee : Rs. 30,200/-

Faculty:

The list of Faculty members is given below. All are absorbed as permanent faculty after serving for one year on probation.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

S.No.	Name of the Faculty Member	Designation	Qualifications
1	Mr. Sachin Ahankari	Assoc.Prof	B.E, M.Tech
2	Mr. Md.Salahuddin	Asst.Prof	B.Tech(M.Tech)
3	Mr.S.Vishnu	Asst.Prof	B.E, M.Tech
4	Ms. Kahkashan Anjum	Asst.Prof	B.Tech
5	Mr. T. Venkat Ramana	Asst.Prof	B.Tech(M.Tech)
6	Mrs. G. Ramadevi	Asst.Prof	B.Tech(M.Tech)
7	Mr. Meer Tabrez Ali	Asst.Prof	B.Tech
8	Mr. P.Ramesh	Asst.Prof	B.E(M.Tech)
9	Mrs. Nazia Kouser	Asst.Prof	M.Tech(Ph.D)
10	Mr.Manohar	Asst.Prof	M.Tech
11	Mr.Srikanth	Asst.Prof	M.Tech
12	Mr.L.Narayana Rao	Lecturer	B.Tech(M.Tech)
13	Mr.C.Gajanand	Lecturer	B.Tech
14	Mr.M.Raj Kumar	Lecturer	B.Tech(M.Tech)
15	Mr.Ahmed Alauddin	Lecturer	B.Tech
16	Mr.A.Santosh	Lecturer	B.Tech

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Number of Seats : 45
Duration : 4 Years (B.Tech Degree)
Fee : Rs. 30,200/-

Faculty:

The list of Faculty members is given below. All are absorbed as permanent faculty after serving for one year on probation.

DEPARTMENT OF CSE

S.No.	Name of the Faculty Member	Designation	Qualifications
1	Mr. Azeez Ahmed	Assoc.Prof	MCA(M.Tech)
2	Mr. Imtiyaz Khan	Asst.Prof	B.Tech(M.Tech)
3	Mr. Arshad Shareef	Asst.Prof	M.Tech
4	Ms. Pallavi K.	Asst.Prof	B.Tech
5	Mr.Umer Badavi	Asst.Prof	B.Tech
6	Mr.Azhar Mohiuddin	Lecturer	B.Tech
7	Mr.Shaik Shah Wali	Assoc.Prof	M.Tech(Ph.D)
8	Mr.Mohd.Anwar Ali	Assoc.Prof	M.Tech
9	Ms.T.Sandhya	Lecturer	B.Tech
10	Mr.Ursa Sayeed	Lecturer	MCA
11	Ms.M.Shravanthi	Lecturer	B.Tech
12	Mr.Mazhar Hussain	Lecturer	B.Tech

DEPARTMENT OF INFORMATION TECHNOLOGY

Number of Seats : 60
Duration : 4 Years (B.Tech Degree)
Fee : Rs. 30,200/-

Faculty:

The list of Faculty members is given below. All are absorbed as permanent faculty after serving for one year on probation.

DEPARTMENT OF IT

S.No.	Name of the Faculty Member	Designation	Qualifications
1	Mrs. Y Ambica	Asst.Prof	B.Tech(M.Tech)
2	Mr. M.A.Aasim	Asst.Prof	B.Tech
3	Mr. Syed Kaleemuddin Zubair	Asst.Prof	B.Tech

4	Mrs. P Radhika	Asst.Prof	B.Tech
5	Mr.Sk.Asrar Ahmed	Asst.Prof	M.Tech
6	Ms. Asma Sultana	Asst.Prof	B.Tech
7	Mr. Anil Kumar	Asst.Prof	MCA
8	Ms.Parveen Sultana	Asst.Prof	B.Tech
9	Mr.Rajeshwar	Asst.Prof	MCA
10	Mr.G.Raju	Asst.Prof	B.Tech(M.Tech)
11	Mr.Mohd.Abdul Muqtader	Assoc.Prof	B.Tech
12	Ms.M.Chandana	Lecturer	M.S

CIVIL ENGINEERING

Number of seats : 60

Duration : 4 Years (B.Tech Degree)

Fee : Rs. 30,200/-

Faculty:

The list of Faculty members is given below. All are absorbed as permanent faculty after serving for one year on probation.

DEPARTMENT OF CIVIL ENGINEERING

S.No.	Name of the Faculty Member	Designation	Qualifications
1	Mr.Subash	Assoc.Prof	M.Tech(IIT Madras)
2	Mr. K.Srinivas	Assoc.Prof	B.E
3	Mr. P.Rajashekhar	Assoc.Prof	M.Tech(Ph.D)
4	Mr.D.Lokesh	Asst.Prof	B.E

DEPARTMENT OF HUMANITIES & SCIENCES

The list of Faculty members is given below. All are absorbed as permanent faculty after serving for one year on probation.

S.No.	Name of the Faculty Member	Designation	Qualification
1	Mr.Ateeq Ahmed	Assoc.Prof	M.Sc, B.Ed, (Ph.D)
2	Mr.P.Venkat Rao	Assoc.Prof	M.Sc, B.Ed, (Ph.D)

3	Mr.Y.Gangadhar	Asst.Prof	M.Sc, M.Phil
4	Mr.K.Rajashekhar	Asst.Prof	M.A
5	Mr.Mohd. Razzak Pasha	Asst.Prof	M.Sc, M.Phil, (M.Tech)
6	Mr.S.Mohan Rao	Asst.Prof	M.A (M.Phil)
7	Mrs.Shvetha Deshpande	Asst.Prof	M.A
8	Mr.Afzal Hussain	Asst.Prof	M.Sc (Physics)
9	Mr.Chiluka Narsimloo	Lecturer	M.A(Eco)
10	Mr.Syed Asif	Lecturer	M.Sc(Maths)
11	Mr.P.Sudhaker	Lecturer	M.A(English)
12	Mr.Sheshendrabhushanam.K	Lecturer	M.Sc(Maths)
13	Mr.Syed Irfan	Lecturer	M.A(English)
14	Mr.N.Saibaba	Lecturer	M.Com
15	Mrs.Jyothi.B	Lecturer	M.Sc(Chemistry)
16	Mr.Md.Salauddin	Lecturer	M.A(English),M.Ed
17	Mr. Mohammed Khaleel	Asst.Prof	M.A(English),(M.Phil)
18	Mr.Muhammed Imran	Lecturer	M.Sc(Physics)
19	Mr.C.Venugopal Hari Babu	Asst.Prof	M.Sc(Chemistry)
20	Ms.T.Deepthi	Lecturer	M.A(English),B.Ed
21	Mrs.P.Gangalaxmi	Lecturer	M.Sc (Maths)

22	Ms.Ch.Swathi	Lecturer	B.Com,MBA
23	Dr.Sabiha Anees Sultana	Professor	M.Sc, Ph.D
24	Ms.Shabana Begum	Lecturer	M.Sc (Maths)

Consolidated Details of Department of Humanities

Total Number of Teaching Staff	Sanctioned Intake (2008-2009)	Faculty: Student Ratio required as per Sanctioned Intake	Total No. of Students admitted in the Department	Faculty: Student Ratio as per the admissions
24	285	1:15	285	1 : 12

Placement Facility: Through [www.Jobs Chronicle.com](http://www.JobsChronicle.com) facility, students are provided Job cards through which they create their own login ID and password and create their resumes. A wide range of companies associated with Jobs Chronicle.Com accesses these resumes

Free access to companies, placement agencies, and other employers is provided to the Resume Database.

First batch graduated this summer and 15 students were placed through college placement service. Nearly 20% of Final Year class has registered with Institute for Electronic Governance, a government of AP undertaking, which provides training through seminars to develop soft skills to face interviews and subsequently arranges interviews with 6 to 8 reputed companies. The college has been recognized to function as Jawahar Knowledge Center programme of Campus Placement Mission (CPM), an initiative of Institute for Electronic Governance (IEG) created by Information Technology & Communications Department (IT & C), Government of Andhra Pradesh (GoAP) with objective to promote the Institute, Industry and Government Interaction, whereby institutions can produce readily employable graduates from academic year 2007-08.

Consolidated Details of Teaching Staff Strength

S.No	Name of the Department	Number of Teaching Staff	Total No. of students in the department as per Sanctioned Intake(II+III+IV)	Faculty: Student Ratio required as per sanctioned intake	Total No. of students in the Department II + III + IV B.Tech	Faculty: Student Ratio as per admissions
1	EEE	13	180	1:15	133	1 : 10
2	ECE	16	210	1:15	200	1 : 13
3	CSE	12	135	1:15	132	1:11
4	IT	12	120	1:15	114	1 : 10
5	CIVIL	04	30	1:15	30	1:8

**CONSOLIDATED DETAILS OF TEACHING STAFF STRENGTH
FOR
DEPARTMENT OF HUMANITIES**

Total Number of Teaching Staff	Sanctioned Intake (2008-2009)	Faculty: Student Ratio required as per Sanctioned Intake	Total No. of Students admitted in the Department	Faculty: Student Ratio as per the admissions
24	285	1:15	285	1:12

PROFILE OF PRINCIPAL

Name of the Principal : Prof. Mohd Hafeezuddin

Qualification : M.Tech, Ph.D

Date of Joining the Institution : 02.09.2002

Experience : 20 Years in Industrial, 7 Years in academic

Scale : Rs.18000-400-23000/-

D A : Rs.8336/-

Total Emoluments : Rs.38, 800/-

Employment at ARKAY

Working as Principal, Arkay College of Engg & Tech, Bodhan

DETAILS OF TEACHING FACULTY: [FULL TIME]

S.No.	Name of the Faculty Member	Designation	Qualification	Experience (In Years)	Date of joining the Institution Full time
1	Prof.Mohd.Hafeezuddin	Principal	M.Tech, Ph.D, PGDHE	27 Years (Industrial + Teaching)	02-09-2002
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING					
1	Mr. Mubeen Shaikh	Asst.Prof	M.E	06	04-07-2003
2	Mr. Nitin Subhash Rao	Asst.Prof	B.E	04	04-07-2005
3	Mr. Sk. Azhar	Asst.Prof	B.Tech	03	01-09-2006
4	Mr. K.Sanjay Kulkarni	Asst.Prof	B.E(M.E)	03 Years Teaching & 08 Years Industrial	03-10-2006
5	Mrs. A.Susheela	Asst.Prof	M.Tech	02	28-05-2007
6	Mr. Mohd Abdul Almas	Lecturer	B.Tech	02	05-07-2007
7	Mr.Mohd.Ameenuddin Ahmed	Assoc.Prof	M.Tech,(Ph.D)	03 Years Teaching & 30 Years Industrial	14-07-2008
8	Mr.Syed Shabbir Ahmed	Assoc.Prof	M.Tech	09	14-07-2008
9	Mr.Azam Pasha Quadri	Assoc.Prof	M.Tech	09	14-07-2008
10	Ms.G.Shravanthi	Lecturer	B.Tech	02	04-10-2008
11	Mr.Mohd Abdul Layeeq	Lecturer	B.Tech	01	04-10-2008

12	Mr.B.Ravi	Lecturer	B.Tech	01	04-10-2008
13	Mr.Pankaj Bhushan Naike	Lecturer	B.Tech	01	01-07-2009

DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

1	Mr. Sachin Ahankari	Assoc.Prof	B.E, M.Tech	08	15-03-2001
2	Mr. Md.Salahuddin	Asst.Prof	B.Tech(M.Tech)	05	09-08-2004
3	Mr.S.Vishnu	Asst.Prof	B.E, M.Tech	04	05-08-2005
4	Ms. Kahkashan Anjum	Asst.Prof	B.Tech	03	06-03-2006
5	Mr. T. Venkat Ramana	Asst.Prof	B.Tech(M.Tech)	03	21-03-2006
6	Mrs. G. Ramadevi	Asst.Prof	B.Tech(M.Tech)	03	24-07-2006
7	Mr. Meer Tabrez Ali	Asst.Prof	B.Tech	03	15-10-2006
8	Mr. P.Ramesh	Asst.Prof	B.E(M.Tech)	03	03-02-2006
9	Mrs. Nazia Kouser	Asst.Prof	M.Tech(Ph.D)	05	19-07-2004
10	Mr.Manohar	Asst.Prof	M.Tech	03	14-07-2008
11	Mr.Srikanth	Asst.Prof	M.Tech	03	14-07-2008
12	Mr.L.Narayana Rao	Lecturer	B.Tech(M.Tech)	04	04-10-2008
13	Mr.C.Gajanand	Lecturer	B.Tech	01	04-10-2008
14	Mr.M.Raj Kumar	Lecturer	B.Tech(M.Tech)	02	17-03-2009

15	Mr.Ahmed Alauddin	Lecturer	B.Tech	--	07-07-2009
16	Mr.A.Santosh	Lecturer	B.Tech	--	07-07-2009
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING					
1	Mr. Azeez Ahmed	Assoc.Prof	MCA(M.Tech)	08	01-11-2001
2	Mr. Imtiyaz Khan	Asst.Prof	B.Tech(M.Tech)	03	01-07-2006
3	Mr. Arshad Shareef	Asst.Prof	M.Tech	03	14-07-2006
4	Ms. Pallavi K.	Asst.Prof	B.Tech	03	01-10-2006
5	Mr.Umer Badavi	Asst.Prof	B.Tech	02 Years Teaching & 03 Years Industrial	18-09-2007
6	Mr.Azhar Mohiuddin	Lecturer	B.Tech	02	04-10-2007
7	Mr.Shaik Shah Wali	Assoc.Prof	M.Tech(Ph.D)	14	14-07-2008
8	Mr.Mohd.Anwar Ali	Assoc.Prof	M.Tech	09	14-07-2008
9	Ms.T.Sandhya	Lecturer	B.Tech	01	03-10-2008
10	Mr.Ursa Sayeed	Lecturer	MCA	02	01-07-2009
11	Ms.M.Shravanthi	Lecturer	B.Tech	01	01-07-2009

12	Mr.Mazhar Hussain	Lecturer	B.Tech	--	03-07-2009
DEPARTMENT OF INFORMATION TECHNOLOGY					
1	Mrs. Y Ambica	Asst.Prof	B.Tech(M.Tech)	04	29-06-2005
2	Mr. M.A.Aasim	Asst.Prof	B.Tech	04	04-07-2005
3	Mr. Syed Kaleemuddin Zubair	Asst.Prof	B.Tech	03	02-01-2006
4	Mrs. P Radhika	Asst.Prof	B.Tech	03	01-03-2006
5	Mr.Sk.Asrar Ahmed	Asst.Prof	M.Tech	03	07-08-2006
6	Ms. Asma Sultana	Asst.Prof	B.Tech	03	11-09-2006
7	Mr. Anil Kumar	Asst.Prof	MCA	03	05-07-2007
8	Ms.Parveen Sultana	Asst.Prof	B.Tech	02	03-10-2007
9	Mr.Rajeshwar	Asst.Prof	MCA	04	15-11-2007
10	Mr.G.Raju	Asst.Prof	B.Tech(M.Tech)	02	03-12-2007
11	Mr.Mohd.Abdul Muqtader	Assoc.Prof	B.Tech	07	14-07-2008
12	Ms.M.Chandana	Lecturer	M.S	01	03-07-2009

DEPARTMENT OF CIVIL ENGINEERING

1	Mr.Subash	Assoc.Prof	M.Tech (IIT Madras)	01 year Teaching & 14 years Industrial	14-07-2008
2	Mr. K.Srinivas	Assoc.Prof	B.E	01 Year Academic & 13 Years Industrial	14-07-2008
3	Mr. P.Rajashekhar	Assoc.Prof	M.Tech(Ph.D)	16 Years Teaching + 02 Years Industrial	14-07-2008
4	Mr.D.Lokesh	Asst.Prof	B.E	02 Years Industrial	03-07-2009

DEPARTMENT OF BASIC SCIENCES & HUMANITIES

1	Mr.Ateeq Ahmed	Assoc.Prof	M.Sc, B.Ed, (Ph.D)	09	26-12-1999
2	Mr.P.Venkat Rao	Assoc.Prof	M.Sc, B.Ed, (Ph.D)	07	01-01-2001
3	Mr.Y.Gangadhar	Asst.Prof	M.Sc, M.Phil	03	19-07-2005
4	Mr.K.Rajashekhar	Asst.Prof	M.A	06	03-10-2006
5	Mr.Mohd. Razzak Pasha	Asst.Prof	M.Sc, M.Phil, (M.Tech)	01	10-04-2007
6	Mr.S.Mohan Rao	Asst.Prof	M.A (M.Phil)	01	02-07-2007
7	Mrs.Shvetha Deshpande	Asst.Prof	M.A	01	15-05-2007
8	Mr.Afzal Hussain	Asst.Prof	M.Sc (Physics)	01	01-08-2007
9	Mr.Chiluka Narsimloo	Lecturer	M.A(Eco)	03	05-11-2007

10	Mr.Syed Asif	Lecturer	M.Sc(Maths)	01	05-11-2007
11	Mr.P.Sudhaker	Lecturer	M.A(English)	01	05-11-2007
12	Mr.Sheshendrabhushanam. K	Lecturer	M.Sc(Maths)	01	06-11-2007
13	Mr.Syed Irfan	Lecturer	M.A(English)	01	06-11-2007
14	Mr.N.Saibaba	Lecturer	M.Com	07	06-11-2007
15	Mrs.Jyothi.B	Lecturer	M.Sc(Chemistry)	05	06-11-2007
16	Mr.Md.Salauddin	Lecturer	M.A(English),M.Ed	03	06-11-2007
17	Mr. Mohammed Khaleel	Asst.Prof	M.A(English),(M.Phil)	03	23-09-08
18	Mr.Muhammed Imran	Lecturer	M.Sc(Physics)	02	23-09-08
19	Mr.C.Venugopal Hari Babu	Asst.Prof	M.Sc(Chemistry)	02	23-09-08
20	Ms.T.Deepthi	Lecturer	M.A(English),B.Ed	--	01-01-2009
21	Mrs.P.Gangalaxmi	Lecturer	M.Sc (Maths)	--	01-07-2009
22	Ms.Ch.Swathi	Lecturer	B.Com,MBA	--	01-07-2009
23	Dr.Sabiha Anees Sultana	Professor	M.Sc, Ph.D	17	01-07-2009
24	Ms.Shabana Begum	Lecturer	M.Sc (Maths)	--	07-07-2009

Fee Structure of the Institution:

S.No.	Category	CET Quota		Management Quota	
		Fixed by the State Fee Committee	Being charged by the Institution	Fixed by the State Fee Committee	Being charged by the Institution
1	Admission Fee	Rs 2,000/-	Rs 2,000/-	Rs 2,000/-	Rs 2,000/-
2	Tuition Fee`	Rs 30,200/-	Rs 30,200/-	Rs 91,700/-	Rs 30,200/-
3	University Fee (Exam.Fee,Reg.Fee)	Rs 2,500/-	Rs 2,500/-	Rs 2,500/-	Rs 2,500/-
4	Hostel Fee (Rent etc)	---	---	---	---
5	Laboratory Fee	Rs 500/-	Rs 500/-	Rs 500/-	Rs 500/-
6	Library Fee	Rs 500/-	Rs 500/-	Rs 500/-	Rs 500/-
7	Any other	---	---	---	---
Total Fee		Rs 35,700/-	Rs 35,700/-	Rs 97,200/-	Rs 35,700/-

Full fees should be paid before the commencement of class works.

Admission:

Course	Intake & Year of Approval
Computer Science.Engg	45 (2009-2010)
Electrical & Electronics Engg	60 (2009-2010)
Electronics & Communication Engg	90 (2009-2010)
Information Technology	60 (2009-2010)
Civil Engineering	60 (2009-2010)

Number of Students admitted in the last three years:

Course	2008-2009		2007-2008		2006-2007	
	Sanctioned	Actual	Sanctioned	Actual	Sanctioned	Actual
	Intake	Admissions	Intake	Admissions	Intake	Admissions
B.Tech	285	285	195	191	195	133

Admission Procedure:

The admissions are based on the rank obtained in EAMCET & MEMCET (Management Quota).
EAMCET is conducted by JNTU, Kukatpally, Hyderabad (www.jntu.ac.in)
MEMCET is conducted by PCMB, Hyderabad (www.pcmboard.org)
Details for admissions against management seats are available on www.pcmboard.org

Application Form

Downloadable application form is available on www.pcmboard.org

List of applicants

List of candidates who have applied along with percentage & rank card is available on www.pcmboard.org

Results of admission under management seats/vacant seats:

All details are available on www.pcmboard.org

Information on infrastructure and other resources available**DETAILED PARTICULARS OF LIBRARY**

AREA OF LIBRARY	500 Sq m
REFERENCE HALL	254 Sq m
SEATING CAPACITY	300
TOTAL NO OF VOLUMES	12560
TOTAL NO OF TITLES	1586
DAILY BOOK RENEWALS	70-80
DAILY USERS OF REFERENCE BOOKS	40-50
DAILY USERS OF NEWS PAPERS AND JOURNALS	50-60
NO OF BOOKS ISSUED TO STUDENTS	2500
NO OF BOOKS ISSUED TO FACULTY	1000
NO OF SHELVES (RACKS)	55
REPROGRAPHICS FACILITY	01

FOLLOWING ARE THE DAILY NEWS PAPERS, MAGAZINES AND JOURNALS AVAILABLE IN LIBRARY:

A. NEWS PAPERS:

1. DECCAN CHRONICLE
2. THE HINDU
3. INDIAN EXPRESS
4. EENADU
5. ANDHRA JYOTHI

6. SIASAT
7. VARTHA
8. SAKSHI

B. JOURNALS:

NATIONAL JOURNALS

1. ELECTRONICS FOR YOU
2. LINUX FOR U
3. ELECTRONICS TODAY
4. ENGINEERING TODAY
5. PC QUEST
6. e-POWER
7. INFORMATION TECHNOLOGY
8. ELECTRICAL INDIA
9. LIVING DIGITAL
10. DOWN TO EARTH
11. INDIAN JOURNAL OF POWER RIVER VALLEY
12. START WINNING TODAY
13. EXPRESS COMPUTER
14. UNIVERSAL EDUCATION
15. Benef IT
16. JOURNAL OF ADVANCED RESEARCH IN COMPUTER ENGINEERING
17. ICFAI JOURNAL OF SYSTEM MANAGEMENT
18. TECHNOLOGY SPECTRUM
19. ICFAI JOURNAL OF SCIENCE & TECHNOLOGY
20. ICFAI JOURNAL OF INFORMATION TECHNOLOGY
21. INDUSTRIAL AUTOMATION
22. POWER LINE
23. EMBEDDED FOR YOU
24. COOLING INDIA
25. SMART CARD TODAY
26. ELECTRONICS POWER
27. JOURNAL OF ENTREPRENEURSHIP
28. FACTS FOR YOU
29. GREEN ENERGY WORLD
30. THE CAREER GUIDE

31. JOURNAL OF COMPUTING AND COMMUNICATION TECHNOLOGY
32. TECHNOLOGY FOCUS
33. RESEARCH JOURNAL OF ENGINEERING & TECHNOLOGY
34. CIVIL ENGINEERING & CONSTRUCTION REVIEW
35. NEW BUILDING MATERIALS AND CONSTRUCTION WORLD
36. JOURNAL OF INDIAN WATER WORKS
37. INDIAN JOURNAL OF HIGHWAY
38. JOURNAL OF STRUCTURAL ENGINEERING
39. BUSINESS & MANAGEMENT
40. JOURNAL OF SCIENCE TECHNOLOGY AND MANAGEMENT
41. MODERN MACHINE TOOLS
42. NANOTECHNOLOGY
43. ELECTRICAL & ELECTRONICS
44. TELE NET
45. FOUNDRY
46. JOURNAL OF ROAD CONGRESS
47. CHEMICAL WORLD
48. ENGLISH STUDIES
49. PHYSICS
50. TELUGU VIDYARTHI
51. MBA REVIEW
52. UNIVERSITY NEWS(ASSOCIATION OF INDIAN UNIVERSITIES)
53. ITCOM JOURNAL
54. LIGHTING INDIA
55. GEOSPATIAL TODAY
56. ELECTRONICS BAZAR

INTERNATIONAL JOURNALS

57. SOFTWARE ENGINEERING NOTES
58. COMPUTER COMMUNICATION REVIEW
59. OPERATING SYSTEMS REVIEW
60. MULTIMEDIA
61. INTERNATIONAL JOURNAL OF SYSTEMS AND TECHNOLOGIES
62. INTERNATIONAL JOURNAL OF COMPUTER SCIENCES AND INFORMATION TECHNOLOGY
63. INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE AND COMPUTATIONAL RESEARCH

64. INTERNATIONAL JOURNAL OF INNOVATIONS IN ELECTRICAL POWER SYSTEMS
 65. INTERNATIONAL JOURNAL OF CIVIL ENGINEERING
 66. INTERNATIONAL JOURNAL OF ENGINEERING UNDER UNCERTAINTY: HAZARDS, ASSESSMENT AND MITIGATION
 67. INTERNATIONAL JOURNAL OF PURE AND APPLIED CHEMISTRY
 68. INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION CONTROL AND MANAGEMENT
 69. INTERNATIONAL JOURNAL OF ELECTRICAL SYSTEMS CONTROL

NOTE: CIRCULATION OF BOOKS & REFERENCE FACILITY IS GIVEN TO THE STUDENTS ON ALL WORKING DAYS FROM 8:00AM TO 8:00 PM.

S.No	Course(s)	Number of titles of the books Available	Number of volumes Available	Number of Journals Available	
				National	International
01	EEE	264	2850	10	03
02	ECE	282	3172	10	02
03	CSE	257	2000	07	02
03	IT	260	2108	08	02
04	CIVIL	255	1100	09	02
05	S&H	268	1330	12	02
TOTAL		1586	12560	56	13

LABORATORIES

DETAILS OF LABORATORIES (WITH FLOOR AREA IN SQ.M)

S.NO	NAME OF THE LABORATORY	CARPET AREA AVAILABLE (SQ.M.)
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING		
1.	ELECTRICAL MACHINES	250
2.	CONTROL SYSTEMS LAB	250
3.	ELECTRICAL MEASUREMENTS	250
4.	HYDRAULICS FLUID MECHANICS LAB	250
5.	POWER ELECTRONICS LAB	250
TOTAL		1250
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING		
1.	NETWORK THEORY LAB	250
2.	ELECTRONIC DEVICES & CIRCUITS LAB	250
3.	PULSE & DIGITAL CIRCUITS AND IC APPLICATIONS LAB	250
4.	ANALOG & DIGITAL COMMUNICATIONS LAB	250
5.	MICROPROCESSOR,ECAD AND ECA LAB	250
6.	MICROWAVE ENGINEERING AND OPTICAL COMMUNICATIONS LAB	250
TOTAL		1500
DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY		
1	COMPUTER LAB-I	330
2	COMPUTER LAB-II	330
3	COMPUTER LAB-III	150
4	ENGLISH LANGUAGE COMMUNICATIONS SKILLS (COMPUTER LAB-IV)LAB	150
4	IT WORKSHOP	150
5	IT WORK SHOP	150
TOTAL		1260
DEPARTMENT OF CIVIL ENGINEERING		
1	ENGINEERING PHYSICS AND APPLIED CHEMISTRY LAB	250
2	ENGINEERING WORKSHOP PRACTICE	900
3	SURVEYING LAB-I	250
4	SURVEYING LAB-II	250
5	STRENGTH OF MATERIALS LAB	250
TOTAL		1900

ELECTRICAL & ELECTRONICS LAB

ELECTROMACHANICS LAB

AVAILABLE EQUIPMENTS IN ELECTROMECHANICS LAB (I & II)

S.No	NAME OF THE EQUIPMENT	QUANTITY
1	MAIN PANNEL BOARD & D.C CONTROLLED RECTIFIER	1
2	DC MACHINES	4
	(1) DC SHUNT MOTOR AND DC SHUNT GENERATOR SET WITH 3POINT STARTER. MOTOR : 5HP, 220V, 1500rpm GENERATOR : 3.7 KW, 220V, 1500rpm	2
	(2) DC SHUNT MOTOR AND DC SERIES GENERATOR SET WITH 3POINT STARTER. MOTOR : 5HP, 220V, 1500rpm GENERATOR : 3.7 KW, 220V, 1500rpm	2
	(3) DC SHUNT MOTOR AND DC COMPOUND GENERATOR SET WITH 3POINT STARTER. MOTOR : 5HP, 220V, 1500rpm GENERATOR : 3.7 KW, 220V, 1500rpm	1
	(4) DC SERIES MOTOR WITH 2POINT STARTER. (TWO IDENTICAL MACHINES) MOTOR : 3KW, 220V, 1500rpm	1
	(5) DC SHUNT MOTOR WITH 3 POINT STARTER 5HP, 220V, 1500rpm	1
	(6) DC COMPOUND MOTOR WITH 4 POINT STARTER 5HP, 220V, 1500rpm	1
3	INDUCTION MOTORS AND ALTERNATORS	
	(1) SQUIRREL CAGE INDUCTION MOTOR 3 Phase,7.5HP, 415V, 1440rpm,50Hz	1
	(2) INDUCTION MOTOR 1 Phase,3HP, 230V, 1440rpm,50Hz	1
	(3) DC SHUNT MOTOR & 3Phase ALTERNATOR SET MOTOR : 5HP,220V, 1500rpm ALTERNATOR : 3.5KW, 415V,1500rpm	1
	(4) SYNCHRONOUS MOTOR WITH AUTO STARTER 5HP, 415V,1500rpm	1

4	TRANSFORMERS	
	(1) 1-PHASE TRANSFORMER 3KVA,230/115V,50Hz	3
	(2) SCOTT CONNECTED TRANSFORMERS 3KVA,230/115V,50Hz (0%,50%,86.6%,100%)	1
	(3) SINGLE PHASE AUTO TRANSFORMER (0-300V),20A	3
	(4) 3 PHASE AUTO TRANSFORMER (0-600V) 20A	3
5	RHEOSTATS & LOADS	
	(1) REHOSTATS (200 Ohm/ 2A) (18 Ohm/8A)	17
	(2) LOADING REHOSTATS 230V/20A/ 5KW, 10 STEPS	4
	(3) 3 PHASE RESISTIVE LOAD 10A/440V,5 STEPS	1
6	VOLTMETERS (MC & MI)	25
7	AMMETERS (MC & MI)	27
8	WATT METERS (LPF & UPF)	8
9	TACHOMETER (DIGITAL& ANALOG)	9
10	POWER FACTOR METER	2
11	PHASE SEQUENCE INDICATOR	1

POWER ELECTRONICS LAB

AVAILABILITY OF EQUIPMENTS

S.No	NAME OF THE EQUIPMENT	QUANTITY
1	STUDY OF SCR FIRING CIRCUITS KIT	1
2	PARALLEL INVERTOR KIT	1
3	JONE'S CHOPPER KIT	1
4	SINGLE PHASE CYCLO-CONVERTER KIT	1
5	SINGLE PHASE FULLY CONTROLLED CONERTER KIT	1
6	SINGLE PHASE HALF CONTROLLED CONERTER KIT	1
7	STUDY OF COMMUTATION CIRCUITS CLASS A, B, C, D, E, F KIT	1
8	3 PHASE HALF CONTROLLED CONVERTER KIT	1

9	SERIES INVERTER KIT	1
10	AC VOLTAGE REGULATOR	1
11	GATE FIRING CIRCUITS OF SCR (R, RC & UJT) KIT	1
12	REGULATED POWER SUPPLY (0-30V), 2A	4
13	1 PHASE CENTER TAP TRANSFORMER	1
14	ISOLATING TRANSFORMER (1 PHASE & 3 PHASE)	3
15	CRO (25M Hz)	2
16	SERVO STABILIZER (5KVA)	1

CONTROL SYSTEM LAB

AVAILABILITY OF EQUIPMENTS

S.No	NAME OF THE EQUIPMENT	QUANTITY
1	PROCESS CONTROL SIMULATOR KIT	1
2	PLC TRAINER KIT	1
3	SYNCHRO TRANSMITTER AND RECEIVER PAIR KIT	1
4	TEMPERATURE CONTROL SYSTEM KIT	1
5	D.C. MOTOR SPEED CONTROL (DEMOSTRATION UNIT) KIT	1
6	A.C SERVO MOTOR SPEED TORQUE CHARACTERISTICS KIT	1
7	D.C SERVO MOTOR SPEED TORQUE CHARACTERISTICS KIT	1
8	STUDY OF LEAD LAG COMPANSATING NETWORKS KIT	1
9	LINEAR SYSTEM SIMULATOR KIT	1
10	SPEED CONTROL MODULE KIT	1

NETWORK THEORY LAB

AVAILABILITY OF EQUIPMENTS

S.No	NAME OF THE EQUIPMENT	QUANTITY
1	REGULATED POWER SUPPLY (DIGITAL 0-30V)	10
2	CRO	10
3	FUNCTION GENERATORS	10
4	DECADE RESISTANCE BOXES	10

5	DECADE INDUCTANCE BOXES	10
6	VOLTMETERS (DIGITAL 0-20V)	10
7	VOLTMETERS (DIGITAL 0-2V)	10
8	VOLTMETERS (DIGITAL 0-200mV)	10
9	VOLTMETERS (DIGITAL 0-200V)	10
10	AMMETERS (DIGITAL 0-200mA)	10
11	AMMETERS (DIGITAL 0-2mA)	10
12	AMMETERS (DIGITAL 0-20mA)	10
13	AMMETERS (DIGITAL 0-20 μ A)	10
14	AMMETERS (DIGITAL 0-200 μ A)	10
15	AMMETERS (DIGITAL 0-2A)	10
16	LCR METERS	2
17	AF OUTPUT POWER METERS	3
18	BREADBOARDS	10
19	MULTIMETERS	10
20	TIME RESPONSE OF 1st ORDER RC,RL CIRCUIT-KITS	3
21	TWO PORT NETWORK PARAMETERS (Y&Z) – KITS	3
22	MAXIMUM POWER TRANSFER THEOREM – KITS	3
23	GENERATION OF NON-LINEAR WAVEFORM FOR SQUARE WAVE (CLIPPING & CLAMPING CIRCUIT) – KITS	3
24	SERIES & PARALLEL RESONANCE KITS	3
25	SUPER POSITION & RECIPROCITY THEOREM KITS	3
26	THEVENINS & NORTONS THEOREM KITS	3
27	RESPONSE OF LOW & HIGH PASS FILTER – KITS	3

ELECTRICAL MEASUREMENTS LAB

AVAILABILITY OF EQUIPMENTS

S.No	NAME OF THE EQUIPMENT	QUANTITY
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1	SCHERING BRIDGE KIT	1
2	ANDERSON BRIDGE KIT	1
3	CROMPTON POTENTIOMETER KIT	1
4	KELVIN BRIDGE KIT	1
5	LOADING RHEOSTAT (1 PHASE, 2.5KW, 230V, 10A)	2
6	LOADING RHEOSTAT (50 OHM, 5A)	1
7	LOADING RHEOSTAT (15 OHM, 5A)	1
8	CAPACITIVE LOAD (3 PHASE, 10A, 440V)	2
9	INDUCTIVE LOAD ARRANGEMENT (3 PHASE, 10A, 440V, 50Hz)	1
10	ENERGTY METER (0-240V, 5- 10A, 1PHASE, 750 rev/kwh)	1
11	CHOKE COIL (1 PHASE, 230V, 0.42A)	1
12	POWER FACTOR METER	1
13	INDUCTIVE LOAD (1 PHASE, 10A, 220V)	1
14	CURRENT TRANSFORMER (5 VA, 10/5A)	1
15	LINEAR VARIABLE DIFFERENTIAL TRANSFORMER (LVDT)	1
16	CAPACITIVE PICK UP	1
17	STRAIN GAUGE	1
18	1 PHASE AUTO TRANSFORMER (0-260V, 2A, 5A, 10A)	3
19	VOLTMETERS	9
20	AMMETERS	9
21	WATT METERS	6
22	1 PHASE TRANSFORMER (230/115V)	1
23	STOP WATCH	1

HYDRAULICS & HYDRAULIC MACHINERY LAB

S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	Centrifugal pump (single stage) test rig with all accessories.	
	1.2 hp kirloskar motor (single stage)	1
	2. Tank	2
	3. Energy meter	1
	4. Control panel	1
	5. M.S stand	1
	6. Gauge glass scale	1
2	Reciprocating pump with all accessories	
	1.Tank	2
	2. 1hp kirloskar motor	1
	3. Energy meter	1
	4.Control panel	1

	5. M.S stand	1
3	Pipe friction apparatus with all accessories	
	1. Tank	2
	2. Manometer with stand	1
	3. Gauge glass scale	1
	4. ½ hp kirloskar pump	1
4	Calibration test rig for venturimeter	
	1. Tank	2
	2. ½ hp kirloskar pump	1
	3. Manometer with stand	1
	4. Gauge glass scale	1
5.	Calibration test rig for orifice meter	
	1. Tank	2
	2. ½ hp kirloskar pump	1
	3. Manometer with stand	1
	4. Gauge glass scale	1
6	Impact of jet on vanes with all accessories	
	1. Weights 500,300,200,150,100 gms each	1
	2. Gauge glass scale	1
	3. Pump	2
	4. Tank	1
	5. Vanes (90 ⁰ , 135 ⁰ , 180 ⁰)	3
7	Centrifugal (multistage) test rig with all accessories	
	1. Tank	2
	2.5 hp kirloskar motor	1
	3. Energy meter	1
	4. Control panel	1
	5. Gauge glass scale	1
8	Pelton Turbine Test rig with all accessories	
	1. Tank	1
	2. Manometer with stand	1
	3. 15 hp Kirloskar motor with pump	1
	4. Control panel	1
9	Francis Turbine Test rig with all accessories	
	1. Tank	1
	2. Manometer with stand	1
	3. 15 hp kirloskar motor with pump	1
	4. Control panel	1

List of Experimental Setups

Name of the Laboratory: **Hydraulics & Hydraulic Machinery Lab/ Fluid Mechanics & Hydraulic Machines Lab**

2nd yr 1st SEM

- 1) Impact of jets on vanes
- 2) Performance test on pelton wheel
- 3) Performance test on single stage centrifugal pump
- 4) Performance test on multi stage centrifugal pump
- 5) Performance test on reciprocating pump
- 6) Calibration of venturimeter
- 7) Calibration of orifice meter
- 8) Determination of friction factor for a given pipe line
- 9) Performance test on Francis turbine
- 10) Performance test on Kaplan turbine

Name of the Laboratory: **Networks Lab/ Electrical Circuits Lab**

2nd yr 1st SEM

- 1) Verification of maximum power transfer theorem
- 2) Verification of super position and reciprocity theorem
- 3) Verification of Nortons & thevinins theorem
- 4) Evaluation of two port network parameters (Z&Y)
- 5) Frequency response of high pass & low pass RC filters
- 6) Time response of high pass & low pass RC filters
- 7) Current-Locus diagram with RL& RC with R & C varying
- 8) Series v Parallel Resonance – Time v Resonant Frequency, Bandwidth v Q factor for RLC network
- 9) Generation of non-linear periodic waveform for square wave using clipping & clamping.
- 10) Verification of Compensation & Milliman's theorem

Name of the Laboratory: **Electro Mechanics Lab-II**

3rd yr 1st SEM

- 1) O.C & S.C tests on single phase transformer
- 2) Sumpners test on a pair of single-phase transformer
- 3) Scott connection of transformers
- 4) No load & blocked rotor tests on three-phase induction motor
- 5) Regulation of a three-phase alternator by synchronous motor
- 6) V & inverted V curves of a three-phase synchronous motor
- 7) Equivalent circuit of a single-phase induction motor
- 8) Speed control of 3-phase slipring induction motor
- 9) Brake test of three-phase induction motor
- 10) Determination of X_d and X_q of a salient pole synchronous machine.

Name of the Laboratory: **Control Systems Lab**

3rd yr 1st SEM

- 1) Characteristics of sychrous
- 2) Effect of feedback on DC servomotor
- 3) Time response of second order system
- 4) Effect of P, PI, PD, PID controller on a second order system
- 5) Lag & lead compensation-magnitude & phase plot
- 6) Characteristics of AC servomotor
- 7) Temperature controller using PID
- 8) Programmable logic controller
- 9) State space model for classical transfer function using MATLAB
- 10) Root locus plot, Bode plot from MATLAB

Name of the Laboratory: **Simulation of electrical Systems Lab**

4th yr. 1st SEM

- 1) Pspice simulation of transient response of RLC circuits
 - A) response to pulse input
 - B) response to step input
 - C) response to sinusoidal input
- 2) Pspice simulation of single phase full converter using RL & E loads & single phase AC voltage controller using RL & E loads
- 3) Pspice simulation of resonant pulse commutation circuit and buck chopper
- 4) Pspice simulation single phase inverter with PWM control
- 5) Pspice simulation of D.C. circuit using Pspice.
- 6) Transfer function analysis of D.C. circuit using Pspice
- 7) Plotting of bode plots, root locus and Nyquist plot for the transfer function of system upto 5th order using MAT lab.
- 8) Power flow solution and transient stability evaluation of power system.
- 9) Transfer function analysis of a given circuit using MATLAB
- 10) Analysis of three-phase circuit representing the generator transmission line & load. Plot three phase currents & neutral current using PSPICE.

LIST OF EXPERIMENTS OF ELECTROMACHANICS – I LAB**2nd yr 2nd SEM**

1. Magnetization characteristics of DC shunt generator. Determination of critical field resistance and critical speed.
2. Load test on DC shunt generator. Determination of characteristics.
3. Load test on DC series generator. Determination of characteristics.
4. Load test on DC compound generator. Determination of characteristics.
5. Hopkinson's test on DC shunts machines. Predetermination of efficiency.
6. Field's test on DC series machines. Determination of efficiency.
7. Brake test on DC shunt motor. Determination of performance curves.
8. Brake test on DC compound motor. Determination of performance curves.
9. Swinburne's test on DC shunt machine. Predetermination of efficiencies.
10. Speed control of DC shunt motor.

LIST OF EXPERIMENTS OF ELECTRICAL MEASUREMENTS (EM) - LAB**3rd yr 2nd SEM**

1. Calibration and testing of 1 phase energy meter.
2. Kelvin Double Bridge.
3. LVDT and capacitive pick-up.
4. Calibration of Dynamometer type power factor meter.
5. Schering Bridge and Anderson Bridge.
6. Measurement of 3phase reactive power factor with 1phase watt meter.
7. Resistance strain wage.
8. Measurement of parameters of a choke coil using 3- Voltmeter and 3- Ammeter method.
9. Crompton DC potentiometers.
10. C.T. Testing by Silsbee's method.

LIST OF EXPERIMENTS OF POWER ELECTRONICS - LAB**3rd yr 2nd SEM**

1. Study of Characteristics of SCR, MOSFET & IGBT
2. Gate firing circuits for SCR's.
3. Single phase AC Voltage Controller with R and RL Loads
4. Single Phase fully controlled bridge with R and RL Loads
5. Forced Commutation circuits {Class A, B, C, D, E, & F}
6. DC Jones chopper with R and RL Loads
7. Single Phase parallel inverter with R and RL Loads
8. Single Phase Cycloconverter with R and RL Loads
9. Single Phase Half controlled Converter with R load
10. Single Phase series inverter with R and RL loads.
11. Three Phase half controlled bridge converter with R-Load

ELECTRONICS & COMMUNICATION ENGINEERING LABORATORIES

List of Major Equipment/Facilities:

ECA LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	MULTISIM SOFTWARE	1
2	POWER SUPPLIES	15
3	FUNCTION GENERATORS	12

4	MULTI METERS	15
5	STABILIZERS	1
6	DECADE R, L, C BOX	12
7	BREAD BOARDS	20

MICROPROCESSOR LAB

MP LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1.	8086 MICROPROCESSOR TRAINER KITS	13
2.	8051 MICROCONTROLLER TRAINER KITS	5
3.	STEPPER MOTOR CONTROLLER	1
4.	RS-232 CABLES	3
5.	ADC/DAC CONVERTER	1
6.	AD590 TRANSDUCER	1
7.	TRAFIC LIGHT CONTROLLER	1

EDC LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	OSCILLOSCOPE	12
2	POWER SUPPLIES	15
3	FUNCTION GENERATORS	12
4	MULTI METERS	15
5	STABILIZERS	1
6	DECADE R, L, C BOX	12
7	BREAD BOARDS	20

IC APPLICATIONS LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	CATHODE RAY OSCILLOSCOPE	10
2	POWER SUPPLIES	10

3	FUNCTION GENERATORS	10
4	MULTI METERS	10
5	STABILIZER	1

DIGITAL COMMUNICATIONS LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	PULSE AMPLITUDE MODULATION & DEMODULATION KITS	2
2	PULSE WIDTH MODULATION	2
3	PULSE POSITION MODULATION	2
4	PULSE CODE MODULATION	2
5	TIME DIVISION MULTIPLEXING	2
6	DELTA MODULATION & DEMODULATION	2
7	FREQUENCY SHIFT KEYING	2
8	DIFFERENTIAL PHASE SHIFT KEYING	2
9	PHASE SHIFT KEYING	2

ANALOG COMMUNICATIONS LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	AMPLITUDE MODULATION & DEMODULATION KIT	3
2	FREQUENCY MODULATION & DEMODULATION KIT	3
3	PULSE AMPLITUDE MODULATION & DEMODULATION KIT	3
4	PHASE LOCKED LOOP KIT	3
5	POWER SUPPLY	5
6	OSCILLOSCOPE	10
7	DIGITAL MULTI METER	5
8	FUNCTION GENERATORS	5

9	MIXER CHARACTERISTICS	3
10	RECEIVER MEASUREMENTS	3
11	PRE-EMPHASIS & DE-EMPHASIS KIT	2
12	SYNCHRONOUS DETECTOR KIT	2
13	SSB TRAINER KIT	2
14	BALANCED MODULATOR(DSB-SC) KIT	2
15	FREQUENCY SYNTHESIZER KIT	2
16	DIGITAL PHASE DETECTOR KIT	2

E-CAD LAB

S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	D.C. REGULATED POWER SUPPLIES	4
2	DIGITAL I.C. TRAINERS	4

DIGITAL SIGNAL PROCESSORS. & MICROPROCESSOR LAB

S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	DSP KITS (TMS 320C 6711) WITH PARALLEL PERIPHERAL INTERFACES, POWER SUPPLIES 5V, I/P, O/P, CONNECTORS.	5
2	PERSONAL COMPUTERS	15
3	STABILIZER (5KVA)	1
4	SOFTWARES (I) CODE COMPOSER STUDIO C6711 SIMULATION (II) DSK SOFTWARE C6711 FOR REAL TIME APPLICATIONS (III) MAT LAB. 6.5	2
5	1 8086 MICRO PROCESSORS KITS	10
	2. INTER FACING STUDY CARDS	03
6	1. 8279 [KCD]	3 NO'S
	2. 8251 [USART]	5 NO'S
	3. 8255 [PPI]	4 NO'S
	4. A TO D & D TO A CONVERTERS	1 NO'S
	5. STEPPER MOTOR INTER FACING	1 NO'S
	6. 8031/8051 MICRO CONTROLLER	5 NO'S

MICROWAVE & OPTICAL COMMUNICATION LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	5 KVA SERVO STABILIZER	01
2	MICRO WAVE BENCHES	06
3	OPTICAL FIBER KITS	03
4	TABLE FANS	06
5	LED KITS	02

EMBEDDED SYSTEMS LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	5 KVA SERVO STABILIZER	01
2	VI 51 RTOS DEVELOPMENT BOARD Version 1.0	05

List of Experimental Setups

Name of the Laboratory: Electronics Devices & Circuits Lab

1st year

(Common for ECE, EEE, CSE, IT)

1. PN junction diode characteristics.
 - a. Forward bias
 - b. Reverse bias
2. Zener diode characteristics
3. Transistor CB characteristics (input & output)
4. Transistor CE characteristics (input & output)
5. Transistor CC characteristics (input & output)
6. Rectifier with filter (full wave & half wave)
7. Rectifier without filter (full wave & half wave)
8. FET characteristics
9. UJT characteristics
10. Study of CRO
11. Measurement of h-parameters of transistor in CB, CE, CC configurations
12. CE amplifier
13. CC amplifier (emitter follower)
14. Single stage R-C- coupled amplifier
15. FET amplifier (common source)
16. FET amplifier (common drain)
17. Wein bridge oscillator
18. RC phase shift oscillator
19. Colpitts oscillator
20. Hartley oscillator
21. SCR characteristics

Name of the Laboratory: Pulse & Digital Circuits Lab

2nd year 1st SEM

1. Non linear wave shaping -Clippers
2. Non linear wave shaping- Clampers

3. Linear wave shaping.
4. Study of flip-flops.
5. Logic gates using discrete components and ICS
6. Transistor as a switch
7. Sampling gates
8. Monostable Multivibrator
9. Astable Multivibrator
10. Schmitt Trigger Circuit
11. Bi-stable Multivibrator

Name of the Laboratory: Electronic Circuit Analysis Lab

2nd year 1st SEM

Hardware

1. Two stage RC coupled amplifier
2. Class A. power amplifier
3. Class B push pull amplifiers
4. Class B complementary symmetry configuration
5. Class C power amplifier
6. Class C tuned voltage amplifier.
7. Series Regulated power supply
8. Shunt Regulated power supply.

Name of the Laboratory: IC Applications Lab (CSE)

2nd year 1st SEM

1. Integrator using 741 Op-amp
2. Differentiator using 741 Op-amp
3. Study of logic gates and flip –flops
4. 7490 decade counter
5. BCD to seven segment decoder driver
6. Astable multi vibrator using 555 timer
7. Digital to analog converter using binary weight resistor
8. Digital to analog converter using R-2R ladder network
9. Monostable multi vibrator using IC 555 timer
10. Voltage regulator using IC 723

Name of the Laboratory: Digital Communications Lab

3rd year 1st SEM

1. Pulse amplitude modulation (PAM)
2. Pulse width modulation (PWM)
3. Pulse position modulation(PPM)
4. Time division multiplexing(TDM)
5. Pulse code modulation(PCM)
6. Differential pulse code modulation
7. Delta modulation(DM)
8. Frequency shift keying (FSK)
9. Phase shift keying (PSK)
10. Differential phase shift keying (DPSK)

Name of the Laboratory: Linear IC Applications Lab

3rd year 1st SEM

1. Study of Op-Amp
2. Op-Amp applications.
3. Integrator and Differentiator circuits using Op-Amp IC 741
4. Function generator

5. Monostable multivibrator
6. Astable multivibrator
7. PLL applications
8. VCO applications
9. Active Filter applications (First Order)
10. Active filter applications (high pass filter)
11. Schmitt Trigger circuit
12. Voltage Regulator using IC 723

Name of the Laboratory: Interfacing through Microprocessors Lab (CSE) 3rd year 1st SEM
8086 Assembly languages programming exercise

1. Arithmetic operations.
2. Logical operations.
3. String operations.
4. Modular programs.
5. 8259 interrupt controller.
6. 8279 key board display.
7. 8255 PPI.
8. 8051 Micro controller.

Name of the Laboratory: Digital Signal Processing Lab 4th year 1st SEM

1. Introduction to DSK.
2. To generate sine wave using C6711 device simulator
3. To generate cosine wave using C6711 device simulator
4. To verify linear convolution
5. To verify circular convolution
6. Fast Fourier Transform
7. Power density spectrum
8. Finite impulse resonance filter.
9. Infinite resonance filter.

Name of the Laboratory: Microwave & Optical communication Lab 4th year 1st SEM

1. Reflex klystron characteristics.
2. Gunn diode characteristics
3. Attenuation measurement
4. Directional coupler characteristics
5. VSWR measurements
6. Impedance & frequency measurement
7. Scattering parameters of magic tee
8. Characteristics of LED
9. Communication through optical fiber.

Name of the Laboratory: Microprocessors Lab (EEE) 4th year 1st SEM

1. **Micro processor 8086:**
 - a. Introduction to MASM/TASM.
 - b. Arithmetic operation –multi byte addition and subtraction, multiplication and division-signed and unsigned arithmetic operation, ASCII arithmetic
 - c. Logic operation-shift and rotate-converting packed BCD to unpacked BCD, BCD to ASCII conversion.

- d. By using the string operation and instruction prefix: move block, reverse string, sorting, inserting, deleting, length of the string, string comparison.
- e. Modular program,/procedure, near and far implementation, recursion.
- f. DOS/BIOS programming: reading key-board (buffered with and without echo) –display characters strings.

2. Interfacing:

- a. 8259-interrupt controllers.
- b. 8279 -key board displays
- c. 8255- PPI
- d. 8251-USART

3. Micro controller 8051

- a. Reading and writing on a parallel port.
- b. Timer in different modes
- c. Serial communicating implementation
- d. Understanding three memory areas of 00-FF (program using above areas.)
- e. Using external interrupts.
- f. Programs using special instructions like swap, bit/byte, set/reset etc.,
- g. Program based on short page absolute addressing.

Name of the Laboratory: E-Cad LAB (ECE)

3rd year 1st SEM

1. Logic gates
2. D- flip-flop
3. Decade counter.
4. 4-bit counter
5. Shift register.
6. Universal shift register.
7. 3-to-8 decoder.
8. 4- bit comparator.
9. 8*1 multiplexer.
10. 16*1 multiplexer.
11. Stack and Queue implementation using RAM.

COMPUTER SCIENCE ENGINEERING LAB

List of Major Equipment/facilities:

Number of computers Available = 282 Systems (P-IV)

Number of Terminals on LAN = 170

Software:

WINDOWS 98/2000, XP, JAVA 1.4/1.5, ORACLE 8i, UML (Agro Tool), TURBO C, TURBOC++, MULTISIM, BSD UNIX, LINUX AS3 (Enterprise Edition), Code Composer Studio(DSP), Embedded Systems Software

Peripherals

No. of PRINTER'S : 25

UPS : 20 KV

GENERATOR : 25 KV

List of Experimental Setups

Name of the Laboratory: **Computer Programming Lab**

1st Year

1. Write a C Program to evaluate the following algebraic expressions after reading necessary values
 - a) $ax+b/ax-b$
 - b) $2.5\log x + \cos 32^\circ + |x^2 - y^2| + \sqrt{2xy}$
 - c) $\frac{1}{\alpha} \sqrt{\frac{2}{\pi}} \int_0^\infty e^{-(x-m/\sqrt{2\sigma})^2}$
 - d) $x + x^2/3! + x^5/5! \dots$ upto 7th digit accuracy.
 - e) Read x and compute y=1 for x>0
 Y=0 for x=0
 Y=-1 for x<0

2. Write a C Program for the following
 - a) Printing the given integers in ascending order
 - b) Sum of 1+2+3+4.....n terms
 - c) $1+x^2/2+x^2/4+\dots$ n terms

3. Write a 'c' Program Using FOR Statement to find the following from a given set of 20 integers.
 - a) Total no. of even integers
 - b) Total no. of odd integers
 - c) Sum of all even integers
 - d) Sum of all odd integers

4. Write a 'c' Program to obtain the product of two matrices A of size (3X3) and B of size (3X2). The resultant matrix C is to be printed out along with A and B, assume suitable values for A and B
5. Using Switch –case Statement, Write a 'c' Program that takes two operands and one operator from the user, performs the operations and then prints the answer (consider operators +,-,/,* and %)
6. Write a 'c' procedures to add, Subtract, multiply and divide two complex numbers (x+iy) and (a+ib), also write a main program that uses these procedures
7. The Total distance traveled by a vehicle in 't' seconds is given by $\text{distance} = ut + \frac{1}{2}at^2$ where 'u' and 'a' are the initial velocity (m/sec) and acceleration (m/sec²) Write a 'c' program to find the distance traveled at regular intervals of time given the values of 'n' and 'a'. The program should provide the flexibility to user to select his own time intervals and repeat the calculations for different values of 'u' and 'a'
8. A cloth show room has announced the following seasonal discounts on purchase of items

Purchase Amount	Discount Percentage	
	Mill cloth	Handloom Item
1-100	---	5.0
101-200	5.0	7.5
201-300	7.5	10.0
Above 300	10.0	15.0

Write a 'c' program using Switch and If statements to compute the net amount paid by a customer.

9. Given a number, Write a 'c' program , using WHILE loop to reverse the digits of the number
10. Write a 'c' Program , using DO-WHILE to calculate and print the first m Fibonacci numbers

11. Write a 'c' program to print the following outputs using FOR loop

```

1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

```

```

1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

```

12. Write a 'c' program to extract a portion of a character string and print the extracted string. Assume that 'm' characters are extracting starting with the nth character

13. A Maruthi car dealer maintains a record of sales of various vehicles in the following form

Vehicle	Month of Sales	Price (Rs)
Maruthi 800	Feb-87	75,000
Maruthi DX	Jul-87	95,000
Gypsy	Apr-88	1,10,000
Maruthi Van	Aug-88	85,000

Write a 'c' program to read this data into a table of strings and outputs the details of a particular vehicle sold during a specified period. The program should request the user to input the vehicle type and the period (starting month & ending month)

14. Write a 'c' Program to convert Lower case characters to uppercase equivalents

15. Implement the following data structures using Arrays

- i) Stacks
- ii) Linear queues
- iii) Circular queues.

16. Implement binary search tree using linked list and perform the following operations.

- i) Insertion ii) Deletion iii) In order Traversal iv) Preorder Traversal v) Post Order Traversal.

17. Singly linked list and doubly linked list

- i) Insertion ii) Deletion iii) Lookup

18. i) Implement stack using singly linked list.

- ii) Implement the queue using singly linked list.

19. Implement the following sorting techniques.

- i) Bubble sort ii) Insertion sort iii) Quick sort iv) Heap sort.

20. Implement the following searching method.

- i) Sequential search ii) Binary search

21. i) Conversion of Infix expression to postfix notation.

- ii) Simple expression evaluator, that can handle +, -, /and*.

22. Implement the algorithms for the following iterative methods using C to find one root of the equation

$$9x_1+2x_2+4x_3=0$$

$$x_1+10x_2+4x_3=6$$

$$2x_1-4x_2+10x_3=-15$$

23. Write Computer programs to implement the Lagrange interpolation and Newton-Gregory forward interpolation.

24. Implement in 'C' the linear regression and polynomial regression algorithms.

25. Implement Trapezoidal and Simpson methods.

Name of the Laboratory: IT Workshop

1st Year

The modules that are to be taught include PC hardware, Internet & World Wide Web and productivity tools include LaTeX, MS Word, Excel, Power Point and Publishers Etc.

Objectives:

The IT Workshop for engineers is a 6 training lab course spread over 90 hours. The modules include training on PC Hardware, Internet & World Wide Web and Productivity tools including MS Word, Excel, Power Point and Publisher.

PC Hardware introduce the students to a personal computer and its basic peripherals, the process of assembling a personal computer, installation of system software like Windows XP, Linux and the required device drivers. In addition hardware and software level troubleshooting process, tips and tricks would be covered.

Internet & World Wide Web module introduces the different ways of hooking the PC on to the Internet from home and workplace and effectively usage of the internet. Usage of web browsers, email, newsgroups and discussion forums would be covered. In addition, awareness of cyber hygiene, i.e., protecting the personal computer from getting infected with the viruses, worms and other cyber attacks would be introduced.

Productivity tools module would enable the students in crafting professional word documents, excel spread sheets, power point presentations and personal web sites using the Microsoft suite of office tools and LaTeX.

PC Hardware

Week 1 – Task 1: Identify the peripherals of a computer, components in a CPU and its functions. Draw the block diagram of the CPU along with the configuration of each peripheral and submit to your instructor.

Week 2 – Task 2: Every student should disassemble and assemble the PC back to working condition. Lab instructors should verify the work and the follow it up with a Viva. Also a student needs to go through the video which shows the process of assembling a PC. A video would be given as part of the course content.

Week 3 – Task 3: Every student should individually install windows XP on the personal computer. Lab instructor should verify the installation and follow it up with a Viva.

Week 4 – Task 4: Every student should install Linux on the computer. This computer should have windows installed. The system should be configured as dual boot with both windows and Linux. Lab instructors should verify the installation and follow it up with Viva.

Week 5 – Task 5: Several mini tasks would be that covers Basic commands in bash, Create hard and symbolic links, Text processing, Using Wildcards.

Week 6 – Task 6: Hardware Troubleshooting: Students have be given a PC which does not boot due to improper assembly or defective peripherals. They should identify the problem and fix it to get the computer back to working condition. The work done should be verified the instructor and followed up with a Viva.

Week 7 – Task 7: Software Troubleshooting: Students have to be given a malfunctioning CPU due to system software problems. They should identify the problem and fix it to get the computer back to working condition. The work done should be verified by the instructor and followed up with a Viva.

Week 8 – Task 8: The test consists of various systems with Hardware / Software related troubles, formatted disks without operating systems.

Internet & World Wide Web

Week 9 – Task 1: Orientation & Connectivity Boot Camp: Students should get connected to their Local Area Network and access the Internet. In the process they configure the TCP/IP setting. Finally students should demonstrate, to the instructor, how to access the websites and email. If there is no internet connectivity preparations need to be made by the instructors to simulate the WWW on the LAN.

Week 10 – Task 2: Web Browsers, Surfing the Web: Students customize their web browsers with the LAN proxy settings, bookmarks, search toolbars and pop up blockers. Also, plug-ins like Macromedia Flash and JRE for applets should be configured.

Week 11 – Task 3: Search Engines & Netiquette: Students should know what search engines are and how to use the search engines. A few topics would be given to the students for which they need search on Google. This should be demonstrated to the instructors.

Week 12 – Task 4: Cyber Hygiene: Students would be exposed to the various threats on the internet and would be asked to configure their computer to be safe on the internet. They need to first install an anti virus software, configure their personal firewall and windows update on their computer. Then they need to customize their browsers to block pop ups, block active x downloads to avoid viruses and/or worms.

Week 13 Module Test A test which simulates all of the above tasks would be crafted and given to the students.

LaTeX and Microsoft Word

Week 14 – Word Orientation: The mentor needs to give an overview of LaTeX and Microsoft word: Importance of LaTeX and MS Word as word Processors, Details of the four tasks and features that would be covered in each, Using LaTeX and word-Accessing, overview of toolbars, saving files, Using help and resources, rulers format painter in word.

Task 1: Using LaTeX and word to create project certificate. Features to be covered: - Formatting Fonts in word, Drop Cap in word, Applying Text effects, Using Character Spacing, Borders and Colors, Inserting Header and Footer, Using Date and Time option in both LaTeX and Word.

Week 15 – Task 2: Creating Project abstract Features to be covered: - Formatting Styles, Inserting table, Bullets and Numbering, Changing Text Direction, Cell alignment, Footnote, Hyperlink, Symbols, Spell Check, Track Changes.

Week 16 – Task 3: Creating Newsletter: Features to be covered: - Table of Content, Newspaper columns, Images from files and clipart, Drawing Toolbar and Word Art, Formatting Images, Textboxes and paragraphs.

Week 17 – Task 4: Creating a Feedback form: - Features to be covered –Forms, Text Fields, Inserting objects, Mail Merge in Word.

Week 18 – LaTeX and Word Module Test – Replicate the given document inclusive of all features.

Microsoft Excel

Week 19 – Excel Orientation: The mentor needs to tell the importance of MS Excel as a Spreadsheet tool, give the details of the four tasks and features that would be covered in each. Using Excel-Accessing, overview of toolbars, saving excel files, Using help and resources

Task 1: Creating a Scheduler- Features to be covered: - Gridlines, Format Cells, Summation, auto fill, Formatting Text

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Week 20 – Task 2: Calculating GPA – Features to be covered: - Cell Referencing, Formulae in excel average, std. Deviation, Charts Renaming and Inserting worksheets, Hyper linking, Count function, HLOOKUP/VLOOKUP

Week 21 – Task 3: Performance Analysis – Features to be covered: - Split cells, freeze panes, group, and outline, Sorting, Boolean and logical operators, Conditional formatting

Week 22 – Task 4: Cricket Score Card – Features to be covered: - Pivot Tables, Interactive Buttons, Importing Data, Data Protection, Data Validation,

Week 23 – Excel Module Test – Replicate the given document inclusive of all features

LaTeX and Microsoft Power Point

Week 24 – Task 1: Students will be working on basic power point utilities and tools which help them create basic power point presentation.

Topic covered during this week includes:- PPT Orientation, Slide Layouts, Inserting Text, Word Art, Formatting Text, Bullets and Numbering, Auto Shapes, Lines and Arrows in both LaTeX and PowerPoint.

Week 25 – Task 2: Second week helps student in making their presentation interactive.

Topic covered during this week includes: Hyperlinks, Inserting-Images, Clip Art, Audio, Video, Objects, Tables and Charts

Week 26 – Task 3: Concentrating on the in and out of Microsoft power point and presentations in LaTeX. Helps them learn best practices in designing and preparing power point presentation.

Topic covered during this week: - Master Layouts (slide, template, and notes), Types of views (basic, presentation, slide slotter, notes etc), and Inserting – Background, textures, Design Templates, Hidden slides.

Week 27 – Task 4: Entire week concentrates on presentation part of LaTeX and Microsoft power point.

Topic covered during this week includes – Using Auto content wizard, Slide Transition, Custom Animation, Auto Rehearsing

Week 28 – Task 5: Power point test would be conducted. Students will be given model power point presentation which needs to be replicated (exactly how it's asked).

Name of the Laboratory: Advanced Data Structures (C++) Lab2nd year 1st SEM

1. Write C++ Programs to implement the following using an array.
 - a) Stack ADT b) Queue ADT
2. Write C++ Programs to implement the following using a singly linked list.
 - a) Stack ADT b) Queue ADT
3. Write C++ program to implement the deque (double ended queue) ADT using a doubly linked list.
4. Write a C++ program to perform the following operations:
 - a) Insert an element into a binary search tree.
 - b) Delete an element from a binary search tree.
 - c) Search for a key element in a binary search tree.
5. Write a C++ program to implement circular queue ADT using an array.
6. Write C++ programs that use non-recursive functions to traverse the given binary tree in
 - a) Preorder b) In order and c) Post order.
7. Write a C++ program s for the implementation of BFS and DFS for given graph.
8. Write C++ programs for implementing the following sorting methods:
 - a) Quick sort b) Merge sort c) Heap sort
9. Write a C++ programs to perform the following operations
 - a) Insertion into a B-tree b) Deletion from a B-tree
10. Write a C++ program to perform the following operations
 - a) Insertion into an AVL-tree b) Deletion from an AVL-tree
11. Write a C++ program to implement Kruskal's algorithm to generate a minimum spanning tree.
12. Write a C++ program for implementing Knuth-Morris pattern matching algorithm.
Write a C++ program to implement all the functions of a dictionary (ADT) using hashing.

Name of the Laboratory: Database Management System2nd year 1st SEM

- 1) Creating tables for various relations (in SQL)
- 2) Implementing the queries for
 - 1) Insertion
 - 2) Retrieval
 - 3) Updation
 - 4) Deletion
- 3) Creating views
- 4) Writing Assertions
- 5) Writing Triggers
- 6) Implementing Operations on tables Using PL/SQL
- 7) Creating Forms
- 8) Generating Reports

Name of the Laboratory: Operating Systems & Systems Programming2nd year 2nd SEM

Operating Systems related exercises

- 1) Simulate the following CPU scheduling Algorithms
 - a) Round Robin b) SJF c) FCFS d) Priority
- 2) Simulate all file allocation strategies
 - a) Sequential b) Indexed c) linked
- 3) Simulate MVT and MFT

- 4) Simulate all file organization techniques
 - a) Single – level directory
 - b) Two level
 - c) Hierarchical
- 5) Simulate Bankers algorithms for deadlock avoidance
- 6) Simulate Bankers algorithms for deadlock prevention
- 7) Simulate all page replacements algorithms
 - a) FIFO
 - b) LRU
 - c) LFU

Systems programming related exercises

- 1) Fixed point arithmetic
- 2) Text Processing
- 3) Keyboard and screen Processing
- 4) Macro Writing
- 5) Copy protection schemes
- 6) Adding Syntax directed facilities to an editor

Name of the Laboratory: **DBMS lab**

2nd year 2nd SEM

- 9) Creating tables for various relations (in SQL)
- 10) Implementing the queries for
 - b) Insertion
 - c) Retrieval
 - d) Updation
- 11) Creating views
- 12) Writing Triggers
- 13) Implementing Operations on tables Using PL/SQL
- 14) Creating Forms
- 15) Generating Reports

Name of the Laboratory: **UML Lab**

3rd year 1st SEM

The student is expected to take up about five mini projects and model them and produce Use case, Analysis Documents – both Static and Dynamic aspects, Sequence diagram and State Charts, Database design.

MINI-PROJECTS

1. A point-of-sale system project (POS)

A POS system is a computerized application used to record Sales and handle payments. It is typically used in a retail store. It includes Hardware components such as a computer and barcode scanner and software to run the system.

2. ATM project

Designing static and dynamic part of ATM system and maintaining. All type of transaction.

3. Online Bookshop Project

Following the model of amazon.com or bn.com, design and implement an online bookstore.

4. Multi Threaded Airport Simulation

Simulate the operations in a airport. Your application should support multiple air crafts using several runways and gates avoiding collisions/conflicts

Landing: aircraft used the runway, lands and then taxis over to the terminal

Take off: an aircraft taxis to the runway and then take off.

5. An Auction Application

Several commerce models exist and are the basis for a number of companies like eBay.com, priceline.com, etc and implement an auction application that provides auctioning services. It should clearly model the various auctioneers the bidding process, auctioning etc.

- 1) Write a Shell script to search and insert/delete a element in a list
- 2) Create 2 processes to run a for loop, which add odd numbers and others even
- 3) By creating required no. of processes, simulate a communication between two processes
- 4) Establish two-way communication between processes
- 5) Create a file i.e. Shared among some users. Write a Program that finds whether a specific user has permissions on the file
- 6) Create Semaphore operation a Shared file
- 7) Create a distributed key among some processes, which exchange message in the form of(m, T, I) for resource sharing, where m=request, reply , release and T =time stamp and I = Process id

1. Develop a lexical analyzer to recognize a few patterns in PASCAL, C and FORTRAN
(Ex: identifiers, comments, operators, etc.,)
2. Write a program to parse using brute force technique of top-down parsing.
3. Develop on LL (1) parser (construct parse table also)
4. Develop an operator precedence parser (construct parse table also)
5. Develop a recursive descent parser
6. Write a program for generating for various intermediate code forms
 - i) Three address code
 - ii) Polish notation
7. Write a program to simulate heap storage allocation strategy.
8. Generate lexical analyzer using LEX.
9. Generate YACC specification for a few syntactic categories.
10. Given any intermediate code form implement code optimization techniques.

1. Mark up a chosen text learns to use an image (gif file).learn how to create a link.
2. Write a web page that displays grades of students
3. Practise paint shop pro and create a new title image to your web page.
4. Get used to ms front page
5. Write java script that inputs three integers from the user and outputs their sum, average, largest, use alert dialog box to display results.
6. Write java script that reads three nonzero values entered by the user in prompt dialog and determine whether they could represent the sides of a triangle.
7. Write a script for a small retail shop.
8. Write a function that determines for a pair of integers, whether the second integer is a multiple of first.
9. Write a script for selection sort.
10. Write a script to write word equivalent of a check amount
11. Practise writing CSS rules.
12. Use the screen object to get the users screen, and then use information to place an image in the middle of this page.
13. Write a function that responds to a click any where on the page.
14. Write a script that blurs images and slowly un-blurs them when they are fully loaded.
15. Use scripting to draw a series of 8-concentric circles
16. Use path control to simulate the motion of text inside a marquee tag
17. Write an animated version of towers of Hanoi.
18. Implement a digital clock in a web page.
19. Create an online product catalogue.
20. Study and implement updating a remote database.

1. Implement the data link layer framing methods such as character stuffing and bit stuffing.
2. Implement on a data set of characters the three CRC polynomials – CRC-12, CRC-16 and CRC CCIP.
3. Implement Dijkstra's algorithm to compute the shortest path thru a graph.
4. Take an example subnet graph with weights indicating delay between nodes. Now obtain routing table at each node using distance vector routing algorithm.
5. Take an example of subnet of hosts, obtain broadcast tree for it
6. Take a 64 bit playing text and encrypt the same using DES algorithm.
7. Write a program to break the above DES coding.
8. Using RSA algorithm encrypt a text data and decrypt the same.

CIVIL ENGINEERING LABS

ENGINEERING PHYSICS AND APPLIED CHEMISTRY LAB		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	Refractive Index of the material of a prism –Spectrometer	02
2	RC Circuits (RC Time Constant Boards with Two digital meters)	02
3	Determination of Thickness of the thin object using parallel fringes set up	02
4	Newton's Rings built in Set up(Vernier Microscope)	02
5	Rigidity Modulus of a material in the form of wire torsional pendulum	02
06	Melde's Experiment –Transverse and longitudinal Modes (Battery Eliminators)	02
07	Volume Resonator	04
08	L-C-R Circuits	02
09	Sonometer(Laws of Stretched String)	02
10	Sonometer(Frequency of A.C Mains)	02
11	Laboratory Stirrer with regulator	05
12	Heating Mantle with Regulator Cap.II	05
13	Burette Cap.50ml	15
14	Standard Flask Cap.100ml	15
15	Measuring Cylinder Cap.25ml	15
16	Calorimeter	01
17	Centrifuge Apparatus 4 Tube	01
18	Iodometric flask Cap.250ml	10
19	Pipette Cap.20 ml	15
20	Conical Flask	15

ENGINEERING WORKSHOP PRACTICE		
S.NO	NAME OF THE EQUIPMENT	QUANTITY
01	<u>Types of Planes</u> Jack Plane 8" Size (Make: Wooden)	02

02	Jack Plane 8" Size (Make: Steel)	02
03	Trying plane 9" Size(Make: Wooden)	02
04	Trying plane 9" Size(Make: Steel)	02
05	Smooth Plane 5" Size(Make: Wooden)	02
06	Smooth Plane 5" Size(Make: Steel)	02
07	Rebate Plane – Metal	02
08	Spoke Shave Plane – Metal	02
	<u>Boring Tools</u>	
09	Bradal steel Type	02
10	Girmit ½" to 1 1/2" Size	02
11	Rafch Brace(Steel Type 10MM)	02
12	Drill Bits Complete Set	02
	<u>Holding Tools</u>	
13	Sash Cramps 5 ft Long	02
	<u>Miscellaneous Tools</u>	
14	Rasp File 10" Long Rough Type	04
15	Rasp File 10" Long Smooth Type	04
16	Pincer-Punch	04
17	Screw Drivers 18" Long	04
18	Screw Drivers 15" Long	04
	<u>Measuring Tools</u>	
19	Four Folded Foot Rule 2ft Long	04
20	Four Folded Foot Rule 3ft Long	04
21	Four Folded Foot Rule 5ft Long	04
22	Four Folded Foot Rule 24" Long	04
	<u>Hand Tools</u>	
23	Steet Rules Inches/Centimeters	04
24	Try Square	04
25	Marking Gauge	04
26	Divider Pin Pointer	04
27	Wing Compass 8" Long	04
28	Inside Compass 8" Long	04
29	Firm Joint Calipers 8" Long	04
	<u>Cutting and Pairing Tools</u>	
30	Hand Saw 24"Size	04
31	Rip Saw 24"Size	04
32	Coping Saw (Metal)	04
33	Saw Set	04
	<u>Striking Tools</u>	
34	Hammer warringhtors Type	02
35	Claw Hammer	02
	<u>Types of Pliers</u>	
36	Cutting Pliers 8" Size	02
37	Nose Pliers 6"Size	02

38	Pincers 8"Size	02
39	Pincer Barrel Type	02

STRENGTH OF MATERIALS LAB

S.NO	NAME OF THE EQUIPMENT	QUANTITY
01	UTM for conducting tension test on rods	01
02	Steel beam for flexure test	02
03	Wooden beam for flexure test	02
04	Brinnell's /Rockwell's hardness testing machine	01
05	Setup for spring tests	01
06	Compression testing machine	01
07	Beam set up for Maxwell's theorem verification	01
08	Continuous beam set up	01

SURVEYING LAB-I

S.NO	NAME OF THE EQUIPMENT	QUANTITY
01	Survey Chain size 30 meters long 150 Links with set of 10 arrows	05
02	Metallic tape Freeman Make Size 30 meters	05
03	Metallic tape Freeman Make Size 30 meters	05
04	Ranging Rods	05
05	Cross Staffs	05
06	Prismatic Compass with Tripod	05
07	Surveyors Compass with Tripod	05
08	Plane Table complete with all accessories (Alidade, Plumbing Fork, Trough Compasses)	05
09	Dumpy Level Instrument Model :AE-19,AKERO Make	02
10	Box Sextants	01
11	Planimeter	01
12	Leveling Staves :Telescopic in three pieces Size 4 meters	02

HYDRAULICS & HYDRAULIC MACHINERY LAB

S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	Centrifugal pump (single stage) test rig with all accessories.	

	1.2 hp kirloskar motor (single stage) 2. Tank 3. Energy meter 4. Control panel 5. M.S stand 6. Gauge glass scale	1 2 1 1 1 1
2	Reciprocating pump with all accessories	
	1.Tank 2. 1hp kirloskar motor 3. Energy meter 4.Control panel 5. M.S stand	2 1 1 1 1
3	Pipe friction apparatus with all accessories	
	1.Tank 2. Manometer with stand 3. Gauge glass scale 4. ½ hp kirloskar pump	2 1 1 1
4	Calibration test rig for venturimeter	
	1. Tank 2. ½ hp kirloskar pump 3. Manometer with stand 4. Gauge glass scale	2 1 1 1
5.	Calibration test rig for orifice meter	
	1. Tank 2. ½ hp kirloskar pump 3. Manometer with stand 4. Gauge glass scale	2 1 1 1
6	Impact of jet on vanes with all accessories	
	1. Weights 500,300,200,150,100 gms each 2. Gauge glass scale 3. Pump 4. Tank 5. Vanes (90 ⁰ ,135 ⁰ ,180 ⁰)	1 1 2 1 3
7	Centrifugal (multistage) test rig with all accessories	
	1.Tank 3.5 hp kirloskar motor 3.Energy meter 4.Control panel 5.Guage glass scale	2 1 1 1 1
8	Pelton Turbine Test rig with all accessories	
	1.Tank 2.Manometer with stand 3.15 hp Kirloskar motor with pump 4.Control panel	1 1 1 1
9	Francis Turbine Test rig with all accessories	
	1.Tank 2.Manometer with stand 3.15 hp kirloskar motor with pump 4.Control panel	1 1 1 1

SURVEYING LAB-II

S.NO	NAME OF THE EQUIPMENT	QUANTITY
1	Transit Vernier Theodolite Make AKERO ,Model AK-12 Least Count 20”,Magnification 26X with Erect Image and also having optical plummet arrangement supplied in teak wood box, Tripod stand and standard accessories	02

2	AUTO LEVEL for curve setting KOLIDA MAKE, Model KL24	02
3	Disto with Laser Range 60ft/30m	02
4	Total Station	01

Name of the Laboratory: **ENGINEERING PHYSICS AND APPLIED CHEMISTRY** I Year

S.No. Name of the Experiment

1. Determination of Refractive Index of the material of a prism – Spectrometer.
2. Dispersive power of the material of a prism – Spectrometer.
3. Cauchy's constant - Spectrometer.
4. Determination of wavelength of a source Diffraction Grating.
5. Determination of thickness of a thin object using parallel fringes.
6. Newton's Rings.
7. Determination of Rigidity modulus of a material in the form of a wire - Torsional pendulum.
8. Melde's Experiment – Transverse and Longitudinal modes.
9. Determination of velocity of sound – Volume resonator.
10. Single slit diffraction using Sodium lamp.
11. Double slit diffraction using Sodium lamp.
12. Single slit diffraction using Lasers.
13. Double slit diffraction using Lasers.
14. Time constant of R-C Circuit.
15. L-C-R Circuit.
16. Verification of laws of stretched strings – Sonometer.
17. Calculation of Frequency of A.C. mains – Sonometer.
18. Study of Characteristics' of LED and LASERS sources.
19. Study of Characteristics' of p-i-n and avalanche photo diode detectors.
20. Bending losses of fibers.
21. Evaluation of Numerical Aperture of a given fiber.
22. Magnetic field along the axis of a current carrying coil- Stewart and Gee's method.
23. Hall effect.
24. B-H curve.
25. Energy gap of a material of p-n junction.
26. Determination of Young's modulus and Poisson's ratio by Cornu's method.
27. Thermo Electric effect – Seebeck effect and peltier effect.

REDOX TITRATIONS:

1. Preparation of Standard Potassium Dichromate and Estimation of Ferrous iron.
2. Preparation of Standard Potassium Dichromate and Estimation of Ferric Iron.

IODOMETRY:

3. Preparation of Standard Potassium Dichromate and Estimation of Copper, by Iodometry.

COMPLEXOMETRY:

4. Preparation of Standard EDTA solution and Estimation of calcium/Hardness of water.
5. Preparation of standard EDTA and estimation of copper.

PRECIPITATION TITRATION:

6. Preparation of standard solution of Zinc and estimation of ferrocyanide.

ANALYSIS OF MINERALS:

7. Percentage of purity of Pyrolusite.
8. Percentage purity of Lime Stone.

COLORIMETRIC ESTIMATIONS:

9. Manganese in Steel
10. Iron in Cement

Name of the Laboratory: **ENGINEERING WORKSHOP PRACTICE**

I Year

1. TRADES FOR EXERCISES:

1. Carpentry
2. Fitting
3. Tin-Smithy and Development of jobs carried out and soldering.
4. Black Smithy
5. House-Wiring
6. Foundry
7. IT workshop-I: Computer hard ware, identification of parts, disassembly, Assembly of computer to working condition, simple diagnostics exercises.
8. IT workshop-II: Installation of Operating System Windows and Linux, simple diagnostics exercises.

TRADES FOR DEMONSTRATION AND EXPOSURE:

1. Plumbing
2. Welding.
3. Machine Shop.
4. Power Tools in construction, Wood working, Electrical Engg. And Mechanical Engg.
5. Metal cutting (water plasma)

Name of the Laboratory: **STRENGTH OF MATERIALS LAB**

II B.TECH I-SEM

1. Tension test
2. Bending test on (Steel/Wood) Cantilever beam.
3. Bending test on simple support beam.
4. Torsion test.
5. Hardness test.
6. Spring test.
7. Compression test on wood or concrete.
8. Impact test.

9. Shear test.
10. Verification of Maxwell's Reciprocal Theorem on beams.
11. Continuous beam-deflection test.

Name of the Laboratory: SURVEYING LAB-I

II B.TECH I-SEM

LIST OF EXERCISES:

1. Survey of an area by chain survey (closed traverse) & plotting.
2. Chaining across obstacles.
3. Determination of distance between two inaccessible points with Compass.
4. Surveying of a given area by prismatic compass (closed traverse) & plotting after adjustment.
5. Radiation method, intersection methods by plane table survey.
6. Two point and three point problems in plane table survey.
7. Traversing by plane table survey.
8. Fly leveling (differential leveling).
9. An exercise of L.S and C.S and plotting.
10. Two exercises on contouring.

Name of the Laboratory: SURVEYING LAB-II

II B.TECH II-SEM

LIST OF EXERCISES:

1. Study of Theodolite in detail – practice for measurement of horizontal and vertical angles.
2. Measurement of horizontal angles by the method of repetition and reiteration.
3. Trigonometric Leveling- Heights and distance problem (two exercises).
4. Heights and distance using principles of tacheometric surveying (Two exercises).
5. Curve setting – different methods (Two exercises).
6. Setting out works for buildings and pipe lines.
7. Determination of area using total station.
8. Traversing using total station.
9. Contouring using total station.
10. Det of remote height using total station.
11. State – out using total station.
12. Distance, gradient, Diff, height between tow inaccessible points using total station.

Name of the Laboratory: FLUID MECHANICS AND HYDRAULIC MACHINERY

II B.TECH II-SEM

1. Calibration of Venturimeter & Orifice Meter.
2. Determination of coefficient of discharge for a small orifice by a constant head method.
3. Determination of coefficient of discharge for an external mouth piece by variable head method.
4. Calibration of contracted Rectangular Notch and /or Triangular Notch.
5. Determination of coefficient of loss of head in a sudden contraction and friction factor.
6. Verification of Bernoulli's equation.
7. Impact of jet on vanes.
8. Study of Hydraulic jump.
9. Performance test on pelton wheel turbine.
10. Performance test on Francis turbine.
11. Efficiency test on centrifugal pump.

12. Efficiency test on reciprocating pump.

Name of the Laboratory: ENGINEERING GEOLOGY

III B.TECH I-SEM

1. Study of physical properties and identification of minerals referred under theory.
2. Megascopic description and identification of rocks referred under theory.
3. Interpretation and drawing of sections for geological maps showing tilted beds, faults, uniformities etc,
4. Simple structural geology problems.

Name of the Laboratory: GEOTECHNICAL ENGINEERING

III B.TECH II-SEM

LIST OF EXPERIMENTS:

1. Atterberg`s Limits.
2. Field density- core cutter and sand replacement method.
3. Grain size analysis.
4. Permeability of soil, constant and variable head test.
5. Compaction test.
6. CBR Test
7. Consolidation test.
8. Unconfined Compression Test.
9. Tri-axial compression test.
10. Direct shear test.
11. Vane shear test.
12. Field density by sand replacement method.

Name of the Laboratory: ENVIRONMENTAL ENGINEERING

III B.TECH II-SEM

LIST OF EXPERIMENTS

1. Determination of pH and Turbidity.
2. Determination of Conductivity and Total dissolved solids.
3. Determination of Alkalinity/Acidity.
4. Determination of Chlorides.
5. Determination and Estimation of total solids, organic solids and inorganic solids.
6. Determination of Iron.
7. Determination of Dissolved Oxygen.
8. Determination of Nitrogen.
9. Determination of total Phosphorous.
10. Determination of B.O.D.
11. Determination of C.O.D.
12. Determination of Optimum coagulant dose.
13. Determination of Chlorine demand.
14. Presumptive coliform test.

Name of the Laboratory: GIS AND CAD LAB

IV B.TECH I-SEM

GIS:

SOFT WARE:

1. Arc GIS 9.0
2. ERSAS 8.7
3. Mapinfo 6.5
Any one or Equivalent.

EXCERCISES:

1. Digitization of Map/Toposheet
2. Creation of thematic maps.
3. Study of features estimation.
4. Developing Digital Elevation model
5. Simple application of GIS in water Resources Engineering & Transportation Engineering.

CAD:

SOFTWARE:

1. STAAD PRO or Equivalent

EXCERCISIES:

1. 2-D Frame Analysis and Design
2. Steel Tabular Truss Analysis and Design
3. 3-D Frame Analysis and Design
4. Retaining Wall Analysis and Design
5. Simple tower Analysis and Design

Name of the Laboratory: **CONCRETE AND HIGHWAY ENGINEERING**

IV B.TECH I-SEM

I. ROAD AGGREGATES:

1. Aggregate Crushing value
2. Aggregate Impact Test.
3. Specific Gravity and Water Absorption.
4. Attrition Test.
5. Abrasion Test.
6. Shape Test.

II. BITUMINOUS MATERIALS:

1. Penetration Test.
2. Ductility Test.
3. Softening Point Test

4. Flash and fire point tests.

III. CEMENT AND CONCRETES:

TESTS ON CEMENTS:

1. Normal Consistency of fineness of cements.
2. Initial setting time and final setting time of cement.
3. Specific gravity and soundness of cement.
4. Compressive strength of cement
5. Workability test on concrete by compaction factor, slump and Vee-bee.
6. Young's modulus and compressive strength of concrete.
7. Bulking of sand.
8. Non-Destructive testing on concrete (for demonstration)

LIST OF FACILITIES AVAILABLE

Games & Sports facilities:

The following facilities are available in college and are being used regularly on Friday afternoon after classes; students are encouraged to play friendly matches between themselves.

1. Cricket
2. Volley ball
3. Badminton
4. Chess
5. Caroms
6. Basket ball.

During Republic Day celebrations, inter class tournaments were held and prizes / Certificates awarded to winners / participants

Extra curricular activities

1. Our teams were sent to different colleges for “paper presentation” and won prizes.
- 2 “Personality Development” classes are being held in college throughout the semester (weekly one hour).
3. The College is ISO 9001:2000 Certified Institution.
4. The College is actively conducting techno triumph, a paper presentation every year since 2004.

Curriculum and syllabi for each of the programmes as approved by the University.

Curriculum and syllabi for each programme is as prescribed by Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad (Andhra Pradesh)-500 085

ACADEMIC CALENDAR OF THE UNIVERSITY FOR B.TECH-II, III, IV YEAR-I & II SEM (2009-10)

With reference Lr. No. DE/JNTU/Aca.Cal.2009-10/B.Tech II, III, IV Year-I, Dt. 01-07-2009

II B.Tech & IV B.Tech- I Sem (Reg)(2009-2010)

S.No	EVENT	Date	Duration
01	Commencement of Class work	06-07-2009	--
02	1 st Spell of Instructions for Units 1,2,3&4	06-07-2009 To 29-08-2009	08 Weeks
03	1 st Mid Term Examinations	31-08-2009 To 02-09-2009	03 Days
04	2 nd Spell of Instructions for Units 5,6,7 & 8	03-09-2009 To 28-10-2009	08 Weeks
05	2 nd Mid Term Examinations	29-10-2009 To 31-10-2009	03 Days
06	Preparation and Practical Examinations	02-11-2009 To 14-11-2009	02 Weeks
07	End Semester Examination (Regular)	16-11-2009 To 30-11-2009	02 Weeks
08	<i>Supplementary Examinations of Second Semester</i>	<i>01-12-2009 To 12-12-2009</i>	<i>02 Weeks</i>
09	Commencement of Class work For II & IV Year II Sem. for the academic Year 2009-2010	14-12-2009	--

III B.Tech- I Sem (Reg) (2009-2010)

S.No	EVENT	Date	Duration
01	Commencement of Class work	06-07-2009	--
02	1 st Spell of Instructions for Units 1,2,3&4	06-07-2009 To 02-09-2009	08 Weeks 3 Days
03	1 st Mid Term Examinations	03-09-2009 To 05-09-2009	03 Days
04	2 nd Spell of Instructions for Units 5,6,7 & 8	07-09-2009 To 31-10-2009	08 Weeks
05	2 nd Mid Term Examinations	2-11-2009 To 04-11-2009	03 Days
06	Preparation and Practical Examinations	05-11-2009 To 14-11-2009	11Days
07	End Semester Examination (Regular)	16-11-2009 To 30-11-2009	02 Weeks
08	<i>Supplementary Examinations of Second Semester</i>	<i>01-12-2009 To 12-12-2009</i>	<i>02 Weeks</i>
09	Commencement of Class work For III Year II Sem. for the academic Year 2009-2010	14-12-2009	--

II B.Tech & IV B.Tech- II Sem (Reg)(2009-2010)

S.No	EVENT	Date	Duration
01	Commencement of Class work	14-12-2009	--
02	1 st Spell of Instructions for Units 1,2,3&4	14-12-2009 To 10-02-2010	08 Weeks 3 Days
03	1 st Mid Term Examinations	11-02-2010 To 13-02-2010	03 Days
04	2 nd Spell of Instructions for Units 5,6,7 & 8	15-02-2010 To 10-04-2010	08 Weeks
05	2 nd Mid Term Examinations	12-04-2010 To 14-04-2010	03 Days
06	Preparation and Practical Examinations	15-04-2010 To 24-04-2010	10 Days
07	End Semester Examination (Regular)	26-04-2010 To 08-05-2010	02 Weeks
08	Summer Vacations	10-05-2010 To 04-07-2010	08 Weeks
08	<i>Supplementary Examinations of First Semester</i>	<i>10-05-2010 To 22-05-2010</i>	<i>02 Weeks</i>
09	Commencement of Class work For III Year I Sem. for the academic Year 2010-2011	05-07-2010	--

III B.Tech- II Sem (Reg) (2009-2010)

S.No	EVENT	Date	Duration
01	Commencement of Class work	14-12-2009	--
02	1 st Spell of Instructions for Units 1,2,3&4	14-12-2009 To 06-02-2010	08 Weeks
03	1 st Mid Term Examinations	08-02-2010 To 10-02-2010	03 Days
04	2 nd Spell of Instructions for Units 5,6,7 & 8	11-02-2010 To 07-04-2010	08 Weeks
05	2 nd Mid Term Examinations	08-04-2010 To 10-04-2010	03 Days
06	Preparation and Practical Examinations	12-04-2010 To 24-04-2010	02 Weeks
07	End Semester Examination (Regular)	26-04-2010 To 08-05-2010	02 Weeks
08	Summer Vacations	10-05-2010 To 04-07-2010	08 Weeks
08	<i>Supplementary Examinations of First Semester</i>	<i>10-05-2010 To 22-05-2010</i>	<i>02 Weeks</i>
09	Commencement of Class work For III Year I Sem. for the academic Year 2010-2011	05-07-2010	--

Internal Continuous Evaluation System:

1. The performance of a student in each semester / I year shall be evaluated subject-wise with in a maximum of 100 marks for theory and 75 marks for practical subject. In addition, Industry oriented mini-project, seminar and project work shall be evaluated for 50, 50, and 200 marks respectively.
2. For theory subjects the distribution shall be 20 marks for Internal Evaluation and 80 marks for the End - Examination.
3. For theory subjects, during the semester there shall be 4 tests, which include, 2 tests objective type each for duration of 20 minutes each and 2 subjective type tests each for duration of 90 minutes each. One objective type test and one subjective test to be conducted in 1-4 units and one objective type test and one subjective test type test and one subjective test are to be conducted in 5-8 units of each semester. The best 3 tests will be considered for awarding 20 sessional marks. For the I year class which shall be on yearly basis, there shall be 6 tests which include, 3 objective type tests and 3 subjective type tests with the same duration and weight age for each test as mentioned above. However, the performance in the best 4 tests will be considered for awarding 20 sessional marks. The distribution of syllabus for the conduct of objective and subjective type tests in the first year shall be as follows:

1-2 Units	one Objective type test and one Subjective type test.
3-5 Units	one Objective type test and one Subjective type test.
5-8 Units	one Objective type test and one Subjective type test.

Each objective test question paper shall contain 20 objective type questions for 20 marks. Each subjective test question paper shall contain 5 questions out of which any 3 question need to be answered. The subjective type question paper should also be for 20 marks. Though the test pattern is different, all the tests (objective and subjective type tests) have equal weightage.

4. For practical subjects there shall be a continuous evolution during the semester for 25 sessional marks and 50 end examination marks. Of the 25 marks for internal, 15 marks shall be awarded for day -to-day work and 10 marks to be awarded by conducting an internal laboratory test. The end examination shall be conducted by the teacher concerned and another member of the staff of the same department.
5. For the subject having design and /or drawing,(such as Engineering Graphics ,Engineering Drawing , Machine Drawing) and estimation, the distribution shall be 20 marks for internal evaluation (10 marks for day –to-day work and 10 marks for internal tests) and 80 marks for

end examination. There should be two internal tests in a semester and the better of the two shall consider for the award of marks for internal tests. However in the 1st year class, there shall be 3 tests and the best 2 will be taken into consideration.

6. There shall be an industry-oriented mini project, in collaboration with an industry of their specialization, to be taken up during the vacation after III year II semester examination .However, the mini project and its report shall be evaluated with the project work in IV year II semester. The industry oriented mini project shall be submitted in report form and should be presented before the committee, which shall evaluate for 50 marks. The committee consists of an external examiner, head of the department, the supervisor of mini project and a senior faculty member of the department. There shall be no internal marks for industry oriented mini project.
7. There shall be seminar presentation in IV year II semester. For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his understanding over the topic, and submit to the department, which shall be evaluated by the department, which shall be evaluated by the Departmental committee consisting of head of the department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 50 marks. There shall be no external examination for seminar.
8. There shall be a Comprehensive Viva-Voce in IV year II semester. The Comprehensive Viva-Voce will be conducted by a committee consisting of (i) Head of the Department (ii) two senior faculty members of the Department. The Comprehensive Viva-Voce is aimed to assess the students understanding in various subjects he / she studied during the B.Tech course of study. The Comprehensive Viva-Voce is valued for 100 marks by the committee. There are no internal marks for the Comprehensive viva-voce.
9. Out of a total of 200 marks for the project work, 40 marks shall be for internal evaluation and 160 marks for the End Semester Examination. The End Semester Examination shall be conducted by the same committee appointed for industry oriented mini-project. In addition the project supervisor shall also be included in the committee. The topics for industry oriented mini-project, seminar and project work shall be different from each other. The evaluation of project work shall be conducted at the end of the IV year. The internal evaluation shall be on the basis of two seminars given by each student on the topic of his project

Students' assessment of Faculty:

A performance Appraisal report is prepared for each faculty member by the Principal wherein due weight age is given to feedback from students Feedback from students is personally obtained by

the Principal at the beginning / during / and towards the end of semester. The feedback plays an important role in counseling of faculty members, taking corrective action where necessary, and if required making a change in faculty.

Post Graduate Programme(s):

This college is approved for UG courses only.