

# **Mandatory Disclosure : 2008 - 2009**

Mandatory Disclosure by Institutions running AICTE approved Engineering/Technology/Pharmacy programmes to be included in their respective Information Brochure, displayed on their website and to be submitted to AICTE every year latest by 30<sup>th</sup> 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**

D.N.Patel College of Engineering, Shahada.  
Dist: Nandurbar (M.S)  
Pin: 425409  
Tel. No: (02565) 223649, 223740  
Fax No.: (02565) 223649, Ext.: 54  
Web site : coeshahada.com  
E-Mail : principal@coeshahada.com

## **II. Name & Address of the Director**

Prof. P. D. Patil  
Principal,  
Tel. No: (02565) 223649 (Office)  
223730 (Resi.)  
Fax No.: (02565) 223649, Ext.: 54  
E-Mail : pdpatilco@rediffmail.com

## **III. Name of the Affiliating University**

North Maharashtra University, Jalgaon

#### IV. Governance

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

**(1) Shri. Annasaheb P. K. Patil**  
**President**

A veteran freedom fighter, social reformer, pioneering personality in the field of cooperation in the State of Maharashtra, an active politician and educationalist. At present, He is chairman of Loknayaak Jaiprakash Narayan Sah. Sootgirani, Untawad, chairman of The Kisan Starch Factory Biladi. Dhule. And Chairman of Shri Satpuda Tapi Parisar Sahakari Sugar Factory of Purushottamnagar

**(2) Shri. Tukaram Ramdas Patil**  
**Vice-President**

Ex-Chairman of our co-operative Spinning mills. He was honored as Adivasi Sevak by Government of Maharashtra.

**(3) Sau. Kamaltai P. Patil**  
**Secretary**

Honourary Secretary of our Poojya Sane Guruji Vidya Prasarak Mandal and she is also associated with the cooperative units such as Chairperson of the Janata Sahakari Bank of Nandurbar.

**(4) Dr. D. K. Sonar**  
**Co-ordinator (Academic & General Administration)**

A noted educationalist and renowned Professor of English having a Ph.D. in English, a Ph.D. in Linguistics and a D. Litt. In Stylistics. As the Commonwealth Literary Fellow he was Post Doctoral Researcher at the Leval University , Ganada and as the Fulbright Scholar at the University of Bearkeley, South California. He was visiting Professor of English and Linguistics at the Indian Institute of Language, manasgangotri of Mysore.

**(5) Shri. P. R. Patil**  
**Co-ordinator (Finance & Construction)**

Basically a Civil Engineer with Post Graduate Diploma in Management. At present he is Managing Director of the Satpuda Sugar Factory Purushottamnagar.

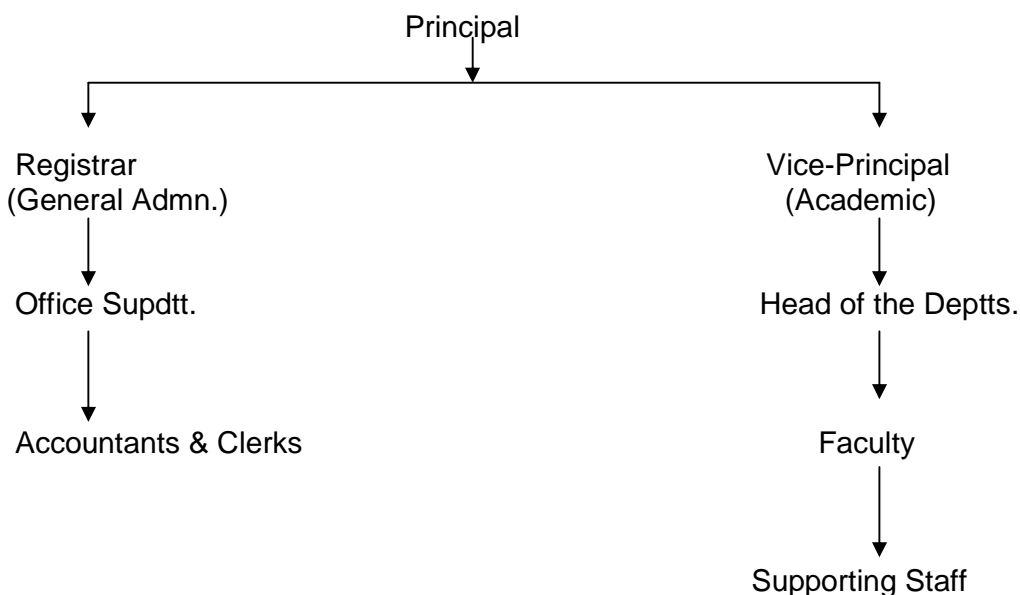
##### ❖ **Members of Academic Advisory Body**

(1) Shri. Annasaheb P. K. Patil	President
(2) Shri. Tukaram R. Patil	Vice-President
(3) Sau. Kamaltai P. Patil	Secretary
(4) Dr. D. K. Sonar	Co-ordinator (Aca. & Gen. Adm.)
(5) Shri. P. R. Patil	Co-ordinator(Finance & Construction)
(6) Prof. P. D. Patil	Principal

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

4 to 6 per year

❖ **Organizational chart and processes**



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

For improvement of the academics , the feedback is collected form the students by the faculty. The issues are discuss in the department meeting and recommendations are submitted to the Principal for consideration.

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

Every year special meeting of all faculty along with the members of the management is arranged. The suggestions from the faculty is discussed and implemented after approval of management council.

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

Periodically students feedback is collected in special format to know the performance of the faculty.

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

Grievance committee is having 4 meetings per year for redressal of grievances of faculty, staff and students.

## I. PROGRAMMES

### ❖ Name of the Programmes approved by the AICTE

1. Civil Engineering
2. Instrumentation
3. Electronics and Telecommunication Engineering
4. Mechanical Engineering
5. Electrical Engineering
6. Computer Engineering
7. Information Technology

### ❖ Name of the Programmes accredited by the AICTE

1. Civil Engineering
2. Electronics and Telecommunication Engineering
3. Mechanical Engineering
4. Instrumentation

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

- **Name** : **Civil Engineering**
- Number of seats : 30 Seats
- Duration : 4 Years
- Cut off mark/rank for admission during the last three years (50 % in PCM for open category and 45 % for reserve category)

Year	Cut off Percentage
2005-06	45.66
2006-07	53 (CET score)
2007-08	40 (CET score)
2008-09	Admissions are in progress

- Fee : Rs. 28490 /- Per Annum
- Placement Facilities : Yes
- Campus placement in last three years with minimum salary, maximum salary and average salary

Year	No. of Placements	Min Salary	Max Salary	Average Salary
2005-06	06	6000/- pm	12000/- pm	8000/- pm
2006-07	05	8000/- pm	15000/- pm	12000/- pm
2007-08	2	10000/- pm	18640/- pm	14320/- pm

- Name : **Instrumentation**
- Number of seats : 60
- Duration : 4 Years
- Cut off mark/rank for admission during the last three years (50 % in PCM for open category and 45 % for reserve category)

Year	Cut off Percentage
2005-06	47.33
2006-07	45 (CET score )
2007-08	14 (CET score )
2008-09	Admissions are in progress

- Fee : Rs. 28490 /- Per Annum
- Placement Facilities : Yes
- Campus placement in last three years with minimum salary, maximum salary and average salary

Year	No. of Placements	Min Salary	Max Salary	Average Salary
2005-06	10	5000/- pm	15000/- pm	10000/- pm
2006-07	13	7000/- pm	18000/- pm	12000/- pm
2007-08	1	15000/- pm	15000/- pm	15000/- pm

- Name : **Electronics and Telecommunication Engineering**
- Number of seats : 60
- Duration : 4 Years
- Cut off mark/rank for admission during the last three years (50 % in PCM for open category and 45 % for reserve category)

Year	Cut off Percentage
2005-06	53.33
2006-07	46 (CET score )
2007-08	49 (CET score)
2008*09	Admission are in progress

- Fee : Rs. 28490 /- Per Annum
- Placement Facilities : Yes
- Campus placement in last three years with minimum salary, maximum salary and average salary

Year	No. of Placements	Min Salary	Max Salary	Average Salary
2005-06	12	6000/- pm	18000/- pm	12000/- pm
2006-07	15	9000/- pm	21000/- pm	13000/- pm
2007-08	4	12500/- pm	18640/- pm	17105/- pm

- Name : **Mechanical Engineering**
- Number of seats : 60
- Duration : 4 Years
- Cut off mark/rank for admission during the last three years  
50 % for open category and 45 % for reserve category

Year	Cut off Percentage
2005-06	45.66
2006-07	42 (CET score )
2007-08	50 (CET score )
2008-09	Admissions are in progress

- Fee : Rs. 28490 /- Per Annum
- Placement Facilities : Yes
- Campus placement in last three years with minimum salary, maximum salary and average salary

Year	No. of Placements	Min Salary	Max Salary	Average Salary
2005-06	08	6000/- pm	25000/- pm	12000/- pm
2006-07	12	8000/- pm	25000/- pm	12000/- pm
2007-08	4	18640/- pm	20000/- pm	19320/- pm

- Name : **Electrical Engineering**
- Number of seats : 30
- Duration : 4 Years
- Cut off mark/rank for admission during the last three years  
(50 % in PCM for open category and 45 % for reserve category)

Year	Cut off Percentage
2005-06	55.00
2006-07	44 (CET score )
2007-08	69 (CET score )
2008-09	Admissions are in progress

- Fee : Rs. 28490 /- Per Annum
- Placement Facilities : Yes
- Campus placement in last three years with minimum salary, maximum salary and average salary

Year	No. of Placements	Min Salary	Max Salary	Average Salary
2005-06	05	6000/- pm	12000/- pm	9000/- pm
2006-07	10	7500/- pm	16000/- pm	12000/- pm
2007-08	7	18640/- pm	40000/- pm	30833/- pm

- Name : **Computer Engineering**
- Number of seats : 60
- Duration : 4 Years
- Cut off mark/rank for admission during the last three years (50 % in PCM for open category and 45 % for reserve category)

Year	Cut off Percentage
2005-06	48.33
2006-07	46 (CET score )
2007-08	71 (CET score )
2008-09	Admissions are in progress

- Fee : Rs. 28490 /- Per Annum
- Placement Facilities : Yes
- Campus placement in last three years with minimum salary, maximum salary and average salary

Year	No. of Placements	Min Salary	Max Salary	Average Salary
2005-06	10	8000/- pm	20000/- pm	15000/- pm
2006-07	15	11000/- pm	25000/- pm	18000/- pm
2007-08	7	13000/- pm	18640/- pm	17834/- pm

- Name : **Information Technology**
- Number of seats : 30
- Duration : 4 Years
- Cut off mark/rank for admission during the last three years (50 % in PCM for open category and 45 % for reserve category)

Year	Cut off Percentage
2005-06	45.66
2006-07	41 (CET score )
2007-08	48 (CET score )
2008-09	Admissions are in progress

- Fee : Rs. 28490 /- Per Annum
- Placement Facilities : Yes
- Campus placement in last three years with minimum salary, maximum salary and average salary

Year	No. of Placements	Min Salary	Max Salary	Average Salary
2005-06	14	8000/- pm	20000/- pm	15000/- pm
2006-07	10	11000/- pm	23000/- pm	16000/- pm
2007-08	2	15000/- pm	18640/- pm	16805/- pm

- ❖ **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**

**Details of the Foreign Institution/University: ----**

- Name of the University / Institution: ---
- Address : --
- Website : --
- Is the Institution/University Accredited in its Home Country : ---
- Ranking of the Institution/University in the Home Country : ---
- Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country. : ---
- Nature of Collaboration : ---
- Conditions of Collaboration : ---
- Complete details of payment a student has to make to get the full benefit of collaboration. : ---

- ❖ **For each Collaborative/affiliated Programme give the following :-**

**: NOT APPLICABLE**

- Programme Focus : ---
- Number of seats : --
- Admission Procedure :---
- Fee : ---
- Placement Facility : --
- Placement Records for last three years with minimum salary, maximum salary and average salary : ---

- ❖ **Whether the Collaborative Programme is approved by AICTE? If not whether the Domestic/Foreign Institution has applied to AICTE for approval as required under notification no. 37-3/Legal/2005 dated 16<sup>th</sup> May, 2005 : ---**

## VI. Faculty

### Branch :- Civil Engineering

Sr.No.	Name of faculty members
1	Prof. S.J. Dahiwelkar
2	Prof. Sunil Chopra
3	Prof. S.U. Chaudhari
4	Prof. M.S. Raghu-wanshi
5	Prof. C.P. Patel
6	Prof. S.C. Sharma
7	Prof. S.R. Patil
8	Prof. I. T. Patil
9	Mrs.M. C. Wagh
10	R. A. More
11	Prof. P. P. Patil

- Permanent Faculty :- 11
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1:4.81

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

Year	Employed During the Year	Left During the Year
2005-06	---	---
2006-07	---	---
2007-08	03	04
2008-09	1	--

❖ **Branch :- Instrumentation Engineering**

<b>Sr.No.</b>	<b>Name of faculty members</b>
1	Prof. M.N. Patel
2	Prof. N.J. Patil
3	Prof. R. S. Patil
4	Prof. Bharat. R. Patil
5	Prof. K. Y. Chaudhari
6	Prof. M. J. Patil
7	Prof. S. N. Chaudhari
8	Prof. H.B. Patel
9	Prof. Bhojraj R. Patil
10	Prof. G.R. Chaudhari
11	Prof. P.D. Patel
12	Prof. V.S.. Patil

- Permanent Faculty :- 12
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1:7.75

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

<b>Year</b>	<b>Employed During the Year</b>	<b>Left During the Year</b>
2005-06	05	01
2006-07	02	02
2007-08	--	--
2008-09	01	--

❖ **Branch :- Electronics and Telecommunication Engineering**

<b>Sr.No.</b>	<b>Name of faculty members</b>
1	Prof.V.K. Patil
2	Prof. S. G. Bari
3	Prof. K. P. Jadhav
4	Prof. Miss.V.M. Badwaik
5	Prof. Mrs. J.H. Patil
6	Prof. S. P. Patil
7	Prof. N.C. Patil
8	Prof. P.B. Patil
9	Ms H.A. Jain
10	Prof.Tanjim Ahmed
11	Prof. V. B. Nerkar
12	Mrs. S. D. Suryawanshi
13	Prof. G. G. Bhadane
14	Prof. Ms. Pritam R. Patel
15	Prof. Jagdish A. Patel

- Permanent Faculty :- 15
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1:9.93

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

Year	Employed During the Year	Left During the Year
2005-06	---	01
2006-07	03	--
2007-08	01	03
2008-09	05	03

❖ **Branch :- Mechanical Engineering**

**List of faculty members :-**

<b>Sr.No.</b>	<b>Name of faculty members</b>
1	Prof. P. D. Patil
2	Prof. S. U. Patel
3	Prof. D.M.. Patil
4	Prof. R.S. Chaudhari
5	Prof. K. T. Patil
6	Prof. M.H. Patil
7	Prof. C.C. Patel
8	Prof. A.S. Patil
9	Prof. G. A. Chaudhari
10	Prof. N. A. Patil
11	Prof. D.S. Chaudhari
12	Prof. V.D. Patil
13	Prof. N.P. Patil
14	Prof. H. K. Chavan
15	Prof. N. D. Patel

- Permanent Faculty :- 15
- Visiting Faculty :- ---
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :-- 1 : 11.53
- Number of faculty employed and left during the last three years

Year	Employed During the Year	Left During the Year
2005-06	----	01
2006-07	03	03
2007-08	04	03
2008-09	04	01

❖ **Branch :- Electrical Engineering**

<b>Sr.No.</b>	<b>Name of faculty members</b>
1	Prof. Mrs. K.A.Patel
2	Prof. V. R. Patil
3	Prof.K.G.Girase
4	Prof. Prashant R. Patil
5	Prof. R.P. Padme
6	Prof. S.M. Wankhede
7	Prof. L. N. Patil
8	Prof. Pratik. D. . Patil
9	Prof. S. D. Patil
10	Prof. P. R. Pawar
11	Prof. H. S. Patel

- Permanent Faculty :- 11
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1 : 8.45

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

<b>Year</b>	<b>Employed During the Year</b>	<b>Left During the Year</b>
2005-06	----	01
2006-07	02	---
2007-08	03	04
2008-09	05	--

❖ **Branch :- Computer Engineering & Information Technology**

<b>Sr.No.</b>	<b>Name of faculty members</b>
1	Prof. Miss. B. J. Patil
2	Prof. P. R. Patil
3	Prof. Miss. P.S. Patil
4	Prof. V.S. Mahajan
5	Prof. I. A. Khan
6	Prof. S. H. Shaikh
7	Prof.A. B. Koli
8	Prof.V. I. Menon
9	Prof. V. O. Patil
10	Prof. R. A. Shaikh
11	Prof. Miss. S. P. Shisode
12	Prof. Miss. P. N. Patil
13	Prof. Miss. P. K. Patil
14	Prof A. I. Pathan
15	Prof. V. T. Patil
16	Prof. Miss. P. A. Patil
17	Prof. Ashpak Khan
18	Prof. D. B. Shukla

- Permanent Faculty :- 18
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1 : 12.38

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

<b>Year</b>	<b>Employed During the Year</b>	<b>Left During the Year</b>
2005-06	05	05
2006-07	05	04
2007-08	05	09
2008-09	09	02

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

For each Faculty give a page covering



- 1 Name** : P. D. Patil  
**2 Date of Birth** : 01/06/1955  
**3 Educational Qualification** : B.E(Mech.) , M.E(Mech.)  
**4 Work Experience** : Ph.d (Appear)  
Teaching : 24 Years  
Research : 02 Years  
Industry : 1.5 Years  
Others : -----
- 5 Area of Specializations :**  
Production (Management System)
- 6 Subjects teaching :**  
At Under Graduate Level  
1) Engineering Drawing  
2) Work Shop Technology  
3) Production Technology  
4) Plant Layout and material handling  
5) Industrial Engineering and management  
At Post Graduate Level : ----
- 7 Research guidance** : ----  
Masters's  
Ph.D.
- 8 No. of papers published in**  
National Journals : 05  
International Journals : ----  
Conferences : 15
- 9 Projects Carried out** : Investigation on Processes of Sugar Factory
- 10 Patents** : ----
- 11 Technology Transfer** : ----
- 12 Research Publications** : Study of die deformation in extrusion process using computer simulation technique.
- 13. No. of Books published with details** : 1) Machine Drawing by Vrinda Publication, Jalgaon.  
2) Elements of Mechanical Engineering Lokpriya Publication , Dhule

VIII. Fee :-

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

Tution Fee :- 28490 /-

Total Fee : 28490 /-

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

Yearly, Installments are granted to the students from economically weaker section.

❖ **No. of Fee waivers granted with amount and name of students.**

Concession in tution fee is granted to all eligible student as per the guidelines of the Govt. of Maharashtra.

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

Sr. No.	Type of Scholarship	No. of Students	Duration (Year)	Amount per Student
1	SBC- Free ship	4	1 Year	14895
2	SBC- GOI	5	1 Year	23800
3	SC-GOI	34	1 Year	34890
4	SC-Free ship	16	1 Year	29790
5	OBC-GOI	253	1 Year	16795
6	NT/VJ - Free ship	14	1 Year	29780
7	NT/VJ -GOI	19	1 Year	31690
8	ST / Freeshipl	04	1 Year	29760
9	ST	11	1 Year	33560
10	STW	16	1 Year	4000
11	PTW	05	1 Year	4000
12	EBC	35	1 Year	14245
13	Ex Military Man	--	1 Year	--
14	Handicapped	--	1 Year	--
15	OBC Scholarship freeship	55	1 Year	14520

❖ **Criteria for fee waivers/scholarship.**

As per the Government rule .

❖ **Estimated cost of Boarding and Lodging in Hostels.**

Boarding charges :- Rs. 850 /- per month

Lodging Charges :- Rs. 7,000 /- per annum

## IX. ADMISSION :-

Number of seats sanctioned with the year of approval.

Programme	Sanctioned Intake
Civil	30
Instrumentation	60
Electronics and Telecommunication	60
Mechanical	60
Electrical	30
Computer	60
Information Technology	30

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

### Year of admission :- 2005-06

Sr. No.	Course	SC	ST	VJ	NT	SBC	H/Cap	OBC	OPEN
1	Civil	--	02	--	01	--	--	06	11
2	Instrumentation	---	01	--	--	---	---	12	22
3	E & TC	01	---	--	03	---	--	11	41
4	Mechanical	03	--	--	03	---	--	15	33
5	Electrical	---	--	--	01	--	--	06	18
6	Computer	06	--	--	02	--	01	09	40
7	Info. Tech.	01	--	---	---	---	--	08	19

### Fist Year Engg. Admission For the Academic Year of admission :- 2006-07

S. No.	Course	SC	ST	VJ	NT	SBC	H/Cap	OBC	OPEN
1	Civil	--	01	--	--	--	--	10	13
2	Instrumentation	02	03	--	01	--	--	31	19
3	E & TC	05	02	--	03	--	--	25	25
4	Mechanical	01	01	--	03	--	--	26	29
5	Electrical	01	--	--	01	--	--	13	15
6	Computer	05	01	01	03	01	--	19	31
7	Info. Tech.	04	01	--	01	--	--	08	16

**Year of admission :- 2007 - 2008**

Sr. No.	Course	SC	ST	VJ	NT	SBC	H/Cap	OBC	OPEN
1	Civil	--	--	--	01	--	--	15	14
2	Instrumentation	03	--	--	04	--	--	28	25
3	E & TC	04	02	--	02	--	--	28	24
4	Mechanical	04	02	--	03	01	--	27	23
5	Electrical	02	--	--	--	01	--	14	13
6	Computer	05	01	--	05	--	--	28	21
7	Info. Tech.	01	02	01	02	--	--	17	07

\* Data for 2008-2009 is not given because the Admissions of first year are still in progress.

**No. of applications received during last two years for admission under Management Quota and number admitted.**

Programme	Application received			Admitted		
	2005-06	2006-07	2007-08	2005-06	2006-07	2008-09
Civil	06	06	06	06	06	06
Instrumentation	12	09	12	12	09	12
E & Tele comm.	12	12	12	12	12	12
Mechanical	11	12		11	12	
Electrical	06	06	06	06	06	06
Computer	12	12	12	12	12	12
Info. Tech.	06	06	06	06	06	06

\* Data for 2008-2009 is not given because the Admissions of first year are still in progress.

## X. Admission Procedure :-

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

Admission process is carried out by state government as per the schedule declared by Director of Technical Education.

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

CET	:	65 %
AIEEE	:	15 %
Management	:	20 %

- ❖ **Calendar for admission against management/vacant seats:**

( Admissions are in progress, unable to fillup the dates.)

- Last date for request for applications. :-
- Last date for submission of application.:-
- Dates for announcing final results. :-
- Release of admission list (main list and waiting list should be announced on the same day) :-
- Date for acceptance by the candidate (time given should in no case be less than 15 days) :-
- Last date for closing of admission. :-
- Starting of the Academic session. :-
- The waiting list should be activated only on the expiry of date of main list.
- The policy of refund of the fee, in case of withdrawal, should be clearly notified. :- refund of fees will be as per the directives given by the Director of Technical Education

## XI. Criteria and Weight ages for Admission :

- Describe each criteria with its respective weightages i.e. Admission Test, marks in qualifying examination etc. :-  
as per the directives given by the Director of Technical Education
- Mention the minimum level of acceptance, if any.  
Minimum 50 % marks in PCM and 45 % for reserve category at HSC (Science) examination.
- Mention the cut-off levels of percentage & percentile scores of the candidates in the admission test for the last three years. :- ----

Programme	2005 - 06		2006 – 07 MH-CET Score basic		2007 – 08 MH-CET Score basic	
	H	L	H	L	H	L
<b>Civil</b>	72.33	45.66	087.00	53.00	94	40
<b>Instrumentation</b>	84.66	47.33	121.00	45.00	93	14
<b>E &amp; Tele comm.</b>	89.33	53.33	124.00	46.00	119	49
<b>Mechanical</b>	86.00	45.66	106.00	42.00	131	50
<b>Electrical</b>	72.33	55.00	94.00	44.00	97	69
<b>Computer</b>	85.66	48.33	139.00	46.00	140	71
<b>Info. Tech.</b>	83.00	45.66	113.00	41.00	101	48

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

Item No I - XI must be given in information brochure and must be hosted as fixed content in the website of the Institution.

The Website must be dynamically updated with regard to XII–XV.

## **XII. Application Form**

Downloadable application form, with online submission possibilities.

## **XIII. List of Applicants**

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

: Separate List is attached in **Appendix No. 1**

## **XIV. Results of Admission under Management Seats/Vacant Seats**

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

: Admission Committee

- |                              |             |
|------------------------------|-------------|
| (1) R. G. Patil              | :- Chairman |
| (2) Mrs. M. S. Chaudhari     | :- Member   |
| (3) Mrs. J. H. Patil         | - Member    |
| (4) K. Y. Chaudhari          | :- Member   |
| (5) Shri. C. R. Patil (Reg.) | :- Member   |

Score of the individual candidates admitted arranged in order of merit.

: Separate List is attached in **Appendix No. 1**

List of candidates who have been offered admission.

: Separate List is attached in **Appendix No. 1**

Waiting list of the candidates in order of merit to be operative from the last date of joining of the first list candidates: -----

List of the candidates who joined within the date, vacancy position in each category before operation of waiting list.

: Separate List is attached in **Appendix No. 1**

## XV. Information on infrastructure and other resources available Library:

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

### **Programme :- Civil Engineering**

Books available :- 5412  
Titles :- 780  
Journals :- National :- 12  
International:- 02

### **Programme :- Instrumentation**

Books available :- 1531  
Titles :- 315  
Journals :- National :- 01  
International :- 00

### **Programme :- Electronics and Telecommunication Engineering**

Books available :- 4697  
Titles :- 1060  
Journals :- National :- 05  
International :- 06

### **Programme :- Mechanical Engineering**

Books available :- 4537  
Titles :- 960  
Journals :- National :- 12  
International :- 03

### **Programme :- Electrical Engineering**

Books available :- 2719  
Titles :- 490  
Journals :- National :- 04  
International :- 01

### **Programme :- Computer Engineering and information Technology**

Books available :- 3238  
Titles :- 1350  
Journals :- National :- 05  
International :- 02

### **Humanities & Basic Sciences :-**

Books available :- 7115  
Titles :- 840  
Journals :- National :- 05  
International :-

- List of online National/International Journals subscribed. :- **NIL**
- E-Library facilities :- **NIL**

## LABORATORY:

For each Laboratory

- List of Major Equipment/Facilities
- List of Experimental Setup

## DEPARTMENT :- CIVIL ENGINEERING

### 1) Name of Laboratory :- Material Testing Lab.

List Of Major Equipments :- (Costing more than 50,000 Rs.)

i) Universal testing machine

#### List of experimental set up

- Tension test on steel wire by Searl's apparatus.
- Hardness test on metal.
- Modulus of elasticity of simply supported beam.
- Sher test on metal by Universal testing machine.
- Buckling load on column.
- Unsymmetrical bending apparatus.
- Torsion test on metal
- Flexural test on file.

### 2) Name Of Laboratory :- Surveying Lab.

List Of Major Equipments :- (Costing More Than 50000 Rs.) :

- Total station (Pentax- mode R-326)

#### List of experimental set up

- Chaining and ranging a line with location sketches of stations.
- Observation of bearing and calculations of included angles.
- Leveling by rise and fall collimation method.
- Plane table survey of a closed traverse of min. four sides.
- Solution Of Three Points Problem In Plane Tabling.
- Setting Out Of Circular Curve .
- Use Of Box Sextant And Abney Level .
- Study Of Indian Pattern Clinometer And Pentagraph.
- Theodolite Traverse Survey Project.
- Tacheometric Contouring Projects.
- Study Of One Second Theodolite.
- Hydrographic Survey - Study Of Nautical Sextant .
- Study Of Mirror Stereoscope.
- Study Of EDM .

## 0) ENVIRONMENTAL ENGG. LAB.

**List of major equipments :-** (Costing more than 50,000 Rs.) : NIL

### **List of experimental set up**

- Determination of various forms of alkalinity .
- Determination of turbidity and optimum dose of alum.
- Determination of chloride demands.
- Determination of chloride, fluoride and sulphate.
- M.P.N. T est.
- Dissolve oxygen and B.O.D.
- Determination of solids.- Total, suspended volatile, settable and non-settable.
- C.O.D.
- Conductivity and microscopic study of organism.
- Design of pipeline for domestic housing.

## 4) GEOTECHNICAL ENGINEERING LAB.

**List of major equipments :-** (Costing more than 50,000 Rs.) NIL

Compulsory :

- Field density by - core cutter, sand replacement and clod method.
- Sieve analysis and particle size distribution /hydrometer analysis.
- specific gravity by voluminometer/pychnometer.
- Liquid limit and plastic limit.
- Shrinkage limit.
- Permeability by permeameter.
- Direct shear test.
- Unconfined compression test.
- Vane shear test.
- Proctor test.

Desirable:-

- Tri-axial test.
- C.B.R. Test.
- Swelling test.
- Consolidation test.

## 5) CONCRETE TECHNOLOGY LAB. :-

**List of major equipments :-** (Casting more than 50,000 Rs.) NIL

- i) Compression testing machine

### **List of experimental set up :-**

- Fineness test on cement
- Consistency test on cement
- Soundness test on cement
- Compressive test on cement
- Impact test on aggregates .
- Crushing test on aggregates.
- Abrasion test on aggregates.
- Compressive test on cement concrete.
- Workability of concrete- slump test, compaction factor and flow test.
- Flexural strength of concrete.
- Splitting cylinder method.
- Concrete mix design.
- Transverse test on tiles.
- Water absorption of bricks.
- Compressive strength of bricks.
- Shear strength of steel.
- Tensile test on steel.
- Impact test - Izod and charpy impact test.

## 6) TRANSPORTATION ENGINEERING LAB.

**List of major equipments :-**(Casting more than 50,000 Rs.) NIL

### **List of experimental set up**

- Test on road aggregates -
  - a) Aggregate crushing value test.
  - b) Hardness test. -
    - i) Los -Angles abbration test
    - ii) Deval abbration test
    - iii) Dorry abbration test
  - c) Aggregate impact test.
  - d) Shape test.
  - e) specific gravity and water absorption test.
- Test on Bitumen -
  - a) penetration test.
  - b) Ductility test.
  - c) Softening point test.
  - d) Viscosity test.
  - e) Flash and fire point test.
  - f) Marshal stability test.

## 7) FLUID MECHANICS LAB.

**List of major equipments** :- (Costing more than 50000 Rs.) NIL

### **List of experimental set up**

- Measurement Of Viscosity By Viscometer.
- Pressure Measuring Devices.
- Bouyancy By Law Of Floattion.
- Study Of Bernoulli's Theorem.
- Ventury And Orifice Meter.
- Electrical Anology - Study Of Stream Lines.
- Halashow Appratus - Laminar Flow.
- Orifice /Mouthpiece And Notches.
- Impact Of Jet.
- Flow In Open Channel.
- Specific Energy And Specific Force In Open Channel.
- Flow Through Pipes- Laminar And Turbulant Flow.
- Drag And Lift On Aerofoils .
- Drag On Cylinders.
- Characteristics Of Pelton Wheel.
- Characteristics Of Turbines. - Francis And Kaplan Turbines.
- Characteristics Of Centrifugal Pump.

## 8) ENGINEERING MECHANICS LAB.

List of major equipments :- (Casting more than 50000 Rs.) : NIL

### **List of experimental set up**

- Determination Of Efficiency Of Simple Machine.
- Determination Of Reaction Of Simply Supported Beams.
- Determination Of M.I. Of Fly Wheel.
- Verify Value Of 'G' Using Compound Pendulum.
- To Determine M.I. Of An Irregular Body Using Torsional Pendulum.
- Determination Of Forces In Plane Truss.
- Determination Of Coefficient Of Friction Of A Flat Belt Using Belt Friction Appratus.

## 9) ENGINEERING GEOLOGY LAB.

**List of major equipments** :- (Costing more than 50000 Rs.) NIL

### **List of experimental set up**

- Study Of Various Minerals .
- Study Of Various Rocks.
- Construction Of Geological Maps And Solution Of Engineering Geological Problems Such As Dams,Bridges,Canals Etc.

DEPARTMENT :- MECHANICAL ENGINEERING

### 1) D.O.M. LAB. :-

**List of major equipments** :- (Costing more than 50,000 Rs.)

#### **I) Vibration Apparatus**

##### **List of experimental set up**

- Trifiler Suspension System
- Gyroscope
- Vibration Apparatus
- Slip Of Belts Apparatus.
- Static And Dynamic Balancing Apparatus
- Centrifugal Governor
- Whirling Speed Apparatus
- Dynamic Coefficient Measuring Apparatus
- Hydraulic Door Closer
- CAM Profilometer
- Models

### 2) H. M. T. LAB. :-

**List of major equipments** :- (Casting more than 50000 Rs.) NIL

##### **List of experimental set up**

- Emissivity Measurement Apparatus.
- Thermal Conductivity Of Insulating Powder.
- Critical Heat Flux Apparatus.
- Composite Wall Apparatus
- Natural Convection Apparatus.
- Thermocouple Calibration Test Rig.
- Parallel Flow /Counter Flow Heat Exchanger.
- Stefan-Boltzman Apparatus.
- Metal Rod Apparatus.
- Finned Tube Heat Exchanger.
- Heat Flow Through Lagged Pipe Apparatus.
- Drop Wise And Film Wise Condensation Apparatus.
- Heat Transfer From Pin Fin Apparatus.

### **3) BAISC MECHANICAL/ ENERGY CONVERSION LAB.**

**List of major equipments** :- (Costing more than 50,000 Rs.)

i) Centrifugal air compressor Test Rig

#### **List of experimental set up**

- Demonstrative Models Of Boiler
- Demonstrative Models Of Boiler Mountings
- Boiler Accessories
- Demonstration Model Of Surface Steam Condenser
- Demonstration Model Of Steam Engine
- Demonstration Model Of Compound Steam Engine
- Demonstration Model Of Expansion Steam Strap
- Demonstration Model Of Reducing Valve
- Working Model Of 4-Stroke Cycle Single Cylinder Petrol Engine
- Working Model Of Fuel Injection System
- Working Model Of Lubrication System
- Working Model Of Battery Ignition System
- Working Model Of Carburetor
- Working Model Of Steam Turbine
- Working Model Of Gas Turbine
- Working Model Of Magneto Ignition System
- Working Model Of 4- Stroke 4-Cylinder Petrol Engine
- Working Model Of 2-Stroke Petrol Engine
- Working Model Of 4- Stroke Diesel Engine
- Orsat Apparatus
- Bomb Calorimeter

### **4) TRIBOLOGY / RAC LAB.**

**List of major equipments** :- (Casting more than 50000 Rs.)

1. Ice Plant Test Rig
2. Air Conditioning Cycle Test Rig
3. Refrigeration Cycle Test Rig

#### **List of experimental set up**

- Michell Trust Bearing Apparatus
- Journal Bearing Apparatus
- Pin-On-Disc Wear Test Rig
- Break Line Friction Test Rig
- Friction In Journal Bearing Apparatus

## 5) CAD CENTER

**List of major equipments :-** (Casting more than 50000 Rs.)

- LCD Projector
- Online UPS
- Ansys Software
- CATIA V5 Software

**List of experimental set up**

- Intel Pentium4
- Printer Epson LX300+
- LG 52X CD Writer
- Switch 8 port Net gear & 16 port Netgear
- Window XP
- Window 98
- Autocad 2005
- Quick Heal
- Turbo C++
- Think-client Center

## 6) METROLOGY LAB.

**List of major equipments :-** (Costing more than 50,000 Rs.)

1. Auto Colimeter
2. Angle Decker
3. Tool Maker's Microscope

**List of experimental set up**

- Floating Carriage Micrometer
- Profile Projector
- Surface Plate
- Monochromatic Checklight
- Slip Gauge
- Angle Guage box
- Sine Bar
- Straight Edge Apparatus
- Plug Gauge Set
- Gear Tool Vernier
- Thread Micrometer
- Optical Flat
- Micrometer Outside
- Thread Plug Gauge
- Thread Ring Gauge
- Combination Set
- Spirit Level

## 7) METALLURGY LAB. :-

**List of major equipments** :- (Costing more than 50000 Rs.)

### **List of experimental set up**

- Binocular Metallurgical Microscope - 2 nos.
- Trinocular Metallurgical Microscope
- Metallurgical Microscope
- Flourescent Pentrant Portable Kit
- Magnetic Crack Detector
- Muffle Furnace
- Jominy Hardenability Apparatus
- Double Disc Polishing Machine
- Abrasive Belt Grinder
- Poldi Hardness Tester

DEPARTMENT :- COMPUTER & INFORMATION TECHNOLOGY

## 1) COMPUTER CENTER - I

**List of major equipments** :- (Costing more than 50,000 Rs.)

<b>Name</b>	<b>:</b>	<b>Total No.</b>
IBM P-IV Pc's	:	58

### **List of experimental set up**

#### **I. System Software-**

1. Window 98
2. Window 2000 Server
3. Windows Xp
4. Fedora Red Hat Linux

#### **II. Application Software**

1. Turbo C/C++
2. Vb 6.0 Studio
3. Oracle 8i
4. Oracle9i
5. Ms Office 2003
6. Quick Heal

#### **III. Other Peripheral**

1. Scanner
2. Laser Jet 1010 Printer
3. LX 300+ Printer
4. Speaker 20 Set
5. Printer LX 300+

## 2) COMPUTER CENTER – II

**List of major equipments :-** (Costing more than 50,000 Rs.)

Name	Total No.
Hcl P-iv Pc's	18

### List of experimental set up

- I. System Software-
  1. Window 98
- II. Application Software
  1. Ms Office 2003
  2. Quick Heal
- III. Other Peripheral
  1. Printer Laserjet 1010
  2. Printer LX 300+

## 3) COMPUTER GRAPHICS LAB.

**List of major equipments :-** (Costing more than 50,000 Rs.)

Name	Total No.
zenith p-iv pc's	18

### List of experimental set up

- I. System Software-
  1. Window 98
- ii. Application Software
  1. Turbo C/C++
  2. Vb 6.0 Studio
  3. Ms Office 2003
  4. Quick Heal
- III. Other Peripheral
  1. Printer LQ 1150

## 4) DATABASE LAB.

**List of major equipments :-** (Casting more than 50,000 Rs.)

Name	Total No.
Ibm P-IV Pc's	11
HCL P-IV Pc's	04

### List of experimental set up

- I. System Software-
  1. Window 98
- II. Application Software
  1. Turbo C/C++
  2. Vb 6.0 Studio
  3. Oracle -8i
  4. Oracle- 9i
  5. Ms Office 2003
  6. Quick Heal
- III. Other Peripheral
  1. Printer LQ 1150

## 5) SOFTWARE ENGINEERING LAB.

**List of major equipments** :- (Costing more than 50,000 Rs.)

<b>Name</b>	<b>Total No.</b>
Lenovo P-IV Pc's	20

### List of experimental set up

- I. **System Software-**
  1. Window 98
- II. **Application Software**
  1. Turbo C/C++
  2. Ms Office 2003
  3. Quick Heal

## 6) COMPUTER NETWORK LAB.

**List of major equipments** :- (Costing more than 50,000 Rs.)

<b>Name</b>	<b>Total No.</b>
Ibm Server Series	01
Hcl P-Iv Pc's	18

### List of experimental set up

- I. **System Software-**
  1. Window 98
- II. **Application Software**
  1. Turbo C/C++
  2. Vb 6.0 Studio
  3. Ms Office 2003
  4. Quick Heal
- III. **Other Peripheral**
  1. Printer LX 300+

## 7) HARDWARE LAB.

**List of major equipments** :- (Costing more than 50,000 Rs.)

<b>Name</b>	<b>Total No.</b>
Zenith P-III Pc's	26

### List of experimental set up

- I. **System Software-**
  1. Window 98
- II. **Application Software**
  1. Turbo C/C++
  2. Ms Office 2003
  3. Quick Heal
- III. **Other Peripheral**
  1. Printer

DEPARTMENT :- ELECTRONICS & TELECOMMUNICATION

**1) CONSUMER ELECTRONICS LAB. :-**

**List of major equipments :- (Costing more than 50,000 Rs.)**

Name	Total No.
Digital Storage Oscilloscope	02

**List of experimental set up**

- Cathode Ray oscilloscope (20 MHz)
- Function generator. (1 MHz)
- DC Power supply (0-30V)
- Twin transistor power.(0-30V,2A)
- Dual power supply (+/- 15 V)
- Digital storage oscilloscope
- Synchros transmitter and receiver
- Bridges kits
- LVDT
- LCR Q-Meter
- Harmonic distortion meter
- Digital frequency counter
- Spectrum analyzer kit
- Tape recorder kit
- Colour/ Black and white receiver.
- V.C.R
- FAX Machine. (Demo Kit)
- Colour/ Black and white receiver demo kit.
- VCR Demo kit.
- Stabilizer (sero voltage , 1KVA)

**2) COMMUNICATION ENGG. LAB. :-**

**List of major equipments :- (Costing more than 50,000 Rs.)**

Name	Total No.
Am/Fm Signal Generator	01

**List of experimental set up**

- Cathode Ray oscilloscope (20 MHz)
- Function generator. (1 MHz)
- DC Power supply (0-30V)
- Twin transistor power.(0-30V,2A)
- Dual power supply (+/- 15 V)
- AM/FM receiver kit
- Standard RF Signal generator.(72MHZ)
- Digital Standard RF Signal generator.(72MHZ)

- Stabilizer (sero voltage , 1KVA)
- Textronic make output power meter.(0-100W)
- Pulse amplitude modulator.
- Pulse amplitude demodulator.
- Pulse code modulator
- TDM
- Delta modulation generator.
- Error detecting code.
- Adaptor delta modulator.
- TDM Demultiplexing.
- FSK, ASK,QPSK
- Various line code.
- DTMF tone dial generator.
- Demonstration kit for mobile hand set.
- Digital Storage Oscilloscope
- Digital Communication Trainer

### 3) MICROWAVE AND OPTICAL FIBER COMMUNICATION LAB. :-

**List of major equipments** :- (Costing more than 50,000 Rs.)

<b>Name</b>	<b>Total No.</b>
Fiber Optical Trainer Kit.	01
Lcd Projector	01

#### **List of experimental set up**

- Microwave bench.
- CRO
- Gunn Diode steup .
- VSWR meter.
- Fiber trainer kit.
- DC Power Supply
- Stabilizer (Servo Voltage 1 KVA)
- Function Generator (1 MHz)

### 4) POWER ELECTRONICS LAB. :-

**List of major equipments** :- (Costing more than 50,000 Rs.) Nil

#### **List of experimental set up**

- Cathode Ray oscilloscope (20 MHz)
- Function generator. (1 MHz)
- DC Power supply (0-30V)
- Twin transistor power.(0-30V,2A)
- Dual power supply (+/- 15 V)
- Stabilizer (sero voltage , 1KVA)

- Force commutation kit.
- Autotransformer
- 4 digit tachometer.
- SCR characteristics and measurement
- SCR bridge converter.
- Step down chopper.
- SCR Converter and reactive load
- SCR AC Phase control.
- SCR Parallel inverter.
- Basic inverter circuit.
- AC chopper circuit kit.

### 5) BASIC ELECTRONICS LAB.:-

**List of major equipments** :- (Costing more than 50,000 Rs.) NIL

#### **List of experimental set up**

- Cathode Ray oscilloscope (20 MHz)
- Function generator. (1 MHz)
- DC Power supply (0-30V)
- Twin transistor power.(0-30V,2A)
- Dual power supply (+/- 15 V)
- Stabilizer (zero voltage , 1KVA)

### 6) DIGITAL MICROCOMPUTING LAB.

**List of major equipments** :- (Costing more than 50,000 Rs.)

<b>Name</b>	<b>Total No.</b>
1)Active Hdl 5.2 Software With Synplify Pro.	1+ 4
2) Personal Computers P-Iv @1.5(Zenith)	15
3)Picoscope (Spectrum Analyzer Software)	01
4) Lenovo PC	05
5) Microcontroller Kits	08 sets

#### **List of experimental set up**

- Universal Trainer Kit (FPGA,CPLD model with Spartan )
- Digital IC Tester.
- Digital IC Trainer.

## DEPARTMENT : ELECTRICAL ENGINEERING

### 1) ELECTRICAL MACHINES – I :-

**List of Major Equipments:-** (Costing More than 50,000 Rs):

- dc shunt motor and dc series generator set.
- dc shunt motor and dc shunt generator set.
- dc power rectifier unit.
- synchronous motor with dc shunt generator set
- powerman Honda portable generator

#### **List of Experiment set-up:**

- Direct Loading test on 3-phase Alternator.
- O.C. & S.C. test & Direct Loading test on Alternator.
- Synchronizing of alternators using Lamp method & Synchroscope.
- To plot V Curves & Load test on Synchronous motor.
- Load test on Synchronous induction motor.
- O.C. & S.C. test on 1-phase Transformer .
- Parallel operation & V-V connection, Back-Back test on 1-phase Transformers.
- Study of 3-phase transformer & Scott connection.
- Measurement of active- reactive power by 1,2,3 Wattmeter method.
- Speed control of Dc Shunt motor.
- Speed control of Dc Series motor.
- Speed control & Rheostatic Baking of 3-phase I.M.
- Load test on 3-phase slip-ring I.M.
- Rheostatic Baking & load test on D.C. Shunt Motor.
- SCOTT Connection of 1-0 transformer with load & without load.
- Different connection of three transformer

### 2) ELECTRICAL MEASUREMENT – I

**List of Major Equipments:-** (Costing More than 50,000):

- P.T. testing set complete with bridge std. P.T.
- C.T. testing set complete with bridge std. C.T. Burden's box
- connection lead and sample two C.T.
- Epstein square set mounted on board.
- 3 phase shifting transformer 1KVA p.f. selected 0-1,

#### **List of Experiment set-up:**

- Barlow method of measurement of power using P.T.
- Measurement of power in 3 phase 4 wire circuit.
- Calibration of single phase energymeter at different p.f.
- Use of D.C. potentiometer for calibration of ammeter and voltmeter.
- Anderson's bridge.
- Epstein square.
- Measurements of phase angle error and ratio error of C.T.
- Measurements of phase angle error and ratio error of P.T.

- Measurement of earth resistance.

### 3) ELECTRICAL ENGINEERING MATERIAL:-

**List of Major Equipments:-** (Costing More than 50,000):

- i) Oil Testing set ( 0-60 kv).

**List of Experiment set-up:**

- Testing of insulating oil as per IS.
- Testing of Solid insulating Material as per IS.
- Measurement of resistivity of resistance material.
- Measurement of resistivity of conductive material.
- Study and use of gauss meter.
- Study of various insulating material.

### 3) POWER SYSTEM – II

**List of Major equipments :**

- Phase shifting transformer
- M-G set
- Unsymmetrical fault analyzer kit.

**List of Experiment set up :**

- ABCD constants of long transmission line & plotting circle diagram to estimate performance.
- VAR Compensation using capacitor bank
- Determination of steady state power limit
- measurement of sub-transmit reactans
- Measurement of sequance reactans
- Fault analysis for 3-phase symmetrical fault by simulation.
- Unsymmetrical fault analysis
- Computer aided solution of 3 bus load flow usinggaurs aseidal method
- Formulation of Y bus admittance matrix using computer program.

### 4) ELECTRICAL MEASUREMENT- II :-

**List Of Major Equipments:** (Costing More Than 50,000): Nil.

**List Of Experiment Set-Up:**

- Strain measurement using stain gauge.
- Study of LVDT.
- Temperature measurement by RTD /Termister
- Termocouple.
- Study of Pressure transducers.
- Study of recorders.
- Viii) Speed measurement by using TROBOSCOPE.
- Study of different types of CRO”S &their application
- Step response of meter.

- Measurement of systematic error of wattmeter.

## 5) CONTROL SYSTEM LAB:-

**List of Major Equipment :-** (Costing More Than 50,000 Rs)

### 1) SYNCHRO TRANSMITTER & RECEIVER

- Stepper motor 3kgfdemo kit
- A.C. servo motor demo kit
- Time response of second order system

### List Of Experimental Setup:

- Operation of stepper motor 3kgf in single step & multistep
- Study of potentiometer as an error detector
- Study of synchrotransmitter & receiver
- Determination of transfer function of d.c. Servo motor
- Study of performance charct. Of d.c. Motor angular position control system
- To plot torque speed charct. Two phase a. C. Servo motor
- Study of P, PI, PID controller

## 6) BASIC ELECTRICAL & NETWORK ANALYSIS LAB.

**List Of Major Equipments:** (Costing More Than 50,000): Nil.

### List Of Experiment Set-Up:

- Verification of kirchhoffs laws.
- Study of series r-l-c circuit .
- Study of parallel r-l-c circuit.
- Study of fluorescent tube circuit & mercury vapour lamp .
- Measurement of z,y, abcd parameter of two port network
- To plot amplitude and phase response of anal pass filter
- To plot pole zero diagram of given l-c network

## 7) ELECTRICAL MACHINE-II :-

**List Of Major Equipment :-** (Costing More Than 50,000 Rs)

- Phase shifting transformer.
- D. C. Shunt motor & 3 phase salient pole alternator set.
- 3 phase variable (inductive) choke coil.
- 3 phase synchronous induction motor with pony break spring balance
- 3 phase resistive load
- single phase resistive load

### List Of Experimental Setup:

- Measurement of ABCD constant of long transmission line using transmission line model
- Effect of VAR compensation on receiving end voltage using capacitor bank
- Determination of steady state power limit of transmission line.
- Measurement of parameters & time constants of salient pole synchronous machine
- Measurement of sequence reactance of synchronous machine
- Steady state stability of synchronous motor & P-delta curve

- Synchronous machine on infinite bus
- Effect of saturation and determination of equivalent reactance of synchronous machine
- Retardation test on synchronous machine to find moment of inertia of rotating part and angular momentum
- Direct load test on 3 phase alternator
- Load test on symmetrical induction motor at const excitation.
- Slip test on salient pole alternator
- Synchronization of Alternators.

## 8) SWITCH GEAR AND PROTECTION

**List Of Major Equipment :-** (Costing More Than 50,000 Rs)

- switchgear and relay testing kit.
- Microprocessor based overcurrent relay
- simulation model for differential protection of transformer.
- mho/impedance relay kit with short transmission line model.
- simulation model for differential /distance protection of transmission line.
- simulation model for protection of alternator.

**List of Experiment set-up:**

- Study of relaying and control circuit development.
- To plot the operating chara.of inverse time overcurrent relay.
- To study the fault stability of differential relay.
- Studu of mho distance relay to plot R-X diagram b)voltage vs admittance chara.
- Study of combined overcurrent and earth fault protection scheme of alternator.
- Protection of three phase transformer using differential relay.
- To plot chara. Of rewirable fuses and mcb.
- Study of arc extinction phenomenon.
- Demonstration of microprocessor based protection of three phase induction motor using mm30 I & t make.

## DEPARTMENT : INSTRUMENTATION ENGINEERING

### 1. NAME OF LABORATORY – ELECTRONICS LAB

#### List of Major Equipments / Facilities – Nil

#### List of Experimental Setup –

- C.R.O.
- Function Generator
- Dual Power Supply  $\pm 15$  Volts
- DC Power Supply 0 - 30 Volts
- Regulated Power Supply 0 – 300 Volts
- Analog Multimeter
- Digital Multimeter
- Table Multimeter
- DC Shunt Motor
- Universal Motor
- Commutation Kit
- SMPS Kit
- Power scope
- SCR Converter Kit
- Decade Resistance Box
- Capacitance Box
- Pulse Generator
- Frequency Counter
- Analog IC Tester
- Autotransformer
- Tachometer
- Bread Board

### 2. NAME OF LABORATORY – TRANSDUCER LAB :-

#### List of Major Equipments / Facilities –

- Hydraulic Trainer

#### List of Experimental Setup-

- L.V.D.T.
- Digital Pressure Indicator
- Digital Strain meter
- Digital Displacement Meter
- Dead Weight Pressure Gauge Tester
- Dead Weight Vacuums Gauge Tester
- PID Controller
- RTD Transmitter(PT-100)
- Thermocouple Transmitter
- P to E Converter

- E to P Converter
- RTD Simulator
- Thermocouple Simulator
- PH Simulator
- C.R.O
- Digital Calibrator
- Digital Transmitter
- Digital Temp.Indicator
- Magnetic Amplifier
- Alarm Annunciator Single Point
- Flow Control Valve
- Alarm Annunciator 10 Points
- Digital Potentiometer
- Flow Control Loop
- Square Root Extractor
- Hot Air Oven
- Air Compressor
- Servo Controlled Voltage Stabilizer
- PT-100
- Thermocouples
- Digital milliammeter Cum Source
- Thermister
- Thermometer
- Two wire Transmitter
- 0 – 30 v Regulator Power Supply
- Digital Multimeter
- Digital Stroboscope
- Capacitive Level Transmitter

## **2. NAME OF LABORATORY – PROCESS LAB**

### **List of Major Equipments / Facilities –**

- PC Based Temp. Control System
- PC Based Level Control System
- Ratio Control System
- Split Range Control System
- Cascade Control System
- Pressure Control System
- PID Controller
- PLC / DCS System

### **List of Experimental Set up –**

- C.R.O.
- Adept Control Engg. System
- Adept Disturbance Generator
- AC Voltage Stabilizer
- Electronics Valve Positioner

- Electronic PID Controller
- Dual Tracking Power Supply
- 0-30v Power Supply
- Pressure Transducer With Digital Pressure Meter
- Level Switch

### **3. NAME OF LABORATORY**

**- DIGITAL SIGNAL PROCESSING & MICROPROCESSOR LAB :-**

**List of Major Equipments / Facilities : – Nil**

**List of Experimental Set up –**

- Personal Computers
- Printer
- 8085 Microprocessor Kit
- Power Supply
- Digital Signal Processor Kit
- ADC/ DAC interface
- 8279 interface
- 8259 interface
- 8253 interface
- 8257 interface
- 8251 interface
- 8255 interface
- Stepper motor with interface
- 8051 Microcontroller Kit

### **5.NAME OF LABORATORY :**

**– DIGITAL TECHNIQUES & ANALYTICAL INSTRUMENTATION LAB :**

**List of Major Equipments / Facilities – Nil**

**List of Experimental Set up –**

- Single Phase Meter
- Decade Resistance Box
- DC Current Recorder
- Regulated DC Power Supply 5 Volts
- Mill voltmeter
- Micro ammeter
- Digital IC Bread Board
- Auto Manual Clock Pulser
- Digital IC Tester
- Portable Wheatstone Bridge
- Portable Potentiometer
- C.R.O.

- Spectrophotometer
- Wattmeter
- Power Factor Meter
- Micro ohmmeter
- Output meter
- Anderson Bridge
- Balance Cell Colorimeter
- Flame Photometer
- Photoflurometer
- Densitometer
- Refractometer
- OHP

### **COMPUTING FACILITIES :**

- Number and Configuration of Systems :-

Total Systems: 318

P IV - (220) @ 1.6 GHz , 40 GB HDD , 128 MB RAM Above.

P III – (53) @450 MHz & Above, 20 GB HDD , 128 MB Above.

Other (45) : 286/386/486/ P1

- Total number of systems connected by LAN : 140
- Total number of systems connected to WAN : 20
- Internet bandwidth : 256 Kbps

- Reliance : Leased line with the internet bandwidth of 256kbps.

### **Major software packages available:**

#### **System Software :**

Microsoft Windows 98

Microsoft Windows XP

Microsoft Windows NT Server

Microsoft Windows 2000 Server

MS –DOS 6.0

#### **Application Software:**

Turbo C++

Visual Basic 6.0

MS Office 2000

Oracle 8i, 9i

Quick Heal Antivirus  
 McAfee Antivirus  
 Gyan Jyot  
 MS Office 2003  
 Slim Software For library  
 Autocad 2000  
 Catia V5 software  
 Ansys Modelling S/w  
 Simplify Pro 7.0 VLSI S/w  
 Office automation software : "ADROIT SYSTEM"

➤ **Special purpose facilities available :**

Departmental Library  
 Workshop:

➤ **List of facilities available.**

Internet	Communication Centre
Transport	Dispensary
Canteen	Intercomm.
Reprographic	Hostel
Mess	Bank
Post Office	Power Back Up

**Games and Sports Facilities**

Cricket	Hockey	Foot Ball
Basket Ball	Volley Ball	Badminton
Table Tennis	Chess	Caram
Kho Kho	Kabbadi	Athletic Track

**Extra Curriculum Activities**

Drama	Debating	Song Competition
Music Competition	Personality	Fun Fair
Rangoli competition	Poster Competition	
Fancy Dress Competition		

## ❖ Soft Skill Development Facilities

### Number of Classrooms and size of each

No. :- 19  
Area :- 108 Sq. mt. each

### Number of Tutorial rooms and size of each

No. :- 06  
Area :- 106 Sq. mt. each

### Number of laboratories and size of each

No. :- 46  
Total Area :- 6566.87 Sq. mt.  
Average Area /Lab :142.75 Sq. mt.

### Number of drawing halls and size of each

No. :- 02  
Area :- 210.63 Sq. mt. each

### Number of Computer Centres with capacity of each

No. :- 01  
Area :- 314.44 Sq. mt.  
Capacity :- 60 PC's

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

No. :- 24  
Capacity :- 60 Students per Hall

### Teaching Learning process

Black Board	OHP
LCD	Charts
Models	CD
Department Library	

- Curricula and syllabi for each of the programmes as approved by the University.
- As the Institute is affiliated to North Maharashtra University Jalgaon , institute is following the syllabus of the North Maharashtra University.  
Copy of Teaching scheme is attached separately as **Appendix No.- 2**  
Detail syllabus is available on website of North Maharashtra Univeristy, Jalhaon.  
i.e. [www.nmu.ac.in](http://www.nmu.ac.in)
- Academic Calendar of the University  
Copy of academic calendar is attached separately as **Appendix No.: 3**
- Academic Time Table  
Copy of master time table is attached separately as **Appendix No.: 4**
- Teaching Load of each Faculty  
Professor:- 10 hrs/week  
Asst. Professor :- 12 hrs/week

Lecturer :-

16 hrs/week

- Internal Continuous Evaluation System and place  
Internal continuous evaluation in each subject is done by the team of two faculty members appointed by the principal from respective department. The weight ages assigned to continuous evaluation is as below

Theory attendance :- 05 marks  
File (Term works) :- 05 marks  
Tutorial/Behaviour :- 05 marks  
Oral :- 05 marks  
Test :- 05 marks

- Students' assessment of Faculty, System in place.  
Students assess the faculty by submitting the feed back form to the Head of the respective department, on the basis of which the HOD and Principal assess the faculty and corrective measures are taken by the Principal.

For each Post Graduate programme give the following: - **NOT APPLICABLE.**

Title of the programme : ---

Curricula and Syllabi : ---

Faculty Profile :---

S.No.	Name	DESIGNATION	Subject Teaching
1.	-----	-----	-----
2.	-----	-----	-----
3.	-----	-----	-----

Brief profile of each faculty. : ---

Laboratory facilities exclusive to the PG programme

Special Purpose

Software, all design tools in case

Academic Calendar and frame work

Research focus

List of typical research projects.

Industry Linkage

Publications (if any) out of research in last three years out of masters projects

Placement status

Admission procedure

Fee Structure

Hostel Facilities

Contact address of co-coordinator of the PG programme

Name:

Address:

Telephone:

E-mail:

**NOTE: Suppression and/or misrepresentation of information would attract appropriate penal action.**

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