

# **Mandatory Disclosure : 2011 – 2012**

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) 229649, 229740  
Fax No.: (02565) 229649, Ext.: 54  
Web site : coeshahada.com  
E-Mail : [principal@coeshahada.com](mailto:principal@coeshahada.com)

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

Prof. Dr. P. D. Patil  
Principal,  
Tel. No: (02565) 229649 (Office)  
229730 (Resi.)  
Fax No.: (02565) 229649, Ext.: 54  
E-Mail : [pdpatilco@rediffmail.com](mailto: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 Loknayak 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) Prof. M. N. Patil**  
**Co-ordinator (Academic & General Administration)**

A graduate in Instrumentation engineering of Poona university & post graduate in industrial engineering . He is having a vast administrative experience As a Principal Polytechnic Shahada.

**(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.

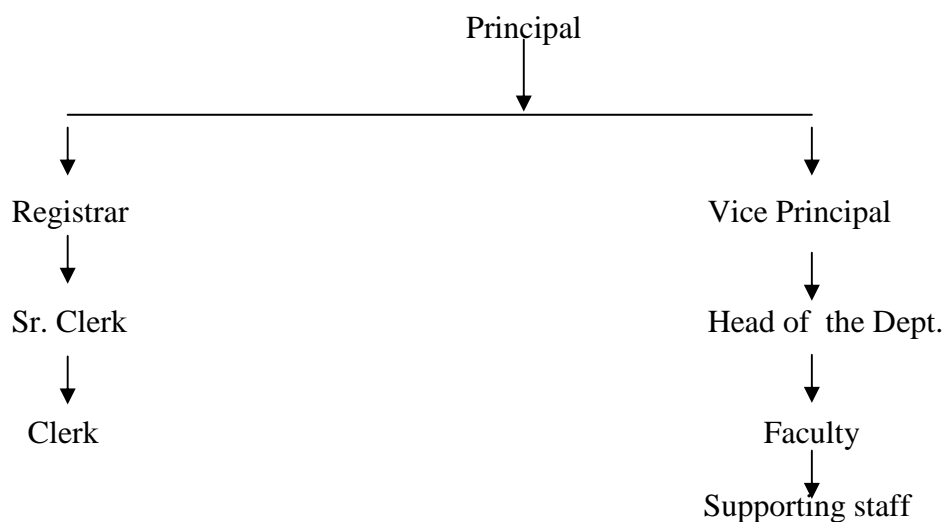
##### ❖ **Members of Academic Advisory Body**

- |                                 |                                      |
|---------------------------------|--------------------------------------|
| (1) Shri. Annasaheb P. K. Patil | President                            |
| (2) Shri. Tukaram R. Patil      | Vice-President                       |
| (3) Sau. Kamaltai P. Patil      | Secretary                            |
| (4) Prof. M. N. Patil           | 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.

## V. PROGRAMMES

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

1. Civil Engineering
2. Instrumentation Engineering
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 Engineering

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

- **Name** : **Civil Engineering**
- Number of seats : 60 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
2008-09	46 (CET score)
2009-10	35(CET score)
2010-11	41(CET score)
2011-12	44(CET score)

- Fee : Rs. 49450 /- 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
2008-09	2	12000/- pm	20000/- pm	16000/- pm
2009-10	6	13000/- pm	17000/- pm	15000/- pm
2010-11	10	12000/- pm	20000/- pm	16000/- pm

- Name : **Instrumentation 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
2008-09	47 (CET score )
2009-10	35 (CET score )
2010-11	41(CET score )
2011-12	42(CET score)

- Fee : Rs. 49450 /- 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
2008-09	4	8000/- pm	16000/- pm	12000/- pm
2009-10	8	10000/- pm	18000/- pm	16000/- pm
2010-11	4	10000/- pm	20000/- 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
2008-09	54 (CET score)
2009-10	45 (CET score)
2010-11	37 (CET score)
2011-12	46(CET score)

- Fee : Rs. 49450 /- 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
2008-09	3	8000/- pm	15000/- pm	14000/- pm
2009-10	6	10000/- pm	20000/- pm	15000/- pm
2010-11	2	14000/- pm	18000/- pm	16000/- 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
2008-09	45 (CET score)
2009-10	47(CET score)
2010-11	39 (CET score)
2011-12	45(CET score)

- Fee : Rs. 49450 /- 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
2008-09	5	8000/- pm	15000/- pm	11500/- pm
2009-10	6	12000/- pm	20000/- pm	16000/- pm
2010-11	5	12000/- pm	25000/- pm	15000/- pm

s

- Name : **Electrical 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
2008-09	51 (CET score )
2009-10	47 (CET score )
2010-11	42 (CET score )
2011-12	39 (CET score )

- Fee : Rs. 49450 /- 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
2008-09	2	8000/- pm	20000/- pm	14000/- pm
2009-10	5	10000/- pm	22000/- pm	16000/- pm
2010-11	9	12000/- pm	25000/- pm	20000/- 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
2008-09	48 (CET score )
2009-10	47(CET score )
2010-11	36(CET score )
2011-12	37 (CET score )

- Fee : Rs. 49450 /- 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
2008-09	4	8000/- pm	12000/- pm	10000/- pm
2009-10	4	10000/- pm	18000/- pm	16000/- pm
2010-11	8	10000/- pm	25000/- pm	20000/- pm

- Name : **Information Technology**
- 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
2008-09	55 (CET score )
2009-10	31 (CET score )
2010-11	30 (CET score )
2011-12	35 (CET score )

- Fee : Rs. 49450 /- 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
2008-09	2	8000/- pm	10000/- pm	9000/- pm
2009-10	3	9000/- pm	18000/- pm	15000/- pm
2010-11	4	10000/- pm	18000/- pm	14000/- 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. C. P. Patel
5	Prof. S. C. Sharma
6	Prof. S. R. Patil
7	Prof. I. T. Patil
8	Prof. R. A. More
9	Prof. A. P. Valvi
10	Prof. Miss. S. H. Patil
11	Prof. Y. O. Patil

- Permanent Faculty :- 11
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1: 8.36

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

Year	Employed During the Year	Left During the Year
2008-09	01	--
2009-10	01	--
2010-11	--	01
2011-12	02	

❖ **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. Miss. A. A. Patil
10	Prof. P. D. Patel
11	Prof. V. S.. Patil

- Permanent Faculty :- 11
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1: 15.09

❖ **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>
2008-09	01	--
2009-10	--	--
2010-11	--	--
2011-12	02	

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

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

- Permanent Faculty :- 14
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1:13

**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>
2008-09	05	04
2009-10	01	02
2010-11	--	01
2011-12	02	

❖ **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. H. G. Patil
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. Patel
11	Prof. H. K. Chavan
12	Prof. N. D. Patel
13	Prof. N. G. Shinde
14	Prof. U. U. Patel
15	Prof. A. C. Patil
16	Prof. Moin A. Shaikh

- Permanent Faculty :- 16
- Visiting Faculty :- ---
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1:14.06
- Number of faculty employed and left during the last three years

Year	Employed During the Year	Left During the Year
2008-09	04	05
2009-10	01	---
2010-11	--	--
2011-12	02	



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

Sr.No.	Name of faculty members
1	Prof. P. R. Patil
2	Prof. Miss. P. S. Patil
3	Prof. V. S. Mahajan
4	Prof. S. H. Shaikh
5	Prof.A. B. Koli
6	Prof.V. I. Menon
7	Prof. V. O. Patil
8	Prof. R. A. Shaikh
9	Prof. Miss. S. P. Shisode
10	Prof A. I. Pathan
11	Prof. V. T. Patil
12	Prof. Miss. P. A. Patil
13	Prof. Ashpak Khan
14	Prof. D. B. Shukla
15	Prof. R. R. Papalkar
16	Prof. L. M. Kuwar
17	Prof. Miss Kavita R. Patil
18	Prof. Miss P. N. Jain
19	Prof. Miss R. T. Pathan
20	Prof. Miss P. B. Patil
21	Prof. Miss Y. D. Patil
22	Prof. Miss Y. A. Patil

- Permanent Faculty :- 22
- Visiting Faculty :- --
- Adjunct Faculty :- --
- Guest Faculty :- --
- Permanent Faculty: Student Ratio :- 1:12.45
- **Number of faculty employed and left during the last three years**

Year	Employed During the Year	Left During the Year
2008-09	09	09
2009-10	09	03
2010-11	03	03
2011-12	04	

**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** : Dr. P. D. Patil  
**2 Date of Birth** : 01/06/1955  
**3 Educational Qualification** : B.E(Mech.) , M.E(Mech.),  
Ph.D.  
**4 Work Experience**  
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 :-  
Total Fee : 49450 /-

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

Yearly installments are granted to the students from economically weaker section , however he should pay the complete fee up to March end.

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

Concession in tution fee is granted to all eligible student as per the Government guideline.

- ❖ **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	10	1 Year	44740
2	SBC- GOI	10	1 Year	44740
3	SC-GOI	53	1 Year	44740
4	SC-Free ship	37	1 Year	44740
5	OBC-GOI	477	1 Year	23230
6	NT/VJ - Free ship	21	1 Year	44740
7	NT/VJ -GOI	54	1 Year	44740
8	ST / Freeshipl	6	1 Year	44740
9	ST / GOI	20	1 Year	44740
10	STW	4	1 Year	04000
11	PTW	4	1 Year	04000
12	EBC	84	1 Year	20093
13	Ex Military Man	--	1 Year	---
14	Handicapped	2	1 Year	27260
15	OBC Scholarship freeship	88	1 Year	23230

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

As per the Government rule .

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

Boarding charges :- Rs. 1200/- per month

Lodging Charges :- Rs. 8000/- 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	60
Computer	60
Information Technology	60

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

**Fist Year Engg. Admission For the Academic Year**

**Year of admission :- 2008-09**

Sr. No.	Course	SC	ST	VJ	NT	SBC	H/Cap	OBC	OPEN
1	Civil	4	1	1	1	--	---	13	09
2	Instrumentation	4	2	1	1	--	---	41	08
3	E & TC	7	1	1	2	2	---	31	17
4	Mechanical	7	2	1	1	--	---	32	10
5	Electrical	3	--	1	2	--	---	17	04
6	Computer	5	--	1	3	2	---	33	11
7	Info. Tech.	3	1	1	---	---	---	15	09

**Year of admission :- 2009-10**

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 :- 2010 – 2011**

Sr. No.	Course	SC	ST	VJ	NT	SBC	H/Cap	OBC	OPEN
1	Civil	12	08	03	09	06	--	074	28
2	Instrumentation	12	06	07	17	06	--	127	72
3	E & TC	16	10	08	21	06	--	138	61
4	Mechanical	10	04	04	12	04	--	142	71
5	Electrical	11	07	07	17	06	---	103	50
6	Computer	15	07	12	24	10	--	113	70
7	Info. Tech.	11	05	09	16	07	--	054	35

\* Data for 2011-2012 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		
	2009-10	2010-11	2011-12	2009-10	2010-11	2011-12
Civil	06	06	5	06	06	5
Instrumentation	12	12	4	12	12	4
E & T/c.	12	12	5	12	12	5
Mechanical	12	12	6	12	12	6
Electrical	12	12	5	12	12	5
Computer	12	12	1	12	12	1
Info. Tech.	12	12	1	12	12	1

**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	2008 – 09 MH-CET Score basic		2009 – 10 MH-CET Score basic		2010 – 11 MH-CET Score basic		2011 – 12 MH-CET Score basic	
	H	L	H	L	H	L	H	L
<b>Civil</b>	95	46	087	35	108	41	108	41
<b>Instrumentation</b>	122	47	112	35	104	41	104	41
<b>E &amp; Tele comm.</b>	102	54	103	44	137	37	137	37
<b>Mechanical</b>	110	45	108	47	109	39	109	39
<b>Electrical</b>	80	51	114	47	110	41	110	41
<b>Computer</b>	161	48	157	44	158	36	158	36
<b>Info. Tech.</b>	102	55	075	31	098	23	098	23

- 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) | J. P. Patil          | :- | Chairman |
| (2) | P. D. Patel          | -  | Member   |
| (3) | V. S. Patil          | :- | Member   |
| (4) | H. G. Patil          | :- | Member   |
| (5) | Mrs. M. S. Chaudhari | :- | Member   |
| (6) | Mrs. J. H. Patil     | :- | 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)

<b>Programme</b>	<b>:-</b>	<b>Civil Engineering</b>
Books available	:-	5760
Titles	:-	850
Journals	:-	National :- 12 International:- 02

**Programme :- Instrumentation Engineering**

Books available :- 1775  
Titles :- 368  
Journals :- National :- 00  
International :- 01

**Programme :- Electronics and Telecommunication Engineering**

Books available :- 5639  
Titles :- 1378  
Journals :- National :- 08  
International :- 06

**Programme :- Mechanical Engineering**

Books available :- 4811  
Titles :- 1145  
Journals :- National :- 15  
International :- 09

**Programme :- Electrical Engineering**

Books available :- 2970  
Titles :- 652  
Journals :- National :- 05  
International :- 02

**Programme :- Computer Engineering  
And  
information Technology**

Books available :- 4746  
Titles :- 2000  
Journals :- National :- 07  
International :- 09

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

# LABORATORY:

## For each Laboratory

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

## CIVIL ENGINEERING DEPARTMENT

### 1) 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) 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 .

### 3) 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 :-** (Costing 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 abrasion test
    - ii) Deval abrasion test
    - iii) Dorry abrasion 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.

## **8) 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 Floation.
- 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.

## MECHANICAL ENGINEERING DEPARTMENT :-

### **1) Dynamics of machinery 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) Heat Transfer 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) Basic 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 Lab. / Refrigeration & Air conditioning 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
4. Window Air Conditioner
5. Water Cooler

**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 Net gear
- 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
- Monocromatic 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

## COMPUTER & INFORMATION TECHNOLOGY DEPARTMENT

### 1) Compter Center- I

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

<b>Name</b>	<b>:</b>	<b>Total No.</b>
<b>Ibm P-IV Pc's</b>	<b>:</b>	<b>58</b>
<b>Assem. Dual core</b>	<b>:</b>	<b>125</b>

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) Compter Center – II

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

<b>Name</b>	<b>Total No.</b>
<b>Hcl P-IV Pc's</b>	<b>18</b>

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) Compter 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.)

Name	Total No.
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.)

Name	Total No.
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 & Microprocessor Lab.

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

Name	Total No.
Zenith P-III Pc's	26
ARM 7 Based development board	5
ARM 9 Based development board	5

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
  - 4. Triton IDE
- III. **Other Peripheral**
  - 1. GSM module
  - 2. RF communicator
  - 3. Printer- 06
  - 4. Graphics display

## **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 Engineering 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
- Satellite Trainer
- GPS & GSM Trainer
- AM & FM Generator

### **3) Microwave & Optical Fibre 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 setup .
- 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 (zero 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
6)PC	10
7) VLSI Kit	03
8) Logic Analyser	01
9) DSP Kit	02

List of experimental set up

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

ELECTRICAL ENGINEERING DEPARTMENT

## 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
- D.G. Set-50 KVA

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 Materials:-

**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 strain 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 synchrotransmeter & 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
- Electrical Drives & control
  - Half wave control rectifier
  - Control of D. C. motor
  - Full wave control rectifier
  - Control of D. C. motor
  - One quadrants chopper control of D. C. motor
  - Two quadrants chopper control of D. C. motor
  - Speed control of single phase I.M.

## 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 & Protection Lab. :-

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.

## 9) Software Application Lab

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

- Computer PC- 24.

## INSTRUMENTATION ENGINEERING DEPARTMENT :

### **1. 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
- DSO digital storage oscilloscope
- Function Generatorss

### **2. 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 Anunciator Single Point
- Flow Control Valve
- Alarm Anunciator 10 Points
- Digital Potentiometer
- Flow Control Loop
- Square Root Extractor
- Hot Air Oven
- Air Compressor
- Servo Controlled Voltage Stabilizer
- PT-100
- Thermocouples
- Digital mlliammeter Cum Source
- Thermister
- Thermometer
- Two wire Transmitter
- 0 – 30 v Regulator Power Supply
- Digital Multimeter
- Digital Stroboscope
- Capacitive Level Transmitter

### **3 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
- Lan switch
- Microprocessor Kit

#### **4 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. 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++

MS Office

Quick Heal Antivirus

McAfee Antivirus

Catia V5 software

Slim Software For library

Ansys Modelling S/w

Office automation software : “ADROIT SYSTEM”

Visual Basic 6.0

Oracle 8i, 9i

Gyan Jyot

MS Office 2003

Ansys Modelling S/w

Autocad 2000

Simplify Pro 7.0 VLSI S/w

➤ **Special purpose facilities available :**

Departmental Library  
Workshop:

➤ **List of facilities available.**

Internet

Communication Centre

Post Office

Transport

Dispensary

Power Back Up

Canteen

Intercomm.

Mess

Reprographic

Hostel

Bank

**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. :- 21  
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 of syllabus is attached separately as **Appendix No.- 2**  
The detail syllabus is available on website of North Maharashtra University i.e. 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.**