

MANDATORY DISCLOSURE

Mandatory Disclosure by Institutions running AICTE approved Engineering programmes to be included in their respective Information Brochure, displayed on their website and to be submitted to AICTE every year latest by 30th April together with its URL

The following information is to be given in the Information Brochure besides being hosted on the Institution's official Website.

“The information has been provided by the concerned institution and the onus of authenticity lies with the institution and not on AICTE.”

I. NAME OF THE INSTITUTION (Address Including Telephone, Fax, E-Mail.)

	S.V.P.M's. COLLEGE OF ENGINEERING , MALEGAON (BK)	
Address	Permanent Location as approved by AICTE	Temporary Location (if applicable)
	S.V.P.M's. COLLEGE OF ENGINEERING	
Village	MALEGAON (BK)	Not Applicable
Taluka	BARAMATI	
District	PUNE	
Pin Code	413115	
State	MAHARASHTRA	
STD Code	02112	Phone No: 254424, 255113
Fax No.	91-2112- 254424	E-Mail: coembk@indiatimes.com
Web site	http://engg.svpm.edu.in	
Nearest Rly Station	DAUND (Jn.) BARAMATI	Distance in 50 Kms Distance in 10 Kms
Nearest Airport	PUNE	Distance in 90Kms

II. NAME & ADDRESS OF THE PRINCIPAL

Name	Prof. Appasaheb Santu Jambhale				
Designation	(I/C. PRINCIPAL)	Qualification & Experience :	Highest Degree	Specialization	Total Experience
		B.Sc. (Phy) M.E.E&TC, Registered for Ph.D. 34 Years	M.E. E&TC	Microwave	34 years
STD Code	02112	Phone No. (O) 255113, 254424	Fax No.	91-2112- 254424	
STD Code	02112	Phone No. (R)	Fax No.		
E-Mail	jambhale_appasaheb@readifmail.com		Mobile No.	9421126893	

III. NAME OF THE AFFILIATING UNIVERSITY

Name	Pune University		
Address	Pune University , Ganeshkhind , Pune –411007		
Pin code	411007	Phone No.	+91-20-25601101
Fax No.	+91-20- 25693899	E-Mail/ Web site	Unipune.ernet.in

IV. GOVERNANCE

❖ Members of the Board and their brief background

Shivnagar Vidya Prasarak Mandal's

COLLEGE OF ENGINEERING, MALEGAON (BK),
TAL- BARAMATI, DIST-PUNE, 413115

	Name of the Board Members	Designation
1	<p>Hon'ble Shri. Sharadchandraji Govindrao Pawar: Minister of Agriculture and Food Supply Govt. of India Education : B.Com Background : Reknowned Politician at National level and reformer in social, Education, Industry, Agriculture and Co-operative Sector.</p> <ol style="list-style-type: none"> 1. Elected six time as a MLA and four time MP 2. Held Portfolios as a Minister of Profiles of Home, Agriculture, Education in the cabinet of the Maharashtra. 3. Remained four times as a Chief Minister of Maharashtra. 4. Ex. Defence Minister of Govt. of India 5. Vice-Chairman of Disaster Management Committee of Govt of India 6. President – Board of Control for Cricket In India. 7. President – Bombay Cricket Control Board. 8. Minister of Agriculture, food, Civil Supply, Cooperation Govt. of India 9. President-Nationalist Congress Party 10. President – Vidya Pratisthan, Baramati 11. President- Rayat Shikshan Sanstha, Satara 	President
2	<p>Hon'ble Shri. Chandrarao Krishnarao Taware Education : H.S.C. Background : He is reknowned Politician and Expert in Sugar Co-Operative sector & Agriculturist, Chairman of Malegaon Sahakari Sakhar karkhana Ltd. Shivnagar Malegaon(BK),Baramati, since last 15 yrs . Director – National Heavy Engineering, New Delhi.</p>	Vice- President
3	<p>Hon'ble Shri. Ajit Anantrao Pawar Education : B.Com. Background : Minister of Water Resources, Water supply & Sanitation, Govt. of Maharashtra. Ex-Chairman Pune District Co-Operative Bank, Pune President – Pune Zilla Shikashan Mandal, Pune President – Maharashtra state Kho-Kho & Kabaddi Association. Director- Maharashtra State Co-Opretive Sugar Sangh, Mumbai Vasantdada Sugar Institute, Pune Malegaon Sahakari Sakhar Karkhana Ltd.Shivnagar Shri Chatrapati S. Sakhar Karkhana,Bhawaninagar, Someshwar S. Sakhar Karkhana, Someshwar Trustee- Vidya Pratisthan, Baramati.</p>	Member
4	<p>Hon'ble Mrs. Supriya Sadanand Sule Education : M.Sc.(Microbiology) Background : Member of Parliament Reknowned Social & Educational reformer. Trustee- Vidya Pratisthan, Baramati.</p>	Member

	Name of the Board Members	Designation
5	<p>Hon'ble Shri. Balasaheb Patil Taware Education : B.Sc. L.L.B. Background : Reknown Politician and Expert in Sugar and milk Co-Operative Sector & Agriculturist. Director of all India Distilleries Association and National Federation of Co-Operative Societies Ltd. Delhi. He is Ex. Chairman and now Director of Malegaon Sahakari Sakhar Karkhana Ltd. Shivnagar Malegaon(Bk) Baramati.</p>	Member
6	<p>Hon'ble Shri. Bhagawanrao Nivrutti Khartode Education : B.A. L.L.B. Background : Adovocating at taluka Court since 20 yrs, now additional Police Prose Cutar and Agriculturist.</p>	Member
7	<p>Hon'ble Shri. Rajendra Sopanrao Deokate Education : S.S.C. Background : Reknowned Agriculturist & Social Worker .</p>	Member
8	<p>Hon'ble Shri. Babanrao Khanderao Taware Education : VII th Pass . Background : Reknowned Agriculturist & Social Worker.</p>	Member
9	<p>Hon'ble Shri. Ashokrao Sitaram Saste Education : D.C.E. Background : Reknowned building Contractor Social Worker & Agriculturist. President – Jagruti Pratishthan Malegaon (BK) Vice-President – Shankar Nagari Patsansatha Malegaon (BK) Member –Gramshikshan samiti & Tal. Dakshata Committee.</p>	Member
10	<p>Hon'ble Shri. Ashokrao Shankarrao Bankar Education : B.A. L.L.B. Background : Reknowned Agriculturist & Social Worker & Govt Road Contract.</p>	Member
11	<p>Hon'ble Shri. Shivajirao Sahebrao Barge Education : B.Sc. Background : Reknowned Agriculturist & Social Worker</p>	Member
12	<p>Hon'ble Shri. Pramod Shankarrao Shinde Education: B.Sc,M.B.A. Background: Secretary of the trust for last 22 yrs.</p>	Secretary

❖ **Members of Academic Advisory Body**

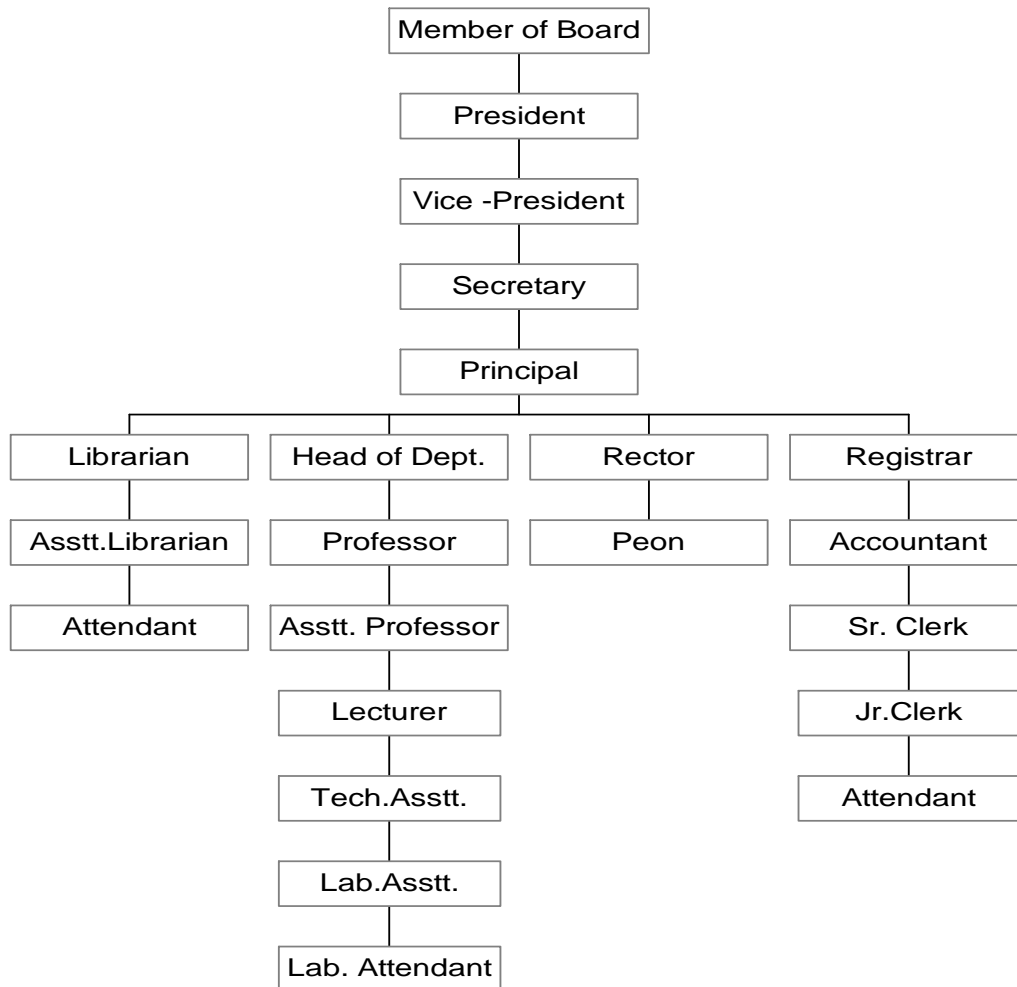
	Name	Designation
1.	Hon'ble Shri. Sharadchandra Govindrao Pawar	President
2.	Hon'ble Shri. Chandrarao Krishnarao Taware.	Vice- President
3.	Hon'ble Shri. Ajitrao Anantrao Pawar	Member
4.	Hon'ble Mrs. Supriya Sadanand Sule	Member
5.	Hon'ble Shri. Balasaheb Patil Taware	Member
6.	Hon'ble Shri. Bhagawanrao Nivrutti Khartode	Member
7.	Hon'ble Shri. Rajendra Sopanrao Deokate	Member
8.	Hon'ble Shri. Babanrao Khanderao Taware	Member
9.	Hon'ble Shri. Ashokrao Sitaram Saste	Member
10.	Hon'ble Shri. Ashokrao Shankarrao Bankar	Member
11.	Hon'ble Shri. Shivajirao Sahebrao Barge	Member
14.	Hon'ble Shri. Anandrao Marutrao Pisal	Member
15.	Hon'ble Shri. Pramod Shankarrao Shinde	Member
16.	Prof. Mahadeo Krishana Phadatare	Member
17.	Prof. Anil Anandrao Patil	Member
18.	Prof. Mrs. Varsha Dadasaheb Pawar	Member
19.	Prof. Jotiram Nana Mali	Member
20.	Prof. Navanath Pandurang Pingale	Member
22.	Prof. Rajendra Anand Jadhav	Member
22.	Prof. Abhaykumar D. Bagawade	Member
23.	Principal (I/C) Shri. Appasaheb Santu Jambhale	Secretary

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

Board meetings are held every quarterly, the Academic Advisory body meeting held once or twice in year as per the availability of President.

❖ **Organizational chart and processes**

SVPM's
College of Engineering ,Malegaon(BK),
 Tal.Baramati,Dist.Pune.



Processes: Principal is the executive head of the College. He manages college activities through different heads of departments, Registrar and Accountant. The academic function is managed through the Heads, Professors, Assistant Professors, and Lecturers. The Librarian manages library with the coordination of HOD's, staff and accountant. The Purchases of equipments and consumables are done as per budget provisions with the help of stores and accounts.

Every term an academic planning is done in a staff meeting deciding the course of activities and policies for the term to achieve academic improvements and student culture. A feedback from students about their faculty is taken once every year and the performance of the staff is assessed taking this as one of the element of staff assessment.

The Management committee reviews the monthly activities through its meetings and gives directions about the policies and purchases for further actions. The management decides the budget for the ensuing year.

Annual general meeting of the society is held once or twice in year where the review of all institutes is taken and the decisions for the next year plans are taken.

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

The improvements of faculty is a continuous activity where the faculty is encouraged to attend various workshops, training programs, seminars, conferences, and in-house meetings. The faculty is encouraged to improve their academic qualification with the sponsorship from college. Faculty members are also encouraged for writing technical papers, presentations & exhibitions etc. Various personality development programmes are arranged in the college by inviting experts from industries & institutes.

Students are given input to improve learning abilities, enhance memory techniques to increase reading speed. Various experts are invited for above techniques. Interview techniques and aptitude test skills, group discussion are taught to senior students appearing campus interviews. An educational poster zone is run by Placement Cell to enhance personality. Special efforts are taken to improve the communication skills among all the students FE to BE. Whenever required we are utilizing the linguistics laboratory available in the premises.

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

The college activities are managed through multiple / group thinking on day to day issues and policies are decided based on past experience, improvements in view and directives of University / AICTE or Management. Staff contributes their views and a conscience decision is taken which is followed as policy by all concerned.

A student council established as per University act helps to decide the policies and procedures for students' activities, sports, gatherings etc.

The faculty meetings are held once in a month whereas the HOD's and Principal meet every week. The library works through the Library Committee of which Principal is Post facto Chairman. One student council member represents each department on this committee.

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

Every year student feedback on faculty and institution is taken on a random day and in a decided manner. The feedback is assessed and reviewed by Principal, HOD and concerned staff and steps are taken to improve the situation.

This feedback mechanism has helped to improve the image of the college in the eyes of the students, parents and society.

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

The grievances of the students are settled through the concerned head of the department, faculty / staff and student along with his parent if needed. The common matters are discussed in the faculty / staff meeting as well as in the student council and agreeable solutions are decided as policy for the college working and presented to the managing committee for approval. Serious misdeeds are handled as per University act and procedure laid down by the management.

V. PROGRAMMES

❖ Name of the Programmes approved by the AICTE

Courses		Intake	Duration	Fees
1. Mechanical Engineering	-	120	4 Years	33325/- (Interim)
2. Electronics & Telecom. Engineering	-	120	4 Years	33325/- (Interim)
3. Computer Engineering	-	60	4 Years	33325/- (Interim)
4. Information Technology	-	30	4 Years	33325/- (Interim)
5. Civil Engineering	-	30	4 Years	33325/- (Interim)

❖ Name of the Programmes accredited by the AICTE -

Courses		Accreditation status
1. Mechanical Engineering	-	No
2. Electronics & Telecom. Engineering	-	No
3. Computer Engineering	-	No
4. Information Technology	-	No
5. Civil Engineering	-	No

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

Cut off levels (CET MARKS) for 2005-06

SR. NO.	BRANCH	CAP	MQ	AV	AIEEE
1	MECH	58	55	57	08
2	E&TC	69	50	57	10
3	COMP	46	64	45	21.5
4	IT	58	64	43	-
5	CIVIL	49	58	42	-

Cut off levels (CET MARKS) for 2006-07

SR. NO.	BRANCH	CAP	MQ	AV	AIEEE
1	MECH	63	47	56	04
2	E&TC	54	57	70	15
3	COMP	49	74	93	15
4	IT	76	64	----	46
5	CIVIL	50	54	---	---

Cut off levels (CET MARKS) for 2007-08

SR. NO.	BRANCH	CAP	MQ	AIEEE
1	CIVIL	Admission process in progress		
2	MECH			
3	E&TC			
4	COMP			
5	IT			

- **Placement Facilities**

A website is developed for student placement activities is in process Published advertisements follow up is displayed on placement notice board. Library subscribes various magazines giving regular info-on appointments.

Students are educated continuously for mind set development. Various programmes are arranged for interview techniques, group discussions, aptitude tests and pleasant personality etiquettes.

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

Year	Discipline	Total no. of students passed out (last 3 years)	Total no. of students placed through placement cell (last 3 years)
2004-2005	Mechanical Engg.	54/84	16
	E&TC Engg.	73/85	13
	Computer Engg.	21/45	00
	Information Technology	34/35	03
	Civil Engg.	35/62	05
2005-2006	Mechanical Engg.	84/100	24
	E&TC Engg.	85/90	06
	Computer Engg.	35/42	02
	Information Technology	42/42	00
	Civil Engg.	25/34	04
2006-2007	Mechanical Engg.	Result awaited	13
	E&TC Engg.		12
	Computer Engg.		14
	Information Technology		03
	Civil Engg.		19

2005-2006	Min. Salary	4500/- per month	Avrage Salary 11000/- per month
	Max. Salary	17500/- per month	
2006-2007	Min. Salary	7000/- per month	Avrage Salary 20900/- per month
	Max. Salary	27800/- per month	

❖ **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:**

-----NOT APPLICABLE -----

VI. FACULTY

❖ Branch wise list faculty members:

• Permanent Faculty

Name of the Course	S. No	Name (s) of the Teaching Faculty	Designation (Lecturer/ Asst. Professor/ Professor)	Qualifications with field of specialization with class / division of passing			Date of Birth	Experience a) Teaching b) Industry c) Research (in Years)			Date of Joining the Institution	Gross total salary as on date with scale & Basic pay.
				UG	PG	Doctorate		a	B	c		
Mechanical Engg.	1.	Prof. Kulkarni. Ramchandra Keshavrao	Asst. Prof	B.Tech Mech. / I	ME HT Pow.Er / H.II		28/08/1958	15	7		05/09/2000	28098 & 13875
	2.	Prof. Darade Pradeep Dhudhajirao	Asst. Prof.	BE. Mech / I	M.E. Design/I		25/05/1971	13			22/05/2006	25988 & 12375
	3.	Prof. Gavali Khandu Bhagwat	Asst .Prof	BE. Mech / I	M.Tech (M.F) / I		01/06/1976	7			22/05/2006	25988 & 12375
	4.	Prof..Patil Sushil Sahebrao	Asst. Prof	BE Mech. / I	ME Design / I		23/12/1974	6	1		22/05/2006	25988 & 12375
	5.	Prof. Phadatre Mahadeo Krishna	Asst. Prof	AMIE Mech / I	ME HT / I		01/06/1960	19	01	03	22/05/2006	26775 & 12750
	6.	Prof. Parkale Pandurang Hirralal	Asst. Prof.	BE Mech / I	ME / I		26/07/1975	7.9			08/06/2007	24300 & 12000
	7.	Prof. Dhapte Ramdas Dnyandeo	Lecturer / T.P.O.	BE Mech / I	M.B.A. M.Tech / App.		23/05/1969	13	01		01/08/2005	25988 & 12375
	8.	Prof. Pawar Vikrant Bhausa	Lecturer	BE Prod / I	ME. Design/I		15/01/1970	11	1.6		09/09/1996	20843 & 9925
	9.	Prof.Gholap Vijay Bhagawan	Lecturer	BE Mech. / I			01/06/1970	12	01		26/06/1998	19111 & 9100
	10.	Prof.Nitaware. Vishal Deepak	Lecturer	BE Mech / I	ME Design/ I		22/05/1975	6			03/08/2000	20265 & 9650
	11.	Prof..Agrawal Devendra Prabhudayal	Lecturer	BE Mech / I	M.Tech / App		26/04/1977	5			01/08/2002	19111 & 9100
	12.	Prof..Buchade Manik Ramesh	Lecturer	BE Mech / I			01/06/1977	3			16/08/2003	18533 & 8825
	13.	Prof..Sawant Pravin Jagannath	Lecturer	BE Mech / I	ME Design		02/05/1977	2			20/08/2003	18533 & 8825
	14.	Prof. . Suryavanshi Akash Rameshbabu	Lecturer	BE Mech / I	ME HPE		02/02/1980	3			16/10/2004	17955 & 8850
	15.	Prof. Todkar Amol Subhas	Lecturer	BE Mech / I	ME Prod. / App		20/06/1975	5	2.5		23/05/2006	16800 & 8000
	16.	Prof. Taware Shrikant Babanrao	Lecturer	BE Mech / I	M.Tech / App.		26/01/1965	5	2.5		22/05/2006	16800 & 8000
	17.	Prof. Jadhav Anand Mohan	Lecturer	BE Mech / I	ME HT / I		31/05/1979	2.5	3		16/08/2006	16800 & 8000
	18.	Prof. Rajmane Vidyadhar Balkrishna.	Lecturer	BE Mech / I	ME Design / App.		28/08/1976	5			11/08/2006	16800 & 8000
	19.	Prof. Pawar Sumod Kisan	Lecturer	BE Mech / I	ME Heat Power / I		10/06/1979	3.1	1		08/06/2007	16800 & 8000
	20.	Prof. Jadhav Sangram Dashrath	Lecturer	BE Mech / I			02/06/1982	1			09/06/2007	16800 & 8000

Name of the Course	S. No	Name (s) of the Teaching Faculty	Designation (Lecturer/ Asst. Professor/ Professor)	Qualifications with field of specialization with class / division of passing			Date of Birth	Experience a) Teaching b) Industry c) Research (in Years)			Date of Joining the Institution	Gross total salary as on date with scale & Basic pay.
Electronics & Telecomm. Engg.	21.	Prof. Patil Anil Anandrao	Asst. Prof	BE E&TC / I	M.Tech Com / I		05/06/1963	14	5		08/02/1999	29616 & 14625
	22.	Prof.(Mrs.)Doshi Neeta Anil	Asst. Prof	BE E&TC / I	ME ETX / I		22/02/1972	13	1		01/08/2005	25060 & 12375
	23.	Prof. Jambhale Appasaheb Santu	Asst. Prof		M.E. E&TC / I		15/11/1946	30		3	25/05/2006	33413 & 16500
	24.	Prof. Wani Atul Babanrao	Asst. Prof	BE. E&TC	M.Tech / I		13/01/1976	2.6	5		22/05/2006	25200 & 12000
	25.	Prof. Dixit Sanjaykumar Bhalchandra	Lecturer	BE ETX. / I			10/07/1975	6			03/08/2000	20265 & 9650
	26.	Prof. (Miss.) Nirmale Vidya Kishan	Lecturer	BE E&TC / I			21/04/1978	6			07/08/2000	18985 & 9375
	27.	Prof Kadam Mohan Narayan	Lecturer	BE ETX			02/07/1969	6	3		01/08/2002	19111 & 9100
	28.	Prof. (Miss.) Mangale Supriya Anilkumar	Lecturer	BE E&TC / I			20/04/1979	5			01/08/2002	19111 & 9100
	29.	Prof. Rahulkar Amol Deodas	Lecturer	BE Instru./ I	M.Tech / I		10/12/1978	4.5			02/09/2002	19111 & 9100
	30.	Prof. (Miss) Gaikwad Sarika Ganpat	Lecturer	BE E&TC / I			29/10/1980	3			08/09/2003	17955 & 8850
	31.	Prof. Vaijapurkar Vibhav Bharatrao	Lecturer	BE E&TC / I	ME (App)		12/10/1980	2.5			16/08/2004	17955 & 8850
	32.	Prof Dhaigude Nitin Babasaheb	Lecturer	BE E&TC / I			24/05/1980	2	1		12/08/2004	17379 & 8275
	33.	Prof. Kale Santosh Dattatray	Lecturer	BE / ETX / I			14/09/1979	1	1.5		05/08/2005	17379 & 8275
	34.	Prof.. Kamble Balaji Shankarrao	Lecturer	BE ETX / I			21/07/1978	2			22/09/2005	17379 & 8275
	35.	Prof. Parkale Yuvraj Vijay	Lecturer	BE E&TC / Dist.			07/03/1983	2	1		22/05/2006	17379 & 8275
	36.	Prof. Jagtap Kiran Ganpat	Lecturer	BE E&TC / I			28/12/1980	.02	2		23/05/2006	16800 & 8000
	37.	Prof. Hanchate Anand Venkatesh	Lecturer	BE E&TC / I	ME / App.		16/06/1975	1	3.5		24/05/2006	16800 & 8000
	38.	Prof. Vinkare Pradip Kondbarao	Lecturer	BE E&TC./ I	M.Tech (Elect) / I		08/01/1979	4		4	22/01/2007	16800 & 8000
	39.	Prof. Shaikh Javedahmed Husen	Lecturer	BE E&TC / I			04/05/1984				08/06/2007	16800 & 8000
	40.	Prof. Patil Rahul Keru	Lecturer	BE E&TC / I			27/08/1980	0.10	0.6		09/06/2007	16800 & 8000
	41.	Prof. Khade Amitkumar A.	Lecturer	BE E&TC / I	ME / App.		01/04/1983				16/08/2006	16800 & 8000
Computer Engg.	42.	Prof.Rumale Aniruddha Subhashchandra	Lecturer	BE Comp / I	ME / App.		14/04/1977	7	1		03/08/2000	20265 & 9650
	43.	Prof. (Miss.) Waykule Vidhya Vasant	Lecturer	BE Comp / I			02/11/1979	3.5			18/08/2004	17955 & 8850
	44.	Prof.(Mrs.) Mhaske Varsha Dattatraya	Lecturer	BE Comp / I			13/06/1980	2			09/08/2004	17955 & 8850
	45.	Prof. Patil Dnyaneshwar Shivaji	Lecturer	BE Comp / I			13/11/1975	3			01/08/2005	17379 & 8275
	46.	Prof. Kumbhar Hemant Ramdas	Lecturer	BE Comp / I			27/05/1982	2			01/08/2005	17379 & 8275
	47.	Prof.(Mrs.) Pawar Varsha Dadasaheb	Lecturer	BE IE / I	ME / I		11/02/1975	4	2		22/05/2006	17379 & 8275

Name of the Course	S. No	Name (s) of the Teaching Faculty	Designation (Lecturer/ Asst. Professor/ Professor)	Qualifications with field of specialization with class / division of passing			Date of Birth	Experience a) Teaching b) Industry c) Research (in Years)			Date of Joining the Institution	Gross total salary as on date with scale & Basic pay.
Info. Tech.	48.	Prof. Mali Jotiram Nana	Asst. Prof	BE ET / I	M.Tech Pow.Ele) / I Dist.		15/06/1972	2	10		09/08/2004	26775 & 12750
	49.	Prof. Pawar Abhijit Hanumantrao	Lecturer	BE Comp / I			10/05/1980	2	2		01/08/2005	17379 & 8275
	50.	Prof. Jadhav Ganesh Gulabrao	Lecturer	BE IT / I			05/05/1980	0.3			22/05/2006	17379 & 8275
	51.	Prof. Gawade Jawahar Sambhaji	Lecturer	BE Comp / I			14/11/1980	1	3		22/05/2006	17379 & 8275
	52.	Prof. (Miss) Taware Shwetkranti Nanasaheb	Lecturer	BE IT / I			09/08/1983	1.4			22/05/2006	16800 & 8000
	53.	Prof. (Mrs.) Gawali Ashwini Bhimrao	Lecturer	BE IT / I			20/09/1982	2.6			08/06/2007	16800 & 8000
Civil Engg.	54.	Prof. More Satish Bhaurao	Asst.Prof	BE Civil / Dist	ME Geo tech / Dist		02/02/1967	15			05/09/2000	29925 & 14250
	55.	Prof. Pingale Navnath Pandurang	Asst.Prof	BE Civil / I	ME Stru / I		02/06/1961	19	1		14/08/2003	27563 & 13125
	56.	Prof. Bhosale Santosh Ramchandra	Asst. Prof.	BE . Civil / Dist	M.E. GeoTech. / I		06/02/1979	4	1		05/08/2002	24300 & 12000
	57.	Prof. Shingade Vijay Shivaji.	Asst. Prof.	BE Civil / Dist	ME Stru. / I		06/02/1973	9	3		11/08/1997	24300 & 12000
	58.	Prof.Bhirud Yuvaraj Lomdas	Lecturer	BE Civil / I	M.Tech. Stru/ Dist		02/10/1973	6			07/08/2000	20265& 9650
	59.	Prof..Mingane Ramesh Birmal	Lecturer	BE . Civil / Dist			26/06/1976	5	1		01/08/2002	19111 & 9100
	60.	Prof. Jahagirdar. Shrikant Sitaram	Lecturer	BE Civil / Dist.	ME Env./ Dist.		26/09/1977	5			11/03/2002	19688 & 9375
Science & Humanities	61.	Prof. Jadhav Rajandra Anand	Lecturer	B.Sc. Chem / I	M.Sc Chem / I		16/07/1968	14			16/12/1992	21420 & 10200
	62.	Prof..Pawar Jaywant Yashwant	Lecturer	B.Sc. Phy / I	M.Sc Phy / I		3/11/1977	7			05/09/2000	20265 & 9650
	63.	Prof. Chougule Vitthal Anandarao	Lecturer	B.Sc. Maths / I	M.Sc Math. B.Ed / I		01/05/1967	7			18/08/2000	20265 & 9650
	64.	Prof.(Mrs.) Mokashi Sakashi Sachin	Lecturer	B.Sc. Chem / I	M.Sc Chem. B.Ed / I		11/ 02 / 1977	6			13/01/2001	20265 & 9650
	65.	Prof.(Mrs.) .Shirke Usha Kalash	Lecturer	B.Sc. Maths / I	M.Sc Math. / I		05/06/1975	4			01/08/2005	17379 & 8275
	66.	Prof. Bagawade Abhaykumar Dhananjay	Work. Supt.	BE Mech / I	ME Prod. / App.		23/02/1966	17	--	4	13/08/1996	29616 & 14625
	67.	Prof.Todkari Vinod Chandrakant	Lecturer	BE Mech / I	M.Tech /App.		30/05/1980	6	4		01/08/2002	19111 & 9100
	68.	Prof. Jagtap Ajaykumar Vasantrao	Lecturer	BE Prod./I			27/03/1972	8			05/08/2002	19111 & 9100
	69.	Prof .Gutte Sandeep Angad	Lecturer	BE Mech / I	ME HT/ I		11/06/1978	3.5			16/10/2004	17955 & 8850
	70.	Prof. Ingale Prakash Dashrath	Lecturer	BE Mech / I	ME Prod. / I		20/10/1977	2.5			22/05/2006	18533 & 8825
	71.	Prof. Mahindrakar Venkatesh Nagnathrao	Lecturer	BE Mech / I			20/12/1974	1.3			08/06/2007	16800 & 8000
	72.	Prof.Yadav Sandeep Narsing	Lecturer	BE Instru. / I			04/11/1974	7			14/08/2003	18533 & 8825
	73.	Prof .Managate Shrikant Dadarao	Lecturer	BE Elect./ I	ME Elect. / I		15/01/1976	6			08/08/2000	20265 & 9650
	74.	Prof. Sawant Sandeep Sopanrao	Lecturer	BE Elect. / I			20/06/1981	1	2		22/05/2006	17379 & 8275
	75.	Prof. Borate Sukeshkumar Pandurang	Lecturer	BE ETX. / I	M.B.A. / I		26/06/1975	3	1		22/05/2006	17379 & 8275

Name of the Course	S. No	Name (s) of the Teaching Faculty	Designation (Lecturer/ Asst. Professor/ Professor)	Qualifications with field of specialization with class / division of passing			Date of Birth	Experience a) Teaching b) Industry c) Research (in Years)			Date of Joining the Institution	Gross total salary as on date with scale & Basic pay.
	76.	Prof. Vedpathak Vijaykumar Murlidhar	Lecturer	BE Comp / I			30/3/1982	1			22/05/2006	17379 & 8275
	77.	Prof. Khalate Prashant Krishnarao	Lecturer	BE Civil/ Dist	ME CM / I		28/09/1971	7.5	5		22/05/2006	19111 & 9100
	78.	Prof. Pawar Amol Digambar	Lecturer	BE Civil / I	ME CM / I		02/12/1976	5	2.5		14/08/2003	18533 & 8825
	79.	Prof. Jagtap Prashant Shivajirao	Lecturer	BE Civil / I			09/05/1976	1			08/06/2007	16800 & 8000
	80.	Prof. Shelar Vaibhav Vilas	Lecturer	BE Civil / I			25/09/1982	1.10	0.3		09/06/2007	16800 & 8000

• **Adjunct faculty members with full scale:-**

Name of the Course	S. No	Name (s) of the Teaching Faculty	Designation (Lecturer/ Asst. Professor/ Professor)	Qualifications with field of specialization with class / division of passing			Date of Birth	Experience a) Teaching b) Industry c) Research (in Years)			Date of Joining the Institution	Gross total salary as on date with scale & Basic pay.
				UG	PG	Doctorate		a	B	c		
Mechanical Engineering	1.	Prof. Khade Ashok Arjun	Lecturer	BE Mech / I	ME Design / I		11/08/1978				09/06/2007	16800 & 8000
	2.	Prof. Zende K. C.	Lecturer	BE Mech / I			01/06/1979				06/08/2007	16800 & 8000
	3.	Prof. Pisal H. C.	Lecturer	BE Mech / I			19/01/1984				01/08/2007	16800 & 8000
	4.	Prof. Ranaware A. A.	Lecturer	B.E Auto			06/12/1983		1		24/08/2007	16800 & 8000
	5.	Prof. Kadane S. H.	Lecturer	B.E. Mech			01/06/1981		3		24/08/2007	16800 & 8000
	6.	Prof. Patil P. R.	Lecturer	BE Mech	ME Prod. (App)		29/07/1983	2			24/08/2007	16800 & 8000
Electronics & Telecomm. Engg.	7.	Prof. Dayde Hanumant Kashinath	Lecturer	BE E&TC / I			31/03/1981				09/06/2007	16800 & 8000
	8.	Prof. Jagadale Dinesh Shivajirao	Lecturer	BE ETX / I			25/07/1965	01	14		09/06/2007	16800 & 8000
	9.	Prof. Popharker S. B.	Lecturer	BE E&TC / I			29/07/1983				27/07/2007	16800 & 8000
	10.	Prof. Thorat S. D.	Lecturer	BE E&TC / I			15/03/1979				26/07/2007	16800 & 8000
	11.	Prof. Gawade A. S.	Lecturer	B.Teach			01/06/1985				11/08/2007	16800 & 8000
	12.	Prof. Madhul D. V.	Lecturer	B.Tech. Elect.			20/07/1982				24/08/2007	16800 & 8000
Computer Engg.	13.	Prof. Mandhare Yogesh Shankar	Lecturer	BE Comp. / I			28/01/1984				09/06/2007	16800 & 8000
	14.	Prof. Karande Vaishali Hanumant	Lecturer	BE Comp./ Dist.			01/02/1985	0.6			09/06/2007	16800 & 8000
	15.	Prof. Bankar Swati Pandurang	Lecturer	BE Comp. / I			06/02/1985				09/06/2007	16800 & 8000
	16.	Prof. Chhaste Rajendrababu Vitthal	Lecturer	BE Comp./ I			03/02/1979	2	0.6		09/06/2007	16800 & 8000
	17.	Prof. Jadhav Y. B.	Lecturer	BE IT / I			17/08/1985				24/08/2007	16800 & 8000
	18.	Prof. Narute A. D.	Lecturer	BE IT / I			13/01/1980				24/08/2007	16800 & 8000
Info. Tech.	19.	Prof. Waghmare Archana Babanrao	Lecturer	BE IT / I			23/11/1983				09/06/2007	16800 & 8000
	20.	Prof. Madane S. H.	Lecturer	BE IT / I			22/03/1986				30/07/2007	16800 & 8000
Civil Engg.	21.	Prof. Kate Gunwant Kashinath	Lecturer	BE Civil / I			16/05/1980				09/06/2007	16800 & 8000
Science & Humanities	22.	Prof. Shinde Vanita Krishnrao	Lecturer	B.Sc. Phy / I	M.Sc. Phy / I		31/10/1983	1			09/06/2007	16800 & 8000
	23.	Prof. Ballal Sachin Bhanudas	Lecturer	B.Sc. Math / I	M.Sc. Math / I		11/02/1984				04/07/2007	16800 & 8000
	24.	Prof. Jagtap Udaysinh S.	Lecturer	BE Mech / I	M.B.A.		01/06/1983				30/08/2006	16800 & 8000
	25.	Prof. Nale Rajesh Keshav	Lecturer	BE IT / I			21/11/1982				09/06/2007	16800 & 8000

- **Permanent Faculty: Student Ratio**

Particulars	Student	Staff	Ratio
Intake	1440	80	1:18

Total Faculty : Student ratio

Particulars	Student	Staff	Ratio
Intake	1440	105	1:13.71

- ❖ **Number of faculty employed and left during the last three years**

Year	Faculty Employed	Faculty Left
2002-03	09	05
2003-04	07	03
2004-05	08	10
2005-06	42	11
2006-07	09	08

**VII. PROFILE OF PRINCIPAL WITH QUALIFICATIONS,
TOTAL EXPERIENCE, AGE AND DURATION OF
EMPLOYMENT AT THE INSTITUTE CONCERNED**

**VII. PROFILE OF FACULTY WITH QUALIFICATIONS,
TOTAL EXPERIENCE, AGE AND DURATION OF
EMPLOYMENT AT THE INSTITUTE CONCERNED**

VIII. FEE

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

Sr. No.	Particulars	2005-06	2006-07	2007-08
1	Tuition Fee	21000.00	28700.00	*33325.00
2	Development Fee	1300.00	2300.00	
	Total Fee	22300.00	31000.00	*33325.00

* Interim Fee

❖ Time schedule for payment of fee for the entire programme.

:- At the beginning of the each academic year.

❖ No. of Fee waivers granted with amount and name of students. :- Nil

❖ Number of scholarship offered by the institute, duration and amount (2006-07)

The institute itself donot offer any scholarship. But the scholarships are offered by the Social Welfare Department and Zilla Parishad to the backward, OBC, EBC class students and the sons and daughters of primary and secondary school teachers.

The details for the academic year 2006-2007 are mentioned here under.

Sr.No.	Nature of Scholarship	Number	Total Amount	Duration
1	S.C. Freeship	32	1133240.00	Per year
2	S.B.C. Freeship	09	324630.00	Per year
3	N.T. & VJ Freeship	24	829610.00	Per year
4	O.B.C. Freeship	10	205700.00	Per year
5	S.B.C. Scholarship	05	195970.00	Per year
6	N.T.& V.J. Scholarship	43	1674485.00	Per year
7	O.B.C. Scholarship	104	4084645.00	Per year
8	S.C. Scholarship	37	1545570.00	Per year
9	Primary Teachers ward Freeship	20	80000.00	Per year
10	Higher Secondary Teachers ward freeship	42	168000.00	Per year
TOTAL		326	10241850.00	

❖ Criteria for fee waivers/scholarship.

1. Fee Waivers:- a) Needy and Economically backward class students
2. Scholarships :-
 - a) Backward & OBC class students scholarship/ Freeship awarded by Social Welfare Department.
 - b) Scholarship to Primary /Secondary School Teacher's wards, awarded by Zilla Parishad (District Council) Maharashtra State.

❖ Estimated cost of boarding and Lodging in Hostels.

Sr. No.	Particulars	Boys Hostel	Girls Hostel
1	Room rent per year	7000/-	7000/-
2	Hostel deposits	500/-	500/-
3	Boarding p.m.	7500/-	7500/-

IX. ADMISSION

❖ Number of seats sanctioned with the year of approval.

Sr	Course	Intake	Year of approval
1	Mechanical Engineering	120	1990
2	Elect. & Telecom. Engg.	120	1990
3	Computer Engineering	60	1999
4	Information Technology	30	2001
5	Civil Engineering	30	1990

❖ Number of students admitted under various categories for the last three years.

Course	Intake	Admission Position during year 2005-06									Total
		Open	SC	ST	VJ	NT1	NT2	NT3	OBC	SBC	
MECH	120	85	06	---	---	---	05	02	22	---	120
E & TC	120	84	06	---	---	---	08	01	19	---	118
COMP	60	38	04	---	01	02	01	01	14	---	61
IT	30	19	01	---	---	---	01	01	09	---	31
CIVIL	30	19	02	---	---	---	02	---	01	---	24

Course	Intake	Admission Position during year 2006-07									Total
		Open	SC	ST	VJ	NT1	NT2	NT3	OBC	SBC	
MECH	120	80	09	---	---	01	02	01	27	---	120
E & TC	120	78	11	---	01	03	06	02	20	---	121
COMP	60	38	06	01	---	03	03	04	05	01	61
IT	30	23	04	---	01	---	01	---	02	---	31
CIVIL	30	18	02	---	---	---	02	02	03	---	27

Course	Intake	Admission Position during year 2007-08									Total
		Open	SC	ST	VJ	NT1	NT2	NT3	OBC	SBC	
MECH	120	Admission process in progress									
E & TC	120										
COMP	60										
IT	30										
CIVIL	30										

CATEGORY	2005 - 06	2006 - 07	2007 - 08
CAP	139	245	Admission process in progress
AIEEE	10	30	
MANAGEMENT QUOTA	201	72	
GOI, J&K	04	04	

❖ Number of applications received and number admitted during academic year 2004 – 05 and 2005– 06 for management quota.

YEAR	APPLICATION RECEIVED	ADMITTED
2005-06	103	72
2006-07	109	72
2007-08	Admission process in progress	

X. ADMISSION PROCEDURE :

As per rules, regulations and procedure laid down by the competent authority of Directorate of Technical Education, Maharashtra State.

❖ **Mention the admission test being followed, name & address of the test agency and its URL**
(website) – www.dte.org.in

1. As per Common Entrance Test (MH-CET) conducted by Director of Technical Education Maharashtra State (65 %)
2. As per All India Engineering Entrance Examination (AIEEE) (15 %)
3. Management Quota – Seats are filled through MH-CET/ AIEEE appeared and diploma holders eligible candidates with permission of DTE Maharashtra State (20 %).

No separate test is conducted at institute level.

❖ **Number of seats allotted to different test qualified candidates.**

SR. NO.	BRANCH	INTAKE	MH- CET 65 %	AIEEE 15 %	MQ 20 %
1	MECH	120	78	18	24
2	E & TC	120	78	18	24
3	COMP	60	39	09	12
4	IT	30	19	05	06
5	CIVIL	30	19	05	06

❖ **Calendar for admission against management/vacant seats. (2007-08) :** Admissions are in process.

Note :- Admission procedure for 2007-08 as per schedule of Govt. of Maharashtra.

⇒ **The waiting list is activated only on the expiry of date of main list.**

⇒ **The policy of refund of fees in case of withdrawal.**

Refund of Tuition, Development and Other fees after cancellation of admission secured through CAP rounds -I/II/III/IV, in Institute level round(s) and Vacancy Round(s) of admissions in Government, Aided, University departments etc. and Unaided Institutes:

The candidate who has been provisionally admitted may cancel admission by submitting an application in duplicate, in the prescribed pro forma - O and may request for refund of fees. The refund of fees as applicable shall be made in due course. It is made clear that such application for cancellation will be considered if and only if the admission is confirmed by paying the prescribed tuition fee and other fees in full and by submitting the original documents. Refund shall be made after deduction of the cancellation charges as shown below:

1. In the event of a student/ candidate withdrawing before the starting of the course, the waitlisted candidates should be given admissions against the vacant seat. The entire fee collected from the student, after a deduction of the processing fee of **not more than Rs.1000/-** (Rupees one thousand only) shall be refunded and returned by the Institution/ University to the student/candidate withdrawing from the programme.

2. Should a student leave after joining the course and if the seat consequently falling vacant has been filled by another candidate by the last date of admission, the Institution must return the fee collected with proportionate deductions of monthly fee and proportionate hostel rent, where applicable.

* Session 7.9 from Engineering_Brochure_for_Admission_Inst_information_FE2007

XI. CRITERIA AND WEIGHTAGES FOR ADMISSION (2007 – 08) :

- ❖ Describe each criteria with its respective weightages i.e. Admission Test, marks in qualifying examination etc.

Eligibility Criteria:

Eligibility of Maharashtra State Candidate and OMS candidate for appearing for MHTCET-2007:

Candidate should be an Indian National and should have passed/appeared* the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics.

Note: *Candidates who have appeared for qualifying examination i.e. HSC (Std. XII) or its equivalent examination during the academic year 2006-07 and whose results are not declared till the last date of submission of application form are eligible to appear for MHT-CET-2007, however for admission to first year of degree courses in Engineering/Technology, such candidates must fulfill the eligibility criteria as applicable. Maharashtra State candidates and OMS candidates are eligible to appear for the MHT-CET- 2007 conducted by the Competent Authority of Government of Maharashtra for the academic year 2007–2008. Even though Outside Maharashtra State candidates are eligible to appear for the MHT-CET- 2007, it is specifically made clear that such OMS candidates **will not able to participate in the Centralized Admission Process**. These OMS candidates will be able to apply for the admissions against the Institute Level seats as well as the vacancy round of admission after completion of Centralized Admission Process, **ONLY in the Unaided Private Engineering Colleges/Institutes**. The facility of Constitutional Reservation is not available for the OMS candidates. Therefore **OMS candidates** will be treated as **OPEN/GENERAL** category candidate in the entire admission process.

Eligibility criteria for Maharashtra State Candidate and Outside Maharashtra State Candidate for admission to first year of degree courses in Engineering/Technology:

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics **AND** Secured minimum **50% marks** i.e. not less than 150 marks out of 300 marks (minimum **45% marks** i.e. not less than 135 marks out of 300 marks in case of candidates of Backward class categories belonging only to Maharashtra State) in **the subjects Physics, Chemistry and Mathematics** added together **AND** Obtained a **non zero score** in subjects Physics, Chemistry and Mathematics added together at **MHT-CET 2007**.

Eligibility Criteria for All India (AIEEE qualified) candidates: [for both the Maharashtra Candidates i.e. Type A, B, C, D, E and F and for the OMS candidates]

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics **AND** secured minimum **50% marks** i.e. not less than 150 marks out of 300 marks (minimum **45% marks** i.e. not less than 135 marks out of 300 marks in case of candidates of Backward class categories belonging only to Maharashtra State) in the subjects Physics, Chemistry and Mathematics added together **AND** Candidate should have a valid AIEEE Score (i.e. total score should be positive) for the year 2007– 2008.

Eligibility Criteria for Foreign National/Foreign student/ PIO/Children of Indian workers in the Gulf countries/Children of NRI

Candidate should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics and secured minimum 50% marks i.e. not less than 150 marks out of 300 marks in the subjects Physics, Chemistry and Mathematics added together.

The NRI candidates are eligible to apply for admission against the Institute level seats, only in Unaided Private Engineering Colleges/Institutes. The extent to which such NRI candidates shall be admitted is limited to 15% of the sanctioned intake.

The eligibility of the candidates passing the HSC (Std. XII) equivalent examination from a school/college/Examination Board situate outside India shall be further decided by the University Authorities to which the candidate is admitted. Hence such candidates are advised to get their eligibility verified by the respective University Authorities before seeking admission to the Engineering courses in the State of Maharashtra. The candidate belonging to this type stated is not required to appear for the MHT-CET 2007/AIEEE 2007.

Eligibility criteria for GOI nominees:

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics and secured minimum 50% marks i.e. not less than 150

marks out of 300 marks (minimum 45% marks i.e. not less than 135 marks out of 300 marks in case of candidates of Backward class categories) in the subjects Physics, Chemistry and Mathematics added together.

The candidate belonging to this type stated in rule 2.5, is not required to appear for the MHT-CET 2007/AIEEE 2007. Eligibility criteria for J & K Migrant candidates:

Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics and secured minimum 50% marks i.e. not less than 150 marks out of 300 marks in the subjects Physics, Chemistry and Mathematics added together.

The candidate belonging to this type stated in rule 2.6 is not required to appear for the MHTCET2007/AIEEE 2007. Eligibility criteria for MKB candidates:

In addition to the basic eligibility criterion mentioned in rule no. 2.2, candidates who have appeared & obtained a non zero score in the MHT-CET 2007 and belonging to the Maharashtra Karnataka Disputed Border Area are required to fulfil following additional eligibility criterions. Candidates have to be from such villages/towns, from the Maharashtra Karnataka disputed border areas, on which Maharashtra puts its claim (Refer Annexure I).

The candidate should produce the certificate that his/her father/mother/candidate himself/herself is a domicile of Karnataka in the disputed border area as specified in the Proforma G **OR** The candidate should produce the domicile certificate of his/her father/mother/candidate himself/herself stating that he/she is a resident of a village mentioned in Annexure –I.

The candidate should have passed SSC (or equivalent) and/or HSC (or equivalent) from an Institution *situate* in the disputed border area. The candidate must produce a certificate from the Principal/Head Master of the College/School stating that the candidate has passed SSC/HSC (or equivalent) Examination from that Institution. Mother tongue of the candidate must be Marathi. The candidate must produce a certificate from the Principal/Head Master of the School from which he/she has passed the SSC (or equivalent) Examination, stating that the candidate's Mother tongue is Marathi as per the original School record. Candidate should have passed SSC or HSC (or equivalent) Examination with Marathi as one of the subject.

Eligibility criteria for Candidates who are sons/daughters of Defence service personnel:

In addition to the basic eligibility criterion mentioned in rule no.2.2, candidates who have appeared & obtained a non zero score in the MHT-CET 2007 and satisfying any one of the following criterions are eligible to seek admission against seats for sons/daughters of defence service personnel. Candidate is a son/daughter of ex-service personnel who is domiciled in Maharashtra State (Def-1). Candidate is a son/daughter of active service personnel who is domiciled in Maharashtra State (Def-2). Candidate is a son/daughter of active service personnel (Def -3) Who is transferred to Maharashtra State but is not domiciled in Maharashtra State DTE, Mumbai.

Who is not domiciled in Maharashtra State but his/her family is stationed in Maharashtra State under the provision of retention of family accommodation at the last duty station on the grounds of childrens' education, provided further that, such candidate should have appeared and passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination from a school/college situate in the State of Maharashtra.

Note:

This provision is NOT available to the children of CIVILIAN STAFF who is working/ who has worked with the Indian Defence Services.

2.9 Eligibility criteria for Candidates who are Physically Handicapped:

In addition to the basic qualification mentioned in rule no. 2.2, candidate who has appeared & obtained a non zero score in the MHT-CET 2007 and suffering from any one of the following disability is eligible to seek admission against seats for Physically Handicapped candidates [**only Maharashtra State candidates (Type A,B,C,D,E and F) are eligible to apply for admission against these seats**]

Candidate who is visually impaired (blind) candidate (type P1)

Candidate who is speech & hearing impaired (deaf & dumb) candidate (type P2)

Candidate who is with orthopedic disorders, learning disabilities, Dyslexia, Dyscalculia, Dysgraphica, Spastic (type P3)

Other eligibility criteria for specialized branches of Engineering:

Candidates seeking admission to some special courses or under some special provisions have to fulfill the following additional eligibility criteria.

Admission to Bio- Medical/Bio-tech Engineering course :

Candidates seeking admission to Biomedical/Bio-Tech Engineering course should have passed in the subject of Biology in the qualifying examination in addition to fulfilling the Eligibility criteria.

Admission to Mining Engineering course:

Female candidates are not eligible for admission to Mining Engineering course.

Admission to Marine Engineering Course in Padm. Vasantdada Patil Pratishthan's College of Engineering, Sion, Mumbai : Candidates aspiring to take admission to Marine Engineering Course in the following institute should directly contact the Principal of the college for eligibility criteria (Educational Qualification & Entrance Test) and admission process.

Eligibility criteria of Candidates who have passed/passing Diploma in Engineering/Technology and seeking admission to First Year of Engineering/Technology: (Against Institute Level Seats/Vacant seats after completion of CAP)

Diploma holders who have passed the Diploma course in Engineering/Technology with minimum of 50% marks and medium of instruction as English from the Polytechnics affiliated to MSBTE or AICTE approved autonomous Polytechnics in Maharashtra State (for Maharashtra State Candidates) or such polytechnics situate inside/outside the State of Maharashtra (for Outside Maharashtra State Candidates).

Note:

1. To resolve a tie i.e. more than one candidate securing equal aggregate marks in Final year of the Diploma exam, following order of preference shall be adopted: Maths at SSC, Grand Total at SSC.

2. Eligible Diploma candidates (rule 2.11) shall be considered for Admission **against the Institute level seats/vacant seats** existing after completion of the Centralized Admission Process in **Unaided Private Institutes only**. The details of the admission process for filling application for admission against vacant seats shall be made available in the separate information brochure.

3. Such Diploma candidates (rule 2.11) are **not eligible** to appear for the MHT-CET 2007.

General Notes:

1. In case the maximum marks in individual subjects is other than 100 or total marks other than 300, then while converting marks out of 100 or total out of 300, no *rounding off* of the marks will be done. If the converted marks work out to be a figure with fraction, fraction up to two decimal places will only be considered e.g. if marks obtained (after conversion) added together work out to be 149.99 out of 300 (134.99 out of 300 for Reserved category MS candidate) then such a candidate will not be eligible for seeking admission to Degree courses in Engineering.

2. If **letter grades** are assigned instead of marks at SSC, HSC or its equivalent examination the candidate must obtain the certificate of conversion of letter of grades into marks from the competent authority where from the candidate has passed the examination. The candidate should produce such certificate at the time of submission of application form. The Eligibility shall be decided based on the equivalent marks submitted by such candidates.

3. If the candidate reappears for the qualifying examination (std XII or its equivalent) **with all subjects** then the marks obtained in the latest examination will only be considered for determining the eligibility criterion.

4. The Rules and Regulation/procedure stated herein is applicable for MHT-CET-2007 examination and selection to Engineering Courses for the academic year 2007-08. No promise is implied herein for the subsequent years and no expectation should be based on this for future.

❖ **Mention the minimum level of acceptance :-**

Cut off levels (CET MARKS) for 2005-06

Sr. No.	BRANCH	CAP	MQ	AV	AIEEE
1	MECH	58	55	57	08
2	E&TC	69	50	57	10
3	COMP	46	64	45	21.5
4	IT	58	64	43	---
5	CIVIL	49	58	42	---

Cut off levels (CET MARKS) for 2006-07

Sr. No.	BRANCH	CAP	MQ	AV	AIEEE
1	MECH	60	47	56	04
2	E&TC	54	57	70	15
3	COMP	49	74	93	15
4	IT	76	64	---	46
5	CIVIL	50	54	60	----

Cut off levels (CET MARKS) for 2007-08

SR. NO.	BRANCH	CAP	MQ	AIEEE
1	MECH			Admissions are in process
2	E&TC			
3	COMP			
4	IT			
5	CIVIL			

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

List of candidates marks scored in test etc. (2007-08)

SR.NO.	NAME OF STUDENT	CATEGORY	PCM	CET/AIEEE
Admissions are in process				

XII. APPLICATION FORM : In process

XIII. LIST OF APPLICANTS (2007 –08) :

- ❖ List of candidates whose applications have been received along with percentile/percentage score for each of qualifying examination in separate categories for open seats. List of candidates who have applied along with percentile/percentage score for management quota seats.

General Merit List Of Management Quota

Sr. No	Merit No	Name	Sex	Cast	CET Score	Math	Phy	AIEEE Score	Pcm Marks	Dip. Marks	Remarks
Admissions are in process											

- **General Merit List Of Against Vacancy**

Sr. No	Merit No	Name	Sex	Cast	CET Score	Math	Phy	AIEEE Score	Pcm Marks	Dip. Marks	Remarks
Admissions are in process											

XIV. RESULTS OF ADMISSION UNDER MANAGEMENT SEATS / VACANT SEATS

- ❖ **Composition of selection team for admission under Management Seats / Vacant Seats. (2007-08)**

0.1. Chief Admission Officer - Prof. A. S, Jambhale, I/C Principal, COE Malegaon (Bk.)

0.2. Chairman – Prof. J. Y. Pawar, F.E. Coordinator, Pysics Department.

1.3. Member – Prof. P. H. Parkale, Asst. Prof. Mechanical Department.

1.4. Member – Prof. A. V. Jagtap, Lecturer, Mechanical Engineering Department.

1.5. Member – Prof. P. D. Ingale, Lecturer, Mechanical Engineering Department.

1.6. Member – Prof. S. A. Gutte, Lecturer, Mechanical Engineering Department.

2.7. Member – Prof. Mrs. U. A. Shirke, Lecturer, Mathametics Department.

3.8. Member – Prof. Mrs. S. S. Mokashi Lecturer, Chemistry Department.

3.9. Member – Shri. A. N. Mahadik, Technical Assistant, Electrical Department.

- ❖ **Score Of Individual Candidates Admitted arranged in order of merit. (2007-08).**
: Admissions are in process.
- ❖ **List of the candidates who have been offer admission :** Admissions are in process.
- ❖ **Waiting list of the candidates in order of merit to be operative from the last date category before operation of waiting list. :** Admissions are in process.
- ❖ **List Of Candidates who Joined Within the Date, vacancy position in each category before operation of waiting list. :** Admissions are in process.

XV. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE

LIBRARY:

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

a. No. of Books	: 16806
b. No. of Titles	: 5873
c. No. of National Journals	: 39
d. No. of International Journals	: 22
e) Springerlink online Indian & Forgian Journals	: 500

- List of online National/International Journals subscribed. :- Yes

Memberships	Delnet
	Springer link, Indian & Forgian 500 online Journals.
	I. I. T. - Mumbai.

- E-Library facilities available: In-processes

LABORATORY:

For each Laboratory

- List of Major Equipment/Facilities

Sr. No.	Name Of The Laboratory / Workshop	Major Equipment
Science & Humanities		
1	Applied Chemistry Lab.	Dist. Water Plant
		Electric Oven
		Weighing Balance
		Muffle Furnace
2	Applied Physics Lab	Fiber Optic Kit
		Newtons Ring Expt.
		Resolving Power Of Telescope
		E/M By Helical Method
		Ultrasonic Interferometer
Civil Engineering		
3	Surveying	Total Station
		Theodolite One Second With Stand
		Nautical Sextant
		Vernier Transit Theodolite 20 Second
		Mirror Stereoscope With Parallaxbar
		Digital Planimeter
		Dumpy Level

Sr. No.	Name Of The Laboratory / Workshop	Major Equipment
		Automatic Level
		Leveling Staves
4	Transportation Engineerings	Film Stripping Device
		Ductility Testing Machine
		Flash & Fire Point Apparatus
		Marshal Stability Apparatus With Proving Ring & Dial Gauge
5	Testing Of Materials	Vibrating Machine
		Torsion Testing Machine
		Tile Abrasion Testing Machine
		Compression Testing Machine
		Schmidt Hammer
		Universal Testing Machine
		Electric Cum Hand Operated Mixer
		Tile Flexure Apparatus
		Vibrating Table
		Eletronic Platform Balance
		Vee -Bee Consistometer
		Sieve Shaker
6	Engineering Geology	Quartzs & It's Variates Common Rock Specimen
		Minerals Specimens
		Typical Rock Specimen
7	Geotechnical Engineering	C. B.R. Test App-
		Unconfined Compression Test App-
		Extractor Frame
		Relative Densisty App-
		Permedility Test App.
8	Environmental Engineering	Bod Incubator
		Bacteriological Incubator
		Jar Test App-
		Tempo Furnace (Muffle)
		Enviro Tech Respirable Dust Sampler
		Alum Jar Test App-
		Spectorphoto Meter
		Auto Clave
		Balance (Shimadzu)
9	Fluid Mechanics	Bernoulli's Apparatus
		Pipe Friction Apparatus
		Electrical Analogy
		Reynolds's Apparatus
		Metacentric Heights
		Redwood Viscometer
		Centrifugal Test Rig
		Pelton Wheel Turbine
		Orifice Apparatus
10	Computer	Computer -IV
		Staad Pro – Software
		Sepl - Retwall
		Ls – Drafter
Computer Engineering		
11	Computer Center	Computer Piii 700 Mhz Witfi 14" Colour Monitor, 8.4gb Hdd, 64 Mb Ram, 101 Keyboard
		Computer Celeron 500 Mhz With 14 " Colour Monitor, 8.4gb Hdd, 64 Mb Ram, 101 Keyboard
		Rational Software - Enterprise Edition Suite -Node Locked Liasion For 10 Users
		Ups 7. 5 Kv A Online

Sr. No.	Name Of The Laboratory / Workshop	Major Equipment
		Ups 0.5 Kva Of Line Cd Writer Lg Web Camera (Intel Dulex) Printer Epson Lx 1170+ D-Link Router 2- Way Di 1162 Computer Ptv 2.4 Ghz, 15" Color Monitor, 40 Gb Hdd, 128 Mb Ram, 101 Keys Keyboard, 10/100 Mbps Lan Card, 52x Cdr, Mouse Server – Ibm X335 Single Xeon 2.8ghz, 512mb Ecc Ddr Sd-Ram, Integrated Ultra 320 Scsi Controller, 10/100/1000 Mbps Ethernet, 48x Cd-Rom, 1.44 Fdd, Server Guide, Ibm Director, 36gb Ultra 320 Scsi Hot Plug Hdd (Duel) Addition 256 Mb Ecc Ddr Sd-Ram Precision Server Rack 600w/Al/42u/800 Networking Switefas- 16 Port S/W 24 Port S/W 48 Port S/W 16 Port Jack Panel 18 Port Jack Panel 12 Port Jack Panel
12	Computer Center	4u Rack With Hardware 18 Port Jack Panel Lan Cable Cat6 Box Surface Mount Cat 6 Jack Computer - Boxpack Original Set Of Intel P-Iv 2.8ghz Cpu, 256mb Ddr Ram, Expandable Up To 512 Mb, Intel 845 Original Motherboard, 40 Gb Hdd Seagate, 1.44.Mb Fdd Sony, 101 Keys Keyboard, Samtron 15" Montor, Logitech Optical Mouse, Atx Cabinet. Computer - Boxpack Original Set Of Intel P-Iv 2.8 Ghz Cpu, 512 Mb Ddr Ram, Intel 845 Original Motherboard, 80 Gb Hdd Seagate, 1.44 Mb Fdd Sony, 101 Keys Keyboard, Samtron 17* Montor, Logitech Optical Mouse, Atx Cabinet. Cvt Printer Epson Lx 300 Lcd Projector Panasonic
Internet Facility Details :- Year 2005-06		
	Bsnl Lease Line	1 mbps, 1:1 lease line (BSNL)
Mechanical Engineering		
13	Theory Of Machines Lab.	V & Flat Belt Test Rig Clutch & Break Lining Friction Testing Apparatus Epicyclical Gear Train & Holding Torque Device Gear Tooth Profile Generator with Rack and Pinion Cutter
14	Dynamics Of Machinery	Universal Governor Apparatus Motorised Gyroscope Cam Analysis Machine Vibration Lab(Experimental Setup)

Sr. No.	Name Of The Laboratory / Workshop	Major Equipment
		Machinery Vibration Dual Channel FFT Spectrum Analyser / Powerful Data Collector
15	Metrology & Quality Control	Profile Projector
		Dial Calibration Tester With Set Of Accessories
		Tool Makers Microscope
		Precision Sprit Level (Japan) 150 Mm. 0.02mm
		Floating Carriage Diameter Measuring M/C
		C.E.J.Type Comparator
16	Heat Transfer	Metal Rod Apparatus
		Thermal Conductivity Of Insulating Powder
		Composite Wall Apparatus
		Thermo Couple Calibration Test Rig
		Stefan Boltzman Apparatus
		Emmissivity Measurement Apparatus
		Critical Heat Flux Apparatus
		Parallel Flow - Counter Flow Heat Exchanger
		Natural Convection Apparatus
		Pin Fin Apparatus With Blower
17	RAC Lab	Mini Ice Plant
		Refrigeration Tutor
		Centrifugal Air Compressor Test Rig
		Subsonic Air Nozzle Test Rig
		Recirculating Type Air Conditioning Trainer
		Vapour Absorption Trainer (Electrolux Type)
18	IC Engines & Automobile Engineering Lab	Multi Cylinder Diesel Engine Test Rig
		Single Cylinder Petrol Engine Test Rig
		Multicylinder Petrol Engine Test Rig with Eddy Current Dynamometer
19	CAD Lab	Pentium S M-100 , 100 Mhz Ram, 1.2gb Hdd
		Pentium- Iii , 64 Mb Ram, 8.7gb H.D.D
		Pentium- Iii, 128mbram 17gb .H.D.D.
		Pentium-Iii, 128 Mb Ram 40gb. H.D.D.
		Pentium-Iii, 256 Mb Ram 40gb. H.D.D.
		Pentium- Iv- 2.8 Ghz,256 Mb Ram 40 Gb Hdd, 15" Colour Monitor *
		Pentium- Iv- 2.8 Ghz, 512 Mb Ram 80 Gb Hdd, 17" Colour Monitor *
		Printers
		Wipro Epson Lq1050 +132 Column 24 Pins 300 Cps.
		Plotters
		Hp 500 A0 Size Colour Plotter
		Peripherals
		C.V.T.- 5 Kva *
		Softwares

Sr. No.	Name Of The Laboratory / Workshop	Major Equipment
		Ansys/Low University Version5.3 (Finite Element Software Package Consisting Of 16000 Nodes) Autodesk Mech.Desktop R -13 +Autodesigner +Autosurf. M.D.T 6.0 ,With Auto Cad 2002 Inventor 4.0 Ansys 6.1 Upgradation Of Mdt 6.0 (7 Copies) & Inventor-5 (3 Copies) To Bundle Pack Inventor -9 (Mdt 2005 & Inv 9 & Autocad 2005) MATLAB-7 (Basic + 3 Modules) MATLAB-7 Data Acquisition Tool Box
20	Fluid Machinery	Hydraulic Accumulator & Intensifier Pneumatic Trainer Kit Hydraulic Trainer Oil Gear Pump Kaplan Turbine Test Rig 3.7 kW/5HP Didactic Equipment Set Basic Pneumatics TP101 Customized Supplementary Electro pneumatic
21	Mechatronics	Flow Loop With P.I.D. Controller,Flow Switches Recorder, Electro-Pneumatic Convertor,Pump,Control Valve,Pressure Transmitter,Orifice, Rotameter, Ms Tank Etc L.V.D.T. For Displacement Measurement Dead Weight Tester Micro-Processor Based Temperature Control System. Micro-Processor Based Level Monitoring System
22	Metallurgy	Ericcson Cupping Test Rig Impact Testing Machine Double Disk Polishing Machine Muffle Furnace With Controller Cum Indicator Metallurgical Microscopes Trinocular Microscope with CC TV Magnetic Particle Crack Detector Rockwell Hardness Tester Vicker's cum Brinnel Hardness Tester Image Grabbing System with Software for Metallurgy
23	Teaching Aids	Overhead Projector MVTEX Make Model MOP-101 LCD Projector Panasonic
Dept. Of E&Tc		
24	Digital CKT. Lab	Cro-20mhz- Scientific Cro 20mhz Power Supply 0-30v 2 Adual Power Supply 0-30v Duel Cro 20 Mhz Pentium Iii,650mhz,64mbram
25	Power Electronics Lab	Cro. 20 Mhz

Sr. No.	Name Of The Laboratory / Workshop	Major Equipment
		Power Scope Current Source Inverter Dc Shunt Motor Speed Control With Microprocessor Single Phase Inverter Induction Motor Speed Control Power Factor Correction Method Instrumentation In Power Firing Circuit Rf Heating Speed Control Of Fractional Hp (Series Motor) Stepeer Motor Speed Control Single Phase Mosfet Bridge Inverter Speed Control For Dc Brush Motor Trigering Ckt For Scr Transistorised Inverter For Ups Three Phase Induction Motor Speed Control Dual Converter For Dc Motor
26	Electronics Circuit Lab	Cro Cro 20 Mhz Power Supply Signal Generator Pentium Iii,650mhz,64mbram Cds(Pacific Make) Cro 20 Mhz Dual Trace Cro. 20 Mhz Dual Trace Power Supply Dual Power Supply Dual Power Supply Single Funtion Generator F C-200 Funtion Generator Typ-10\2 Linear I C Tester Sine & Square Wave Oscillator Digital Multimeter Dm 354 Cds Digital Ic Tester Decade Capacitance Box Decade Inductance Box Decade Resistance Box Lcr-Q-Meter
27	Microprocesor Lab	8085 Mediam Cost Trainer Kit;S With Power Supply Low Cost 8085 Trainer Kit With Power Supply 8051 Kit With Power Supply 8086 Kit - V86 Model 8086 Kit Power Supply 8031 Mp Based Trainer Kit With Power Supply 8085 Kit (Classic) With Power Supply Eprome Eraser With Timer Add On Card For Computer Opational Eprome Programmer Z-80 Kit With Power Supply 8088 Cpu Model Model V-85 With Power Supply
28	Communication System Lab	Cro20mhz L/T 320 Cro100mhz L/T 590 Power Supply Conel 301 Function Generator 1mhz L/T Fc200 Digital Multimeter M890d V-I Characteristics V-I Characteristics

Sr. No.	Name Of The Laboratory / Workshop	Major Equipment
		Pcm Fiber Optic Kit
		Analog Transmission
		Measurement Of Numerical Aperture
		Pcm Voice Transmission
		Pwm Transmission
		Studey Of Attenutationu
		Pc To Pc Communication
		Optical Power Meter
		Up To Upfiber Optic Link
		Frequency Responce Of Optical Detector
		29
Digital Multimitter M890-D		
Dso Philips Pm 3365a, 100 Mhz		
Cro Probe 1:10 Type 8923		
Function Generator Aplab 2012		
Pulse Generator Hm8035		
Frequency Counter Philips 9031 , 1.1 Ghz Counter		
Field Strength Meter Dbmx Model 329e		
Logic Analyser - Tekhind 1230-16 Channel		
Colour Tv Bharat		
Strowger Step By Step Exchange		
30		Cro Aplab-3304
Cro L&T 590, 100 Mhz		
Clystron Power Supply		
V.S.W.R. Meter		
Gunn Diode Power Supply		
Klystron 2k25 & Its Equipment		
Klystron Mount		
Sloted Section With Probe Carriage		
Tunable Probe		
Wave Guide Detector Mount Tunneble Without Crystal		
Wave Guide Detector Mount Butt Flanges On Both Ends		
31	Mechatronics & Control Lab.	Dc Motor
Ac Motor		
Transfer Response Second Order		
Dc Position		
Study Of Servo Product		
Root Locus & Fre Phase Shift Osci.		
Dc Motor Speed Control With Tacho F/B		
32	Electrical Lab.	Ammeter(Portable) 0-2-4a Ac
Alternator		
Digital Multimeter		
Dimmerstat 10a		
Digital Tachometer		
Motor-Generator Set(D.C.Shunt)		
Motor-Generator Set(D.C.Compound)		
Motor -Generator Set(D.C.Series)		

Sr. No.	Name Of The Laboratory / Workshop	Major Equipment
33	Computer Lab	Computer P-Iv , 2.8ghz, Intel 845gvsrlmotherboard,256mb Ram, 40gb Hdd(Samsung),52x Cd Rom(Samsung),1.44fd(Sony), Logitech Optical Mouse, Keyboard (121 Key), Atx Cabinet, 15” Moniter (Samsung) Dsp Workstation : Dsp 1.0 Parallel Processing Model Dsp Kit Tms 320c26 Dsp Kit Tms 320c50 Universal Trainer Kit[Spartan –Ii Based Epga Trainer Model Mxux-208]
34	Project & Hardware	Power Supply Dual –301/Sd (0-30v-1.5a) Digital Multimeter M-890-0 31/2 Digit L&T(41/2 Digit-True Rms)
35	Softwares	Vlsi Lab Package Xilinx Make Vlsi S/W Us Fnd Eli Pc Ver 3.11 One Copy Same As Above Four Copy Vlsi Demo Board Model Mxck-084,004 Cpld9572 Mxck 044-001cpld 9536 Mxsfk-084,001 Fpga-4003 F. Mxfk 084,001 Fpga- 4003 Xilinx Software Version 2.1 With Cpld & Fpga Kit Matlab Control Tool Box (5 key) Digital signal processing tools box (5 key) Orcad Software (15.1)

List of Experimental Setup: -

Class wise Experimental Setup

Class: F. E. App. Chemistry

SEMESTER – I

Sr.No.	Name Of Experiment	Experimental Setup
1	Determination of total hardness of water by EDTA method.	Burette, pipette, conical flask, measuring cylinder, beakers etc.
2	Determination of alkalinity of given sample of water.	Burette, pipette, conical flask, measuring cylinder, beakers etc.
3	Determination of PH changes & end point of acid base titration by PH meter.	PHmeter, glass electrode, burette, pipette, beakers, measuring cylinder etc.
4	Determination of dissolved oxygen in given samples of water.	Glass stopper bottles, beakers, conical flask, burette, pipette, measuring cylinder etc.
5	Preparation of polymers.	Beakers, glass rods, measuring cylinder etc.

SEMESTER – II

6	Determination of moisture, volatile matter, ash content in given sample of coal.	Muffle furnace, Weighing balance, Silica crucible, pair of tongs, measuring cylinder.
7	Separation of metal ions by paper chromatography & identification of their R _f values.	Chromatography chamber, chromatography paper, beakers, capillary tubes etc.
8	Separation of mixture of organic compounds by TLC.	Chromatography chamber, iodine chamber, TLC plate, capillary tubes etc.
9	Study of corrosion of metal in medium of different PH.	Metal plates, beakers, measuring cylinder, Weighing balance.
10	Study of Beer Lamberts Law using Spectrophotometer & estimation of concentration of unknown solution.	Spectrophotometer, Weighing balance, measuring cylinder, beakers etc.

Class wise Experimental Setup

Class: F. E. App. Physics

SEMESTER – I

Sr.No.	Name Of Experiment	Experimental Setup
1	Determination of wavelength by using diffraction grating	Mercury lamp, spectrometer, diffraction grating, etc.
2	Newton's ring experiment	Sodium vapour lamp, planoconvex lens, plane glass plate, traveling microscope etc.
3	Experiment based on ultrasonic waves	Ultrasonic interferometer
4	Resolving power of telescope	Telescope, slit width, sodium vapour lamp, object etc.
5	To verify cosine square law of Malus	Light source (unpolarised), polarizer, analyzer, photocell, power supply, etc.

SEMESTER – II

Sr.No.	Name Of Experiment	Experimental Setup
1	Determination of bandgap of semiconductor diode	Ge Diode, thermometer, oven, microammeter, power supply etc.
2	Study of solar cell characteristics	Light source, solar cell, voltmeter, microammeter, multimeter, variable load resistance etc.
3	Study of diode characteristics	Ge diode, LED, zener diode, multimeter, power supply, voltmeter, microammeter etc.
4	e/m by Thomson's method	Pair of bar magnets, CRT, Power supply, magnetometer etc.
5	Verification of photocell characteristics	Photocell, power supply, light source, voltmeter, multimeter etc.

CIVIL DEPARTMENT
CLASSWISE EXPERIMENTAL SETUP

CLASS: FE CIVIL

SUBJECT: BASIC CIVIL ENGINEERING

SR NO	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
1	Ranging by eye arid using line ranger. Measurement of distance by tape. Measurement of offsets by swing method and using open cross staff.	Line Ranger, Peg, Arrow ,Tape,Open Cross Staff
2	Study and use of prismatic compass, to measure bearings of 2 lines and determining the included angle.	Prismatic compass
3	Correction of bearing for a polygon	Prismatic compass
4	Study and use of Dumpy level & leveling staff	Dumpy level, Levelling Staff
5	Reduction of RL's by collimation plane and rise and fall method	Dumpy level, Levelling Staff
6	Measurement of area of irregular figures by digital planimeter	Digital Planimeter
7	Drawing of plan elevation & section for a residential building, single storeyed framed/load bearing structure of minimum 62 sq.m built up area. Preparing schedule of openings [On half imperial sheet	Drawing Sheet
8	Determination of coordinates of a traverse using Global Positioning System (GPS)	GPS Apparatus
9	Measurement of land area having irregular boundaries [minimum 0.3 hectare	Ranging Rod, Tape and accessories
10	Measurement of distance by EDM and comparing it with the distance measured using tape.	Electronic Distance Meter

CLASS: FE CIVIL
SUBJECT: ENGINEERING MECHANICS

Sr. No.	Name of Experiment	Experimental Set Up
1	Reactive forces in simple and compound beam	Beam reaction apparatus, Weights with hanger.
2	Belt Friction (Flat belt)	Belt Friction apparatus, Flat belt, weights.
3	Weston's differential pulley block	Weston's differential pulley block, Weights
4	Moment of Inertia of Fly wheel	Fly wheel, string, weights with hanger, scale, stop watch
5	Compound pendulum	Compound bar pendulum, stop watch
6	Co-efficient of restitution	Sheets of different materials.

CLASS: SE CIVIL

SUBJECT: CONCRETE TECHNOLOGY

Sr. No.	Name of Experiment	Experimental Set Up
1	Standard Consistency of cement	Vicat's apparatus
2	Initial and Final Setting time of cement	Vicat's apparatus
3	Fineness test by sieving of cement	90 micron sieve
4	Compressive Strength of cement	CTM, moulds, vibrating table, standard sand
5	Soundness test of cement	Le-chatlier's apparatus
6	Slump test and	Slump cone apparatus
7	Compaction factor	Compaction factor apparatus
8	Vee-Bee test	Vee-Bee consistometer
9	Effect of retarders on setting time	Vicat's apparatus
10	Effect of plasticizers on workability	Vee-Bee consistometer
11	Specific Gravity of Aggregate	Density basket
12	Sieve Analysis	Set of sieves
13	Flakiness and Elongation index of aggregate	Flakiness gauge and elongation gauge
14	Moisture content	Oven balance and weights

15	Aggregate Impact value	Aggregate Impact apparatus
16	Crushing value of aggregate	CTM ,
17	Compressive Strength of concrete:	CTM
18	Tensile strength of concrete:	UTM
19	Modulus of rupture of concrete:	UTM
20	Determination of Modulus of Elasticity, of concrete	UTM
21	Demonstration of Rebound Hammer	Rebound Hammer
22	Determination of Carbonation depth.	Indicator (phenolphthylene)
23	Concrete Mix Design by IS Code Method	Moulds, compaction factor equipment and CTM

CLASS: SE CIVIL

SUBJECT: FLUID MECHANICS - I

SR NO	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
1	Measurement of viscosity	Redwood Viscometer
2	Study of pressure measuring devices	Piezometer, Differential Manometer
3	Study of stability of floating bodies	Ship model
4	Flow net by electrical analogy for flow below weir (With and without Sheet pile)	Electrical Analogy Method
5	Study of Bernoulli's theorem with reference to losses of energy	Bernoullies Instrument
6	Calibration of venturi meter /orifice meter	Venturimeter / orifice meter
7	Calibration of orifices/notch	Orifice / Notch
8	Study of laminar flow using Reynolds's apparatus and Helshaw's apparatus	Reynolds instrument
9	Study of laminar and turbulent flow through pipes	Flow through pipe instrument
10	Study of minor losses in pipe flow	Flow through pipe instrument

CLASS: SE CIVIL

SUBJECT: STRENGTH OF MATERIALS

SR NO	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
1	Tension test on mild steel, tor-steel, and aluminum	Universal Testing Machine Extensometer
2	Shear test on mild steel and aluminum	Universal Testing Machine Shear Block
3	Torsion test on mild steel and cast iron	Torsional Testing Machine
4	Impact test on mild steel, aluminum, copper, brass, and Cast iron.	Izod Charpy Apparatus
5	Hardness test on mild steel, copper, aluminum, brass and cast iron	Brinell Hardness Testing Machine
6	Bending test on timber and plywood compression test on timber, bend- rebend test on mild steel and tor-steel and flexure test on mild steel	Universal Testing Machine Compressive Testing Machine
7	Tests on bricks: -compressive strength, water absorption and efflorescence test.	Compressive Testing Machine
8	Tests on tiles: - flexural strength of flooring and roofing tiles, abrasion test of flooring tiles-cement and marble mosaic	Flexural Testing Machine Abrasion testing Machine Oven

CLASS: SE CIVIL

SUBJECT: SURVEYING I

SrNo	Name of Experiment	Experimental Setup
1	Study and use of dumpy level and auto level to determine elevations of various points.	Dumpy level, auto level
2	Measurement of horizontal and vertical angles by transit theodolite	20" Theodolite,
3	Measurement of horizontal angles by repetition method	20" Theodolite,
4	Project I - Theodolite traverse survey project of a closed traverse with at least four stations, computation of area of the traverse	20" Theodolite,
5	Computation of horizontal distances and elevations by tachometry	Tachometer
6	Project II- Tachometric contouring project with two instrument stations about 60 m apart.	Tachometer
7	Radiation and intersection methods in plane table survey	Plane table Theodolite,
8	Project III - Plane table survey project of a close traverse with at least 4 stations with details such as buildings, roads, etc	Plane table and accessories
9	Setting out a given building from a given foundation plane	Theodolite, and accessories
10	Setting out a circular curve by Rankine's method of deflection angles or by offsets from chords produced.	20" Theodolite, and accessories
11	Project IV - Road project for a minimum length of 300 m including fixing of alignment, profile leveling, cross-sectioning, plotting of L-section and cross-section	Auto level and accessories
12	Writing the program or use of software for anyone of the exercises listed above.	Computer

CLASS: TE CIVIL

SUBJECT: FLUID MECHANICS- II

SR NO	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
1	Flow around a Circular Cylinder	Wind Tunnel
2	Flow around an Aerofoil.	Wind Tunnel
3	Impact of Jet on flat/curved surface	Impact of Jet
4	Characteristics of a Hydraulic Turbine	Pelton Wheel
5	Characteristics of a Centrifugal Pump.	Centrifugal pump
6	Study of Uniform Flow Formulae of Open channel	Tilting Flume
7	Velocity Distribution in Open Channel Flow	Tilting Flume
8	Calibration of Standing Wave Flume / Venturi / Parshal flume	Tilting Flume
9	Study of Hydraulic Jump as Energy Dissipater.	Tilting Flume

Sr. No.	Name of Experiment	Experimental Set Up
1	Specific gravity determination by voluminometer / pycnometer / density bottle	Pycnometer/ density bottle , Balance with weights
2	Sieve analysis, particle size determination and I. S. classification	Set of sieves, Balance with weights
3	Determination of consistency limits and its use in soil classification	Glass plate, liquid limit apparatus with grooving tools Water, , Balance with weights, oven, mercury, shrinkage dish, glass plate with three prongs, spatula, evaporating dish
4	Field density test by core cutter	Core cutter, rammer ,balance weights, oven ,spatula
5	Field density test by sand replacement	sand replacement cylinder, calibrating container, tray with central hole balance weights, oven & spatula
6	Field density test by clod method	Wax, balance, weights & heater
7	Determination of co-efficient of permeability by constant head and by variable head method.	Permeameter, measuring cylinder, stop watch, scale
8	Direct shear test	Direct shear apparatus, proving rings, dial gauges and weights
9	Unconfined compression test.	Loading frame, sample extractor, dial gauges proving ring, mould
10	Vane shear test.	Vane shear test. apparatus
11	Standard proctor test	Mould with collar , rammer, spatula , mixing tools sample extractor
12	California Bearing Ratio test.	Loading frame, proving ring, dial gauges. CBR mould
13	Swelling pressure test	Swell pressure test apparatus, proving ring, dial gauges
14	Differential free swell test	Measuring cylinder, kerosene
15	Triaxial test.	Triaxial test apparatus, mould, rubber membrane, porous stone, pore pressure measuring device
16	Hydrometer / pipette method.	Hydrometer, stirrer, dispersing solution

Sr No	Name of Experiment	Experimental Setup
1	Geodetic Surveying and Trigonometrically Leveling: (All Three)	
A) B) C)	1) Study and use of Optomechanical or Electronic Digital one second theodolite. 2) Measurement of horizontal and vertical angles with one second theodolite. 3) Finding out elevation of high object by Trigonometrically Leveling	1" Theodolite, and accessories 1" Theodolite, and accessories 1" Theodolite, and accessories
2	Hydrographic Survey: (Any Two)	
A)	Study and use of nautical sextant and measurement of angles.	nautical sextant, and accessories
B)	Solution of three point problem by Analytical and any one graphical method.	nautical sextant, and accessories

Sr No	Name of Experiment	Experimental Setup
3	Photogrammetry: (Any Two)	
A)	Study of Aerial photograph and finding out the scale of the photograph	(Not conducted)
B)	Study and use of Mirror Stereoscope and finding out Air Base Distance.	Mirror Stereoscope and accessories
C)	Study of parallax bar and finding out the difference of elevation from differential parallax.	Mirror Stereoscope, Parallax Bar and accessories
4	Modern Surveying Instrument And Techniques: (Any Two)	
A)	Study and use of EDM/ EDT/ ETS.	EDM and accessories
B)	Study and use of GPS to establish control on small area.	GPS
C)	Study and use of Laser Level/ Pipeline Laser.	(Not conducted)
D)	Interpretation of data using GIS software.	(Not conducted)
5	Project Work:: (Any One)	
A)	Adjustment of Geodetic Quadrilateral without central station by approximate method and by method of correlates. (It is desirable to solve the above problem by using computer).	Computer
B)	Survey of a small property with ETS and preparation of plan using any post processing software.	(Not conducted)

CLASS: TE CIVIL SUBJECT: ENVIRONMENTAL ENGINEERING

SR NO	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
1	pH and Alkalinity	Titration
2	Hardness	Titration
3	Chlorides	Titration
4	Chlorine demand and residual chlorine	Titration
5	Suspended particulate matter, SO _x , NO _x from air	Respirable Dust Sampler
6	Determination of Noise levels	Sound Level Meter
7	Turbidity and optimum dose of alum	Nephelo-Turbidimeter
8	MPN	Sterilizer(Oven)
9	Sulphates or Fluorides or Iron	Titration

CLASS: BE CIVIL SUBJECT: ENVIRONMENTAL ENGINEERING -II

SR NO	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
1	Dissolved oxygen	Titration
2	Solids – Total solids, suspended solids, volatile solids, settleable solids and non-settleable solids	Oven, Muffle Furnace , Weigh Balance
3	B.O.D	B.O.D Incubator
4	C.O.D.	Titration, Heating Pads
5	Conductivity	Conductivity Meter
6	S.V.I.	Oven, Weigh Balance
7	Determination of phosphates by spectrophotometer	spectrophotometer
8	Determination of Nitrites by spectrophotometer	Spectrophotometer

CLASS: BE CIVIL**SUBJECT: TRANSPORTATION ENGINEERING-II**

SR NO	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
A	Aggregate Testing	
1	Aggregate Impact	Impact Test Apparatus
2	Aggregate Crushing Strength	Compression Testing Machine, Crushing Mould
3	Abrasion Testing	Los Angeles Abrasion Testing Machine
4	Flakiness Index , Elongation Index	Flakiness Gauge , Elongation Gauge
5	Specific Gravity & Water Absorption	Wire Basket, Balance & Oven
6	Stripping Value	Stripping Value Apparatus, Oven & Beaker
7	Soundness Test	Soundness Test Apparatus
B	Bitumen test:	
1	Penetration	Penetrometer, Water Bath
2	Ductility	Briquette Mould
3	Softening Point	Ring & Ball Apparatus
4	Flash & Fire Point	Pensky Martens
5	Marshall Stability Test	Marshall Stability Apparatus
6	Specific Gravity	Specific Gravity Bottle & Bitumen
7	Bitumen Extraction test:	Bitumen Extractor

ELECTRONICS & TELECOMMUNICATION DEPARTMENT
Class-wise Experimental set up

Subject : ELECTRONIC HARDWARE WORKSHOP class : S.E.(E&Tc.)

Sr.No.	Title of Experiment	Expt. Set up (Eqp.Required)
1)	To study analog & Digital Multimeter	Analog & Digital Multimeter
2)	To study AC & DC power supply	AC & DC power supply
3)	→a) Study of CRO →b) Study of signal generator	CRO, signal generator
4)	Study of passive component	Resister, capacitor, inductor
5)	Study of Hardware component	Switch , Wires & cables, Relay, Connectors, fuse
6)	Study of Active component	Transistor ,FET
7)	Study of PCB design	Project
8)	Datasheet & mini project	Datasheet

Class: S.E.

Subject: Control System

Sr. No	Name of the Experiment	Experiment setup
1	To study phasor plot of synchrosystem.	Synchrosystem kit
2	To Study the lead network.	CDS component, wires & CRO.
3	To Study the lag network.	CDS component, wires & CRO.
4	To study the transient response of second order system.	CDS component, wires & CRO.
5	To Study LVDT for displacement measurement.	LVDT Kit
6	Flow control using PID action.	PID Kit.
7	Study of Pressure transducer.	Theoretical experiment.
8	To study unit step & Ramp response of Transfer Function using METLAB.	METLAB S/w.
9	To draw the root locus & Bode plot using METLAB.	METLAB S/w.
10	Verification of Ladder diagram using PLC	PLC kit.

Class: S.E.

Subject: Digital System

Sr. No	Name of the Experiment	Experiment setup
1	To study of BCD to Gray and Gray to BCD code Conversion.	CDS Board, Ic's, Wires
2	Design and Implementation of 02 Bit Comparator and Functional Verification of 04 Bit comparator Ic 7485	CDS Board, Ic's, Wires
3	→a) To Study and design Circuit Using MUX. →b) b) To Study and design Circuit Using MUX	CDS Board, Ic's, Wires
4	→a) To study 03 bit Bi-directional Shift Register using D-F/F. →b)	. CDS Board, Ic's, Wires
5	To Study LVDT for displacement measurement.	LVDT Kit
6	Flow control using PID action.	PID Kit.
7	Study of Pressure transducer.	Theoretical experiment.
8	To study unit step & Ramp response of Transfer Function using METLAB.	METLAB S/w.
9	To draw the root locus & Bode plot using METLAB.	METLAB S/w.
10	Verification of Ladder diagram using PLC	PLC kit.

Dept. Of Electronics & Telecommunication

Class wise Experimental Setup

Subject : Electronics Lab-I (AIC)

Class : T.E. (E & TC)

Sr.No.	Title of Experiment	Experimental Setup
1	Study of Non-ideal parameters of Op-amp-(Input offset voltage, Input offset current, Input bias current, CMRR, Frequency response) using IC μA 741 C	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors,CRO.
2 a)	Study of applications of Op-amp as Differentiator	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors,CRO.
2 b)	Study of applications of Op-amp as Integrator	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors, CRO.
2 c)	Study of applications of Op-amp as Instrumentation amplifier.	CDS Board -1 IC μ A 741C -3, CRO.
3	Study of Op-amp as Schmitt trigger and find its V_{ut} , V_{lt} , V_{hy} .	CDS Board -1 IC μ A 741C -1 Function Generator-1, Resistors. CRO.
4	Study of Op-amp as Precision Rectifiers.	CDS Board -1 IC μ A 741C -1 Function Generator-1 Diodes, Resistors, CRO.
5	Study of Square wave generators (Asymmetric & Symmetric)	CDS Board -1 IC μ A 741C -1 Function Generator-1 Diodes, Resistors, Capacitors,CRO.
6	STUDY OF NON-IDEAL PARAMETERS OF OP-AMP - INPUT OFFSET VOLTAGE, INPUT OFFSET CURRENT, INPUT BIAS CURRENT, CMRR, FREQUENCY RESPONSE, USING IC OP- 07	CDS Board -1 IC OP – 07 -1 Function Generator-1 Resistors, Capacitors, CRO.
7	Study of IC 565 as PLL & find its capture & lock range.	CDS Board -1 IC 565 -1 Resistors, Capacitors,CRO.
8	Simulation of Low pass & high pass filters.	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors, CRO.

CLASS: T.E (E & TC) SUB: DIGITAL COMMUNICATION

Sr No.	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
1	Verification of Sampling Theorem,Pam Techniques(Flat Top & Natural Sampling),Effect Of Variable Sample Rate, Filter Cutoff, Reconstruction of original signal using interpolation filter. aliasing effect in frequency domain	EXPERIMENTAL KIT,CRO,CRO PROBE,CONNECTING WIRES, SPECTRUM ANALYSER
2	Companded PCM(using A-law).plot quantization curve, calculation of bit rate, quantization noise measurement and SNR measurement	EXPERIMENTAL KIT CRO,CRO PROBE,CONNECTING WIRES,NOISE GENERATOR KIT
3	Study of DM and ADM techniques, observation of effect of slope overload, granular noise and SNR measurement	EXPERIMENTAL KIT CRO, CRO PROBE, CONNECTING WIRES, NOISE GENERATOR KIT

Sr No.	NAME OF EXPERIMENT	EXPERIMENTAL SETUP
4	Generation and reception of QPSK in presence of noise	EXPERIMENTAL KIT, CRO, CRO PROBE, CONNECTING WIRES, NOISE GENERATOR KIT
5	Generation and reception of FSK in presence of noise	EXPERIMENTAL KIT, CRO,CONNECTING WIRES, NOISE GENERATOR KIT
6	Study of line codes (NRZ,RZ,POLAR RZ,BIPOLAR(AMI),MANCHESTER) and their spectral analysis	CDS,CONNECTING WIRES, D-FLIP-FLOP IC 7474,CMOS IC 4081,4069,4071.
7	Detection of digital base band signal using Matched filter in presence of noise	EXPERIMENTAL KIT, CRO,CONNECTING WIRES, NOISE GENERATOR KIT
8	Generation of 6-bit PN sequence & study of spectrum	CDS,CONNECTING WIRES, D-FLIP-FLOP IC 7474,7486,LED
9	Generation and detection of DS-SS coherent BPSK and spectral analysis	EXPERIMENTAL KIT, CRO, CRO PROBE CONNECTING WIRES, SPECTRUM ANALYSER

Experimental Setup

SUBJECT: Electronics Lab –I (MMCA)

CLASS: T.E. (E & TC)

Sr.No.	Title of Experiment	Experimental Setup
1	Add, subtract, multiply & divide using internal memory & external memory	Front end tool
2	Designing a mathematical calculator using simulator software	Front end tool
3	Study the timing diagram of typical target board using DSO/Logic analyzer	DSO/Logic analyzer, 89c51RD2 Development board
4	Writing the program to flash LED's	Front end & back end tool, 89c51RD2 Development board
5	Interfacing keypad & LCD display & program to detect the key & display on LCD.	Front end & back end tool, 89c51RD2 Development board, keypad, LCD display
6	Interfacing 8 bit & 12-bit ADC. Find out average value over 10 reading	Front end & back end tool, 89c51RD2 Development board, ADC card
7	Interfacing the DAC for generating the various waveform	Front end & back end tool, 89c51RD2 Development board, DAC card
8	DEBUGGER USING SIMULATOR & EMULATOR	ICE card
9	SERIAL COMMUNICATION TO PC	Front end & back end tool, 89c51RD2 Development board
10	Interfacing to stepper motor.	Front end & back end tool, 89c51RD2 Development board

Class wise Experimental Setup

Subject : Electronics Lab–I (AIC)

Class : T.E. (E & TC)

Sr.No.	Title of Experiment	Experimental Setup
1	Study of Non-ideal parameters of Op-amp-(Input offset voltage, Input offset current, Input bias current, CMRR, Frequency response) using IC μA 741 C	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors,CRO.
2 a)	Study of applications of Op-amp as Differentiator	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors,CRO.
2 b)	Study of applications of Op-amp as Integrator	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors, CRO.
2 c)	Study of applications of Op-amp as Instrumentation amplifier.	CDS Board -1 IC μ A 741C -3, CRO.
3	Study of Op-amp as Schmitt trigger and find its V_{ut} , V_{lt} , V_{hy} .	CDS Board -1 IC μ A 741C -1 Function Generator-1, Resistors. CRO.
4	Study of Op-amp as Precision Rectifiers.	CDS Board -1 IC μ A 741C -1 Function Generator-1 Diodes, Resistors, CRO.
5	Study of Square wave generators (Asymmetric & Symmetric)	CDS Board -1 IC μ A 741C -1 Function Generator-1 Diodes, Resistors, Capacitors,CRO.
6	study of non-ideal parameters of op-amp -input offset voltage, input offset current, input bias current, cmrr, frequency response, using ic op- 07	CDS Board -1 IC OP – 07 -1 Function Generator-1 Resistors, Capacitors, CRO.
7	Study of IC 565 as PLL & find its capture & lock range.	CDS Board -1 IC 565 -1 Resistors, Capacitors,CRO.
8	Simulation of Low pass & high pass filters.	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors, CRO.

Class: T.E.

Subject: Mechatronics.

Sr. No	Name of the Experiment	Experiment setup
1	To study characteristics of Temperature transducer, Thermocouple & thermistor. Plot the characteristics of pressure transducer.	Strain gauge, Weights, strain measurement, trainer, multimeter.
2	Study of various pneumatic & electro-pneumatic components.	Pneumatic it, compressor, constant motor (single double acting cylinder, different valves)
3	Study of temperature controller using P, PI, PD & PID.	Control Panel, Heater, and fan.
4	Physical measurement: ⊕1) ___capacitive ⊕2) ___LVDT ⊕3) ___Vibration measurement.	LVDT Core, display device.
5	Study of PLC	PLC simulator, PC kit.
6	Simulation of bottle filling Plant	PLC LAN, SIM, PC.
7	Electro pneumatic trainer.	PLC Kit
8	Car parking simulation.	PLC simulator, PC kit.

SUBJECT: Electronics Lab-I (MMCA)

CLASS: T.E. (E & TC)

Sr.No.	Title of Experiment	Experimental Setup
1	Add, subtract, multiply & divide using internal memory & external memory	Front end tool
2	Designing a mathematical calculator using simulator software	Front end tool
3	Study the timing diagram of typical target board using DSO/Logic analyzer	DSO/Logic analyzer, 89c51RD2 Development board
4	Writing the program to flash LED's	Front end & back end tool, 89c51RD2 Development board
5	Interfacing keypad & LCD display & program to detect the key & display on LCD.	Front end & back end tool, 89c51RD2 Development board, keypad, LCD display
6	Interfacing 8 bit & 12-bit ADC. Find out average value over 10 reading	Front end & back end tool, 89c51RD2 Development board, ADC card
7	Interfacing the DAC for generating the various waveform	Front end & back end tool, 89c51RD2 Development board, DAC card
8	DEBUGGER USING SIMULATOR & EMULATOR	ICE card
9	SERIAL COMMUNICATION TO PC	Front end & back end tool, 89c51RD2 Development board
10	Interfacing to stepper motor.	Front end & back end tool, 89c51RD2 Development board

Subject : Electronics Lab-I (AIC)

Class : T.E. (E & TC)

Sr.No.	Title of Experiment	Experimental Setup
1	Study of Non-ideal parameters of Op-amp-(Input offset voltage, Input offset current, Input bias current, CMRR, Frequency response) using IC μA 741 C	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors,CRO.
2 a)	Study of applications of Op-amp as Differentiator	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors,CRO.
2 b)	Study of applications of Op-amp as Integrator	CDS Board -1 IC μ A 741C -1

Sr.No.	Title of Experiment	Experimental Setup
		Function Generator-1 Resistors, Capacitors, CRO.
2 c)	Study of applications of Op-amp as Instrumentation amplifier.	CDS Board -1 IC μ A 741C -3, CRO.
3	Study of Op-amp as Schmitt trigger and find its V_{ut} , V_{lt} , V_{hy} .	CDS Board -1 IC μ A 741C -1 Function Generator-1, Resistors. CRO.
4	Study of Op-amp as Precision Rectifiers.	CDS Board -1 IC μ A 741C -1 Function Generator-1 Diodes, Resistors, CRO.
5	Study of Square wave generators (Asymmetric & Symmetric)	CDS Board -1 IC μ A 741C -1 Function Generator-1 Diodes, Resistors, Capacitors,CRO.
6	Study Of Non-Ideal Parameters Of Op-Amp -Input Offset Voltage, Input Offset Current, Input Bias Current, Cmrr, Frequency Response, Using Ic Op-07	CDS Board -1 IC OP – 07 -1 Function Generator-1 Resistors, Capacitors, CRO.
7	Study of IC 565 as PLL & find its capture & lock range.	CDS Board -1 IC 565 -1 Resistors, Capacitors,CRO.
8	Simulation of Low pass & high pass filters.	CDS Board -1 IC μ A 741C -1 Function Generator-1 Resistors, Capacitors, CRO.

Subject : COMMUNICATION Lab-I (CN)

Class : B.E.(E&TC.)

Sr.No.	Title of Experiment	Experiment Set up (Equipments Required)
1)	Implementation of LAN using star topology & connectivity between two computers using cross over cable	PC's with Win2000,XP.Server Switch ,UTP CAT5 cable, RJ 45 connectors, crimper
2)	Installation & configuration of web server / proxy server	PC ,Win2000,Win XP CD Proxy Server S/W CD
3)	Installation & configuration of network Application like FTP/TELNET	PC ,FTP S/W,
4)	Connectivity of LAN computers to internet using Dial-up modem(Demo)	PC, Modem
5)	Shortest path algorithm	PC with C Language

Subject : COMMUNICATION Lab-I (E. P. D.)

class : B.E.(E&Tc.)

Sr.No.	Title of Experiment	Expt. Set up (Eqp.Required)
1)	Design,implementation &study of signal conditioning circuit for instrumentation amplifier circuit	Dual power supply, instrumentation amplifier circuit,C.D.S,C.R.O.
2)	Temprature cycling process using thermal oven	instrumentation amplifier circuit,Thermal oven,
3)	Study of Digital storage oscilloscope	D.S.O.,Function Generator,power supply
4)	Simulation of Two stage B.J.T. Amplifier circuit	P.C.,ORCAD P-SPICE s/w.

Subject : COMMUNICATION Lab-I

Class : B.E.(E&TC.)

Sr.No.	Title of Experiment	Experiment Set up (Equipments Required)
1)	Implementation of LAN using star topology & connectivity between two computers using cross over cable	PC's with Win2000,XP.Server Switch ,UTP CAT5 cable, RJ 45 connectors, crimper
2)	Installation & configuration of web server / proxy server	PC ,Win2000,Win XP CD Proxy Server S/W CD
3)	Installation & configuration of network Application like FTP/TELNET	PC ,FTP S/W,
4)	Connectivity of LAN computers to internet using Dial-up modem(Demo)	PC, Modem
5)	Shortest path algorithm	PC with C Language

Subject : Electronic Product Design

class : B.E.(E&Tc.)

Sr.No.	Title of Experiment	Expt. Set up (Eqp.Required)
1)	Design,implementation &study of signal conditioning circuit for instrumentation amplifier circuit	Dual power supply, instrumentation amplifier circuit,C.D.S,C.R.O.
2)	Temperature cycling process using thermal oven	instrumentation amplifier circuit,Thermal oven,
3)	Study of Digital storage oscilloscope	D.S.O.,Function Generator,power supply
4)	Simulation of Two stage B.J.T. Amplifier circuit	P.C.,ORCAD P-SPICE s/w.

Subject : Electronic Product Design

class : B.E.(E&Tc.)

Sr.No.	Title of Experiment	Expt. Set up (Eqp.Required)
1)	Design,implementation &study of signal conditioning circuit for instrumentation amplifier circuit	Dual power supply, instrumentation amplifier circuit,C.D.S,C.R.O.
2)	Temperature cycling process using thermal oven	instrumentation amplifier circuit,Thermal oven,
3)	Study of Digital storage oscilloscope	D.S.O.,Function Generator,power supply
4)	Simulation of Two stage B.J.T. Amplifier circuit	P.C.,ORCAD P-SPICE s/w.

Subject : EMBEDDED SYSTEM DESIGN

class : B.E.(E&Tc.)

Sr.No.	Title of Experiment	Expt. Set up (Eqp.Required)
1)	Study of Interfacing 4*4 matrix keyboard &16*2 character LCDdisplay.	

SUBJECT : VOICE NETWORK**CLASS : B.E.(E&TC.)**

Sr.No.	Title of Experiment	Expt. Set up (Eqp.Required)
1)	Simulation of any PSTN switch configuration T/S/T switch	PSTN kit,CRO,
2)	Study of GSM trainer	GSM trainer kit,PC,SIM Card
3)	Study of CDMA trainer	CDMA trainer kit
4)	Study of mobile set trainer	Trainer kit,pc

CLASS: B.E.(E&TC)**SUBJECT: VLSI**

Sr.No.	Title of Experiment	Experimental setup
1	8:1 MUX, 2:4Decoder, Comparator and Adder	Front end & Back end Tool, CPLD/FPGA Trainer kit
2	Flip Flop, Shift Register and counter	Front end & Back end Tool, CPLD/FPGA Trainer kit
3	Lift controller/Traffic controller	Front end & Back end Tool, CPLD/FPGA Trainer kit
4	Bi-directional Buffer	Front end & Back end Tool, CPLD/FPGA Trainer kit
5	Ramp waveform generation using DAC	Front end & Back end Tool, CPLD/FPGA Trainer kit
6	CMOS Inverter	Front end & Back end Tool, Micro wind layout software
7	CMOS NAND Gate	Front end & Back end Tool, Micro wind layout software
8	Any combinational logic for min.3 variables	Front end & Back end Tool, CPLD/FPGA Trainer kit

SUBJECT : VOICE NETWORK**CLASS : B.E.(E&TC.)**

Sr.No.	Title of Experiment	Expt. Set up (Eqp.Required)
1)	Simulation of any PSTN switch configuration T/S/T switch	PSTN kit,CRO,
2)	Study of GSM trainer	GSM trainer kit,PC,SIM Card
3)	Study of CDMA trainer	CDMA trainer kit
4)	Study of mobile set trainer	Trainer kit,pc

LIST OF EXPERIMENTS-SEM-II**CLASS: F.E. MECHANICAL****SUBJECT: BASIC MECHANICAL ENGINEERING**

Sr.no.	Name of the experiments	Experimental setup
1	Study of water tube and fire tube boilers.	models
2	Study of internal combustion engines.	models
3	Study of household refrigerator and window air conditioner.	models
4	Study of shell and tube heat exchanger.	models
5	Study of solar water heating system	models
6	Study of center lathe.	models
7	Study of drilling machine.	models
8	Study of nc and cnc machines.	models
9	Study of power transmitting elements.	models
10	Study of material handling equipment.	models

SUBJECT-APPLIED THERMODYNAMICS**LIST OF EXPERIMENTS-SEM-I**

CLASS: SE

SUBJECT: APPLIED THERMODYNAMICS

Sr.no.	Name of the experiments	Experimental setup
1	Trial on reciprocating air compressor.	Two stage reciprocating compressor test rig (shared with diploma)
2	Demonstration and study of boiler mountings and accessories.	Models
3	Study/trial on boiler to determine boiler efficiency, equivalent evaporation and energy balance sheet.	Visit
4	Report on visit to any process industry which uses boiler.	Visit
5	Study of package boiler.	Visit

SUBJECT NAME- FLUID MECHANICS**LIST OF EXPERIMENTS -SEM-I**

Sr.no.	Name of the experiments	Instrument required
1	To find viscosity of liquid and its variation with temperature.	REDWOOD Viscometer
2	Measurement of pressure.	Manometer
3	Stability of floating body and optimum loading capacity.	Floating body apparatus
4	Drawing flow net for given boundary conditions by electrical analogy method.	Flow-net apparatus
5	Verification of modified bernoullis equation.	Bernoulli's apparatus
6	Calibration of venturimeter.	Venturimeter
7	Laminar and turbulent flows by reynold's apparatus.	Reynold's apparatus
8	Calibration of v-notch.	V-notch apparatus

LIST OF EXPERIMENTS-SEM-II

CLASS: SE

SUBJECT: I.C.ENGINES &AUTO ENGG.

Sr.no.	Name of the experiments	Experimental setup
1	Trial on multi-cylinder petrol engine – morse test.	Multi cylinder petrol engine test rig with maruti 3 cylinder engine & eddy current dynamometer
2	Trial on diesel engine to determine energy balance and variable load performance.	Multi cylinder diesel engine test rig
3	Study of fuel pump and injector variable speed trial on petrol/diesel engine	Multi cylinder petrol engine test rig with maruti 3 cylinder engine & eddy current dynamometer
4	Study of carburetor.	Carburetors S.u. carburetor Solex carburetor
5	Study of fuel pump and injector	Fuel pumps

CLASS: S.E. MECHANICAL SUBJECT: FLUID MECHANICS

Sr.No.	Name Of The Experiments	Experimental Setup
1	To find viscosity of liquid and its variation with temperature.	REDWOOD Viscometer
2	Measurement of pressure.	Manometer
3	Stability of floating body and optimum loading capacity.	Floating body apparatus
4	Drawing flow net for given boundary conditions by electrical analogy method.	Flow-net apparatus
5	Verification of modified bernoullis equation.	Bernoulli's apparatus
6	Calibration of venturimeter.	Venturimeter
7	laminar and turbulent flows by reynold's appratus.	Reynold's apparatus
8	calibration of v-notch.	V-notch apparatus

LIST OF EXPERIMENTS-SEM-II

CLASS: S.E. MECHANICAL SUBJECT: THEORY OF M/C'S&MECHANISMS-I

Sr.no.	Name of the experiments	Experimental setup
1	An experiment for finding radius of gyration of a connecting rod using theory of compound pendulum.	Compound pendulum Apparatus
2	An experiment for finding radius of gyration of a flat bar using theory of bi-filler suspension.	Bi-filler suspension apparatus
3	An experiment for finding radius of gyration of a model flywheel using theory of tri-filler suspension.	Tri-filler suspension apparatus
4	One sheet showing (any four) typical mechanisms of which one is to be a straight line mechanism.	Drawing board
5	One drawing sheet on locating instantaneous centers and finding velocity by polygon method.	Drawing board
6	One drawing sheet on finding acceleration by polygon method	Drawing board
7	One sheet on inertia force analysis of a connecting rod in an i.c. Engine.	Drawing board

CLASS: TE

SUBJECT: FLUID MACHINERY.

Sr.no.	Name of the experiments	Experimental setup
1	trial on a pelton wheel & plotting of operating characteristics	Pelton turbine (shared with diploma)
2	Study & trial on a francis turbine & plotting of main/ operating characteristics	Francis turbine (shared with diploma)
3	Study & trial on a kaplan turbine & plotting of main/ operating characteristics	Kaplan turbine
4	Study & trial on a centrifugal pump & plotting of operating & variable speed characteristics.	Centrifugal pump test rig

CLASS: T.E. MECHANICAL**SUBJECT: HEAT TRANSFER**

Sr.no.	Name of the experiments	Experimental setup
1	Determination of thermal conductivity of insulating powder.	Thermal conductivity of insulating powder
2	Determination of thermal conductivity of metal rod.	Metal rod apparatus
3	Temperature distribution on a fin surface.	Pin fin apparatus with blower
4	Calibration of a thermocouple.	Thermo couple calibration test rig
5	Determination of film heat transfer coefficient on a hollow vertical tube heated from inside.	Natural convection apparatus
6	Determination of emissivity of a metal surface.	Emmissivity measurement apparatus
7	Determination of stefan-boltzmann constant.	Stefan boltzman apparatus
8	Determination of critical heat flux.	Critical heat flux apparatus
9	Performance of a parallel flow and counter flow heat exchanger.	Parallel flow – counter flow heat exchanger
10	Determination of thermal conductivity of different materials in composite wall.	Composite wall apparatus

LIST OF EXPERIMENTS-SEM-II**CLASS: T.E. MECHANICAL****SUBJECT: REFRIGERATION &A/C**

Sr.no.	Name of the experiments	Experimental setup
1	Test on vapour compression test rig.	Refrigeration tutor
2	Test on air conditioning test rig.	Re circulating type air conditioning trainer
3	Test on ice plant test rig.	Mini ice plant
4	Test on vapour absorption test rig.	Vapour absorption trainer (with electrolux refrigerator)

CLASS: B.E. MECHANICAL**SUBJECT:INDUSTRIAL FLUID POWER**

Sr.no	Name of the experiments	Experimental setup
1	Study of gear pump and determination of performance characteristics	Gear pump test rig
2	Study of pressure control valves and circuits using pressure control valves	Hydraulic trainer
3	Study of flow control valves and circuits using flow control valves	Hydraulic trainer
4	Study of direction control valves and pilot operated check valves and circuits	Hydraulic trainer
5	Study of accumulators and charging procedure for accumulators	Hydraulic accumulators
6	Study of hydraulic power units and accessories	Hydraulic accumulators,press , intensifier
7	Study of direction control valves used in pneumatics and circuits using manual and pilot operated valves.	Pneumatics trainer
8	Study of electro-pneumatic valves and circuits. Study of simple hydraulic system	Electro-pneumatic trainer
9	Testing of relief valve/flow control valve/direction control valve/hydraulic motor Testing of double acting hydraulic	Hydraulic trainer

Sr.no	Name of the experiments	Experimental setup
1	Determination of linear /angular dimensions of a part using precision and non-precision measuring instruments	Micrometers, calipers,height gauge ,steel rule, slip gauge box,sine bar,v-block ,surface plate setup,angle gauges
2	Precision angular measurement using a) sine bar B) auto-collimator C) angle –decker	sine bar , auto-collimator , angle –decker appratus
3	Machine tool alignment test on any machine tool like lathe, drilling machine or milling machine.	Precision spirit level (japan) 150 mm. 0.02mm Dial calibration tester with set of accessories
4	Measurement of screw parameter using floating carriage micrometer.	Floating carriage diameter measuring m/c
5	Measurement of gear parameter Gear tooth thickness and depth constant cord span measurement d) pitch circle diameter.	Gear tooth vernier caliper 1 to 6 (china)
6	Surface finish measurement	Monochromatic light source with optical flat,comparator
7	Interferometer-measurement of surface flatness using optical flat	Monochromatic light source with optical flat
8	Syudy and measurement of parameter using profile projector	Profile projector appratus
9	Exercise on design of limit gauges using taylor's principle	Steel slip gauge set
10	Study and measurement of parameter using tool maker's microscope	tool maker's microscope

Sr.no.	Name of the experiments	Experimental setup
1	Study of belt drive systems and measurement of slip.	V & flat belt test rig
2	Study of various types of cam and follower systems and verification of cam jump phenomenon.	Cam analysis machine
3	To determine the characteristics curve for centrifugal governor and to find its coefficient of insensitiveness and stability.	Universal governor apparatus
4	To generate involute gear tooth profile and to study the effect of undercutting and rackshift using models.	Gear tooth profile generator with rack & pinion cutter
5	To study epicyclic gear trains and to measure torques- torque transmitted and holding torques.	Epicyclic gear train & holding torque device

SEMESTER: I
T.E. MECHANICAL SUBJECT-WORKSHOP PRACTICE-IV

Sr. No.	Name of the experiment	Experimental set up
1	One composite job consisting of machining of components covering operations on	lathe, drilling, milling machines and essentially consists of thread assembly.
2	Demonstration/job on cnc machine which should consists of step turning and taper turning operations/	Cnc machine
3	One job on milling machine consisting of gear cutting operations.	Milling machine

CLASS: B.E. MECHANICAL SUBJECT:CAD-CAM & AUTOMATION

Sr.no	Name of the assignments	List of softwares And machine
1	Assembly of solid model of any one mechanical system (containing 2 to 3 elements) like coupling, knuckle joint, cotter joint, etc... using software package. & calculation of mass property.	Inventor 9 bundle pack 10 copies Pentium- iv- 2.8 ghz, 512 mb ram 80 gb hdd, 17" colour monitor
2	Stress and deflection analysis of two dimensional truss using finite element package.	Ansys 10 COPIES Pentium- iv- 2.8 ghz, 512 mb ram 80 gb hdd, 17" colour monitor
3	Stress and deflection analysis of any mechanical component consisting of 2-d or 3-d elements using finite element package.	Ansys 10 5 copies Pentium- iv- 2.8 ghz, 512 mb ram 80 gb hdd, 17" colour monitor
4	Programming and manufacturing of one job on cnc lathe or cnc milling machine	Cnc trainer t100
5	Part programming of one job using cam software.	Master cam Pentium- iv- 2.8 ghz, 512 mb ram 80 gb hdd, 17" colour monitor
6	Demonstration on any one industrial robot or industrial visit to automation plant .	Visit to piaggio vehicles Pvt ltd , baramati

CLASS: B.E. MECHANICAL SUBJECT:DYNAMICS OF MACHINERY

Sr.no.	Name of the experiments	Experimental setup
1	Study of gear pump and determination of performance characteristics	Gear pump test rig
2	Study of pressure control valves and circuits using pressure control valves	Hydraulic trainer
3	Study of flow control valves and circuits using flow control valves	Hydraulic trainer
4	Study of direction control valves and pilot operated check valves and circuits	Hydraulic trainer
5	Study of accumulators and charging procedure for accumulators	Hydraulic accumulators
6	Study of hydraulic power units and accessories	Hydraulic accumulators,press , intensifier
7	Study of direction control valves used in pneumatics and circuits using manual and pilot operated valves.	Pneumatics trainer
8	Study of electro-pneumatic valves and circuits. Study of simple hydraulic system	Electro-pneumatic trainer
9	Testing of relief valve/flow control valve/direction control valve/hydraulic motor Testing of double acting hydraulic	Hydraulic trainer

LIST OF EXPERIMENTS-SEM-II

CLASS: B.E. MECHANICAL

SUBJECT:INDUSTRIAL FLUID POWER

Sr.no	Name of the experiments	Experimental setup
1	Study of gear pump and determination of performance characteristics	Gear pump test rig
2	Study of pressure control valves and circuits using pressure control valves	Hydraulic trainer
3	Study of flow control valves and circuits using flow control valves	Hydraulic trainer
4	Study of direction control valves and pilot operated check valves and circuits	Hydraulic trainer
5	Study of accumulators and charging procedure for accumulators	Hydraulic accumulators
6	Study of hydraulic power units and accessories	Hydraulic accumulators,press , intensifier
7	Study of direction control valves used in pneumatics and circuits using manual and pilot operated valves.	Pneumatics trainer
8	Study of electro-pneumatic valves and circuits. Study of simple hydraulic system	Electro-pneumatic trainer
9	Testing of relief valve/flow control valve/direction control valve/hydraulic motor Testing of double acting hydraulic	Hydraulic trainer

Department of Computer Engg.

Experiment List

Subject : - Computer Fundamental

Class- FE

Sem :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Study Of DOS commands	Computer, Software – OS, C++
2	Program for addition /subtraction of two numbers.	Computer, Software – OS, C++
3	Program for Multiplication /Division of two numbers.	Computer, Software – OS, C++
4	Program for recursive function.	Computer, Software – OS, C++
5	Program for Menu driven using Case and switch statement	Computer, Software – OS, C++
6	Program for calculating reverse number	Computer, Software – OS, C++
7	Program for Fibonacci series using recursion	Computer, Software – OS, C++
8	Program for Fibonacci series without recursion	Computer, Software – OS, C++
9	Program for linear search	Computer, Software – OS, C++
10	Program for sorting nos.	Computer, Software – OS, C++
11	Program for finding largest and smallest nos.	Computer, Software – OS, C++
12	Program for string operations using Library functions	Computer, Software – OS, C++
13	Program for Matrix addition	Computer, Software – OS, C++
14	Program for finding Factorial with recursion	Computer, Software – OS, C++
15	Program for finding Factorial without recursion	Computer, Software – OS, C++
16	Program for S.S.C. Mark list	Computer, Software – OS, C++

Experiment List

Subject: - Programming Lab

Class- SE Computer

Sem: - First

Sr. No.	Name of Experiment	Experimental Setup
1	Write a Program for Set Operation 1) Union 2) Intersection 3) Difference	Computer, Software – OS, C++
2	Write a Program for various matrix operation 1) Addition of Two Matrices 2) Multi. of Two Matrices 3) Saddle Point Exist or not 4) Symmetric or not	Computer, Software – OS, C++
3	Write a Program for various String operations Without using Library functions Length of String 2) Copying String 3) Reverse string 4) Palindrome String 5) Comparing Strings 6) Concatenation	Computer, Software – OS, C++
4	Write a Program for various matrix operation 1) Addition of Two Matrices 2) Multi. of Two	Computer, Software – OS, C++

Sr. No.	Name of Experiment	Experimental Setup
	Matrices 3) Simple Transpose 4) Fast Transpose	
5	Write a Program for Polynomial operation using Array 1) Addition of Two Polynomial 2) Multiplication of Two Polynomial	Computer, Software – OS, C++
6	Write a Program for Display Mark list of SSC Students using pointer, Roll No, Name, Subject Name, Marks, Total, Percentage, Result	Computer, Software – OS, C++
7	Implement the Stack as ADT using Array of Structure 1) PUSH 2) POP 3) Display 4) Count	Computer, Software – OS, C++
8	Implement the Stack using Pointers 1) PUSH 2) POP 3) Display 4) Count	Computer, Software – OS, C++
9	Write a Program for Convert INFIX Expression to POSTFIX Expression	Computer, Software – OS, C++
10	Write a Program for Evaluate PREFIX Expression and POSTFIX Expression	Computer, Software – OS, C++
11	Write a Program for Stack operations using Recursive Procedure 1) Factorial 2) Decimal to Binary 3) Decimal to Hex. 4) Decimal to Octal	Computer, Software – OS, C++
12	Implement the Queue using Pointers 1) Insert 2) Delete 3) Display 4) Count	Computer, Software – OS, C++
13	Implement the Circular Queue as ADT using Array of Structure 1) Insert 2) Delete 3) Display 5) Count	Computer, Software – OS, C++

Experiment List

Subject : - Object Oriented Programming & Computer Graphics Lab
Sem :- Second

Class- SE Computer

Sr. No.	Name of Experiment	Experimental Setup
1	Write C++ program for understanding basic OOP Concepts.	Computer, Software – OS, C++
2	Write a C++ program to create a database of personnel information system.	Computer, Software – OS, C++
3	Write a C++ Program making use of friend function, function overloading, default values, constructors etc	Computer, Software – OS, C++
4	Write a C++ program to perform String operations	Computer, Software – OS, C++
5	Implementation of multiple inheritance.	Computer, Software – OS, C++
6	Implement a C++ program to show use of Virtual Function.	Computer, Software – OS, C++
7	Write a C++ program to perform matrix operation using <u>Templates</u> .	Computer, Software – OS, C++
8	Write a program to implement algorithm for line and circle drawing	Computer, Software – OS, C++
9	Write a program to implement algorithm for filling a polygon using scan-fill method	Computer, Software – OS, C++
10	Write a program to implement 2-D transformations.	Computer, Software – OS, C++
11	Write a program to implement concept of segmentation	Computer, Software – OS, C++
12	Write a program to generate fractals	Computer, Software – OS, C++

Experiment List**Subject** : - Microprocessor Interfacing Laboratory**Class**- SE Computer**Sem** :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Write 8086 Assembly language program (ALP) to add array of N numbers stored in the memory.	Computer, Software – OS, TASM
2	Write 8086 ALP to perform non-overlapped and overlapped block transfer.	Computer, Software – OS, TASM
3	Write 8086 ALP to find and count negative numbers from the array of signed numbers stored in memory.	Computer, Software – OS, TASM
4	Write 8086 ALP to convert 4-digit Hex number into its equivalent BCD number and 5-digit BCD number into its equivalent HEX number. Make your program user friendly to accept the choice from user for: HEX to BCD, BCD to HEX, EXIT.	Computer, Software – OS, TASM
5	Write 8086 ALP for the following operations on the string entered by the user. Calculate Length of the string Reverse the string c. Check whether the string is palindrome or not Make	Computer, Software – OS, TASM
6	Write 8086 ALP to perform string manipulation. The strings to be accepted from the user is to be stored in code segment Module_1 and write FAR PROCEDURES in code segment Module_2 for following operations on the string: a. Concatenation of two strings b. Compare two strings c. Number of occurrences of a sub-string in the given string d. Find number of words, characters, number of lines and number of capital letters from the given text in the data segment	Computer, Software – OS, TASM
7	Write 8086 ALP to arrange the numbers stored in the array in ascending as well as descending order. Assume that the first location in the array holds the number of elements 'i' in the array and successive memory locations will have actual array elements. Write a separate subroutine to arrange the numbers in ascending and descending order. Accept a key from the user. If user enters 0 = arrange in ascending order. b. If user enters 1 = arrange in descending order.	Computer, Software – OS, TASM
8	Write 8086 ALP to perform multiplication of two 8-bit numbers. Use successive addition and add and shift method.	Computer, Software – OS, TASM
9	Write your own Interrupt Service Routine to display your name for 2 minutes. The main program will display the name of your college continuously.	Computer, Software – OS, TASM

Subject : - Data Structure Lab**Class**- SE Computer**Sem** :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Write a menu driven program to perform following operations on singly list; Create, Insert, Delete, Display, Reverse.	Computer, Software – OS, C++
2	Create two doubly link lists: Sort them after creation. Merge these two lists into one list so that the merged list is in sorted order. (No new node should be created)	Computer, Software – OS, C++
3	Represent polynomial as a circular linked list and write a menu driven program to perform addition, multiplication and evaluation.	Computer, Software – OS, C++
4	Implement circular queue and double ended queue	Computer,

Sr. No.	Name of Experiment	Experimental Setup
	using linked representation.	Software – OS, C++
5	Create binary tree and perform recursive traversals.	Computer, Software – OS, C++
6	Create binary tree and perform Non-recursive traversals.	Computer, Software – OS, C++
7	Create binary search tree. Find height of the tree and print leaf nodes. Find mirror image, print original and mirror image using level-wise printing.	Computer, Software – OS, C++
8	Create in-order threaded binary tree and perform traversals.	Computer, Software – OS, C++
9	Represent graph using adjacency list and perform DFS and BFS.	Computer, Software – OS, C++
10	Represent graph using adjacency list or matrix and generate minimum spanning tree using Prim's algorithm.	Computer, Software – OS, C++
11	Write a C++ program to create a text file, read it and compute frequency of vowels, count words, characters, lines and white space characters and write these results into another text file. <u>Use command line arguments.</u>	Computer, Software – OS, C++
12	Write a C++ program to implement a small database <u>mini project</u> to understand persistent objects and operations on <u>sequential files</u> . <u>Use exception handling or data verification.</u>	Computer, Software – OS, C++

Experiment List

Subject : - Rdbms And Visual Programming Laboratory
Sem :- First

Class- TE Computer

Sr. No.	Name of Experiment	Experimental Setup
1	Write a 'C' program to design and develop a mini database system	Computer, Software – OS, C++,VB
2	Design and draw an ER/EER diagram using standard notations for given problem definition and convert this diagram into Database Tables.	Computer, Software – OS, C++,VB
3	Design and develop forms and reports using MS ACCESS or ORACLE D2K.	Computer, Software – OS, C++,VB
4	Write and execute Embedded SQL queries using C/C++ as host language	Computer, Software – OS, C++,VB
5	Write and execute Dynamic SQL query.	Computer, Software – OS, C++,VB
6	Write and execute Triggers and Procedures/ Functions using PL/ SQL.	Computer, Software – OS, C++,VB
7	Create and perform Database operations using ODBC	Computer, Software – OS, C++,VB
8	At least two assignments on COBOL to cover the concepts of file handling and Table handling.	Computer, Software – OS, C++,VB
9	Write and execute 6-7 assignments in VB to illustrate the use of various features of Visual Basic such as User Interface Design, VB Programming, Events, Database Programming Using: VB Data Control, ADO, DAO and OLEDB, Overall program development life cycle (Form design, Control and events,	Computer, Software – OS, C++,VB
10	Mini Project	Computer, Software – OS, C++,VB

Experiment List

Subject : - Signal Processing Laboratory

Class- TE Computer

Sem :- First

Sr. No.	Name of Experiment	Experimental Setup
1	Write a C program to generate samples of sine, square, exponential and random signals at specified sampling frequency and signal parameters.	Computer, Software – OS, C++,
2	Find the output of a given system for given input sequence using linear convolution.	Computer, Software – OS, C++,
3	Find the output of a system described by given difference equation and initial conditions for given input sequence.	Computer, Software – OS, C++,
4	Write a program to accept pole zero locations to generate a. Pole zero plot b. All possible ROCs	Computer, Software – OS, C++,
5	Write a C program to plot the magnitude and phase response of a given system. Also find the magnitude and phase at a particular frequency.	Computer, Software – OS, C++,
6	Find the N point DFT / IDFT of the given complex sequence $x(n) / x(k)$	Computer, Software – OS, C++,
7	Find the N point circular convolution or linear convolution using circular convolution of given two sequences.	Computer, Software – OS, C++,
8	Compute the linear / circular convolution of given two sequences using DFT and IDFT.	Computer, Software – OS, C++,
9	Implement the N-point radix-2 DIT FFT algorithm to find DFT or IDFT of given sequence $x(n)$ or $X(k)$.	Computer, Software – OS, C++,
10	Find DFT of a given sequence using Goertzel algorithm.	Computer, Software – OS, C++,
11	Find the Fourier transform of various window functions. Plot the magnitude and phase functions.	Computer, Software – OS, C++,
12	Design a DT IIR Butterworth filter for given specifications using Bilinear Transformation.	Computer, Software – OS, C++,
13	Design an FIR filter from given specifications using windowing method.	Computer, Software – OS, C++,

Experiment List

Subject : - Hardware Lab

Class- TE Computer

Sem :- First

Sr. No.	Name of Experiment	Experimental Setup
1	Write Assembly Language Program (ALP) s a) Create file b) Read file c) write file	Computer, Software – OS, TASM
2	Write Assembly Language Program (ALP) s a) Modify a file b) Delete a file + rename a file	Computer, Software – OS, TASM
3	Write an ALP to carry out complex arithmetic operations using coprocessor.	Computer, Software – OS, TASM
4	Write inline code (Interfacing 'C' with assembly language) for the following a) Boot sector display for 1.44MB Floppy disk b). Display file contents using Root directory and FAT.	Computer, Software – OS, TASM
5	Write an Installable DOS Device Driver for a printer.	Computer, Software – OS, TASM
6	Study of Windows Device Drivers.	Computer, Software – OS, TASM
7	a) Study and troubleshooting of Mother board, memory, video, adaptors, Keyboard, FDD, HDD, serial, parallel ports etc. b) Study of	Computer, Software – OS, TASM

Sr. No.	Name of Experiment	Experimental Setup
	PC diagnostic tools	
8	Study of PC Assembly, setup and Installation:	Computer, Software – OS, TASM
9	Study of PC-to-PC communication using NULL MODEM connection (using 'C' language only).	Computer, RS232 cord Software – OS, C++
10	Write an ALP to understand working of a Mouse. X & y position b) free hand drawing	Computer, Software – OS, TASM
11	Write Assembly Language Program (ALP) s a) Create DIR b) change DIR c) remove DIR	Computer, Software – OS, TASM
12	Write Assembly Language Program (ALP) s for finding next matching files	Computer, Software – OS, TASM
13	Write Assembly Language Program (ALP) s for copy command simulation	Computer, Software – OS, TASM
14	8051 simulator program for calculator using internal data i/p and external data i/p	Computer, Software – OS, 8051 simulator
15	8051 simulator program for to find factorial of number b) program for calculator for using data for file & memory.	Computer, Software – OS, 8051 simulator

Experiment List

Subject : - Computer Network Laboratory

Class- TE Computer

Sem :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Study of existing LAN and understand the design and various components	Computer,Hub,Switch, Cables,Router,OS
2	Assignment to examine TCP/IP and non-TCP/IP protocols (IPX/SPX) and capture them using protocol analyzer Software	Computer,,OS, C++
3	Assignment to learn and understand Windows 2003 server and its associated domain operations, to configure RAS and DHCP, to add users and computers to a domain	Computer,,OS, Win2003 server
4	Assignment to learn and understand Linux and/or Novel Netware Network configurations and commands	Computer,,OS, Linux, Novel Netware
5	Installation and configuration of US /PWS/Apache server. Study and use various facilities/commands and features	Computer,, Linux server
6	Write a program in C/C++ to implement an ECHO server, using Socket programming with both TCP and UDP protocols	Computer,,OS, C++
7	Implement a "Quote of the Day" Server using VB and WinSock Control. Also develop a client application where the user will select TCP or UDP Option, Provide the name of the Server and the Port Number.	Computer,,OS, VB
8	Write an "Internet Update" program using Internet Transfer Control provided in Visual Basic that will update the files on a local machine for which newer versions of these files are available on the server. Provide facility for the user to determine which files to be updated and which are not.	Computer,,OS, VB
9	Develop a simple application to using MAPI and TAPI	Computer,,OS, VB
10	Design a HTML page for taking sales order of various items of some company. The page should display Company name with its logo. The buyer will provide his/her name, e&i^and desired quantity against each item shown along with.unit <i>pries</i> in a table and select desired payment mode by selecting appropriate option button labeled "Visa", "Master Card" etc.	Computer,,OS, VB,XML
11	Write a PHP Script that computes total cost of the ordered items from assignment 10, after adding sales tax. The script will show exactly what items have been ordered.	Computer,,OS, PHP,XML
12	Create a DTD for a catalog of cars, where each car has the child elements and two or three child elements have their own child elements, each of these elements are required and has the possible	Computer,,OS, PHP,XML,DHTML

Sr. No.	Name of Experiment	Experimental Setup
	values Yes or No. Create an XML document with instances of the car elements defined in the DTD and process this document using the DTD and produce a display of raw XML document. Create an XML schema and CSS style sheet for the above-mentioned XML document. Create an XSLT style sheet for one car element of the XML document and use it to create a display of that element.	
13	Write an application that should read a SQL query from the user based on some database in say MySQL, call a PHP script to process the query and display the results.	Computer,,OS, Oracle
14	Develop a simple Web based application. Use client-side and server-side scripting.	Computer,,OS, PHP,XML,DHTML

Experiment List

Subject : - Software Development Tools Laboratory

Class- TE Computer

Sem :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Create a simple "Hello World" application using windows SDK programming	Computer, Software – OS, C++,VB
2	Create a simple "Hello World" application using various GUI components.	Computer, Software – OS, C++,VB
3	Create a windows application (WinDir application / Drive tree application) using different GUI components and document view architecture.	Computer, Software – OS, C++,VB
4	Create a simple Paintbrush application using various GDI components.	Computer, Software – OS, C++,VB
5	Create a windows application (Word application/Notepad application) using different GUI components using MDI architecture.	Computer, Software – OS, C++,VB
6	Create a Help file for an Application using Help Workshop	Computer, Software – OS, C++,VB
7	Assignments related to Software Engineering using any professional or freeware/shareware tools like Borland . ALM Suite/Rational Suite/ Umbrello/Magic Draw/Gaphor/Poscidon etc	Computer, Software – OS, C++,VB
8	To develop an ActiveX DLL using Visual Basic	Computer, Software – OS, C++,VB
9	Create ActiveX Document DLL using Visual Basic and register it..	Computer, Software – OS, C++,VB
10	Create an Excel spreadsheet application with OLE automation using VB.	Computer, Software – OS, C++,VB
11	Implement an Alarm ActiveX control with its members like Start time, Count down, Stop time.	Computer, Software – OS, C++,VB
12	Free and Open Source Software (FOSS)	Computer, Software – OS, C++,VB

Experiment List

Subject : - Software Laboratory

Sem :- Second

Class- TE Computer

Sr. No.	Name of Experiment	Experimental Setup
1	Implementing object oriented features in Java such as classes, objects and methods Vectors, strings, Inheritance, access specifiers, Multiple Inheritance and Exception Handling	Computer Software – OS, JAVA, Editplus
2	Write a simple Applet to illustrate event handling with interactive radio buttons to control font style of a text field. Also provide a text box wherein the user may enter font size.	----“----
3	Implementing Multi-threading concept in JAVA(eg. Displaying an animated clock showing day, date and time using threads)	----“----
4	Write a program to retrieve data from some database table(s) using JDBC	----“----
5	Write a simple Echo server using Sockets	----“----
6	Study OF LISP functions	Computer Software – OS, LISP
7	Line editor using LISP	---“----
8	Design suitable data structures and develop a subset of an assembler for 8 or 16 bit microprocessor. Subset should consist of a few instructions from each category and few assembler directives	Computer Software – OS, C++
9	Design suitable data structures and develop a subset of a macro assembler for 8 or 16 bit microprocessor. Facilities such as Nested Macro, Labels within Macro,- Macro Parameters, Conditional Macro Expansion, Macro Operators (% , & ,<...> etc) to be supported. Use Turbo Librarian to build and use your library code modules	----“----
10	Write a program to demonstrate DOS Memory Management Mechanism	----“----
11	Write a Dynamic Link Library and Test it	----“----
12	Design and Implement any simple application using Word/Excel Macros.	----“----
14	Using Windows API, develop any simple application such as Getting and setting Windows Information, System Colors, Running a Program/File, Shutting down Windows	----“----
15	Write a program to demonstrate the creation and use of Custom Attributes and other feathers of C #	----“----
15	Write a program to demonstrate the use of delegates, callbacks, and synchronous and asynchronous method invocation.	----“----
17	Create a screen saver application using GDI+ in C#.	----“----
18	Write a program Using a File System Watcher Component in a Windows Form with C# Demonstrates how the File System Watcher Class monitors the file system and raises events whenever a specified Directory or file within a specified Directory changes.	----“----

Experiment List

Subject : - Computer Lab-I

Sem :- First

Class- BE Computer

Sr. No.	Name of Experiment	Experimental Setup
1	Laboratory Assignments in Compiler Construction Calculator implimentation using LEX and YACC	Computer, Software – Linux-9
2	Laboratory Assignments in Operating System , UNIX, LINUX	Computer, Software – Linux-9
3	Laboratory Assignments in Object Oriented Moduling and DesignClass Diagram, Usecase Diagram, State chart Diagram etc	Computer, Software – Rational Rose

Experiment List**Subject** : - Artificial Intelligence**Class**- BE Computer**Sem** :- First

Sr. No.	Name of Experiment	Experimental Setup
1	A* Algorithm Implementation.	Computer, Software – OS, Java, VB
2	AO* Algorithm Implementation.	Computer, Software – OS, Java, VB
3	Implementation of Unification Algorithm.	Computer, Software – OS, Java, VB
4	Development of Mini-Expert System using Prolog.	Computer, Software – OS, Java, VB
5	Implementation of TMS using Prolog.	Computer, Software – OS, Java, VB
6	Implementation of Min/Max Search procedure for Game Playing	Computer, Software – OS, Java, VB
7	Shell Programming and AWK programming	Computer, Software – OS, Java, VB
8	Process Control/Relationship/Daemon Process	Computer, Software – OS, Java, VB
9	Signals	Computer, Software – OS, Java, VB
10	I/P Stream and Driver Interfaces	Computer, Software – OS, Java, VB
11	Semaphores, Client Server properties	Computer, Software – OS, Java, VB
12	Multithreading	Computer, Software – OS, Java, VB
13	Study of h & c fields for studying Unix file system, file structure, network related issues inter-process communication etc.	Computer, Software – OS, Java, VB

Experiment List**Subject** : - Computer Lab-II**Class**- BE Computer**Sem** :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Study of Multimedia workstation and development kit	Computer, Software – OS, Java, VB
2	Create, Edit VOC file and convert it to WAV file format	Computer, Software – OS, Java, VB
3	Create, Edit WAV file and convert it to VOC file format	Computer, Software – OS, Java, VB
4	Run a video clip using windows active move control	Computer, Software – OS, Java, VB
5	Write a tool for 3-D bouncing ball.	Computer, Software – OS, Java, VB
6	Static and Dynamic HTML file for creating a web page.	Computer, Software – OS, Java, VB
7	Using VRML generate following vertule scene Coffee House, Bulding model, Fan, Train etc.	Computer, Software – OS, Java, VB
8	Parallel algorithms and concurrent programming.	Computer, Software – OS, Java, VB

Department of Information Tech..

Experiment List

Subject : - Programming Lab

Class- SE IT

Sem :- First

Sr. No.	Name of Experiment	Experimental Setup
1	Set operations using arrays - union,intersection ,Symmetric difference	Computer, Software – OS, C++
2	Matrix manipulations like addition,multiplication,saddle point etc.with &without pointers to arrays.	Computer, Software – OS, C++
3	String manipulations like substring,palindrome,compare etc. with & without pointers to arrays.	Computer, Software – OS, C++
4	Structure manipulation with & without pointers.	Computer, Software – OS, C++
5	Represent sparse matrix using array & perform matrix addition,simple & fast transpose.	Computer, Software – OS, C++
6	Create a database using singly linked list with options like create,insert,delete,modify,search ,print reverse,revert & display etc.	Computer, Software – OS, C++
7	WAP to accept binary numbers in doubly linked list & perform addition of them store the result in another list & revert result.	Computer, Software – OS, C++
8	Represent polynomial as a circular linked list & write a menu driven program to perform add,multi,evaluation.	Computer, Software – OS, C++
9	Create two singly or doubly linked list sort one after creation & one while creation using pointer manipulation . Merge these two lists into one list without creating a new node.	Computer, Software – OS, C++
10	Implement stack as an ADT using array or linked list .Use this ADT for expression conversion & evaluation infix to prefix & prefix evaluation.	Computer, Software – OS, C++
11	Represent circular Queue using array or linked list .Use this ADT for expression conversion & evaluation infix to prefix evaluation.	Computer, Software – OS, C++
12	Binary search method-with & without recursion.	Computer, Software – OS, C++
13	Sorting methods - Bubble, insertion,Bucket,Selection,Display results after every pass along with a no. of comparisons & exchanges for already sorted i/p & unsorted data.	Computer, Software – OS, C++
14	Use command line arguments to simulate the following DOS commands copy & type. etc..	Computer, Software – OS, C++
15	Frame a CPP assign. covering concepts of class , object,access mechanisms, constructor,destructor,inline function,basic i/o.	Computer, Software – OS, C++
16	Frame a CPP assign. to represent real world modelling simulation.	Computer, Software – OS, C++

Experiment List
Subject : - Digital Lab
Sem :- First

Class- SE IT

Sr. No.	Name of Experiment	Experimental Setup
1	TTL Characteristics (Study and Write Up only)	CDS, CRO, Transistor,
2	BCD Adder/Subtractor using 7483.	CDS, LED, IC-7483, 7408, 7432
3	Realization of Boolean expression using Multiplexers	CDS, LED, IC-74151, 7404
4	Realization of ROM using Demultiplexers	CDS, LED, IC-74154, 7410, 7404
5	Code Converter	CDS, LED, IC-7486, 7404, 7408, 7432, 7411
6	Parity Generator/Detector	CDS, LED, IC-7486, 7404,
7	Implementation of Combinational Logic using PAL	CDS, LED, IC-7404, 7408, 7432, 7486
8	Implementation of T, D flip flop using Master Salve JK Flip flop	CDS, LED, IC-7410, 7408
9	Ripple counter using Master Salve JK Flip flop	CDS, LED, IC-7476, 7408
10	Sequence generator/Detector with JK Flip flop	CDS, LED, IC-7476, 7486, 7408
11	Up down counter	CDS, LED, IC-7476, 7404, 7408, 7432
12	Modulo 'n' counter with 7490	CDS, LED, IC-7490, 7408
13	Pseudo random sequence generator	CDS, LED, IC-7495, 7486
14	Sorting (Ascending/ Descending)	8085 kit
15	BCD Addition	8085 kit
16	Multiplication Using shift/add	8085 kit
17	Look up table for code converter	8085 kit
18	ADC Interface	8085 kit, ADC kit, CRO
19	DAC Interface	8085 kit DAC kit, CRO

Experiment List
Subject : - Datastructure & File Lab
Sem :- Second

Class- SE IT

Sr. No.	Name of Experiment	Experimental Setup
1	Create a GLL & perform – Copy, display , equivalence & depth.	Computer, Software – OS, C++
2	Accept Prefix expression & construct a binary tree & perform recursive & non recursive traversals.	Computer, Software – OS, C++
3	Create a binary search tree. Find it's mirror image .Find height & print leaf nodes.	Computer, Software – OS, C++
4	Creation an inorder threaded binary tree & perform all 3 traversals.	Computer, Software – OS, C++
5	Represent a given graph using adjancy list & perform DFS & BFS.	Computer, Software – OS, C++
6	Represent given graph using adjancy list or array & find the shortest path using dijkstras algorithm.	Computer, Software – OS, C++
7	Represent given graph using adjancy list or array & generate a minimum spanning tree using kruskals & prims algorithm.	Computer, Software – OS, C++
8	Implement binary search tree as an ADT.	Computer, Software – OS, C++
9	Create hash table & handle the collisions linear probing with or without replacement.	Computer, Software – OS, C++
10	Implementation of simple index file.	Computer, Software – OS, C++
11	Implementation of direct access file –insertion & deletion of a record from a direct access file using chaining with or without replacement.	Computer, Software – OS, C++
12	Implement sequential file.	Computer,

Sr. No.	Name of Experiment	Experimental Setup
		Software – OS, C++
13	Implement quick sort using arrays.	Computer, Software – OS, C++
14	Implement Merge sort using arrays.	Computer, Software – OS, C++
15	Implement Heap sort.	Computer, Software – OS, C++
16	Implement Huffman's algorithm.	Computer, Software – OS, C++

Experiment List

Subject : - Microprocessor Lab

Class- SE IT

Sem :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	8086 ALP to add array of n numbers	Computer, Software – OS, TASM
2	8086 ALP to non-overlapped & overlapped block transfer	Computer, Software – OS, TASM
3	8086 ALP count negative numbers from the array of signed numbers	Computer, Software – OS, TASM
4	8086 ALP to convert hex to bcd ,bcd to hex, exit	Computer, Software – OS, TASM
5	8086 ALP to string manipulation-concatenation & compare two strings	Computer, Software – OS, TASM
6	8086 ALP to string manipulation-number of Occourances of substring in given line	Computer, Software – OS, TASM
7	8086 ALP to arrang nos in ascending order	Computer, Software – OS, TASM
8	8086 ALP to arrang nos in descending order	Computer, Software – OS, TASM
9	8086 ALP to perform multiplication of two 16 bit nos	Computer, Software – OS, TASM
10	Programs in C using int86,int86x,indos,indosx functions -to create a directory -to delete a file	Computer, Software – OS, TASM
11	ISR to display name for 2 minutes	Computer, Software – OS, TASM
12	Peripheral Interfacing a)8255 b)8254	Computer, Interfacing 8255,8254 Kit,etc.
13	Peripheral Interfacing a)8255/51 b)8259	Computer, Interfacing 8255,8259 Kit, etc.
14	Implement ISR program in 8086 to implement RTC	Computer, Software – OS, TASM
15	Implement ISR program in C to change the color of screen after 10s	Computer, Software – OS, TASM
16	8086 ALP to find square root of given floating pont no using NDP	Computer, Software – OS, TASM
17	Implement protective mode of 80386	Computer, Software – OS, TASM

Experiment List**Subject** : - Object Oriented Programming Lab**Class**- SE IT**Sem** :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Design a Class for complex number in C++	Computer, Software – OS, C++
2	Design a class for string with default parameter. And copy constructor	Computer, Software – OS, C++
3	Design a class “distance” and overload '+', '-', '*', '<<', '>>' operators	Computer, Software – OS, C++
4	Design a class “point” as base class and derive class as “circle” and “line”	Computer, Software – OS, C++
5	Implement a multilevel and hierarchical inheritance for employee details.	Computer, Software – OS, C++
6	Design class for template function swap() and template class “Queue”	Computer, Software – OS, C++
7	Design class “Stack” with exception handling in feature C++	Computer, Software – OS, C++
8	Design a class “Employee” with file handling feature in C++	Computer, Software – OS, C++
9	Design simple JAVA program with inheritance feature	Computer, Software – OS, JDK
10	Design a lass “Array” with Exception handling feature in JAVA	Computer, Software – OS, JDK

Experiment List**Subject** : - Operating System Lab**Class**- TE IT**Sem** :- First

Sr. No.	Name of Experiment	Experimental Setup
1	Program for CPU Scheduling.	Computer, Software – OS, C++
2	Implementation of Semaphores.	Computer, Software – OS, C++
3	Implementation of Dead Lock (Banker' Algo.)	Computer, Software – OS, C++
4	Implementation of Dinning Philosophers Problem.	Computer, Software – OS, C++
5	Implementation of Demand Paging.	Computer, Software – OS, C++
6	Implementation of Reader-Writer Problem.	Computer, Software – OS, C++
7	Shell Programming	Computer, Software – Linux
8	Study of UNIX Commands.	Computer, Software – Linux
9	Implementation of Student Database by using Shell program.	Computer, Software – Linux

Subject : - Multimedia Lab

Class- TE IT

Sem :- First

Sr. No.	Name of Experiment	Experimental Setup
1	Line generation using DDA and Bresenham's algorithm. (C/VB)	Computer, Software – OS, C++,VB
2	Generation of circle using Bresenham's algorithm. (C/VB)	Computer, Software – OS, C++,VB
3	Polygon filling using scan line, seed fill algorithm. (C/VB)	Computer, Software – OS, C++,VB
4	2D transformation. (C/VB)	Computer, Software – OS, C++,VB
5	Line clipping using Cohen Sutherland algorithm. (C/VB)	Computer, Software – OS, C++,VB
6	Polygon clipping using Sutherland Hogman algorithm. (C/VB)	Computer, Software – OS, C++,VB
7	2D animation using segmentation. (C/VB)	Computer, Software – OS, C++,VB
8	Presentation using any authoring tool. (MS Power Point / Flash)	Computer, Software – OS, Flash
9	Playing audio or video file using VB. (VB)	Computer, Software – OS, C++,VB
10	Implementation of LZW compression. (C/VB)	Computer, Software – OS, C++,VB
11	Write a tool to create a Multimedia presentation. (VB)	Computer, Software – OS, C++,VB

Experiment List

Subject : - Information System Lab

Class- TE IT

Sem :- First

Sr. No.	Name of Experiment	Experimental Setup
1	Introduction to DBMS & RDBMS.	Computer, Software – OS, SQL
2	Implementation of DDL and DML statement.	Computer, Software – OS, SQL
3	Implementation of ER Diagram	Computer, Software – OS, SQL
4	Implementation of Constraints	Computer, Software – OS, SQL
5	Implementation of SQL Query	Computer, Software – OS, SQL
6	Implementation of Index, View, Joins	Computer, Software – OS, SQL
7	Implementation of PL/SQL.	Computer, Software – OS, SQL
8	Implementation of Cursor.	Computer, Software – OS, SQL
9	Implementation of Trigger	Computer, Software – OS, SQL
10	Implementation of Procedure, Functions.	Computer, Software – OS, SQL
11	Generate simple report using SQL report generator facility.	Computer, Software – OS, SQL
12	VB-Project	Computer, Software – OS, V.Studeo, SQL
13	VB-Oracle project	Computer, Software – OS, V.Studeo, SQL

Experiment List**Subject** : - Network Lab**Class**- TE IT**Sem** :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	PC to PC Communication using RS232 and Optical Link.	Computer, Rs232 cable Software – win XP,C
2	Implementation of Sliding Window Protocol.	Computer, Software – win XP,C
3	Implementation of Stop And Wait Protocol.	Computer, Software – win XP,C
4	Study various networking devices	Computer, router,switch,hub,cables Software –
5	Implementation of CRC Error Detection..	Computer, Software –C++
6	Download Router Simulator and configure routing protocol.	Computer, Software – netsim,Boson router simulator
7	Study of Existing LAN	Computer,router,switch,hub,cables Software – Win 2003 server
8	Study of protocol analyzer software.	Computer, Software – Lan explorer
9	TCP and UDP implementation	Computer, Patch cord Software – VB 6.0 ,
10	Socket program UNIX/ LINUX , UDP Client Server.	Computer, Software – C,Linux
11	Socket program UNIX/ LINUX , TCP Client Server.	Computer, Software – C,Linux
12	Study of ftp and smtp commands.	Computer, Software – win XP
13	Developed a simple web-based application use client side and server side scripting.	Computer, Software – HTML,XML,VB6.0
14	Mini-project	Computers,cables,Network Devices,Operating system

Experiment List**Subject** : - Software Lab**Class**- TE IT**Sem** :- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Write a C program to convert a given regular expression to DFA	Computer, Software – OS, C++
2	Write a C program to convert a given regular grammar to DFA	Computer, Software – OS, C++
3	Design a 2-pass assembler with respect to hypothetical instruction set.	Computer, Software – OS, C++
4	Design a macro processor with following feature a)Positional and keyword parameters b)Conditional expansion.	Computer, Software – OS, C++
5	Design a Lexical Analyzer for the subset of “C” language.	Computer, Software – OS, C++
6	Implement a recursive descent parser or shift-reduce parser in c Language	Computer, Software – OS, C++
7	Design a Line or Screen editor.	Computer, Software – OS, C++
8	Write a Dynamic Link Library and test it.	Computer, Software – OS, C++

Experiment List**Subject** : - Information System Security**Class**- BE IT**Sem** :- First

Sr. No.	Name of Experiment	Experimental Setup
1	Implementation of simple DES algorithm in java.	Computer, Software – OS, C++,JDK
2	implement the code in java to find IP address of remote machine	Computer, Software – OS, C++,JDK
3	Implementation of key distribution algorithm in java / c.	Computer, Software – OS, C++,JDK
4	Implementation of authentication and authorization protocol in java / c.	Computer, Software – OS, C++,JDK
5	Implementation of RC5 in java / c.	Computer, Software – OS, C++, JDK
6	Implementation of firewall in java.	Computer, Software – OS, C++, JDK
7	Study of cookies in web programming	Computer, Software – OS, C++, JDK
8	Study of viruses, worms and spy ware.	Computer, Software – OS, C++, JDK

Subject : - Computer Lab Practice-I**Class**- BE IT**Sem** :- First

Sr. No.	Name of Experiment	Experimental Setup
1	Mini Project : Implementation of Client-Server Architecture Showing Use Of Stored procedures, triggers, cursors . (VB as front End and Oracle/Access as backend)	Computer, Software – OS, C++,VB,JDK,SQL
2	Mini Project : Implementation of Internet Database (Java/JSP as Front End And Oracle/Access as back end). Creating and manipulating XML.	Computer, Software – OS, C++,VB,JDK,SQL
3	Mini Project : Implementation of Distributed Database Using RMI.(JSP + Access/Oracle)	Computer, Software – OS, C++,VB,JDK,SQL
4	Mini Project : Implementation Of Client-Server Architecture (JSP + Access/Oracle)	Computer, Software – OS, C++,VB,JDK,SQL

Experiment List**Subject** : - - Artificial Intelligence**Class-** BE IT**Sem**

:- Second

Sr. No.	Name of Experiment	Experimental Setup
1	A* Algorithm Implementation.	Computer, Software – OS, C++, JDK
2	AO* Algorithm Implementation.	Computer, Software – OS, C++, JDK
3	Implementation of Unification Algorithm.	Computer, Software – OS, C++, JDK
4	Development of Mini-Expert System using Prolog.	Computer, Software – OS, C++, JDK
5	Implementation of TMS using Prolog.	Computer, Software – OS, C++, JDK
6	Implementation of Min/Max Search procedure for Game Playing	Computer, Software – OS, C++, JDK
7	Shell Programming and AWK programming	Computer, Software – OS, C++, JDK
8	Process Control/Relationship/Daemon Process	Computer, Software – OS, C++, JDK
9	Signals	Computer, Software – OS, C++, JDK
10	I/P Stream and Driver Interfaces	Computer, Software – OS, C++, JDK
11	Semaphores, Client Server properties	Computer, Software – OS, C++, JDK
12	Multithreading	Computer, Software – OS, C++, JDK
13	Study of h & c fields for studying Unix file system, file structure, network related issues inter-process communication etc.	Computer, Software – OS, C++, JDK

Experiment List**Subject** : - - Computer Lab Practice-II**Class-** BE IT**Sem**

:- Second

Sr. No.	Name of Experiment	Experimental Setup
1	Design and implement distributed system	Computer, Software – OS, C++,VB,JDK,SQL
2	Study of System operation and maintenance	Computer, Software – OS, C++,VB,JDK,SQL
3	Implement Keyword classification and indexing	Computer, Software – OS, C++,VB,JDK,SQL

COMPUTING FACILITIES:

- Number and Configuration of Systems 401 (PIV-381, PIII-20)

Sr.No.	Particulars	Computer facility available as on
1.	No. of Computer Terminals	401
2.	Hardware Specification	
	▪ P-IV / Latest Configuration	381
	▪ P-III	20
	▪ TOTAL	401
3.	No. of Terminals on LAN/WAN	401
4.	Relevant Legal Software	
	▪ Application Software	14
	▪ System Software	05
5.	Printers	38
6.	Internet Accessibility (in mbps & hrs)	1 mbps 1:1 leaseline (BSNL) 01 No.

- Major software packages available

(Licensed Software) :-

h)i) **System software :**

Sr. No.	Name of software	No. of Licenses
1	DOS	01
2	Novell Netware 4.1	02
3	Unix	01
4	Windows NT	01
5	Windows 2000	01

i)ii) **Application software**

Sr.No.	Name of software	No. of Licenses
1	Rational Enterprise Suite	10
2	Xilinx	01
3	Autocad 2000	01
4	Mechanical Desktop	07
5	CNC Trainer	01
6	Inventor	03
7	PC to PC Communication	01
8	Autocad 13	10
9	Ansys 5.4	03
10	Ansys 6.1	05
11	Circuit Maker	02
12	MATLAB	06
13	Micro Soft Alliance	01
14	Macro Media Flash-5	01

- Special purpose facilities available

- 1) CATIA V-5 Couching Courses are made available for the students in campus.
- 2) PRO-E proposed Couching Courses will be made available for the Sr. Mechanical Engineering students.

WORKSHOP:

- List of facilities available.

Sr. No.	Particulars	Carpet (Sq.mt.)
1	Common Room (Girls)	126
2	Office for Gymkhana	48
3	Office of Alumni Association	54
4	Co- Operative Store	108
5	Mess and Canteen (Boys)	776
6	Mess and Canteen (Girls)	531
7	Watchman Cabin	32
8	S. T. D. Booth	15
9	Generator Room (150 KVA)	20
10	Central Store	108
11	Guest House	254
	Total :-	2072
12	Cycle Stand	360
	Total :-	2432
13	Canteen (Proposed)	496
14	Auditorium (Proposed)	3345.6
	Grand Total :-	6273.6

Games and Sports Facilities

Facilities for out door games such as cricket, Holley-ball, Football, Kabbadi, Kho-Kho, Basket ball, Hockey are available on the college ground. Facilities for indoor games like chess, carom, table-tennis are available in the college. Gymnasium is available at the hostel with modern gym. Equipments.

Sr. No.	Facilities	Carpet Area in Sq.m.
1	Basket ball (Boys)	420
2	Basket ball (Girls)	420
3	Football	8250
4	Volleyball –1	162
5	Volleyball –2	162
	Total :-	9414
6	Gymnasium Hall (Proposed)	705
	Grand Total :-	10119

Extra curricular activities

Dept of Civil Engineering

STUDENT'S EXTRA-CURRICULUM ACHIEVEMENT YEAR 2006-07

SR. NO	EVENT	NAME OF THE STUDENTS	PLACE
1	Presentation of songs using mouth organ on radio channel "Vasundhara Krushi Vahini" at VP Baramati. This program was coordinated By Prof. A D Pawar.	<ul style="list-style-type: none">Nikam Pradip N. S.E. CivilModale Hardhad S F E	Radio channel "Vasundhara Krushi Vahini" at VP Baramati.
2	Discussion on "Rain Water Harvesting Techniques, procedures and construction" methods. This program was coordinated By Prof. A D Pawar.	<ul style="list-style-type: none">Bobade Nilesh S E CivilNimbalkar Ranjit S E Civil	Radio channel "Vasundhara Krushi Vahini" at VP Baramati.

INDUSTRIAL VISITS 2006-07

Sr. No.	Class	Place /Event
1	B.E.	Thermal Power Station, Bhusawal, Jalgaon.
2	B.E.	Tarapur Atomic Power Project 3 & 4, Tarapur.
3	B.E.	Piaggio Vehicles Pvt. Ltd., Baramati, Dist-Pune.
4	T.E. (A)	Hydropower Plant, Ujani, Indapur
5	T.E. (A)	Hydropower Plant, Kanher Dam, Satara.
6	T.E. (B)	Cyclo Transmission Ltd., Satara.
7	T.E. (B)	Kirloskar Brothers Ltd., Kirloskarwadi, Sangali.
8	T.E. (B)	Hydropower Plant, Kanher Dam, Satara.

SPORTS ACTIVITY 2006-07

Sr. No.	Name of Student	Place	Event	Prize
1	Jagtap Rohit	Gwalior, M.P.	Basketball	Univer sity Selection
2	Madbhavi Rajesh	Gwalior, M.P.	Basketball	Univer sity Selection

CURRICULAR ACTIVITIES 2006-07

Sr. No.	Name of Student	Place	Event	Name of Paper/Project
1	Mahesh More Ajay Nikam	R.I.T. Sakharale, Sangali	National Level Paper Presentation	Photovoltaic Vaccine Refrigeration
2	Abhijit Pardeshi Manoj Ratanpur	C.O.E. Pandharpur	National Level Paper Presentation	Air Powered Car
3	Nilesh Shriwastav Dubey Bikaskumar Shaun Shaldana	V.P. C.O.E. Baramati	National Level Project Presented	Robotics Verismo 06
4	Shaukat Gawandi Jitesh Mutha Shashikant Bagale Girish Dangle	D.Y. Patil Akurdi, Pune	National Level Project Presented	Spot Model Making
5	Ganesh Bhosale	C.O.E. Pandharpur	National Level Project Presented	Robotics
6	Pramod Kumar Samik Mukophadaya	D.Y. Patil Akurdi, Pune	National Level Project Presented	Technical Quiz
7	Sushil Sonawane Shaukat Gawandi	C.O.E. Pandharpur	National Level Project Presented	Robowar
8	Narkhede A.R. Patil J.C. Bhonge A.N.	C.O.E. Pandharpur	National Level Project Presented	Robotics
9	Pradip Kale Khair Nitin	Communis College of Engg. Pune	National Level Project Presented	Robotics
10	Kale Pradeep T. Jadhav Keshav M. Khair Nitin K. Khole Ganesh	Bharati Vidyapeeth, Pune	National Level Project Presented	Robotics
11	Vishal Sawant Manij Deshmukh Vijay Pol Vishal Gawali	D.Y. Patil Pune	National Level Project Presented	Robowar

COLLEGE OF ENGINEERING MALEGAON(Bk)

DEPARTMENT OF E&TC

CURRICULAR ACTIVITY (2006-2007)

SR.NO	NAME OF STUDENTS	PLACE	NAME OF PAPER/PROJECT	PRIZE
1	NEHA KUMARI, PRIYANKA KUMARI	W.C.E SANGALI	ABC'S OF NEURAL N/W	1 st
2	SANGRAM JADHAV AVINASH JADHAV	W.C.E SANGALI	VLSI implementation	1 st
3	SANDEEP MOHITE PRAJOT MOHITE	R.I.T SAKHARALE	STEGNOGRAPHY WAVELET BASED IMAGE CODER	1 st
4	SANGRAM JADHAV SONIA SHARMA	V.P.C.O.E BARAMATI	FPGA IMPLEMENTATION OF FACE AUTHENTICATION	2 nd
5	KHAIRE NITIN KOLHE GANESH	BHARATI VIDYAPEETH C O E PUNE	ROBOTICS	3 rd
6	RISHIKESH MAHAJAN NIRACHAND SONAWANE	D Y PATIL AKURDI	ROBOTICS	3 rd
7	MUGDHA KANE NILESH SURASE SANJOG RAJPUT	I I T PAWAI MUMBAI	ROBOTICS	7 th
8	SACHINE KAKADE	C O E PANDHARPURE	ROBOTICS	3 rd
9	MANOJ DESHMUKH VISHAL SAWANT	D Y PATIL AKURDI	ROBOWAR	1 st
10	NITIN KHAIRE	CUMMINS CO E PUNE		2 nd
11	NEHA SINGH KAILAS PATANE SAGAR KENJALE	MODERN C O E PUNE		2 nd

SPORT ACTIVITY (2006-2007)

SR.NO	NAME OF STUDENTS	PLACE	EVENT	PRIZE
1	SAI JAWALE	UNIVERSITY LEVEL	CRICKET	--
2	SANTOSH RANDIVE	JUNNER (INTER COLLEGE)	BASKET BALL	--
3	AKRUR GADE	UNIVERCITY LEVEL	BASKET BALL	--

INDUSTRIAL VISIT(2006-2007)

SR.NO	CLASS	PLACE/ EVENT
1	BE(E&TC)	TELEPHONE EXCHANGE BARAMATI

STUDENT'S EXTRA-CURRICULUM ACHIEVEMENT YEAR 2006-07

SR. NO	EVENT	NAME OF THE STUDENTS	PLACE
1	Radio Program on radio channel "Vasundhara Krushi Vahini" at VP Baramati. This program was arranged by Prof. Vidya Waykule.	Pradeep T.E.-Comp	Radio channel "Vasundhara Krushi Vahini" at VP Baramati.

Development By Staff:-

Sr. No.	Project Title	Project Scope	Project Member	Role
1	AdCell	Software of First Year Engineering Admission System.	Prof. Abhijit Pawar (I.T.) Prof. Hemant Kumbhar (Comp.)	Software Developers
2	Organization Website	Coordinator between Organization and Web Developers.	Prof. Abhijit Pawar (I.T.) Prof. Hemant Kumbhar (Comp.)	Licensing Officer

Department of Information Technology

EXTRA CURRICULUM ACTIVITIES YEAR 2006-07

DEPT	PROJECT TITLE	PROJECT SCOPE	PROJECT MEMBER	ROLE
Comp / IT	AdCell	Software of First Year Engineering Admission System.	Prof. Abhijit Pawar (I.T.) Prof. Hemant Kumbhar (Comp.)	Software Developers
Comp/ IT	Organization Website	Coordinator between Organization and Web Developers.	Prof. Abhijit Pawar (I.T.) Prof. Hemant Kumbhar (Comp.)	Licensing Officer

SR. NO	EVENT	NAME OF THE STUDENTS	PLACE
1	Radio Program "Mai Tuje Salam" on radio channel "Vasundhara Krushi Vahini" at VP Baramati. This program was arranged By Prof. Abhijit Pawar. This program was board-coasted on 09 Oct 2006.	Shaikh Gazal S.E.-I.T. Munshi Smriti S.E.-I.T. Lokhande Priya T.E.-I.T. Phalke Sagar T.E.-I.T. Salunke Vikram T.E.-I.T. Ghanwat Sandeep T.E.-I.T. Pandita Kavita S.E.-Comp.	Radio channels "Vasundhara Krushi Vahini" at VP Baramati.

Soft skill Development Facilities

- 1 Personality Development programmers
- 2 Interview Technique Programs
- 3 Event Management
- 4 Guest Lecturers
- 5 Industrial Visits

No. of Class Rooms and size of each

SR.NO.	CLASS ROOM SIZE	NO.
1	54 sq.m	01
2	81 sq.m	16
3	108 sq.m	03
	TOTAL	20

No. of Class Tutorials rooms and size of each

SR.NO.	CLASS ROOM SIZE	NO.
1	40.5 sq.m	06
2	54 sq.m	07
	TOTAL	13

Number of laboratories and size of each

SR.NO.	LABORATORIES SIZE	NO.
1	18 Sq.m.	01
2	54 Sq.m.	07
3	67.5 Sq.m.	02
4	72 Sq.m.	01
5	81 Sq.m.	03
6	93 Sq.m.	01
7	108 Sq.m.	14
8	135 Sq.m.	02
9	162 Sq.m.	01
10	177 Sq.m.	01
11	180 Sq.m.	02
12	189 Sq.m.	04
13	216 Sq.m.	01
14	297 Sq.m.	01
15	333 Sq.m.	01
	Total	42

Number of drawing halls and size of each-

SR.NO.	DRAWING HALL SIZE	NO.
1	81 sq.m	01
2	162 sq.m	01
3	180 sq.m	01
	TOTAL	03

Number of seminar halls and size of each-

SR.NO.	SEMINAR HALL SIZE	NO.
1	189 sq.m.	01
	TOTAL	01

Number of Computer Centres with capacity of each- 1135 Sq.m. - this area included in departmental laboratories of Mech, E&TC, Comp, IT & Civil departments)

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

Central examination hall No- 01.

Number of rooms and capacity of each .- no- 20 (Class rooms) , 35 Students.

Number of drawing halls and capacity of each .- no- 03 , 30 & 60 Students.

Teaching Learning process

- Curricula and syllabi for each of the programmes as approved by the University. :-

UNIVERSITY OF PUNE

Proposed Structure of F.E. 2003 Course

Semester – I

Sub Code	SUBJECT TITLE	TEACHING SCHEME			Examination Scheme		Total Marks
		Lecture	Tutorial	Practical	Paper	TW	
107001	Engineering Mathematics – I	4	1	-	100	-	100
107002	Applied Science – I	4	-	2	100	25	125
102003	Basic Mechanical Engineering	3	-	2	100	25	125
103004	Basic Electrical Engineering	3	-	2	100	25	125
101005	Basic Civil Engineering	3	-	2	100	25	125
102006	Engineering Graphics – I	1	-	2	-	25	25
111007	Workshop Practice – I	-	-	2	-	25	25
	Total	18	1	12	500	150	650

Semester – II

Sub. Code	Subject Title	Teaching Scheme			Examination Scheme		Total Marks
		Lecture	Tutorial	Practical	Paper	TW	
107008	Engineering Mathematics-II	04	01	--	100	--	100
107009	Applied Science-II	04	--	02	100	25	125
101010	Engineering Mechanics	03	01	02	100	25	125
104011	Basic Electronics Engineering	03	--	02	100	25	125
102012	Engineering Graphics-II	03	--	02	100	25	125
110013	Computer Programming	01	--	02	--	25	025
111014	Workshop Practice –II	--	--	02	--	25	025
	Total	18	02	12	500	150	650
	Total of Part-II(B)	32 Hours					650
	Grand Total = (A+B)	--			1000	300	1300

S.E. Mechanical 2003 Structure (w.e.f. July – 2004)

FIRST TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
202041	Applied Thermodynamics	4	2	100	25	50	-	175
202042	Strength of Machine Elements	4	-	100	--	-	-	100
202043	Fluid Mechanics	4	2	100	25	50	-	175
202044	Machine Drawing	1	4	-	25	50	-	75
207045	Engineering Mathematics III*	4	-	100	-	-	-	100
211046	Manufacturing Processes I	3	-	100	-	-	-	100
211047	Workshop Practice III	-	2	-	25	-	-	25
Total of First Term		20	10	500	100	150	-	750

SECOND TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
202048	Theory of Machines & Mechanisms I	3	2	100**	25	50	-	175
202049	I.C. Engines & Automobile Engineering	3	2	100	25	50	-	175
202050	Computer Graphics	1	4	-	-	50	-	50
203051	Electrical Technology*	4	2	100	25	-	-	125
205052	Metallurgy	4	2	100	25	-	-	125
211053	Manufacturing Processes II	3	-	100	-	-	-	100
Total of Second Term		18	12	500	100	150	-	750

Common with Mechanical sandwich course

** Theory paper of 4 Hours duration.

T.E. Mechanical 2003 Structure (w.e.f. July – 2005)

FIRST TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
302041	Design of Machine Elements	4	2	100**	50	-	-	150
302042	Heat Transfer*	4	2	100	-	-	50	150
302043	Theory of Machines & Mechanisms II	4	2	100	-	50	-	150
302044	Industrial Engineering & Management	4	-	100	-	-	-	100
302045	Computer Oriented Numerical Methods*	4	2	100	-	-	50	150
311046	Workshop Practice IV	-	2	-	50	-	-	50
Total of First Term		20	10	500	100	50	100	750

SECOND TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
302047	Transmission System Design**	4	2	100	25	50	-	175
311048	Metrology & Quality Control	4	2	100	25	-	-	125
302049	Tribology	4	-	100	-	-	-	100
302050	Fluid Machinery	4	2	100	-	50	-	150
302051	Refrigeration & Air Conditioning	4	2	100	-	50	-	150
302052	Technical Paper Presentation	-	2	-	50	-	-	50
Total of Second Term		20	10	500	100	150	-	750

Common with Mechanical sandwich course

** Theory paper of 4 Hours duration.

B.E. Mechanical 2003 Structure (w.e.f. July – 2006)

FIRST TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
402041	Mechanical System Design	4	2	100**	-	50	-	150
402042	Dynamics of Machinery *	4	2	100	25	50	-	175
402043	Mechatronics*	4	2	100	25	50	-	175
402044	Gas Turbines & Jet Propulsion	4	-	100	-	-	-	100
402045	Elective I	4	-	100	-	-	-	100
402046	Project Work	-	2	-	-	-	-	-
Total of First Term		20	8	500	50	150	-	700

SECOND TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
402046	Project Work	-	6	-	100	100	-	200
402047	CAD/CAM & Automation*	4	2	100	25	50	-	175
402048	Power Plant Engineering	4	2	100	25	50	-	175
402049	Industrial Fluid Power	4	2	100	-	50	-	150
402050	Elective II	4	-	100	-	-	-	100
Total of First Term		16	12	400	150	200	-	750

Elective I		Elective II	
402045	Product Design & Development	402050	Robotics
402045	Non-Conventional Production Processes	402050	Computational Fluid Dynamics
402045	Alternative Energy Sources	402050	Energy Conservation
402045	Kinematic Analysis & Synthesis	402050	Rapid Prototyping
402045	Operations Research	411050	Reliability Engineering
402045	Costing & Cost control	402050	Automobile Engineering

Common with Mechanical sandwich course

** Theory paper of 4 hours duration.

S.E. Mechanical S/W 2003 Structure (w.e.f. July – 2004)

FIRST TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Or	Pr	Total
202042	Strength of Machine Elements	4	-	100	-	-	-	100
202044	M/C Drawing & Comp. Graph. I	1	4	-	25	50	-	75
202061	Thermal Engineering I	4	2	100	25	-	50	175
203051	Electrical Technology *	4	2	100	25	-	-	125
207045	Engineering Mathematics III *	4	-	100	-	-	-	100
211062	Production Engineering I	3	2	100	25	-	50	175
Total of First Term		20	10	500	100	50	100	750

SECOND TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
202063	Fluid Mechanics & Machinery	4	2	100	25	50	-	175
202065	Theory of Machine & Machine Design – I	4	4	100 **	25	50	-	175
202068	M/C Drawing & Comp Graph. II	1	2	-	25	-	50	75
205066	Production Metallurgy	4	2	100	25	-	-	125
211064	Production Engineering II	3	2	100	25	-	50	175
211067	Metrology & Quality Control	-	2	-	25	-	-	25
Total of Second Term		16	14	400	150	100	100	750

Common to SE Mechanical Course

** Theory Paper of 4 Hours Duration

T.E. Mechanical S/W 2003 Structure (w.e.f. July – 2005)

FIRST TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Or	Pr	Total
302061	Elective I Welding Technology Manufacturing Management Behavioural Science 4. Plant Engineering	Self Study		100	-	-	-	100
302062	Technical Paper Presentation I				-	50		50
302063	Industrial In-plant Training	-		-	150	100		250
Total of First Term		-	-	100	150	150		400

SECOND TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
302042	Heat Transfer *	4	2	100	25	50	-	175
302045	Computer Oriented numerical methods*	4	2	100	25	-	50	175
302064	Thermal Engineering II	4	2	100	25	50	-	175
302065	Theory of Machines & Machine Design II	4	2	100	25	50	-	175
402043	Mechatronics *	4	2	100	50	-	-	150
Total of Second Term		20	10	500	150	150	50	850

Common to Mechanical Course

** Theory Paper of 4 Hours Duration

B.E. Mechanical S/W 2003 Structure (w.e.f. July – 2006)

FIRST TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
402061	Design Engineering	4	2	100**	25	50	-	175
402042	Dynamics of Machinery *	4	2	100	25	50	-	175
402062	Industrial Hydraulics & Pneumatics	4	2	100	25	50	-	175
402047	CAD/CAM & Automation *	4	2	100	25	50	-	175
402063	Elective II Refri & A/Conditioning Robotics Tribology Automobile Engineering 5. Comp. fluid dynamics	4	-	100	-	-	-	100
402064	Thermal Engineering Lab. Practice	-	2	-	-	50	-	50
Total of First Term		20	10	500	100	250	-	850

SECOND TERM

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME				
		Lect.	Pract/Dwg	Paper	TW	Oral	Pr	Total
402065	Elective III Industrial Engineering Costing & Cost Control Production Management Machine Tool Design 5. Non-Conventional Energy	Self Study		100	-	-	-	100
402066	Technical Paper Presentation II	-	-	-	-	50	-	50
402067	Industrial In-plant Training & Project	-	-	-	200	100	-	300
Total of First Term		-	-	100	200	150	-	450

Common to B.E. Mechanical Course

** Theory paper of 4 hour duration.

Department E&TC Engineering
Semester – I

Sub. No.	Subject	Teaching Scheme				Examination Scheme				
		Lecture	Tutori.	Practi.	Total	Paper	Practi.	Oral	T/W	Total
204181	Signal and Systems*	4	1	-	5	100	-	50	-	150
204182	Semiconductor Devices and Circuits	4	-	2	6	100	50	-	-	150
204183	Network Theory	4	-	2	6	100	-	-	25	125
204184	Control Systems	4	-	2	6	100	-	-	25	125
204185	Digital Systems	4	-	2	6	100	50	-	-	150
204186	Electronics Hardware workshop	-	-	2	2	-	-	-	50	50
Total		20	1	10	31	500	100	50	100	750

Semester – II

Sub No.	Subject	Teaching Scheme				Examination Scheme				
		Lecture	Tutori.	Practi.	Total	Paper	Practi.	Oral	T/W	Total
204187	Electronic Circuits and Applications	4	-	2	6	100	50	-	25	175
207003	Engineering Maths III	4	-	-	4	100	-	-	-	100
203189	Electrical Circuits and Machines	4	-	2	6	100	-	-	25	125
210256	Data Structure and Files	4	-	2	6	100	50	-	-	150
204191	Analog Communication	4	-	2	6	100	-	50	-	150
204192	Electronics Software Workshop	-	1	2	2	-	-	-	50	50
Total		20	1	10	31	500	100	50	100	750

Th: Theory Tw: Term Work Pr: Practical Or: Oral

TE (E&TC / Electronics Engineering)
Semester – I

Structure of T.E.(E&TC)2003 Course										
Sub. No.	Subjects	Teaching Scheme				Examination Scheme				
		Lecture	Tutori.	Practi.		TW	TH	PR	OR	
Semester I										
304181	Digital Design & Computer Organization	4	-	-		-	100	-	-	
304182	Analog Integrated circuits- Design & application	4	-	-		-	100	-	-	
304183	Digital Communication	4	-	2		25	100	-	50	
304184	Microprocessor, Microcontrollers & Applications	4	-	-		-	100	-	-	
304185	Mechatronics	3	-	2		25	100	-	-	
304186	Electronics Lab – I *	-	-	4		50	-	50	-	
304187	Electronic Design Workshop **	-	-	2		-	-	-	50	
Total		19	-	10		100	500	50	100	

Semester – II

Structure of T.E.(E&TC)2003 Course										
Sub. No.	Subjects	Teaching Scheme				Examination Scheme				
		Lecture	Tutori.	Practi.		TW	TH	PR	OR	
Semester II										
304188	Advanced Microprocessors	4	-	-		-	100	-	-	
304189	Power Electronics	4	-	-		-	100	-	-	
304190	Digital Signal Processing	4	-	-		-	100	-	-	
3041891	Electromagnetic waves & Radiating systems	3	-	-		-	100	-	-	
304192	Information theory & coding techniques	4	-	-		-	100	-	-	
304193	Electronics Lab – II *	-	-	4		50	-	50	-	
304194	Signal Processing & Communication Lab **	-	-	4		25	-	-	50	
304195	Electronic system design & Mini project ***	-	-	2		25			50	
Total		19	-	10		100	500	50	100	

Th: Theory

Tw: Term Work

Pr: Practical

Or: Oral

**STRUCTURE B. E. (ELECTRONICS AND TELECOMMUNICATION),
2003 COURSE-TERM-I**

Subject No.	Subject	Teaching Scheme			Examination Scheme				Total Marks
		Lect.	PR.	T	TH	T.W.	Pract	Oral	
404214	Computer Networks	3	--	--	100	--	--	--	100
404215	Voice Networks	4	--	--	100	--	--	--	100
404216	Electronic Product Design	4	--	--	100	--	--	--	100
404217	VLSI Design	3	2	--	100	--	50	25	175
404218	Elective – I	4	2	--	100	--	50	25	175
404219	Communication Laboratory - I	--	4	--	--	--	50	25	75
404220	Seminar **	--	--	2	--	50	--	--	50
404221	Project ***	--	2	--	--	--	--	--	
	Total	18	10	2	500	50	150	75	775
Total Hours = Theory 18Hrs + Practical 10 Hrs + Tutorial 2 = 30 Hours									

404218 Elective – I

Embedded Systems Design
Advanced Power Electronics
Advanced Digital Signal Processing
Artificial Neural Networks
Robotics and Industrial Automation

Note:

All three papers are three hours duration
Practical/Oral shall be based on term-work
Term-work of Seminar consists of seminar report based on project.
** * Exam at the end of II term

STRUCTURE B. E. (ELECTRONICS AND TELECOMMUNICATION), 2003 COURSE-TERM-II

Subject No.	Subject	Teaching Scheme			Examination Scheme				Total Marks
		Lect.	PR.	T	TH	T.W.	Pract	Oral	
404222	Electronic Measurement Systems	4	--	--	100	--	--	--	100
404223	Telecomm. Networks and Management	4	--	--	100	--	--	--	100
404224	Optical and Microwave Communications	4	--	--	100	--	--	--	100
404225	Elective – II	4	2	--	100	--	50	25	175
404226	Communication Laboratory - II	--	4	--	--	--	50	50	100
404221	Project ***	--	6	--	--	100	--	50	150
	Total	16	12	--	400	100	100	125	725
Total Hours = Theory 16 Hrs + Practical 12 Hrs = 28 Hours									

404225 Elective – II

Advanced Communication Systems
Digital Image Processing
Biomedical Engineering
Audio and Video Engineering
System Programming and Operating Systems

Note:

All three papers are three hours duration
Practical/Oral shall be based on term-work
Term-work of Seminar consist of seminar report based on project
** * Exam at the end of II term

UNIVERSITY OF PUNE
SE (COMPUTER ENGINEERING) 2003 COURSE
SE Computer Semester – I

Subject Code	Subject	Teaching Scheme		Examination Scheme				Total Marks
		Lect	Pract	Th	Tw	Pr	Or	
210241	Discrete Structures	04	—	100	—	—	—	100
210242	Electronic Devices and Circuits	03	—	100	—	—	—	100
210243	Digital Electronics and Logic Design	03	—	100	—	—	—	100
210244	Data Structures and Algorithms	04	—	100	—	—	—	100
207005	Financial and Industrial Management	04	—	100	—	—	—	100
210246	Programming Laboratory	02	04	—	25	50	—	075
210247	Digital Electronics Laboratory	—	04	—	25	50	—	075
210248	Soft Skills	—	02	—	50	—	—	50
Total		20	10	500	100	100	—	700

Semester – II

Subject Code	Subject	Teaching Scheme		Examination Scheme				Total Marks
		Lect	PR	Th	Tw	Pr	Or	
207003	Engineering Mathematics III	04	—	100	—	—	—	100
210249	Microprocessors and Interfacing Techniques	04	—	100	—	—	—	100
210250	Data Structures	04	—	100	—	—	—	100
210251	Computer Graphics	03	—	100	—	—	—	100
210252	Computer Organization	03	—	100	—	—	—	100
210253	Object Oriented Programming and Computer Graphics Laboratory	02	02	—	50	50	—	100
210254	Microprocessors and Interfacing Laboratory	—	04	—	50	50	—	100
210255	Data Structures Laboratory	—	04	—	50	50	—	100
Total		20	10	500	150	150	—	800

Th: Theory Tw: Term Work Pr: Practical Or: Oral

UNIVERSITY OF PUNE
TE (COMPUTER ENGINEERING) 2003 COURSE
TE Computer Semester I

Sub Code	Subject	Teaching Scheme		Examination Scheme				Marks
		Lect	Pract	Th	Tw	Pr	Or	
310241	Database Management Systems	03	—	100	—	—	—	100
310242	Data Communications	03	—	100	—	—	—	100
310243	Microprocessors and Micro-controllers	03	—	100	—	—	—	100
310244	Digital Signal Processing	04	—	100	—	—	—	100
310245	Theory of Computation	03	—	100	—	—	—	100
310246	RDBMS and Visual Programming Laboratory	02	04	—	50	50	—	100
310247	Signal Processing Laboratory	—	04	—	25	—	50	75
310248	Hardware Laboratory	—	04	—	25	50	—	75
Total		18	12	500	100	100	50	750

Semester II

Sub Code	Subject	Teaching Scheme		Examination Scheme				Marks
		Lect	Pract	Th	Tw	Pr	Or	
310249	Principles of Programming Languages	04	—	100	—	—	—	100
310250	Computer Networks	03	—	100	—	—	—	100
310251	Management Information Systems	03	—	100	—	—	—	100
310252	Systems Programming	03	—	100	—	—	—	100
310253	Software Engineering	03	—	100	—	—	—	100
310254	Software Laboratory	—	04	—	25	50	—	75
310255	Computer Networks Laboratory	02	04	—	25	—	50	75
310256	Software Development Tools Laboratory	—	02	—	50	—	—	50
310257	Seminar and Technical Communication	—	02	—	50	—	—	50
Total		18	12	500	150	50	50	750

Th: Theory Tw: Term Work Pr: Practical Or: Oral

**Structure of S.E.(Information Technology)
Term –I**

Subject Code No.	Subject	Teaching Scheme Hours/Week		Examination Scheme				Total Marks
		Lect	Pract	Paper	T/W	Pract	Oral	Total
210241	Discrete Structures	4	----	100	----	----	----	100
214441	Digital Electronics & Microprocessor	4	----	100	----	----	----	100
214442	Fundamentals Of Data Structures	3	----	100	----	----	----	100
210445	Management and Finance	3	----	100	----	----	----	100
214443	Programming Paradigms and Methodology	3	----	100	----	----	----	100
214444	Digital laboratory	----	4	----	50	50	----	100
214445	Programming Laboratory	----	4	----	50	50	----	100
214446	Soft skills	1	2	----	50	----	----	50
	Total	18	10	500	150	100	----	750
	Total of Part I (A)	28 Hrs.		750				

**Structure of S.E.(Information Technology)
Term – II**

Subject Code No.	Subject	Teaching Scheme Hours/Week		Examination Scheme				Total Marks
		Lect	Pract	Paper	T/W	Pract	Oral	Total
207003	Eng. Maths- III	4	----	100	----	----	----	100
214447	Microprocessor Systems	3	----	100	----	----	----	100
214448	Data Structures and Files	3	----	100	----	----	----	100
204449	Principles of Communication Engg.	3	----	100	----	----	----	100
210252	Computer Organisation	3	----	100	----	----	----	100
214450	Microprocessor Lab	----	4	----	25	50	----	75
214451	Data Structures and Files Lab.	----	4	----	25	50	----	75
214452	Object Oriented Programming Lab.	2	2	----	50	----	50	100
	Total	18	10	500	100	100	----	750
	Total of Part II (B)	28 Hrs.		750				
	Grand Total (A)+(B)			1500				

T.E. (Information Technology Course) Part-I

Sub No.	Subject	Teaching Scheme		Examination Scheme				Marks Total
		Lect	Pract	Th.	T/W	PR	OR	
		(Hrs./ Week)						
314441	Operating Systems	04	--	100	--	--	--	100
314442	Multimedia systems	04	--	100	--	--	--	100
314443	Data Communication & Networking	03	--	100	--	--	--	100
314444	Database Management Systems	04	--	100	--	--	--	100
310245	Theory of computation	03	--	100	--	--	--	100
314444	Operating System Laboratory	--	04	--	25	50	--	75
310445	Information Systems Laboratory	--	04	--	50	--	50	100
314446	Multimedia Laboratory	--	02	--	25	50		75
Total		18	10	500	100	100	50	750
Total of Part I		28 Hrs.		750 Marks				

T.E. (Information Technology Course) Part-II

Sub No.	Subject	Teaching Scheme		Examination Scheme				Marks Total
		Lect.	Pract	Th	TW	PR	OR	
		(Hrs./Week)						
314447	System Software	04	--	100	--	--	--	100
314448	Computer Network & Technology	03	--	100	--	--	--	100
310253	Software engineering	04	--	100	--	--	--	100
314449	Management Information System	03	--	100	--	--	--	100
314450	Human Computer Interface	03	--	100	--	--	--	100
314451	Software Laboratory	--	04	--	25	050	--	075
314452	Network Laboratory	1	02	--	25	--	050	075
310456	Software Development Tools Laboratory	--	04	--	50	--	-	050
314454	Seminar & technical communication	---	2	---	50	---	---	50
Total		18	12	500	150	050	050	750
Total of Part II		30 Hrs.		750 Marks				
Total of Part-I & Part-II		1500 Marks						

Detail B. E. IT Syllabus (2003)
Semester-I

Sub No.	Subject	Teaching Scheme		Examination Scheme				Marks Total
		Lect.	Pract.	Th	T/W	Pract.	Oral	
		(Hrs. Week)						
410441	Information System Security	04	02	100	050	--	50	200
410442	Advanced data Base Mgmt	04	--	100	--	--	--	100
410443	Organization & Mgmt Behavior	04	--	100	--	--	--	100
410444	Software Testing & Quality Assurance	04	--	100	--	--	--	100
410445	Elective I	04	--	100	--	--	--	100
410446	Computer Lab. Practice I	--	04	--	050	050	50	150
410448	Project Work**	--	02	--	--	--	--	--
Total		20	10	500	100	050	100	750
Total Of Part II		30 Hrs.		750 Marks				

(** It is mandatory to submit preliminary project report for the grant of the term I)

Elective I
Mobile computing
GIS & Remote Sensing

Detail B. E. IT Syllabus (2003)
Semester-II

Elective II

Sub No.	Subject	Teaching Scheme		Examination Scheme				Marks Total
		Lect.	Pract.	Th.	T/W	Pract.	Oral	
		(Hrs./Week)						
410449	System Operation & Maintenance	04	--	100	--	--	--	100
410450	Distributed Systems	04	--	100	--	--	--	100
410451	Information Retrieval	04	--	100	--	--	--	100
410452	Elective II	04	02	100	050	--	050	200
410453	Computer Laboratory Practice -II	--	04	--	050	--	050	100
410448	Project Work	--	06	--	100	--	050	150
Total		16	12	400	150	--	150	750
Total of Part II		28 Hrs.		750 Marks				
Total Of Part-I & Part-II		1500 Marks						

Artificial Intelligence
Real Time Systems

S.E. CIVIL
Semester -I

Subject Code No	Subject	Teaching Scheme Hours /week			Examination scheme Marks			
		Lect	Tut.	Prac/Drg	Paper	Term work	Pract.	Oral
201001	Engg. Mathematic –III	4	--	-	100	--	-	--
201002	Building Materials and Construction	4	-	4	100	25	-	50
201003	Strength of Material	4	-	2	100	-	-	50
201004	Engg. Geology	4	-	2	100	25	50	-
201005	Economics and Management	3	-	-	100	-	-	-
201006	Communication Skills and Technical Visits	1	--	2	-	25	-	--
	Total	20	--	10	500	100	50	100
Total Marks = 750								

S.E. CIVIL
Semester -II

Subject Code No	Subject	Teaching Scheme Hours /week			Examination scheme Marks			
		Lect	Tut.	Prac/Drg	Paper	Term work	Pract.	Oral
201007	Fluid Mechanics I	4		2	100	25		50
201008	Building Planning and Built Environment and Drawing	3	-	4	100	25	-	50
201009	Surveying I	4	-	4	100	25	50	-
201010	Concrete Technology	3	-	2	100	25	-	-
201011	Theory of Structure I	4	-	-	100	--	-	-
	Total	18		12	500	100	50	100
Total for Part II :750 Marks		Grant total of part I & II:1500 Marks						

T.E. CIVIL
Semester –I

Subject code	Subject	Teaching Scheme (Hrs)			Examination Scheme				Total Marks
		L/W	T ut.	P/D	THEORY	T/W	Pr	ORAL	
301001	Theory of Structures-II	4	-	-	100	-	-	-	100
301002	Fluid Mechanics –II	4	-	2	100	25	-	50	175
301003	Structural Design –I	4	-	4	100	25	-	50	175
301004	Geotechnical Engg.	4	-	2	100	25	-	50	175
301005	Construction Techniques and Machinery	4	-	2	100	25	-	-	125
	Total	20	-	10	500	100	-	150	750

T .E. CIVIL
Semester –II

Subject code	Subject	Teaching Scheme (Hrs)			Examination Scheme				Total Marks
		L/W	T ut.	P/D	THEORY	T/W	Pr.	ORAL	
301006	Advanced Surveying	4	-	2	100	-	50	-	150
301007	Project Management and computer applications	4	-	2	100	25	-	-	125
301008	Structural Design –II	4	-	2	100	25	-	-	150
301009	Environmental Engg. – I	4	-	2	100	-	50	50	150
3010010	Transportation Engg. I	4	-	-	100	-	-	-	100
301011	Seminar	-	-	2	-	50	-	-	50
	Total	20	-	10	500	100	100	50	750

B.E. CIVIL

Semester I

Subject Code No.	Subject	Teaching Scheme			Examination Scheme			
		Lect.	Pract.	Draw.	Paper	T.W.	Pract.	Oral
		Lect	Tut.	Prac/Drg	Paper	Term work	Pract.	Oral
401001	Hydraulic and Irrigation	4	-	-	100		-	
401002	Environmental Engg.- II	4	-	2	100	25	-	50
401003	Quantity Surveying	4	-	4	100	50	--	50
401004	Structural Design -III	4	-	2	100		-	50
401005	ELECTIVE - I	4	-	4	100		-	
401006	Project Work	-	-	2	-		--	
Total		20		10	500	50	-	150
Total Marks = 750								

B.E. CIVIL
Semester II

Subject Code No.	Subject	Teaching Scheme			Examination Scheme			
		Lect	PR	Draw.	Paper	T.W.	PR	Oral
		Lect	Tut	Prac/Drg	Paper	Term work	Pract.	Oral
401008	ELECTIVE – I I	4		2	100	-	-	50
401009	Dams & Hydraulic Structures	4		2	100	25	-	50
4010010	Transportation Engg. - II	4		2	100	25	-	50
4010011	Foundation Engineering .	4			100		-	--
401006	PROJECT WORK	-		6	-	100	--	50
Total		16		12	400	150	-	200
Total Marks = 750 + 750 = 1500								

Teaching Learning process

- Academic Calendar of the University

University of Pune



Admission Section Circular No. 123 Of 2007-2008

Sub : Dates of Commencement and conclusion of terms
for the Academic year 2007-2008.

Terms

It is hereby informed that, the dates of commencement and conclusion of the first and second term of University courses, under various faculties, for academic Year 2007-2008 Shall be as under :

For Affiliated Colleges only

Sr. No	Name of the Faculty	First Term		Second Term	
		Commence- ment	Conclu- sion	Commence- ment	Conclu- sion
1.	Arts & Fine Arts				
2.	Science	18.6.2007	31.10.2007	21.11.2007	30.4.2008
3.	Mental, Moral & Social Science	Monday	Wednesday	Wednesday	Wednesday
4.	Commerce				
5.	Law	20.6.2007	31.10.2007	21.11.2007	30.4.2008
6.	Aurved/Homeopathy	Wednesday	Wednesday	Wednesday	Wednesday
7.	Education	11.6.2007	31.10.2007	30.11.2007	30.4.2008
8.	Physical Education	Monday	Wednesday	Tuesday	Wednesday
9.	Medicine P.G. Degree & Diploma	1.5.2007	31.10.2007	1.11.2007	30.4.2008
		Tuesday	Wednesday	Thursday	Wednesday
10.	Engineering	02.7.2007	23.10.2007	1.1.2008	19.4.2008
	A. Engg. Courses	Monday	Tuesday	Tuesday	Saturday
	B. Architectue Courses	18.6.2007	20.10.2007	17.12.2007	19.4.2008
	C. M. Architectue Courses	Monday	Saturday	Monday	Saturday
		02.7.2007	05.11.2007	17.12.2007	19.4.2008
		Monday	Monday	Monday	Saturday
11.	Pharmaceutical Science	20.6.2007	31.10.2007	21.11.2007	30.4.2008
	A-B. Pham	Wednesday	Wednesday	Wednesday	Wednesday
	B-M. Pham	01.7.2007	31.12.2007	01.01.2008	30.6.2008
		Sunday	Monday	Tuesday	Monday
12.	Management	11.7.2007	13.12.2007	01.01.2008	20.5.2008
		Wednesday	Tuesday	Tuesday	Tuesday

Sho S.C. Chavhan
Sho A. Jagtap
J.S. h. Pooj

23/4

P.T.O.

Teaching Learning process

➤ Academic Time Table:-

Teaching Learning process

- Teaching Load of each Faculty

Dept- Science and Humanities

Staff wise Load Information 2007-2008

Sr. No.	Name of Staff	Semester	Theory Load	Practical Load	Total Load
1	Prof. Jadhav R.A.	Sem. - I	6	9	15
2	Prof Mrs. Mokashi S.S.	Sem. - I	6	9	15
3	Prof. Pawar J.Y.	Sem. - I	6	9	15
4	Prof. Miss.Shinde V.K.	Sem. - I	6	9	15
5	Prof Chougule V.A.	Sem. - I	14	-	14
6	Prof Gulumkar U.C.	Sem. - I	14	-	14
7	Prof.Ballal S.B.	Sem. - I	14	-	14
8	Prof. Jagtap A.V	Sem. - I	4	10	14
9	Prof. Gutte S.A.	Sem. - I	4	10	14
10	Prof. Mahindrakar V.N.	Sem. - I	4	10	14
11	Prof. Ingale P.D	Sem. - I	4	10	14
12	Prof. Parkale P.H.	Sem. - I	4	10	14
13	Prof. Jagtap U.S.	Sem. - I	4	10	14
14	Prof. Kate G.K.	Sem. - I	6	6	12
15	Prof. Mirgane R.B.	Sem. - I	3	6	9
16	Prof. Bhosale S.R.	Sem. - I	3	6	9
17	Prof. Shelar V.V.	Sem. - I	6	12	18
18	Prof. Jagtap P.S.	Sem. - I	-	6	6
19	Prof. Mangate S.D.	Sem. - I	6	12	18
20	Prof. Gawade S.A.	Sem. - I	6	12	18
21	Prof. Mudhol D.V.	Sem. - I	6	12	18

Department of Mechanical Engineering

LOAD DISTRIBUTION

SEMESTER – I (2007-08)

21/08/07

Name of Staff	F.E.	S.E. (A)	S. E. (B)	T.E. (A)	T.E. (B)	B. E. (A)	B. E. (B)	Proj	Total
MKP			AT (0+8)			ELECT (4+0)		2	14
Prof. Manglik			AT (4+0)					2	06
ADB		MP- I (3+0) WP –III (0+2)						2	07
RDD						ELECT (4+0)			04
KBG (MTX)						MTX (4+6)	MTX (4+0)	2	16
SSP (CAD)						MSD (4+6)	MSD (4+0)	2	16
VBP (DOM)						DOM (4+6)	DOM (4+0)	2	16
VBG (IC)		AT – I (4+8)	AT – I (4+0)						16
VDN (TOM)				TMM – II (4+8)			MSD (0+2)	2	16
DPA (CAD)			MD (0+4)		CONM (4+8)			2	18
VCT (HT)					HT (4+8) WP-IV (0+4)			2	18
AVJ (BME)	BME (3+6) EG –I (1+6) WP- I (0+2)								18
PJS (TOM)		SME (4+0) WP-III (0+2)	SME (4+0) MD (0+4)					2	16
MRB (FM)		FM (4+8)	WP – III (0+4)						16
ARS (CAD)			WP – III (0+4)	CONM (4+8)				2	18

Name of Staff	F.E.	S.E. (A)	S. E. (B)	T.E. (A)	T.E. (B)	B. E. (A)	B. E. (B)	Proj	Total
SAG (SCR)	BME (3+6) EG -I (1+6) WP- I (0+2)								18
PDI (BME)	BME (3+6) EG -I (1+6) WP- I (0+2)								18
AST (MQC)				WP-IV (0+2)	IEM (4+0) WP-IV (0+2)		MTX (0+6)	2	16
SBT (MET)			FM (4+8) MP- I (3+0)					2	17
VBR (DOM)				DME (4+8)			DOM (0+6)		18
AMJ (RAC)				HT (4+8)	WP-IV (0+2)			2	16
SDJ (IFP)		MD (0+4)			TMM - II (4+8)				16
USJ (SCR)	BME (3+6) EG -I (1+6) WP- I (0+2)								18
VNM (SCR)	BME (3+6) EG -I (1+6) WP- I (0+2)								18
PHP (MQC)	BME (3+6) EG -I (1+6)								16
SKP (IC)	WP- I (0+2)	WP-III (0+4)				GTJP (4+0)	GTJP (4+0)	2	16
AAK (SCR)					DME (4+8)		MSD (0+4)		16
Pisal H C.		MD (1+12)	MD (1+4)						18
Zende			MD (0+4)	IEM (4+0) WP-IV (0+6)				2	16

DEPT OF E&TC. ENGINEERING

STAFF WORK LOAD-2007-08

Load Distribution for Academic Year 2007-08

(SEM-I)

Sr.No.	Name of the Staff	TH	PR	TOTAL
1.	Prof. Patil A.A	04	08	12
2.	Prof. Doshi N.A	06	08	14
3.	Prof. Jambhale A.S	03	-	03
4.	Prof. Wani A.B	08	08	16
5.	Prof. Dixit S.B	04	12	16
6.	Prof. Kadam M N	04	12	16
7.	Prof. Mangale S A	04	12	16
8.	Prof.Rahulkar A D	08	08	16
9.	Prof. Yadav S.N	04	12	16
10.	Prof. Gaikwad S.G	06	08	14
11.	Prof. Dhaigude N. B	04	12	16
12.	Prof. Kale S.D	04	12	16
13.	Prof. Kamble B.S	04	12	16
14.	Prof. Borate S.P.	07	08	15
15.	Prof. Parkale Y.V	04	12	16
16.	Prof.Jagtap K G	04	12	16
17.	Prof.Hanchate A.V	04	12	16
18.	Prof. Vinkare P.K.	04	12	16
19.	Prof.Shaikh J.H	04	12	16
20.	Prof.Patil R. K.	04	14	18
21.	Prof. Thorat S.D.	07	08	15
22.	Prof. Dayde H.K	04	14	18
23.	Prof.Pokarkar S.B.	04	12	16

DEPT OF COMPUTER ENGINEERING
STAFF WORK LOAD-2007-08

Sr. No.	Name of Staff	Semister	Theory Load	Practical Load	Total Load
1	Prof. Pawar V.D.		03	10	13
2	Prof. Rumale A. S.	I	08	06	14
		II			
3	Prof Mhaske V. D.	I	03	14	17
		II			
4	Prof. Waykule V. V.	I	05	14	19
		II			
5	Prof Kumbhar H. R.	I	07	08	15
		II			
6	Prof Patil D. S.	I	06	14	20
		II			
7	Prof Vedpathak V. M.	I	07	08	15
		II			
8	Prof Karande V.H.	I	08	08	16
		II			
9	Prof Bankar S. P.	I	04	14	18
		II			
10	Prof Chatse R.V..	I	07	08	15
		II			
11	Prof. Mandhare Y.S.	I	06	11	17
		II			

DEPT OF INFORMATION TECHNOLOGY**STAFF WORK LOAD 2007-08**

Sr. No.	Name of Staff	Semister	Theory Load	Practical Load	Total Load
1	Prof. Mali J.N.	I	4	8	12
		II			
2	Prof. Pawar A.H.	I	4	12	16
		II			
3	Prof. Gawade J.S.	I	4	12	16
		II			
4	Prof. Taware S.N.	I	8	8	16
		II			
5	Prof. Gawali A.B.	I	8	8	16
		II			
6	Prof. Waghmare	I	8	8	16
		II			
7	Prof. Nale R.K.	I	8	10	18
		II			
8	Prof. Jadhav	I	5	10	15
		II			
9	Prof. Narote	I	4	12	16
		II			
10	Prof. Madane	I	8	8	16
		II			

DEPT. CIVIL ENGINEERING
TEACHING LOAD 2007-08

SR NO	NAME OF STAFF	SEMESTER	THEORY LOAD	PRACTICAL LOAD	TOTAL LOAD
1	N.P .PINGALE	I	08	10	18
		II	09	18	27
2	S.B.MORE	I	04	06	10
		II	05	14	19
3	V.S SHINGADE	I	08	06	14
		II	09	14	23
4	P.K.KHALATE	I	05	08	13
		II	09	14	23
5	S.R BHOSALE	I	07	08	15
		II	08	10	18
6	Y.L.BHIRUD	I	04	10	14
		II	08	16	24
7	S.S JAHAGIRDAR	I	08	08	16
		II	07	20	27
8	R.B.MIRGANE	I	07	10	17
		II	08	14	22
9	P.S.JAGTAP	I	04	14	18
		II	09	14	23
10	G.K.KATE	I	09	06	15
		II			
11	V.V.SHELAR	I	06	12	18
		II	09	10	19

➤ Students' assessment of Faculty, System in place (Feedback) :-

S.V.P.M. COLLEGE OF ENGINEERING Malegaon (Bk)

STUDENTS' FEED BACK FORM

Class :

Year :

Subject :

Name of teacher :

INSTRUCTIONS : The Students should tick (✓) appropriate choice against each item

1. Knowledge of the subject
 - a] Exceedingly well informed
 - b] Adequately informed
 - c] Not well informed
 - d] Scantly informed
2. Ability to explain :
 - a] Clearly and well defined
 - b] Adequate
 - c] Inadequate
 - d] Totally inadequate
3. Planning and preparation towards the lectures
 - a] Well organised lecture with clear objectives
 - b] Adequate planning
 - c] Inadequate Planning
 - d] Lack of Planning and totally unorganised
4. Presentation and use of teaching aids
 - a] Effective use of teaching aids :
Board transparencies, charts and others
 - b] Adequate use of teaching aids
 - c] Excessive use of teaching aids
 - d] Never uses teaching aids other than black board and chalk
5. Use of examples and cases to clarify concept
 - a] Judicious use of practical examples and cases
 - b] Adequate
 - c] Very few
 - d] None
6. Punctuality in academic work
 - a] Always punctual
 - b] Usually punctual
 - c] Rarely punctual
 - d] Never punctual
7. Assignment and test
 - a] Clearly and well defined assignment right number and well defined.
 - b] Clear but too many and too long assignment
 - c] Unclear and ill defined assignment
 - d] Never bothered above type of assignment and number.
8. Fair and impartial towards students :
 - a] Always fair and impartial
 - b] Usually fair
 - c] Rarely fair
 - d] Always unfair
9. Opportunity for questions and discussions
 - a] Ample opportunity and encouragement to ask questions and clear their doubts
 - b] Occasional opportunity
 - c] Rare opportunity
 - d] Never
10. Stimulate thinking
 - a] Always
 - b] Frequently
 - c] Fair
 - d] Poor
11. Over all rating of the teacher
 - a] Very good
 - b] Good
 - c] Fair
 - d] Poor
12. Any other suggestion
 - a] a.
 - b] b
 - c] c.
 - d] d.

For each Post Graduate programme give the following :- Not Applicable