

## **1.0 INTRODUCTION**

The Visvesvaraya National Institute of Technology (VNIT), Nagpur enjoys a prestigious position in the country, especially in Central India, and is recognized as a pace-setting institute for other educational institutions in the region. Established first as Visvesvaraya Regional College of Engineering (VRCE) in 1960, it was recognized as an 'Institute of National Importance' by an Act of Parliament and thus came to have the name with which it is now known.

### **1.1 Mission Statement**

The mission of VNIT is to achieve high standards of excellence in generating and propagating knowledge in engineering and allied disciplines. VNIT is committed to providing an education that combines rigorous academics with the joy of discovery. The Institute encourages its community to engage in a dialogue with society to be able to effectively contribute for the betterment of humankind.

### **1.2 Objectives**

The national character of the Institute aims at contributing effectively to the national endeavor of producing quality human resource of world class standards by developing a sustainable technical education system to meet the changing technological needs of the country, incorporating relevant social concerns and to build an environment to create and propagate innovative technologies for the economic development of the nation.

VNIT is committed to generating and disseminating knowledge and to maintaining the highest standards of excellence. The Institute motivates its staff to work at the frontiers of academic enquiry and to enable the students to reach their full potential in an excellent academic and research environment. The Institute empowers the learning-teaching community to serve the changing needs of the society and nation and contribute effectively to improve the quality of life.

### **1.3 Education system**

#### **Under-graduate (UG) Programmes**

The Institute offers UG programmes in Architecture and 8 Engineering and Technology streams. The duration of UG courses in engineering and technology is 4 years and in Architecture 5 years. All the courses are run on semester pattern.

Students having passed 12<sup>th</sup> standard examination with subjects English, Physics, Chemistry and Mathematics from State Boards of Secondary & Higher Secondary Education or equivalent are eligible for admission to V.N.I.T. and other NITs all over India. The admission is done on the basis of the rank obtained by the student in All India Engineering Entrance Examination (AIEEE) conducted by Central Counseling Board (CCB) under the Ministry of HRD, Govt. of India.

### **Post-graduate (PG) Programmes**

The Institute offers 11 PG programmes in engineering and 01 in Architecture. GATE-qualified candidates are admitted to these programs based on the rank obtained. Seats that may remain vacant after the admission of GATE-qualified candidates, are offered to non-GATE candidates on the basis of their merit in the written test / interview conducted by the respective departments of the Institute. Seats reserved for sponsored category are for candidates possessing minimum 2 years of work experience in the relevant field and are filled on the basis of inter-se merit in the written test / interview conducted by the respective departments of the Institute.

## **2.0 AN OVERVIEW**

### **2.1 Historical Background**

The Visvesvaraya National Institute of Technology, Nagpur is one of the thirty National Institutes of Technology in the country. The Govt. of India conferred on the Institute, the *Deemed to be University* status (under University Grants Commission Act, 1956 (3 of 1956)) with effect from 26<sup>th</sup> June 2002. Subsequently, the Central Govt. by Act of Parliament (National Institutes of Technology Act, 2007 (29 of 2007)) declared VNIT Nagpur as an Institute of National Importance along with all other NITs. The Act was brought into force from 15<sup>th</sup> August 2007.

Earlier, the Institute was known as Visvesvaraya Regional College of Engineering (VRCE). It was established in the year 1960 under the scheme sponsored by Govt of India and Govt. of Maharashtra. The college was started in June 1960 by amalgamating the State Govt. Engineering College functioning at Nagpur since July 1956. In the meeting held in October 1962, the Governing Board of the College resolved to name it after the eminent engineer, planner, and statesman of the country Sir M. Visvesvaraya.

### **2.2 Location**

Nagpur, known as Orange City is centrally located and well-connected to all the parts of the country by air, rail, and road. It is the second capital of Maharashtra.

### **2.3 Campus**

The campus of VNIT is spread over an area of 214 acres near Ambazari lake. It presents a spectacle of harmony in architecture and natural beauty. The campus has been organized in three functional sectors;

- 1.0 Hostels for students,
- 2.0 Instructional buildings, Administrative Block, and Library
- 3.0 Residential sector for staff

The Instructional buildings are located fairly close to both, the hostels and the staff quarters. The campus has a full-fledged computerized branch of State Bank of India with ATM facility, Canara Bank, and Post Office.

The Institute has its own Health Center with a residential Medical Officer. The specialized services of a Psychological Counselor, Dietician, Physiotherapist, Pathology lab, Yoga centre,

and also medical consultants in Ayurveda and Homeopathy are available. Patients suffering from serious illness / requiring intensive care are referred to the Govt. Medical College and Hospital and other Health care centers duly approved under the CGHS.

An adequately equipped canteen is close to the instructional zone and hostels. Two more cafeterias exist on the campus. The Institute has a well equipped Gymkhana apart from various playgrounds for Tennis, Badminton, Volley Ball, Foot Ball, Hockey, and Cricket. NCC unit is also located on campus.

## **2.4 Administration**

As per the provisions of the NIT Act, the Board of Governors (BoG) is responsible for superintendence, direction, and control of the Institute. Thus, the BoG is vested with full powers of the affairs of administration / management and finances of the Institute. Members of the Board represent Govt. of India, Govt. of Maharashtra, Industries, and faculty of the Institute. The Director is the principal academic and executive officer of the Institute. Besides the Board of Governors, the Institute has a Senate, a Finance Committee and a Building and Works Committee which are Statutory Committees and therefore, Authorities of the Institute.

Apart from these committees, the Board has the power to constitute various sub-committees for smooth and efficient administration. Thus, the Board has constituted the Stores Purchase Committee (SPC), Grievance Committee (GC), and Special Cell. The SPC administers the centralized procurement of equipment and material whereas the GC provides a platform to hear the views of staff and faculty on grievances. The Special Cell functions to protect the interest of backward-class candidates through procedural, institutional, and other safeguards.

## **2.5 Academic Programmes**

The institute offers under-graduate (UG) and post-graduate (PG) programmes in several departments. The UG programs leading to the B.Tech. degree are of four years duration and are offered in the departments of Chemical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, Metallurgical & Materials, and Mining engineering. The B.Arch. course run by the Architecture department is of five years duration. The various PG programmes are M.Tech., M.Tech. (by Research), and Ph.D.

Full-time M.Tech. programmes of four semesters duration are offered viz. Industrial Engg., Heat Power Engg., Materials Engg., Electronics (VLSI), Integrated Power System, Computer Science and Engg., Structural Engg., Structural Dynamics and Earthquake Engg., Environmental Engg. and Water Resource Engineering. M.Tech. (by Research) programs in all engineering departments and doctoral research in all engineering as well as applied sciences departments

also are offered. The institute is a recognized centre under QIP scheme for the three years Ph.D. programs in Electrical & Electronics and Metallurgical & Materials Engineering departments. The candidates selected for full time Ph.D. program are given fellowship as per norms.

## **2.6 Courses offered :**

### **UG Programs**

1. B.Tech. Chemical Engg.
2. B.Tech. Civil Engg.
3. B.Tech. Computer Science & Engg..
4. B.Tech. Electrical & Electronics Engg.
5. B.Tech. Electronics & Communication Engg.
6. B.Tech. Mechanical Engg
7. B.Tech. Metallurgical & Materials Engg.
8. B.Tech. Mining Engg.
9. B. Architecture

### **PG Programs**

1. M.Tech. Industrial Engg.
2. M.Tech. Heat Power Engg.
3. M.Tech. Materials Engg.
4. M.Tech. Electronics (VLSI Design)
5. M.Tech. Integrated Power Systems
6. M.Tech. Structural Engg.
7. M.Tech. Structural Dynamics & Earthquake Engg.
8. M.Tech. Environmental Engg.
9. M.Tech. Water Resource Engg.
10. M.Tech CAD-CAM
11. M.Tech. Computer Science & Engineering
12. M.Arch. Urban Planning

**M.Tech. (by Research)**

This program is offered in Engineering departments viz. Chemical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, Metallurgical & Materials, and Mining engineering.

**Ph.D. (Part / Full Time)**

The Ph. D program is offered in all Faculties - Engineering, Science and Humanities and Architecture. In addition, a Ph.D. program under the QIP scheme is offered by the Departments of Electrical Engg. and Metallurgical & Materials Engg.

**2.7 Admission Procedure****UG Programs**

Admission to UG programs is open to AIEEE qualified candidates under Home State and All India quota through centralized admission process by Central Counseling Board (CCB) constituted by Govt. of India, Ministry of HRD. Reservation of seats is as per Govt. of India rules.

**PG Programs**

Admission to PG programs is offered to GATE qualified candidates as per merit. Seats that may remain vacant after GATE qualified candidates have been admitted, are offered to non-GATE candidates on the basis of their merit in written test / interviews conducted by the respective departments of the Institute. Students selected under GATE category are given scholarship/stipend as per norms.

**Ph.D. (Part / Full Time) and M. Tech. (by Research) Programmes**

The candidates interested in pursuing Ph D (Part / Full Time) and M.Tech. (by Research) programmes are required to appear for a written test and interview conducted by the respective departments. The candidates are also required to deliver a pre-registration seminar. Only those candidates who are recommended by the Departmental Research Committee (DRC) are allowed to register. The registration for Ph.D./M.Tech. (by Research) is done twice a year i.e. 15<sup>th</sup> Jan. and 15<sup>th</sup> July.

## **2.8 Students**

In the session 2009-10, 671 students (556 male and 115 female) were admitted to UG programs, 166 (138 male and 28 female) to PG programs, 71 (46 male and 25 female) for Ph. D. program and 16 (13 male and 3 female) for M. Tech. (by Research) program.

## **2.9 Examination & Evaluation**

All UG and PG programs of the Institute are run on semester basis. Course evaluation includes two sessional examinations, one end-semester examination and teachers' assessment through tests, quizzes, assignments, seminars etc. Evaluation pattern is Credit Point based Grade System on a 10-point scale. Grades are based on the marks scored by a student in sessionals, end-semester examination, and teachers' assessment taken together. The semester examinations and re-examination are conducted as per the schedule given in the academic calendar. In order to address the grievances of students related to evaluation, a Grievance Committee constituted by the Director follows the approved procedure.

## **2.10 Placement**

Necessary guidance is provided by the Training & Placement Section to students for career planning and personality development. Campus Interviews with prospective employers are regularly arranged for the placement of students from all branches. These include public and private sector organizations, multinational companies and government organizations. During the academic session 2009-2010, 90 % UG students were placed in various organizations well in advance of their final examination.

## **2.11 Games & Sports**

The Institute aims at all-round development of the students. Classes for Physical Education have been included in the regular time-table in order to ensure the required physical fitness. The programme for physical education for first year students includes yoga, weight-lifting, games, and recreation under physical fitness activity. Inter-department matches in various games and track events are held regularly and the response and participation are overwhelming.

## 2.12 Staff Position

The staff of the Institute has been categorized into two main categories i.e. teaching staff and non-teaching staff.

### Teaching staff

Categories of the staff	Professors	Associate Professors	Assistant. Professors	Total
Sanctioned strength	31	63	124	218
In position strength	25	48	88	161
Vacant	06	15	36	57

### Non-Teaching Staff

#### 1) Administrative Officers

The Institute has a sanctioned strength of 14 administrative officers. Presently, 11 of them are in position. Some positions are being re-structured and Audit Officer is usually taken on deputation from the Audit & Accounts department of the Government.

#### 2) Group-C employees

The Institute has a sanctioned strength at 263 Group "C" employees in the support system in technical and ministerial cadres. Presently, 95 employees in Group "C" are in position.

#### 3) Group-D employees

Of the sanctioned strength of 223 Group "D" employees, 92 are in position in various categories such as sanitary workers, watchmen, attendants, laboratory attendants, gardeners, groundsman etc. The positions of Group "D" employees are also being re-structured. Part of the work in Security, Horticulture, Sanitation, Electrical and Estate Maintenance is outsourced.

### 3.0 THE STAFF

The staff position is as shown below. Figures in parentheses indicate staff actually in position against the sanctioned numbers.

#### 3.1 Academic Staff (Teaching)

Department	Professor	Associate Professor	Assistant Professor	Total
Applied Mechanics	2(2)	4(4)	5(4)	11(10)
Applied Physics	1(1)	1(-)	4(4)	6(5)
Architecture & Planning.	3(2)	6(5)	9(8)	18(15)
Chemistry	1(1)	1(-)	4(5)	6(6)
Civil Engg. & Geology	3(3)	6(6)	10(8)	19(17)
Computer Science Engg.	2(2)	4(4)	5(5)	11(11)
Electrical Engg.	4(4)	6(5)	11(10)	21(19)
Electronics Engg.	3(2)	3(3)	7(6)	13(11)
Humanities	-	1(1)	3(2)	4(3)
Industry Institute Interaction	1(-)	-	-	1(-)
Mathematics	-	2(3)	4(3)	6(6)
Mechanical Engg.	4(4)	8(8)	13(12)	25(24)
Metallurgy	3(3)	4(6)	8(8)	15(17)
Mining	1(1)	2(2)	4(3)	7(6)
Training & Placement	1(-)	-	-	1(-)
Physical Education	-	-	3(3)	3(3)
Chemical Engg.	-	1(1)	6(7)	7(8)
<b>TOTAL</b>	<b>29(25)</b> <b>+02*</b>	<b>49(48)</b> <b>+14*</b>	<b>96(88)</b> <b>+28*</b>	<b>174(161)</b> <b>+44*</b>

\* Distribution of sanctioned posts of 2 Professors, 14 Associate Professors and 28 Assistant Professors is to be decided.

### 3.2 Non-Academic Staff (Non-Teaching)

#### 3.2.1 Supporting staff in position/sanctioned posts in Workshop / Computer Centre

Category	No. of Posts	Comp Sci.	Elect. Electro. (M.Tech)	E/ER. Lab.	Comp. Centre	Workshop
Workshop Supdt.	1(1)	-	-	-	-	1(1)
Foreman	2(1)	-	-	-	-	2(1)
Sr. Tech. Asst. (Res. Lab.)	3(-)	-	-	3(-)	-	-
System Manager (Comp. Center)	1(1)	-	-	-	1(1)	-
System Analyst (Comp. Center)	1(1)	-	-	-	1(1)	-
Programmer(R.Lab/ Comp.Center)	3(2)	1(1)	-	1(-)	1(1)	-
<b>Total</b>	<b>11(6)</b>	<b>1(1)</b>		<b>4(-)</b>	<b>3(3)</b>	<b>3(2)</b>

#### 3.2.2 Administrative Officers

Sr. No.	Category	Sanctioned Posts	Staff in Position	Vacant Posts	Remarks
1	Director	1	1	-	
2	Registrar	1	1	-	
3	Asst. Registrar	1	1	-	
4	Dy. Registrar (Acad/Accounts)	2	1	1	
5	Internal Auditor	1	1 *	-	On temporary assignment
6	Medical Officer	1	1	-	
7	Asst. Proctor	1	1	-	
8	Stores Officer	1	1	-	
9	Librarian	1	1	-	
10	Asst. Librarian	1	-	1	
11	Manager of Hostels	1	1	-	

12	Asst. Engineer Gr-I	1	1	-	
13	Horticulturist	1	-	1	In abeyance
<b>Total</b>		<b>14</b>	<b>11</b>	<b>3</b>	

### 3.2.3 Statement of Group 'C' staff position

Sr. No.	Designation & Scale of Pay	No. of Posts sanctioned	Posts filled up	Posts Vacant	Category		
					SC	ST	OBC
1	Superintendent 9300-34800 + 4200	03	02	01	01	01	00
2	Section Assistant 9300-34800 + 4200	06	02	04	02	00	00
3	Cashier 5200-20200 + 2400 + cash allowance.	02	00	02	00	00	00
4	Accountant 5200-20200 + 2400	01	00	01	00	00	00
5	Sr. Clerk 5200-20200 + 2400	19	13	06	01	01	07
6	Typist 5200-20200 + 2000	01	00	01	00	00	00
7	Office Assistant 5200-20200 + 2000	32	11	21	04	06	01
8	Telephone Opr. 5200-20200 + 1900	01	01	00	00	00	01
9	Purchase Assistant 9300-34800 + 4200	01	00	01	00	00	00
10	Sr. Storekeeper 5200-20200 + 2800	10	02	08	00	00	00
11	Jr. Storekeeper 5200-20200 + 1900	12	00	12	00	00	00
12	Sr. Stenographer 9300-34800 + 4200	02	01	01	00	00	00

Sr. No.	Designation & Scale of Pay	No. of Posts sanctioned	Posts filled up	Posts Vacant	Category		
					SC	ST	OBC
13	Jr. Stenographer 9300-34800 + 4200	06	04	02	01	00	03
14	Steno Typist 5200-20200 + 2400	04	00	04	00	00	00
15	Tech. Assistant (Library) 9300-34800 + 4200	01	01	00	00	00	00
16	Reference Assistant 9300-34800+4200	01	01	00	01	00	00
17	Library Assistant (Library) 5200-20200 + 2000	01	01	00	01	00	00
18	Issue Assistant (Library) 5200-20200 + 2000	02	02	00	00	00	02
19	Catalogue Assistant 5200-20200 + 2000	02	01	01	00	00	01
20	Sanitary Inspector 5200-20200 + 2800	01	01	00	01	00	00
21	Security Officer 9300-34800 + 4200	01	01	00	00	00	00
22	Assistant Security Officer 5200-20200 + 2400	01	01	00	00	00	00
23	Staff Nurse (Dispensary) 9300-34800 + 4200	01	01	00	00	00	00
24	Compounder 5200-20200 + 2800	01	01	00	01	00	00
25	Assistant Foreman (Elect.) 9300-34800 + 4200	01	00	01	00	00	00
26	Electrical Supervisor 5200-20200 + 2800	01	01	00	00	00	01
27	Sr. Electrician 5200-20200 + 2400	02	00	02	00	00	00

Sr. No.	Designation & Scale of Pay	No. of Posts sanctioned	Posts filled up	Posts Vacant	Category		
					SC	ST	OBC
28	Jr. Electrician 5200-20200 + 2400	03	00	03	00	00	00
29	Wireman 5200-20200 + 2400	03	01	02	00	00	00
30	Lineman 5200-20200 + 1900	04	00	04	00	00	00
31	Jr. Engineer 9300-34800 + 4200	02	02	00	01	00	00
32	Draughtsman 9300-34800 + 4200	07	00	07	00	00	00
33	Tracer 5200-20200 + 2000	01	00	01	00	00	00
34	Sr. Technical Assistant 9300-34800 + 4200	03	00	03	00	00	00
35	Technical Assistant 9300-34800 + 4200	11	05	06	01	02	01
36	Head Lab Assistant 5200-20200 + 2400	08	05	03	01	01	02
37	Lab Assistant 5200-20200 + 2000	32	10	22	01	00	07
38	Workshop Supervisor 9300-34800 + 4200	02	00	02	00	00	00
39	Instructor 9300-34800 + 4200	15	06	09	03	01	01
40	Oil Engine Driver Cum Mechanic 5200-20200 + 2800	01	01	00	01	00	00
41	Assistant Mechanist 5200-20200 + 2400	01	00	01	00	00	00
42	Assistant Welder 5200-20200 + 2400	01	00	01	00	00	00

Sr. No.	Designation & Scale of Pay	No. of Posts sanctioned	Posts filled up	Posts Vacant	Category		
					SC	ST	OBC
43	Assistant Turner 5200-20200 + 2400	01	00	01	00	00	00
44	Assistant Fitter 5200-20200 + 2400	01	00	01	00	00	00
45	General Fitter 5200-20200 + 2400	01	00	01	00	00	00
46	Furnace Equipment Technician 5200-20200 + 2800	01	00	01	00	00	00
47	Mechanic 5200-20200 + 2400	07	02	05	01	00	01
48	Skilled Worker 5200-20200 + 2400	04	00	04	00	00	00
49	Painter cum polisher 5200-20200 + 2400	02	00	02	00	00	00
50	Driver 5200-20200 + 1900	03	03	00	01	00	01
51	Instrument Repairer 4000-100-6000/-	02	01	01	00	00	00
52	Head Time Keeper 5200-20200 + 2400	01	01	00	00	00	01
53	Time Keeper 5200-20200 + 2000	02	01	01	00	00	00
54	Carpenter 5200-20200 + 2400	02	00	02	00	00	00
55	Plumber 5200-20200 + 2400	02	00	02	00	00	00
56	Mason 5200-20200 + 2400	01	01	00	00	00	01
57	Boiler Attendant 5200-20200 + 2400	01	01	00	00	00	00

Sr. No.	Designation & Scale of Pay	No. of Posts sanctioned	Posts filled up	Posts Vacant	Category		
					SC	ST	OBC
58	Section Cutter 5200-20200 + 2400	01	00	01	00	00	00
59	Garden sub-overseer 5200-20200 + 1900	02	00	02	00	00	00
60	Khansama 5200-20200 + 1800	01	00	01	00	00	00
61	Pump Attendant 5200-20200 + 1900	02	01	01	01	00	00
62	Matron 9300-34800 + 4200	01	01	00	00	00	00
63	Library Clerk 5200-20200 + 1900	09	01	08	00	00	01
64	Data Entry Operator 9300-34800 + 4200	05	03	02	01	00	00
65	Jr. Hindi Translator 9300-34800 + 4200	01	01	00	00	00	00
<b>Total</b>		<b>263</b>	<b>95</b>	<b>168</b>	<b>25</b>	<b>12</b>	<b>32</b>

### 3.2.4 Statement of Group 'D' position

Sr. No.	Designation & Scale of Pay	No. of Posts sanctioned	Posts filled up	Posts Vacant	Category		
					SC	ST	OBC
1	Dispensary Attendant : Rs. 4440-7440+1300	02	-	02	-	-	-
2	Dresser : Rs. 5200-20200+1800	01	01	-	-	-	-
3	Railway Attendant : Rs. 4440-7440+1300	01	-	01	-	-	-
4	Daftary: Rs. 5200-20200+1800	01	-	01	-	-	-
5	Helper : Rs. 4440-7440+1300	10	04	06	03	-	01
6	Groundsman : Rs. 4440-7440+1300	03	-	03	-	-	-
7	Cleaner : Rs. 4440-7440+1300	02	-	02	-	-	-
8	Mali : Rs. 4440-7440+1300	10	-	10	-	-	-
9	Bearer : Rs. 4440-7440+1300	01	01	-	-	-	-
10	Jamadar (Security): Rs. 4440-7440+1300	03	03	-	-	01	-
11	Watchmen : Rs. 4440-7440+1300	39	11	28	01	01	04
12	Mukadam (Sanitary) Rs. 4440-7440+1300	02	-	02	-	-	-
13	Sweeper : Rs. 4440-7440+1300	26	08	18	01	02	02
14	Chaukidar -cum-Valveman Rs. 4440-7440+1300	02	01	01	-	01	-

Sr. No.	Designation & Scale of Pay	No. of Posts sanctioned	Posts filled up	Posts Vacant	Category		
					SC	ST	OBC
15	Attendent: Rs. 4440-7440+1300	35	13	22	03	01	05
16	Lab Attendant Rs. 5200-20200+1800	81	47	34	16	04	11
17	Lib Attendant : (redesignated) Rs. 5200-20200+1400	04	03	01	01	-	01
<b>Total</b>		<b>223</b>	<b>92</b>	<b>131</b>	<b>25</b>	<b>10</b>	<b>24</b>

### 3.2.5 Staff Retired / Resigned / Expired during the year

Sr. No.	Name	Designation	Date of Departing / Reason	
1	Shri N.L. Lonare	Sr. Storekeeper	30.06.2009	Retired
2	Shri R.P. Kalmegh	Sr. Clerk	30.06.2009	Retired
3	Dr. A.P. Gokhale	Professor	29.07.2009	Retired
4	Shri B.T. Tekam	Lab. Attendant	31.07.2009	Retired
5	Shri T.P. Bhongade	Lab. Attendant	16.09.2009	Retired
6	Shri S.N. Kitkule	Head Lab Assistant	30.09.2009	Retired
7	Shri B.B. Lanjewar	Mali	31.10.2009	Retired
8	Shri Mukesh Nimje	Office Assistant	09.10.2009	Terminated
9	Shri N.N. Tabhane	Attendant	02.01.2010	Expired
10	Shri M.K. Bondre	Chowkidar cum Valveman	28.02.2010	Retired
11	Shri R.R. Gawalpanchi	Asst. Prof. in Civil Engg.	31.03.2010	Retired

### 3.2.6 Staff who joined VNIT during the year

Sr. No.	Name	Designation	Date of Joining
1	Shri Satish Dhandole	Assistant Professor (Mech.)	18.05.2009
2	Dr. Jatin Bhatt	Associate Professor (Metallurgy)	25.05.2009
3	Dr. A.A. Likhite	Associate Professor (Metallurgy)	25.05.2009
4	Shri A.V. Wankhede	Assistant Professor (Chemistry)	26.05.2009
5	Shri Mahesh Varma	Assistant Professor (Metallurgy)	01.06.2009
6	Smt. Jayshree D. Adane	Office Assistant (Academic Section)	08.06.2009
7	Dr. (Mrs.) Alpana Dongre	Professor (Architecture)	23.06.2009
8	Ms. M. S. Durugkar	Assistant Professor (Chemical)	23.06.2009

### 3.2.7 Training Status

Sr. No.	Name	Designation	Training undergone
1	Shri P. D. Jaronde	Lab. Assistant	STTP on "Recent Trends in Engineering Mathematics" at VNIT Nagpur during July 20-24, 2009.
2	Shri S. L. Saraf & Shri D. K. Vairagade	Jr. Stenographer	Residential programme in "Improving Effectiveness of Private Secretarie / Personal Assistants at Puri during August 18-20, 2009.
3	Shri P. S. Meshram	Data-Entry-Operator	Workshop on "Object oriented Software Engineering" at VJTI, Mumbai during Sept 4-13, 2009.
4	Shri P. S. Meshram	Data-Entry-Operator	Short course on "Next generation network" at IIT Delhi during January 9-10, 2010.

## 4.0 TEACHING PROGRAMS

### 4.1 Courses Offered

**PG** (Duration: 2 years i.e. 4 semesters)

1. CAD-CAM
2. Computer Science Engineering
3. Environmental Engineering
4. Heat Power Engineering
5. Industrial Engineering
6. Integrated Power System
7. Material Engineering
8. Structural Dynamics and Earthquake Engineering
9. Structural Engineering
10. Urban Planning
11. VLSI Design
12. Water Resources Engineering

**UG** (Duration: 4 years i.e. 8 semesters for Engineering and 5 years i.e. 10 semesters for Arch)

1. Architecture
2. Chemical Engineering
3. Civil Engineering
4. Computer Science Engineering
5. Electrical and Electronics Engineering
6. Electronics and Communication Engineering
7. Mechanical Engineering
8. Metallurgical and Materials Engineering
9. Mining Engineering

**M. Tech. (by Research)** Offered in Architecture and all Engineering departments

**Ph.D.** Offered in Architecture, Engineering, Sciences & Humanities Departments

## 4.2 Course-wise enrolment with gender, caste breakup

### (A) As per gender:

UG Programs				
SN	Program Name	Male	Female	Total
1	Architecture	110	99	209
2	Chemical Engineering	195	47	242
3	Civil Engineering	224	58	282
4	Computer Science Engineering	269	47	316
6	Electrical & Electronics Engineering	260	42	302
5	Electronics & Communication Engineering	261	55	316
7	Mechanical Engineering	286	21	307
8	Metallurgical & Materials Engineering	225	26	251
9	Mining Engineering	60	0	60
	<b>Total (A)</b>	<b>1892</b>	<b>396</b>	<b>2288</b>
PG Programs				
1	CAD – CAM	27	3	30
2	Computer Science Engineering	27	9	36
3	Environmental Engineering	21	8	29
4	Heat Power Engineering	28	2	30
5	Industrial Engineering	24	1	25
6	Integrated Power System	20	2	22
7	Material Engineering	21	4	25
8	Structural Dynamics & Earthquake Engineering	20	4	24
9	Structural Engineering	20	8	28
10	Urban Planning	8	12	20
11	VLSI DESIGN	23	6	29
12	Water Resources Engineering	11	2	13
	<b>Total (B)</b>	<b>250</b>	<b>61</b>	<b>311</b>
	Ph.D. (C)	142	45	187
	M. Tech. (by Research) (D)	28	13	41
	<b>Total (A+B+C+D)</b>	<b>2312</b>	<b>515</b>	<b>2827</b>

**(B) As per Category:**

<b>UG Programs</b>																				
<b>S</b>		<b>OBC</b>			<b>OPEN</b>			<b>SC</b>			<b>ST</b>			<b>DASA</b>			<b>FOREIGN</b>			<b>Total</b>
		<b>M</b>	<b>F</b>	<b>T</b>	<b>M</b>	<b>F</b>	<b>T</b>	<b>M</b>	<b>F</b>	<b>T</b>	<b>M</b>	<b>F</b>	<b>T</b>	<b>M</b>	<b>F</b>	<b>T</b>	<b>M</b>	<b>F</b>	<b>T</b>	
1	Architecture	13	10	<b>23</b>	70	62	132	12	14	<b>26</b>	8	5	<b>13</b>	6	7	13	1	1	2	<b>209</b>
2	Chemical Engineering	17	1	<b>18</b>	132	36	168	30	7	<b>37</b>	13	3	<b>16</b>	3	0	3	0	0	0	<b>242</b>
3	Civil Engineering	25	2	<b>27</b>	136	44	180	36	6	<b>42</b>	19	4	<b>23</b>	5	2	7	3	0	3	<b>282</b>
4	Computer Science & Engineering	28	5	<b>33</b>	166	19	185	38	8	<b>46</b>	19	5	<b>24</b>	18	9	27	0	1	1	<b>316</b>
5	Electronics & Comm. Engineering	28	4	<b>32</b>	158	30	188	33	5	<b>38</b>	19	4	<b>23</b>	22	12	34	1	0	1	<b>316</b>
6	Electrical & Electronics Engineering	25	2	<b>27</b>	158	27	185	35	10	<b>45</b>	21	1	<b>22</b>	21	1	22	0	1	1	<b>302</b>
7	Mechanical Engineering	29	3	<b>32</b>	174	11	185	38	5	<b>43</b>	18	2	<b>20</b>	22	0	22	5	0	5	<b>307</b>
8	Metallurgical & Materials Engineering	24	2	<b>26</b>	138	18	156	39	4	<b>43</b>	22	2	<b>24</b>	0	0	0	2	0	2	<b>251</b>
9	Mining Engineering	5	0	<b>5</b>	30	0	30	18	0	<b>18</b>	7	0	<b>7</b>	0	0	0	0	0	0	<b>60</b>

PG Programs														
S N	Program Code	OBC			OP			SC			ST			Total
		M	F	T	M	F	T	M	F	T	M	F	T	
1.	Environmental Engineering	2	1	3	19	7	26	0	0	0	0	0	0	29
2.	VLSI DESIGN	4	0	4	14	5	19	4	1	5	1	0	1	29
3.	Heat Power Engineering	5	0	5	18	1	19	4	1	5	1	0	1	30
4.	Industrial Engineering	3	0	3	19	0	19	2	1	3	0	0	0	25
5.	Integrated Power System	5	0	5	10	0	10	3	2	5	2	0	2	22
6.	Material Engineering	6	0	6	14	3	17	1	1	2	0	0	0	25
7.	Structural Dynamics & Earthquake Engineering	6	0	6	13	3	16	1	1	2	0	0	0	24
8.	Structural Engineering	2	2	4	15	4	19	3	2	5	0	0	0	28
9.	Water Resources Engineering	0	0	0	11	2	13	0	0	0	0	0	0	13
10.	CAD-CAM	6	0	6	15	2	17	5	1	6	1	0	1	30
11.	Computer Science Engineering	5	1	6	16	6	22	5	1	6	1	1	2	36
12.	Urban Planning	0	0	0	8	11	19	0	1	1	0	0	0	20

### 4.3 Admission Statistics – UG/PG Programs, Course-wise

UG Course	Intake Capacity	Admitted through AIEEE	Admitted through DASA/ICCR/ MEA	Total
Architecture	56	53	4	57
Chemical Engineering	81	71	1	72
Civil Engineering	81	83	6	89
Computer Science & Engineering	81	81	9	90
Electrical & Electronics Engineering	81	81	12	93
Electronics & Communication Engineering	81	82	11	93
Mechanical Engineering	81	83	11	94
Metallurgical & Materials Engineering	81	72	0	72
Mining Engineering	29	11	0	11
<b>Total</b>	<b>652</b>	<b>617</b>	<b>54</b>	<b>671</b>

PG Course	Intake Capacity	Admitted
CAD-CAM	18	17
Computer Science Engineering	18	20
Environmental Engineering	18	13
Heat Power Engineering	17	17
Industrial Engineering	17	13
Integrated Power System	18	14
Material Engineering	18	15
Structural Dynamics & Earthquake Engineering	18	8
Structural Engineering	18	17
Urban Planning	18	9
VLSI Design	18	16
Water Resources Engineering	18	7
<b>Total</b>	<b>231</b>	<b>166</b>

**Break-up of Seats:**

<b>UG Programme</b>	<b>As per intake</b>	<b>Admitted</b>
SC	98	96
ST	49	49
OBC	133	120
GEN	372	352
<b>Total</b>	<b>652</b>	<b>617</b>
<b>PG Programme</b>		
SC	35	22
ST	18	05
OBC	48	30
GEN	130	109
<b>Total</b>	<b>231</b>	<b>166</b>

**4.4 Students' Total Strength**

<b>Program</b>	<b>OBC</b>	<b>OP</b>	<b>SC</b>	<b>ST</b>	<b>DASA</b>	<b>Foreign</b>	<b>Total</b>
UG	223	1412	338	172	128	15	<b>2288</b>
PG	48	216	40	7	0	0	<b>311</b>
Ph.D.	-	-	-	-	-	-	<b>187</b>
M.Tech. (by research)	-	-	-	-	-	-	<b>41</b>

**4.5 The Hostels**

The Institute has excellent residential facilities to cater to the needs of more than two thousand students. Each hostel has a telephone, T.V., Computer hall with internet connection, provision for indoor and outdoor games, water coolers, water heaters, and mess facilities. It is mandatory for hostel residents to join the mess, managed by the committee of student representatives. All hostel residents bear wages of the mess cooks, servants, helpers and cleaners. Ministerial assistance is provided by the Institute.

The Chief Warden looks after the discipline and management of the hostels with the help of a team of wardens (one for each hostel), Hostel Manager and a Matron (for girls hostel).

No. of Hostels: 7 for boys, 1 for girls.

**Capacity:**

Single Seated - Capacity of 723 students (723 rooms for Boys)

- Capacity of 138 students (138 rooms for girls)

Four Seated - Capacity of 1260 students (315 rooms for Boys)

Double Seated - Capacity of 94 (57 rooms for girls)

#### **4.6 Scholarships/ Assistantship**

The SC and ST category students are sanctioned scholarships from the Deptt. of Social Welfare of their respective states. As per existing practice the SC/ST students of Maharashtra State are exempted from payment of tuition fees at the time of admission. The tuition fees of these students is credited to Institute account from the total scholarship amount received from District Social Welfare Officer, Nagpur. However, the SC/ST students of other states are not given exemption from payment of tuition fees at the time of admission. Further, the Physically challenged students of Maharashtra State quota are being paid maintenance allowance only by the office of the Special District Social Welfare Officer, Nagpur.

#### **4.7 Games and Sports**

The Institute encourages its students to participate in intra-institute events and also in Inter-University Tournaments, Inter-NIT tournaments as well as local inter-collegiate tournaments. Selected students are motivated through suitable incentives in the form of facilities like kit bags etc.

#### **Significant Achievements**

VNIT Nagpur continued with its victorious journey by excelling at VSF'10 Sports Meet. The VSF'10 was conducted by VNIT in Football (male), Table Tennis (male & Female), Volleyball (male) & Cricket (male) during 23<sup>rd</sup> to 25<sup>th</sup> of January'10. Around 8 teams from other NITs took

part in the competition. VNIT exhibited excellent performance by reaching the semifinals of almost all the events and brought laurels to the Institute by winning three Gold medals in overall tournaments.

Another feather in the achievement of sports of the institute was added by the Institute's Cricket team which bagged the winner's title at the All India Inter-NIT Cricket T-20 Tournament.

VNIT Nagpur participated in Football, Badminton (M&W), Basketball (M&W), Table Tennis (M&W), Chess (M), and Lawn Tennis (M) tournament conducted by BITs – Pilani Goa (campus) and bagged Gold medal in Football.

#### **Krida Diwas:**

Football and Throw ball matches were organized in the institute on birth anniversary of the great Hockey legend Major Dhyanchand.

#### **Krik Mania:**

This is an Invitational Cricket Tournament being organized for the last 16 years by the students.

### **4.8 Awards**

The Institute declared about 66 awards for academic excellence in various branches based on the average of the Semester / Year marks.

'Sir Visvesvaraya Medal' is awarded every year to the most outstanding student from B.Tech. / B.E. / B.Arch. degree courses. The award is given to the student securing highest CGPA.

Several other awards are presented by various sponsors to students of different branches.

#### 4.9 Examination Details

Evaluation pattern is Credit Point Based Grade System on a ten point scale and all UG/PG programs follow this system. Statistics regarding the number of degrees awarded this year are as below:

SN	Title of Programme	No. of students
	<b>(A) UG – B.Tech. / B.Arch.</b>	
1	Architecture	23
2	Civil Engineering	43
3	Computer Science & Engineering	47
4	Electronics & Communication Engineering	66
5	Electrical & Electronics_Engineering	63
6	Mechanical Engineering	57
7	Metallurgical & Materials_Engineering	59
8	Mining Engineering	10
	<b>Total</b>	<b>368</b>
	<b>(B) PG – M.Tech.</b>	
1	CAD-CAM	12
2	Computer Science & Engineering	13
3	Environmental Engineering	17
4	Ferrous Process Metallurgy	1
5	Heat Power Engineering	15
6	Industrial Engineering	10
7	Integrated Power System	13
8	Material Engineering	11
9	Structural Dynamics & Earthquake Engineering	14
10	Structural Engineering	12
11	Urban Planning	7
12	VLSI Design	8
13	Water Resources Engineering	4
	<b>Total</b>	<b>137</b>
1	<b>(C) Ph.D. (Part /Full Time)</b>	<b>4</b>
	<b>Total (A)+(B)+(C)</b>	<b>509</b>

## 4.10 TRAINING & PLACEMENT

### 4.10.1 : Optional Training

The students undergo Industrial training during summer/winter vacations. This training is meant for all the engineering disciplines. Although the training is optional, majority of the students do undertake the training.

Training seats received by Training & Placement department for Summer Vacation 2009 are summarized below:

<b>Discipline</b>	<b>No. of Industries offering Training Seats</b>	<b>No. of Seats offered</b>
Civil Engineering	06	24
Chemical Engineering	08	15
Mechanical Engineering	18	54
Electrical & Electronics Engineering	14	44
Electronics & Communication Engineering	09	29
Metallurgical & Materials Engineering	04	09
Mining Engineering	05	24
Computer Science & Engineering	02	07
<b>Total</b>	<b>66</b>	<b>206</b>

### 4.10.2 : Compulsory Training

#### i) Mining Engineering Course:

In keeping with the course curriculum, all mining engineering students are required to undergo compulsory training in mining industry. This training is arranged during every summer and winter vacation.

#### ii) Architecture Course:

UG students of Department of Architecture & Planning have to undergo compulsory training for a period of 6 months towards the end of 4<sup>th</sup> year. On successful completion of the training, students carry out a project of 6 months duration in the Institute under the guidance of the faculty at the department.

#### **4.10.3 : Training of M.Tech. Students**

While industrial training for PG students of engineering is not compulsory, several students from various departments carry out their dissertation work for a period of about 4 to 6 months in relevant industries and organizations. This activity is coordinated by the concerned faculty from the respective departments.

#### **Dream Job Placement**

The Institute has adopted a "Dream Job" policy from the last few years. The policy provides eligible students to opt for the industry/organization offering a minimum salary (CTC) of Rs. 4.00 lac per annum.

#### **Overseas Placement**

Students are offered jobs overseas through campus. M/s Hasan Juma Backer Co. LLC, Sultanate of Oman, Muscat have been regularly visiting the institute since last seven years and have offered jobs to several students.

## 5.0 RESEARCH AND DEVELOPMENT ACTIVITIES

### 5.1 Ph.D. Programmes – Ongoing

Sr. No.	Title of the Thesis	Name of the Scholar	Supervisor
<b>Applied Mechanics Department</b>			
1.	Control of wind response of Tall Chimneys using Mass Dampers	K. R. C. Reddy	O. R. Jaiswal P. N. Godbole
2.	Study of concrete composite slab with profiled Steel Decking	N. A. Hedao	G. N. Ronghe
3.	Investigation into Structural Steel semi rigid connection	A.. Y. Vyavahare	L. M. Gupta
4.	Analysis of Bridge Piers subjected to ship/vehicle collisions	A. S. Joshi	L. M. Gupta
5.	Study of machine foundation considering Soil Structure Interaction	R. S. Sonparote	O. R. Jaiswal P. N. Godbole
6.	Fibre reinforced concrete (Water Retaining Structure)	R. G. Bais	R. K. Ingle
7.	Study of structural properties of Gandhi soil	V. G. Kondekar	O. R. Jaiswal
8.	Study of base isolated flyovers curved in plan and elevation	Ashish C. Saoji	M. M. Mahajan
9.	An investigation into strengthening and retrofitting of building for ERD	Sandeep Gaikwad	R. K. Ingle
10.	Behaviour of various layouts of grid type staging for Elevated water tanks	Abhay Khandeshe	R. K. Ingle

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
<b>Chemical Engineering Department</b>			
1.	Study on neutralization technique of Red Mud and its utilisation	Suchita Rai	K. L. Wasewar
2.	Study on Pervaporation Reactor	Ajit Rathod	K. L. Wasewar
3.	Study on Adsorptive treatment of fluoride from aqueous solution by using low cost adsorbents	Kalpana Singh	K. L. Wasewar
4.	Study on Reactive Extraction of carboxylic Acids	Diwakar Shende	K. L. Wasewar
<b>Civil Engineering Department</b>			
1.	Studies on treatment of wastewater using constructed wetlands for small communities	A.N. Shrikhande	V.A. Mhaisalkar
2.	Evaluation of performance of microbial fuel cell for treatment of organic waste and electricity harvesting.	S. V. Ambekar	V.A. Mhaisalkar
3.	Development of rational approach for the estimation of methane from wastewater treatment facilities for India	M. Kartik	V.A. Mhaisalkar
4.	Reliability-based design of water distribution networks considering fuzzy parameters	Shilpa Dongre	Rajesh Gupta P. R. Bhave
5.	Experimental studies on characteristics of labyrinth wier	B.V.Khode	A.R.Tembhurkar
6.	Critical appraisal of noise pollution and its abatement in sensitive areas of Nagpur	Idris Ahamed	A.R.Tembhurkar

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
7.	Design and development of efficient up flow sand filter for water treatment	V.D.Salkar	A.R.Tembhurkar
8.	Development of system for transformation of intermittent water supply to continues water supply.	K.S.Bhole	A.R.Tembhurkar
9.	Development of biosolvent for defloridation in rural areas.	D.A. Khandhare	A.R.Tembhurkar
10.	Delineation of infiltration characteristics within a watershed through integrated analysis of Spatial Parameters	V.P. Mane	Y B Katpatal
11.	Seismic zoning using structural characteristics in GIS Environment	S.S. Shirkhedkar	Y.B.Katpatal S.S. Rathore
12.	Spatial correlation of mechanical properties of weathered basaltic terrain for foundation characterization	P.P. Saklecha	Y.B.Katpatal D.K. Agrawal
13.	Designing of Geohydrological Model for over exploited watersheds	B.Lamsoge	Y.B.Katpatal A.Pophare
14.	The impact assessment based studies of erai Watershed in Chandrapur District, Maharashtra, using Geoinformatics approach	Sanjay Patil	Y.B.Katpatal
15.	Estimating Hydraulic characteristics of flow regime in heterogeneous systems using Ground Penetrating Radar (GPR).	A.D. Vasudeo	Y.B.Katpatal R.N.Ingle
16.	Investigating the prevalence, relevance and appropriateness of Bamboo technology for housing in India	Chandra Sabanani	Mrs. M.V.Latkar Utpal Sharma

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
17.	Post occupancy evaluation of Schools of Architecture in India	Smita Khan	Mrs. M.V.Latkar A.Bandopadhyay
18.	Experimental studies on convergent stepped spillways.	P J Wadhai	A. D. Ghare
19.	Development of flood risk management system using hybrid assessment approach	Madhuri Bhagat	A D Ghare R V Ralegaonkar
20.	Traffic safety modeling for multilane non-urban roads	A.K. Sharma	V.S.Landge
21.	Urban intersection safety modeling	Mahesh Gupta	V.S.Landge
22.	Urban planning to encourage walkability	Aniket Deshmukh	V.S.Landge, A.Bandopadhyay
23.	Pavement management system for MIDC	Yogesh Hokam	V.S.Landge
<b>Computer Science &amp; Engineering Department</b>			
1.	Content based image retrieval using probabilistic techniques	K. K. Bhoyar	O. G. Kakde
2.	Studies in performance improvement of real coded genetic algorithms and their applications	A. S. Mokhade	O. G. Kakde
3.	Using deep semantic analysis for domain specific natural /language interface to database	Avinash Agrawal	O. G. Kakde
4.	Modeling & evaluation of ad-hoc networks	Ashish Tiwari	O. G. Kakde
5.	Interpretation issues in missing information in databases	S.S.Prabhune	S.R.Sathe

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
6.	Information mining in microarray gene expression analysis	Shital Raut	S.R.Sathe
7.	Parallel computing	D.Shrimankar	S.R.Sathe
8.	Recognition of handwritten manuscript in devanagari script	Latesh Malik	P. S. Deshpande
9.	Graph mining	Abhiram Gandhe	P. S. Deshpande
10.	Modeling & implementing subtle aspects of graph mining	M. M. Dhabu	P. S. Deshpande
11.	Distributed Data Mining	P.A.Paranjape	U. A. Deshpande
12.	Application of distributed systems in automotive software	R. B. Keskar	U. A. Deshpande
13.	A Framework to model the human cell using microarray and genomic data	Manish Kurhekar	U. A. Deshpande

#### **Electrical & Electronics Engineering Department**

1.	Implication of poor power quality & methodology to mitigate them	N R Patne	K. L. Thakre
2.	Adaptive combined neuro-fuzzy approach for enhancement of reliability in transformer protection.	V. T. Barahate	K. L. Thakre S. S. Limaye
3.	Thermal power plant and transmission network management: voltage security and environmental constraints	K. B. Porate	K. L. Thakre V. L. Bodhe
4.	Analysis of power system transients using wavelets	M. A. Beg	M. K. Khedkar

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
5.	Assessment of power sector reforms & sustainable power tariff: An exploratory study in M.S.(India)	S. B. Warkad	M. K. Khedkar
6.	Some aspects of voltage stability studies in deregulated power system	S. D. Naik	M. K. Khedkar
7.	Hybrid control of Induction motor using multilevel inverter	U. V. Patil	H.M.Suryawanshi
8.	Identification of converter faults using wavelet	R. Keswani	H.M.Suryawanshi
9.	Sensorless speed control of Induction Motor- A case study	S.B.Bhodkhe	M V Aware
10.	Mitigation of voltage sag and voltage flicker of distribution system using DSTATCOM with energy system	V.B.Virulkar*	M V Aware
11.	Stability and dynamic analysis of an inverter fed variable frequency induction motor	S.M.Deshmukh	M V Aware
12.	Wind turbine operation and control in electrical power system	S. W.Mohod	M V Aware
13.	Improved Direct Torque control of Induction Motor	J. G. Choudhari	M V Aware
14.	Some studies in improving accuracy of protective relays and schemes using AI techniques	V S Kale	S. R. Bhide
15.	Some studies in applications of AI techniques to power system protection	P P Bedekar	S. R. Bhide

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
16.	Study of VSC-HVDC Transmission systems	P. M. Meshram	V. B. Borghate
17.	Power flow control strategies for distributed generation connected to microgrid.	Ranjit Khandar	M. A. Chaudhari
18.	Automatic detection analysis and classification of power quality disturbances using advanced signal processing techniques	S. V. Murkute	M. A. Chaudhari V. B. Borghate
19.	Wavelet Transform and its application to process power system disturbances.	Jyoti Bhosle	A.S.Junghare
20.	To study various optimization techniques for Reactive Power and voltage Control	Altaf Badar	B. S. Umre A.S.Junghare
21.	Automatic generation control of interconnected power system using artificial intelligence techniques	A. Huddar	P. S. Kulkarni
22.	Some studies on solar photo-voltaic based home lighting system	A. S. Werulkar	P. S. Kulkarni

#### **Electronics & Communication Engineering Department**

1.	Intelligent Transportation System : Design of vehicular adhoc network for intelligent traffic control	Sanjay S.Dorle	A. G. Keskar
2.	Novel strategy for design of a fuzzy controller for autonomous mobile systems	A. Y.Deshmukh	A. G. Keskar
3.	Development of integrated pattern recognition system for larger pattern sets	S.B.Dhok	A.G.Keskar P.S.Deshpande

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
4.	Modular reconfigurable framework for control system design using ARM & FPGA	Kanchan Tiwari	Ashwin Kothari
5.	Some studies in ecg abnormalities detection techniques using soft computing tools	Dilip T. Ingole	K.D.Kulat
6.	Wireless sensor networks & sensor applications	G. M. Asutkar	K.D.Kulat
7.	Propagation models for wireless communication channel	J. A. Shrawankar	K. D. Kulat
8.	Design of a reconfigurable multiprocessor core for higher performance and reliability of embedded systems	Ravi V. Kshirsagar	R.M.Patrikar
9.	Sensor nodes in network on chip	M.A. Gaikwad	R.M.Patrikar
10.	Micro electromechanical Systems (RF Mem)	Amol D. Morankar	R. M. Patrikar
11.	Micro electromechanical Systems (Bio Mem)	J. R. Kalambe	R. M. Patrikar
12.	Strategies for A/D conversion in CMOS VLSI.	A. V. Bapat	A.S.Gandhi
13.	Correlation between human vision and discrete wavelet transform	S. A. Asamwar	A. S. Gandhi
14.	Algorithms for time & frequency synchronization in WCDMA	M.S. Korde	A. S. Gandhi
15.	Algorithms for time & frequency synchronization in OFDMA	Rathkanthiwar	A. S. Gandhi

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
16.	Low power sigma delta analog to digital converter	A. Deshmukh	R. B. Deshmukh
17.	Power optimization for wireless sensor network node architecture	Pankaj U. Joshi	R. B. Deshmukh
18.	Development of low power reconfigurable system in solve 1-D/2-D signal processing problem	P. P. Zode	R. B. Deshmukh

#### **Mechanical Engineering Department**

1.	Fault diagnosis of rolling element bearing using wavelet transform.	A. Devasigamani	A. Chatterjee
2.	Linear and non-linear joint parameter identification.	S. D. Ingole	A. Chatterjee
3.	FEM analysis of turbine blade failure.	M. S. Kotambkar	A. Chatterjee
4.	Structural damage identification using wavelet transform.	Arvind Madne	A. Chatterjee
5.	Machine condition monitoring using artificial intelligence approach.	Vinay Thute	A. B. Andhare
6.	Development of Non Metallic gears: Its performance analysis and standardization.	P. G. Arajpure	P. M. Padole
7.	Modeling & finite element analysis of vertebral column.	A. B. Deoghare	P. M. Padole
8.	Estimation of mechanical sustainability of bone for orthopedic implants	A. S. Dhoble	P. M. Padole

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
9.	Finite element analysis and design optimization of fluid -structure coupled system	V. V. Shukla	P. M. Padole
10.	Parametric studies on the performance of DSSCs.	Rupesh Shelke	S. B. Thombre
11.	Performance evaluation of single slope single basin solar still with passive storage element.	Hemant Deshmukh	S. B. Thombre
12.	Analysis of natural convection solar air heater with built in storage.	Yogesh Dhote	S. B. Thombre
13.	Development of Catalytic Converter	P V Walke	N.V.Deshpande
14.	RP in Medical Prosthesis	T. Deshmukh	A. M. Kuthe
15.	Critical analysis of rapid manufacturing	K. M. Ashtankar	A. M. Kuthe
16.	FEM approach for performance evaluation of flex linkage media.	Adwait Vaidya	P. M. Padole
17.	Discrete CAD-mobile CAD software	Borkar	Y. M. Puri
18.	Development and analysis of rapid tooling applications.	Atul P. Ganorkar	Y. M. Puri
19.	An Investigations of SI engine using hydrogen and CNG blends.	Nitnaware	J.G.Suryawanshi
20.	An investigation on homogeneous charge CI engine.	Kathar	J.G.Suryawanshi

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
21.	Experimental analysis of effect of heat treatment on the surface quality and service life of a blanking die.	M. M. Dhobe	I. K. Chopde

#### **Metallurgical & Materials Engineering Department**

1.	Development & study of PBT composites.	G. S. Deshmukh	S. U. Pathak J. D. Ekhe D.R. Peshwe
2.	Effect of welding cycle on corrosion of austenitic stainless steel.	R.V Taiwade	A.P. Patil
3.	Development of Low Cost Copper Alloy as a Replacement for Cu-10Ni alloy for Fresh Water and Saltwater including seawater Application & study their Corrosion Behavior with Special Emphasis on Microbiologically Influenced Corrosion	A. F.Khan	A.P.Patil T.Subbarao
4.	A FEM based model to predict creep properties of 316 LN S.S. weld joint.	S. R. Charde	D. R. Peshwe R. K. Paretkar M. D. Mathew
5.	Studies on corrosion behavior of high performance austenitic stainless steels in acidic medium.	R.C. Rathod	V.K.Didolkar S.S.Umre
6.	Damage Tolerance Behavior of CFRP Composites under Spectrum Fatigue Loads.	M.S.Duragkar	R.K.Paretkar C.M.Manjunatha
7.	Influence of surface modification on low cycle fatigue and wear behavior of IMI-834	N. S. More	S.N. Paul M. Roy

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
8.	Development and performance evaluation of special surface coatings for the life improvement of Boiler Tube Components.	V. Rao	S.U. Pathak S.A. Paranjpe
9.	Synthesis and Mechanical Properties evaluation of Al-AIN nanocomposites with varying AIN Content	S. G. Fale	Jatin Bhatt A.L.Likhite
10.	Development of Rare earth activated alumino- silicate based nanophosphorous for solid state lighting.	Ashwini Kumar	D. R. Peshwe S.J. Dhoble Jatin Bhatt
11.	Atomistic approach to model multi-component BMG forming compositions & its experimental verification	Uma Gaikwad	Jatin Bhatt D.R. Peshwe S.J. Dhoble
12.	Synthesis and characterization of Al-Mg-SiO <sub>2</sub> composite using nanostructured silica from rice husk	P.Y. Deshmukh	S.U. Pathak Jatin Bhatt
13.	Evaluation of Machinability of Austempered Ductile Iron	P.Parhad	A.L.Likhite Jatin Bhatt
14.	Studies on Pitting of Corrosion Austenitic Steels in Acidic Medium containing halides and its prevention by oxy-anions	N. N. Khobragade	A.P.Patil
15.	Use of Electrochemical Noise Measurements for assessing localized corrosion	M S Bihade	A.P.Patil
16.	Development of cryogenic treatment to carbidic austempered ductile iron (CADI)"	S. Patil	S.U.Pathak , A.A.Likhite

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
17.	Development of low carbon equivalent austempered ductile iron	S S Umale	S.U.Pathak A.A.Likhite
18.	Cryo-treatment on polymer & polymer composites	K .N.Pande	D.R.Peshwe Anupama Kumar
19.	Development of Al-TiB <sub>2</sub> MMC by oxide reduction method	R.S.Ranade	D.R.Peshwe N.D.Dhoke
20.	Study Of Noise Generated By Gas Bubbles & Bath-Metal Movement During Fused Salt Electrolysis Of Alumina.	A. Agnihotri	S.U.Pathak D.R.Peshwe J.Mukhopadhyaya

#### **Mining Engineering Department**

1.	Development of slope design guidelines for friable ore bodies	A.Shantha Ram	N.R. Thote
2.	Slope stability investigations in opencast coal mines of Wardha Valley	J.C.Jhanwar	N.R. Thote
3.	Investigations into noise level and strategies for its abatement in Indian mining industry	R.K. Pande	N.R. Thote
4.	Investigations into influence of explosives energy and rock parameters and techno-economic evaluation of blasts in surface mines	G.K.Pradhan	N.R. Thote
5.	Demonstration and evaluation of blast casting in operating surface coal mines in India	M.D. Uttarwar	R.R.Yerpude

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
6.	Development of environmental audit system for opencast mines	Yogesh G. Kale	R.R.Yerpude
7.	Development of guidelines for waste dumping in surface coal mines of WCL in Chandrapur and Wani areas in Wardha Valley.	I.L. Muthreja	R.R.Yerpude
8.	Development of risk assessment guidelines for dust, in opencast coal mine.	R. K. Sinha	R.R.Yerpude

#### **Architecture & Planning Department**

1.	Investigating the prevalence, relevance appropriateness of Bamboo Technology for Housing in India.	C.S.Sabnani	Ms. M. V. Latkar Utpal Sharma
2.	Critical Appraisal of adequate housing for Urban Poor	V.S.Kapse	A. D. Pofale Mayank Mathur
3.	Post occupancy evaluation of schools of Architecture in India	S.H.Khan	Ms. M.V. Latkar A.Bandopadhyay
4.	Design elements in construction of Railway stations	K.N.Joglekar	D. H. Lataye A.Bandopadhyay
5.	Relationship between urban outdoor spaces and Thermal Comfort	V.V.Ghuge	R.V.Ralgaonkar, Ms. Alka Bharat

#### **Chemistry Department**

1.	Studies on microwave assisted organic reactions	L.P. Nagpurkar	J.D. Ekhe
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<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
2.	Studies on fate of insecticides viz. Endosulphan HCH and Carbofuran in plant soil eco system	J.V. Wadaskar	J.D. Ekhe
3.	Structure and properties of polytrimethylene terphthalate (PTT) blends	Shrikant Deo	S.N. Paul J.D. Ekhe
4.	Modifications of industrial waste lignin	Atul V. Maldhure	J.D. Ekhe
5.	Study and development of polybutylenes terphthalate (PBT) composite	G. S. Deshmukh	S.U. Pathak J.D. Ekhe
6.	Synthesis and physico-chemical studies of polyaniline - metal / metal oxide nano composites	B.H.Shambharkar	S.S. Umare
7.	Synthesis & characterization of metal oxide nonoparticle for photocatalytic & photoluminescent applications	A. Charanprahari	S.S. Umare
8.	Synthesis, characterization & anticorrosion performance of soluble conducting polyaniline & its composite	R.C. Rathod	V.K. Didolkar S.S. Umare
9.	Synthesis and evaluation of molecularly imprinted polymers (MIPs) for selective extraction of antioxidants	S. Pardeshi	Mrs. A. Kumar R.S.Dhodapkar
10.	Cryogenic treatment of polymers and polymer composites	Kavita Pandey	D.R. Peshwe Mrs. A. Kumar

#### **Mathematics Department**

1.	Mathematical models of inflationary universe	P.D. Jaronde	G.P. Singh
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<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
2.	Some cosmological models of the expanding universe	A. Y. Kale	G.P. Singh
3.	Mathematical models of cosmological problems	Jitesh Tripathy	G.P. Singh
4.	Numerical treatment of of BAIL problems	Bhagwat Thakran	P.P.Chakravarthy
<b>Applied Physics Department</b>			
1.	Synthesis and characterization of new cathode materials for solid state batteries	Thomas Philips	V. K. Deshpande
2.	Synthesis and characterization of cerium oxide containing glasses	Ramesh Taikar	V. K. Deshpande
3.	Synthesis and characterization of lead titanate based ferroelectric glass-ceramics	J. Shankar	V. K. Deshpande
4.	Study of some proton conducting glasses	Sudhir Tiple	V. K. Deshpande
5.	Study of optical losses in silicon-on-insulator wave guide	Shilpa Kulkarni	Mrs.S.R. Patrikar
6.	Strength of Nanomaterials	Vivek Kale	Mrs.S.R. Patrikar
7.	Study of lithium conducting glasses, glass-ceramics and composite solid electrolyte materials	Nutan Paigham	A. V. Deshpande
8.	Preparation and study of bismuth oxide containing glasses and glass ceramic	Vijaya Raut	A. V. Deshpande
9.	Synthesis and Characterization of Lithium–Borate Glasses containing Rare Earth Oxides	D.D. Ramteke	R. S. Gedam

## 5.2 Ph.D.s completed during 2009-10

Sr. No.	Title of the Thesis	Name of the Scholar	Supervisor
<b>Applied Mechanics Department</b>			
1.	Critical study of doubly layer grid	P. R. Harde	L. M. Gupta
2.	Operation research application in design, implimentation and operations of water supply system	Ulhas S. Naik	M. M. Mahajan
<b>Chemical Engineering Department</b>			
1.	Intensification of recovery of carboxylic acid by reactive extraction	Amit Keshav	K. L. Wasewar
<b>Civil Engineering Department</b>			
1.	Designing a strategic model to implement Public Private Partnership in Urban Water Sector	H. C. Landge	Rajesh Gupta Y. B. Katpatal
2.	Operation research applications in design, implementation and operations of water supply systems	Ulhas Naik	Rajesh Gupta M. M. Mahajan
3.	Architectural expression as a response to the environment	Rajashree Kotharkar	Rajesh Gupta S. A. Deshpande
4.	“Feasibility studies on induction of polyhydroxybutyrate (PHB) biosynthesis in biomass in wastewater treatment systems”	P. Chakrabarty	V.A. Mhaisalkar Tapan Chakravarti
5.	Assessment of assimilative capacity and environmental flow requirement for river stretch	P. S. Kelkar	V.A. Mhaisalkar S. Devotta

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
6.	Designing a spatial decision support system for environmental sustainability assessments of mining areas	D.R. Sathpathy	Y.B.Katpatal
7.	Designing a strategic model to implement PPP in Urban Water Sector	H. C. Landge	Y.B.Katpatal R.Gupta

#### **Computer Science & Engineering Department**

1.	Color image compression using fractal coding and spiral architecture	N. V. Thakur	O. G. Kakde
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#### **Electrical & Electronics Engineering Department**

1.	Behavioral study and controlling of transmission and distribution infrastructure under deregulated environment	N.D. Ghawaghawe	K. L. Thakre
2.	Design, analysis and simulation of High power factor converter for UPS System	G. A. Dhokane	H.M.Suryawanshi
3.	Multilevel inverter for industrial drives.	M. M. Renge	H.M.Suryawanshi

#### **Electronics & Communication Engineering Department**

1.	Rough set theoretic approach to neural network based object recognition	A.G.Kothari	A.G.Keskar
2.	Low power design aspects of embedded system : a case study of implantable pacemaker	S. D. Chede	K. D. Kulat

<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
3.	Soft computing technique for content based image retrieval using similarity index	P.V.Ingole	K.D.Kulat

#### **Mechanical Engineering Department**

1.	Evaluation of problems of the dental structure: An approach by FEM	R. Uddanwadiker	P. M. Padole
2.	“Optimization of process/service by Taguchi approach” modified to application of Taguchi approach for optimization.	A. C. Waghmare	P. M. Padole
3.	Tribological aspects of biodiesel fuelled C.I. engine.	P. V. Bhale	N.V.Deshpande
4.	Development of diesel particulate trap for CI Engine	S. C. Kongre	N.V.Deshpande
5.	Rapid prototyping in pattern making	D. S. Ingole	A. M. Kuthe

#### **Metallurgical & Materials Engineering Department**

1.	Study of effect of deep cryogenic treatment on tool steels	C.L. Gogte	R.K. Paretkar D.R. Peshwe
2.	Study of processing parameters on structure – property relation of ultra low carbon (interstitial free) steel sheet.	M.M. Humne	R.K. Paretkar D.R. Peshwe

#### **Mining Engineering Department**

1.	Development of slope design guidelines for friable ore bodies (submitted )	A.Shantha Ram	N. R. Thote J. L. Jethwa
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<b>Sr. No.</b>	<b>Title of the Thesis</b>	<b>Name of the Scholar</b>	<b>Supervisor</b>
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#### **Architecture & Planning Department**

1.	Architectural expression as a response to the environment: study of influence in Vidarbha region	Ms. R. Kotharkar	Rajesh Gupta S. A. Deshpande
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#### **Chemistry Department**

	Removal of Cyanide and Pesticides from waste water by application of various combinations of advanced oxidation process (AOPs)	R. Mudliar	S.S. Umare
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#### **Applied Physics Department**

	Study of the electrical properties of lithium borate glass system with addition of aliovalent cation	A. Deshpande	V. K. Deshpande
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### **5.3 Ongoing research projects**

<b>Sr. No.</b>	<b>Title</b>	<b>Principal Investigator</b>	<b>Cost (Rs. In lakhs)</b>
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#### **Applied Mechanics Department**

1.	Development of standardised design and drawing of a bridge cum bandhara system	R. K. Ingle	5.66
2.	Standardised design procedure and type design service reservoir	R. K. Ingle	3.70

<b>Sr. No.</b>	<b>Title</b>	<b>Principal Investigator</b>	<b>Cost (Rs. In lakhs)</b>
<b>Chemical Engineering Department</b>			
1.	Extraction fermentation of carboxylic acids	K. L. Wasewar Diwakar Shende	30
2.	Synthesis and application of ionic liquids for deep-desulfurization of liquid fuels	K. L. Wasewar Mahesh Varma	35
3.	Design of pervaporation reactors	K. L. Wasewar Ajit Rathod	25
4.	Study of drying of food products	K. L. Wasewar	40
5.	Development of green construction material using industrial waste for low-cost housing	S. Mandavgane	37
6.	Development and testing of micro fine powder bio-pesticide using neem	S. Mandavgane	60
7.	Polymer Nanocomposites	S. S. Sonawane	25
8.	Carbon nanotubes in nanofluids application	S. S. Sonawane	25
9.	Biodegradation of polycarbonate: Fungal decomposition post pre-treatment	S. S. Sonawane	15
10.	Synthesis of mineral nanofillers and its application in nanofluids	S. S. Sonawane	15
<b>Civil Engineering Department</b>			
1.	"Process for production of polyhydroxyalkanoates from industrial wastewater in continuous mode reactor system" Patent Filed: Application No.1915/CHE/2009 A dated 11.09.2009	V.A. Mhaisalkar	

<b>Sr. No.</b>	<b>Title</b>	<b>Principal Investigator</b>	<b>Cost (Rs. In lakhs)</b>
2.	Performance evaluation of few regional rural water supply schemes and development of guidelines for their planning, design, operation and management sponsored by MJP	Rajesh Gupta P. R. Bhave	6.75
3.	Water quality reliability based optimal design of water distribution networks sponsored by UGC	Rajesh Gupta P. R. Bhave	6.55
4.	Under preparation use of retarders and antistripping agent to increase durability of bitumen mixes	V.S. Landge	
<b>Electrical &amp; Electronics Engineering Department</b>			
1.	Development of Fractional order PID controller (Analog – FOPID)	BRNS	26.84
2.	FIST Power electronics and Power System protection	DST	130
<b>Electronics &amp; Communication Engineering Department</b>			
1.	Characterization and simulation of NANO devices	Dr. R M Patrikar	272
2.	Development of software modules for aerial video surveillance using parallel processing	Dr. S R Sathe	7.92
<b>Mechanical Engineering Department</b>			
1.	Advanced Technology in Mechanical Engineering (FIST)	Department of Mech. Engg.	160
2.	Crack Detection in Structural Components Using Non Linear Frequency Response Functions	Dr. A Chatterjee	9.36

<b>Sr. No.</b>	<b>Title</b>	<b>Principal Investigator</b>	<b>Cost (Rs. In lakhs)</b>
3.	Development and testing of customized joint replacement implants using layered manufacturing	Department of Mech. Engg.	50.06

#### **Metallurgical & Materials Engineering Department**

1.	Effect of Ply Drops on Fatigue Behaviour of Composites by VERITY Technique	Dr. R K Paretkar	7.40
2.	Effect of Retrogressing and Re-Aging parameters on Mechanical and stress corrosion of 7010 Al Alloys	Dr. R K Paretkar	27.62
3.	KVIC	Dr. D R Peshwe, Dr. P M Padole	30.00

#### **Physics Department**

1.	Development of Radiation resistant optical glasses	V.K. Deshpande	9.89
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### **5.4 Industry Institute Collaboration**

<b>Sr. No.</b>	<b>Name of Industry</b>	<b>Collaboration Activities</b>
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#### **Chemical Engineering Department**

1.	Bhansali Engg. Polymers Ltd., Satnoor, Tah. Sausar, Dist. Chhindwara (M.P.)	Effluent treatment, process development
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#### **Computer Science & Engineering Department**

1.	Persistent Sys. Ltd.	Design of NMS for WLAN system,
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<b>Sr. No.</b>	<b>Name of Industry</b>	<b>Collaboration Activities</b>
2.	Persistent Sys. Ltd.	Evaluation of flat allotment Software

#### **Electronics & Communication Engineering Department**

1.	S M Wireless Solutions Ltd	Characterization of RF devices
2.	Hindustan Semiconductors Ltd	Setting up of LED packaging plant

#### **Mechanical Engineering Department**

1.	Natural frequency testing of turbine blades at MSEB Koradi and MPEB, Obra	Consultancy
2.	B. P. Ergo Ltd, Nagpur	Consultancy in design of newer parts
3.	Soni Polymers, Nagpur	Consultancy in aesthetic design
4.	Sandeep Metalcraft Pvt. Ltd, Nagpur	Consultancy in design of functional parts

#### **Metallurgical & Materials Engineering Department**

1.	M/s. Manikgarh Cement, P.O. Gadchandur, Dist. Chandrapur, Maharashtra. INDIA	Consultancy in Failure of Sheared Bolt of Kiln Girth Gear
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<b>Sr. No.</b>	<b>Name of Industry</b>	<b>Collaboration Activities</b>
2.	M/s. Power Grid Corporation of India Ltd. Gurgaon, Hariyana	Consultancy in Rolled sections from Con-cast Blooms  Consultancy in Con-cast Bloom samples

#### **Chemistry Department**

- |    |               |                                |
|----|---------------|--------------------------------|
| 1. | NEERI, Nagpur | Molecularly Imprinted Polymers |
|----|---------------|--------------------------------|

### **5.5 Innovations and Technology Transfer**

#### **Chemical Engineering Department**

1. Technical Knowhow of Making of Herbal Mosquito Coil to M/s Dhungat Consultancy.
2. Synthesis of Nanoparticles including Organic, Inorganic, Carbon Nanotubes with NCL Pune, UDCT., NMU, IIT Powai, IIT Kanpur, RRCAT Indore

#### **Civil Engineering Department**

1. "Process for production of polyhydroxyalkanoates from industrial wastewater in continuous mode reactor system"\_Patent Filed: Application No.1915/CHE/2009 A dated 11.09.2009
2. Building energy efficiency & passive solar architecture
3. Design of rainwater harvesting system

### **Electrical & Electronics Engineering Department**

1. Two patents filed by Prof. Ashwin Dhabale & Prof. M.V Aware in the areas of:
  - Second Order System Emulator
  - Fractional Order PID Controller by interlacing poles and zeros

### **Electronics & Communication Engineering Department**

1. SMDP Phase- II (VLSI) - Rs. 1.09 Crores

### **Metallurgical & Materials Engineering Department**

1. Development of Blacksmithy Furnace & transfer of this technology to Chatisgarh and Gujrath clusters.



- |     |   |                                  |
|-----|---|----------------------------------|
| 8.  | Secretary, Department of Atomic Energy, Government of India   | Member<br>(ex-officio)           |
| 9.  | Secretary, Department of Information Technology, Government of India  | Member<br>(ex-officio)           |
| 10. | Secretary, Department of Space, Government of India   | Member<br>(ex-officio)           |
| 11. | Chairman, All India Council for Technical Education   | Member<br>(ex-officio)           |
| 12. | Not less than three but not more than five persons to be nominated by the Visitor, at least one of whom shall be a women, having special knowledge or practical experience in respect of education, industry, science or technology | Members                          |
| 13. | Three members of Parliament, of whom two shall be chosen by the House of People and one by the Council of States  | Members                          |
| 14. | Two Secretaries to the State Government of Maharashtra, from amongst the Ministries or departments of that government dealing with technical education where the Institutes are located   | Members<br>(ex-officio)          |
| 15. | Financial Advisor, Ministry of Human Resource Development, Government of India  | Member<br>(ex-officio)           |
| 16. | Joint Secretary to the Govt. of India (Technical) / Additional Secretary (Technical) / Department of Higher Education, Ministry Human Resource Development  | Member-Secretary<br>(ex-officio) |

## 6.2 Board of Governors

The Board of Governors of the Institute consists of the following persons;

- |       |  |             |
|-------|--|-------------|
| 1.    | Nominee of the Visitor   | Chairperson |
| 2.    | Director, VNIT, Nagpur   | Member      |
| 3, 4. | Two persons not below the rank of Joint Secretary to the Govt. of India to be nominated by the Central Govt. from amongst persons dealing with Technical Education & Finance     | Members     |
| 5, 6. | Technologists or industrialists of repute nominated by the Govt. of Maharashtra  | Members     |
| 7, 8. | Persons, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, engineering or science, to be nominated by the Council | Members     |
| 9.    | Professor of the Institute nominated by the Senate   | Member      |
| 10.   | Assistant Professor or a Lecturer of the Institute, to be nominated by the Senate  | Member      |

## 6.3 Finance Committee

The Finance Committee consists of the following persons;

- |    |  |                          |
|----|--|--------------------------|
| 1. | The Chairperson,<br>BoG, V.N.I.T. Nagpur                                     | Chairman<br>(ex-officio) |
| 2. | The Director, V.N.I.T., Nagpur,  | Member<br>(ex-officio)   |
| 3. | Joint Secretary to Govt. of India, Deptt. of Higher Education or his nominee | Member                   |

4.	Financial Advisor, Ministry of HRD, Gol or his nominee	Member
5.	Two persons nominated by the Board from amongst its members	Members
6.	The Registrar, VNIT, Nagpur	Member- Secretary (ex-officio)

#### **6.4 Building and Works Committee**

The Building & Works Committee consists of the following persons;

1.	The Director, V.N.I.T., Nagpur	Chairman  (ex-officio)
2.	One member nominated by the Central Government, not below the rank of Director or Dy. Secretary	Member
3.	One member nominated by the Board of Governors	Member
4.	The Registrar, VNIT, Nagpur	Member- Secretary  (Ex-officio)
5.	Dean, Planning & Development	Member
6.	Nominee of the CPWD or the PWD (Civil Wing)	Member
7.	Nominee of the CPWD or the PWD (Electrical Wing)	Member

## **6.5 Other Committees**

### **6.5.1 The Senate**

The Senate of the Institute consists of the following persons;

- |    |   |                           |
|----|---|---------------------------|
| 1. | The Director, V.N.I.T., Nagpur  | Chairman<br>(Ex-officio)  |
| 2. | The Dy. Director,   | Member (Ex-officio)       |
| 3. | The professors appointed or recognized as such by the Institute for the purpose of imparting instruction in the Institute;  | Members                   |
| 4. | Three persons, one of whom shall be woman not being employees of the Institute, to be nominated by the Chairman in consultation with the Director from amongst educationists of repute, one each from the fields of Science, engineering and humanities | Members                   |
| 5. | Such other members of the staff as may be laid down in the Statutes   | Members                   |
| 6. | Registrar, V.N.I.T., Nagpur   | Secretary<br>(Ex-officio) |

### **6.5.2 Staff Selection Committee**

a) In the case of all teaching posts and posts of scientists of the level of Asst. Professor and above:

- |    |   |          |
|----|---|----------|
| 1. | Director, V.N.I.T., Nagpur  | Chairman |
| 2. | Visitor's Nominee   | Member   |
| 3. | Two nominees of the Board, one being an expert but other than a member of the Board | Members  |

- |    |   |        |
|----|---|--------|
| 4. | One Expert Nominee of the Senate from outside the Institute             | Member |
| 5. | Head of the Department concerned (for other than the post of Professor) | Member |

b) For the non-teaching posts and scientific staff below the scale of the post of lecturer, the Selection Committee shall consist of:

- |    |   |   |
|----|---|---|
| 1. | Director, V.N.I.T., Nagpur                            | Chairman                                      |
| 2. | One Nominee of the Ministry of HRD Central Government | Member  |
| 3. | One Expert from outside the Institute                 | Members                                       |
| 4. | Registrar, V.N.I.T., Nagpur                           | Member  |
| 5. | Head of the Department concerned                      | Member (For posts within the Academic Deptt.) |

(If the post for which selection is being made is lower in status than that occupied by the Registrar, for the post of Registrar and equivalent, there shall one more nominee of the Board)

### 6.5.3 Stores Purchase Committee

- |    |   |           |              |
|----|---|-----------|--------------|
| 1. | Dean (Planning & Development)   | Chairman  | (Ex-officio) |
| 2. | Dean (Research & Consultancy)   | Member    | (Ex-officio) |
| 3. | Teacher Representative (at the level of Professor) on BoG                       | Member    | (Ex-officio) |
| 4. | An Officer dealing with Stores & Purchase in NEERI/NPTI/JNARD&DC/MRSAC/ISRO-RRC | Member    |              |
| 5. | Asst. Registrar (Stores) / OSD (Stores)   | Secretary | (Ex-officio) |

#### **6.5.4 Grievance Committee**

- |    |   |                  |
|----|---|------------------|
| 1. | Professor appointed by the Director     | Chairman         |
| 2. | President, Staff Association            | Member           |
| 3. | President, Non-Teaching Employees Union | Member           |
| 4. | Nominee of the Director, NEERI, Nagpur  | Member           |
| 5. | Sr. faculty nominated by the Director   | Member           |
| 6. | Sr. faculty nominated by the Director   | Member-Secretary |

## 7.0 CONCESSIONS FOR STUDENTS

Students who belong to the weaker section or who are physically challenged apply to respective agencies of State and Central Government and are sanctioned scholarship as per their rules. SC and ST category students of UG Program from Home State are given waiver in payment of fees and their bills are sanctioned from the Deptt. of Social Welfare of Govt. of Maharashtra. Similarly, students placed under other scholarship schemes viz. ICCR, SPDC, Shahu Maharaj, New Central Sector are also given waiver in payment of fees and their bills are sanctioned from the competent authority of State / Central Government. SC and ST category students of UG Program from other States are given refund of fees on sanction and receipt of bills from their respective State, Deptt. of Social Welfare / other agency. Students who are physically challenged are given refund of fees on sanction and receipt of bills from competent authority of respective State Govt. SC and ST category students admitted to M Tech program under GATE category are given waiver in payment of tuition fees.

## **8.0 FINANCIAL STATUS**

### **8.1 Analysis of Plan and Non-Plan Grants**

1. Plan grant is mainly received for construction of buildings, roads / renovation or Institutional and other buildings, procurement of equipment and all developmental work.
2. Non-Plan grant is received for recurring expenditure viz. salary (Pay – Allowances, Pension), Scholarships, Estate Maintenance Work, Departmental Operative expenses, maintenance / repairs of equipment, expenditure on water, electricity, telephone, books, periodicals and contingencies.
3. Apart from Plan and Non-Plan grants the Institute also receives grants from MHRD for R & D, MoD, TAPTEC, World Bank Schemes, TEQIP etc. for promotion of Institute's developmental activities.
4. The annual audit of the Institute accounts has been entrusted to the CAG of India. The office of the Principal Director of Audit (Central), Mumbai has carried out the Audit Account of the Institute during the year 2009-10.

### **8.2 Sources of Funds**

The entire expenditure on Plan and Non-Plan grant is received from the Central Government through Ministry of HRD, Deptt. of Higher Education

### **8.3 Expenditure Position for last three years**

The Income and Expenditure Account for year 2007-08, 2008-09 and 2009-2010 is as below:

**Income****(Rs. in Lakhs)**

<b>S. No.</b>	<b>Particulars</b>	<b>2009-2010</b>	<b>2008-2009</b>	<b>2007-2008</b>
1.	Grant received from the Central Govt.	3712.22	2058.35	1550.00
2.	Fees and Subscription	835.41	439.18	287.32
3.	Income from Investments	-	-	18.97
4.	Interest Earned	68.09	55.37	9.27
5.	Other Income	451.57	3122.27*	26.42
6.	Income from Sales/Services	143.60	-	-
	<b>Total</b>	<b>5210.89</b>	<b>5675.17</b>	<b>1891.98</b>

\* The amount includes Rs. 3095 Lakhs of depreciation value for all the previous years transferred to Capital Account.

**Expenditure****(Rs. in Lakhs)**

<b>S. No.</b>	<b>Particulars</b>	<b>2009-2010</b>	<b>2008-2009</b>	<b>2007-2008</b>
1.	Establishment Expenses i) Pay and Allowances ii) Pension iii) Scholarship	4200.93	2134.30	1522.24
1.	Other Administrative Expenses (Contingency)	981.79	3644.05*	442.83
	<b>Total</b>	<b>5182.72</b>	<b>5778.35</b>	<b>1965.07</b>

\* The amount includes Rs. 3095 Lakhs of depreciation value for all the previous years transferred to Capital Account.

## 9 CENTRAL FACILITIES AND SERVICES

### 9.1 Computer Services Centre

The Institute has an independent Computer Centre for catering to the entire Institute. The Centre remains open for the extended hours everyday. Students visiting the Centre during odd hours have been provided guidance as and when necessary. The Computer Center has adequate number of computers, printers, thin clients etc. Some of the major equipments and their costs are as per the table below.

Sr.No.	Name of the Equipment/ Instrument	Cost of Equipment (approx. in Rs.)
1.	Computers 50 Nos.	15,64,410/-
2.	Printers 5 Nos.	45,000/-
3.	Thin Clients (80 Nos.)	11,00,000/-
4.	1. 10KVA UPS ( 2 Nos.) 2. 5 KVA UPS (1 Nos.)	2,15,000 + 99480/- 1,11,226/-
5.	Management Switches ( 6 Nos.) Passport 8600 (1 Nos.) Tainet Modem (3 Nos.) 1. Router ( 2 Nos.) 2. Contivity Firewall (1 Nos.) 3. AC Cache(1 Nos.) 4. Rack (1 Nos.)	\$ 80,800/- + 1,80,000/-
6.	Sun W/S (2 Nos.) Digital W/S (2 Nos.)	\$ 2333.33
7.	D-Link Switches (5 Nos.) Broad band Router (2 Nos.) Alpha Dec Server(1 Nos.)	32,750 17,800/- 37,000/-

## 9.2 Workshops

The workshop in Mechanical Engineering department is fully equipped and includes a Machine shop, Fitting shop, Carpentry shop, Welding shop, Smithy shop and Foundry shop.

The services of workshop are also available during creation of infrastructure of various departments, service centers of the Institute.

## 9.3 Library

**Total –1, 28,274** (Books, Journals, Standards & Non Book materials)

<b>Collection of Books</b>		<b>(Total Books -1,03,881)</b>	
General Books	- 61,815	Book Bank	- 16,959
E-Books (Through Elsevier)	- 142	Books From Students Aid Fund	- 3,941
Social Welfare Book	- 10,602	UGC / SAF Books	- 4,331
British Council Book Bank	- 291	UG Project Report/PG/PhDs Thesis	- 1,535
Gratis Books	- 3,275	Addl. Intake 120	- 256
Book Bank Scheme for ST	- 386	UGC Book Bank	- 483
<b>Periodicals</b>		<b>(Total Periodicals &amp; Bound Volumes –13,460)</b>	
National	- 79	International	- 79
Gratis Periodicals & Pamphlets	- 63	Bound volumes	- 13,239
<b>Standards</b>		<b>(Total Indian &amp; Foreign Standards -9,096)</b>	
Indian Standards(Print)	- 8,759	Society Standards	- 337
<b>Non-book Material</b>		<b>(Total Non Book Material -1,837)</b>	
CDs & Floppies	- 809	Audio Visual Material-	298
Audio / Video Material	- 730		

**Expenditure during the year (1<sup>st</sup> April 2009 to 31<sup>st</sup> March 2010.)**

<b>Sr. No.</b>	<b>Grants</b>	<b>Amount Allocation (Rs. In Lakhs)</b>	<b>Amount Spent</b>	<b>Volumes added</b>
1	General Books & Maps & E-Books	45.00	33,96,108.82 10,16,777.00	1373 142
2	Book Bank Books	5 .50	5,49,618.71	1542
3	Periodicals & News Papers	45.00	41,42,296.00	158

**Details of electronics resources available through INDEST:**

ACM Digital Library, ASCE Journals, ASME Journals, IEL Online, Nature, Proquest Science, Springer-Verlag's Link, Elsevier's Science Direct and J-Gate CCC.

## **9.4 Laboratories**

### **■ Applied Mechanics Department**

The Department of Applied Mechanics has the following laboratories. A net list of equipment is presented here.

#### **a) Structural dynamic laboratories**

- 500 N electromagnetic exciter
- Dual and single channel analyzer
- Force frequency and accelerometer
- Impact hammer
- Harmonic slip table

**b) Instrumentation laboratory**

- Loading frame 40T capacity
- Hydraulic Jacks, Proving rings
- Load cell, Strain Indicator
- Rebound hammers, Ultrasonic Tester
- Corrosion Analyser

**c) Strength of Materials laboratory**

- UTM 50t, 100t capacities
- Torsion testing machine
- Hardness testing machine
- Impact testing machine
- Hydraulic jacks

**d) Engineering Mechanics Laboratory**

- Flexural roller / Differential Axle & wheel / Single & double purchase crab
- Simply supported beam / Shear leg equipment / Flywheel, Frame
- Coil friction / Gear arrangement etc.

**e) Theory of structures Laboratory**

- Polariscope
- Simply supported beam model
- Continuous beam model
- Begg's deformer

**f) Heavy Structures Laboratory**

- 5t E. O. T Crane
- Loading frame – 2 Nos
- Strong floor – 4 load cells

**g) Concrete composite laboratory**

- Block making machine
- Vibration table
- Compression testing machine
- Load cells

**h) Computational Laboratory**

This laboratory has around 25 Pentium IV PC's with variety of software. List of Structural Engineering software is given below.

- NISA
- SAP 2000
- ETABS
- ADINA
- More than 100 software packages (including source code) on Seismic Analysis of structure.

■ **Civil Engineering Department**

The department has eight well equipped Laboratories catering to the Graduate and Post graduate Programme. In addition various testing and consultancy services are carried out by these Laboratories.

**a) Fluid Mechanics Lab**

- Testing of SG Storeware pipes, general quality and glazing

- Hydraulic test, crushing strength, water absorption etc.
- Testing of CI spigot and socket, soil waste and ventilating pipes
- Testing of AC pipes (including pressure pipes) used in soil, waste and ventilation

**b) Environmental Engineering Lab**

- Ambient Air Analysis
- Source Monitoring
- IC and diesel engine exhaust analysis
- Physio-chemical and bacteriological analysis of Water and Waste Water
- Characterization of municipal solid waste
- Filter Sand Analysis

**c) Transportation Engineering Lab**

- Testing of aggregate, bitumen, sub grade soil, stabilized mixes, pavement designs, traffic engineering and management, Urban transportation planning

**d) Geotechnical Engineering Lab**

- Determination of Physical Index and Engineering properties of soils, Assessment of Bearing Capacity of soils in field, Sub-soil exploration / Site investigation

**e) Engineering Geology & Remote Sensing & GIS Laboratory**

- Determination of Engineering properties of rocks
- Petrographic classification
- Microscopic investigations
- Grain size analysis
- Electrical Resistivity Survey
- Application ARC/INFO Software Image Processing Software

**f) Buildings Materials Laboratory**

- Testing and evaluation of major properties of curriculum material
- Testing of timber / plywood
- Testing of Tiles

**g) Survey Lab**

- Repairs of all major survey instruments
- Conducting minor and major survey for projects

**h) Concrete Technology & Prestressed Concrete Lab**

- Test on coarse and fine aggregates, sieve analysis, water absorption, grading curve etc.
- Test on cement for physical properties like strength, fitness, initial and final setting time
- Concrete mix design, ordinary, medium and high strength; with or without admixtures.
- Non destructive testing; Schmidt hammer test, ultrasonic pulse velocity test.
- Calibration of load gauges of testing machine
- Testing of PCC & RCC beams and slab for load and deflection
- Testing of concrete hollow and solid blocks; & pavement blocks

■ **Electronics & Communication Engineering Department**

VLSI Lab has acquired High Speed Digital simulation setup from Powai Labs. The Lab has setup a cluster for super computing.

EDC & DIC Lab – II – Digital Logic Design and Electronic Devices and Ckts

DSP & Microprocessor Lab : Matlab software based DSP. Practicals & 8085 and 8086 microprocessor based practical for UG, PG courses

Communication Networks Lab : Contains 12 PCs and Software

Comm. Electronics Lab : Analog Comm. And Digital Comm. Experiments developed using Spectrum Analysers

Basic Electronics Lab (Lab experiments developed)

Electronics Workshop

PC Lab – I & II

■ **Computer Science Engineering Department**

a) PC-Lab : 15-20 PCs

b) Unix Lab : 15-20 PCs

c) Project Lab : 15-20 PCs

■ **Electrical & Electronics Engineering Department**

The department is equipped with following laboratories:

a) **Power System Research Lab.**

- (i) Wind Energy Simulator
- (ii) Solar Power Panels
- (iii) Storage & Conversion Devices along with control
- (iv) Micro-machines
- (v) PSIM Software

b) **Power Electronics Lab.**

- (i) Digital Storage Oscilloscope
- (ii) (ii) 10 H.P. (7.5 kW) Transistorized (4 channel 150 MHz)
- (iii) (iii) DSP Trainer Kits
- (iv) (iv) 15 MHz Differential Probe
- (v) 15 MHz Two Channel Power Scopes
- (vi) Experimental kits

- (vii) Precision LCR meter
- (viii) Power Quality Analyser
- (ix) Current Probes.

**c) Power System Protection Lab.**

- (i) Bus-bar protection scheme
- (ii) Transformer protection scheme
- (iii) Distance relays
- (iv) Over-current and Directional relays
- (v) Phase shifting Transformer
- (vi) Differential ( % biased ) relays
- (vii) Sun Workstation with PSCAD Software
- (viii) IBM PC with MATLAB

**d) Electrical Machines Lab.**

- (i) DC Motor- DC Generator Set
- (ii) DC Machine- Induction Machine Set
- (iii) Synchronous Machine-DC Machine Set
- (iv) Induction- Synchronous Machine – DC Machine Set
- (v) Schrage Motor- DC Generator Set
- (vi) Single phase & 3- phase Transformers.

**e) High Voltage /Electrical Drives Lab.**

- (i) High voltage test set- 150 KV
- (ii) Oil Breakdown Tester
- (iii) Capacitance &  $\tan \delta$  test equipment
- (iv) High current injection kit

- (v) Micro-ohm meter
- (vi) Million Mega-ohm meter
- (vii) Partial discharge measurement set.
- (viii) (viii)DC drive (Thyristor based dc drive speed control)
- (ix) AC voltage regulator for ac motor speed control
- (x) Direct torque control ac drive
- (xi) Vector control ac drive
- (xii) DSP based rapid prototyping / HPL system
- (xiii) PSIM software
- (xiv) Digital Storage Oscilloscope

**f) Microprocessor Lab.**

- (i) Digital oscilloscope, 4 channel 150 MHz
- (ii) Microprocessor Trainers
- (iii) Micro Controller Kits.

**g) Measurement and Instrumentation Lab.**

- (i) Schering Bridge
- (ii) Kelvin's Bridge
- (iii) Power / Energy measuring instruments.
- (iv) Potentiometers
- (v) LCR Bridge.

**h) Control Systems Lab.**

- |                     |                                 |
|---------------------|---------------------------------|
| (i) AC Servomotor   | (ii) DC Position Control System |
| (iii) DC Servomotor | (iv) Transfer function Analyser |
| (v) Stepper motor   | (vi) Power scopes               |

- |                            |                           |
|----------------------------|---------------------------|
| (vii) Microprocessor Kit   | (viii) Function Generator |
| (ix) Digital Processor Kit | (x) PID Controller Kit    |
| (xi) A pair of Synchros    | (xii) MATLAB Software     |

**i) PC Lab.**

- |                                  |                       |
|----------------------------------|-----------------------|
| (i) Computers -20 PCs            | (ii) Laser Printers   |
| (iii) Color laser printers       | (iv) LCD Projector    |
| (v) Microsim Design Lab          | (vi) MS Visual Studio |
| (vii) MATLAB                     | (viii) MS Office      |
| (ix) Language compiler for C/C++ | (x) Mipower (xi) PSIM |
| (xii) SKM power tools            | (xiii) Windows O.S.   |

**j) Electrical Engineering / Network Lab.**

- |                             |                                 |
|-----------------------------|---------------------------------|
| (i) CRO                     | (ii) AC/DC Machines Trainer Kit |
| (iii) Measuring instruments | (iv) Experimental Kits          |

**k) Electric Workshop Lab.**

- |                     |             |
|---------------------|-------------|
| (i) Winding Machine | (ii) Megger |
|---------------------|-------------|

■ **Mechanical Engineering Department**

S. No.	Laboratory	Equipments
1.	Machine Design	(i) Computer aided ultrasonic flow detector (ii) Gear rolling tester
2.	Metrology	CNC wire cut EDM machine procured for the lab

- |     |                        |   |
|-----|------------------------|---|
| 3.  | Ergonomics             | Practical of PG Industrial Engineering Students is conducted in this lab  |
| 4.  | CAD CAM                | Rapid Prototyping machine is procured in CAD laboratory of the department. This machine is used to get physical model directly from CAD data on computer.   |
| 5.  | IC Engine              | Oil expeller + diesel injection pressure measurement system.  |
| 6.  | Machine Dynamics       | A Machinery fault simulator setup MFC 2000 has been procured from Spectra Quest, USA and Labview virtual instrumentation software has been installed in PC to access and analyze vibration signals. |
| 7.  | Mechatronics           | L.S.M. Controller, Pneumatic and Electro-Pneumatic Trainer Kit, Robot development kit   |
| 8.  | Fluid Mechanics        | Hydraulic RAM, Air Lift pump, Centrifugal pump, Reciprocating pump, Turbines  |
| 9.  | Heat Transfer          | Counter flow heat exchanger, setup for conduction, natural convection, forced convection  |
| 10. | Mechanical Measurement | Pressure gauge, Strain gauge, Torque meter, Load indicator, Torque wrench   |
| 11. | Steam Power            | Boiler, Steam Turbine, Steam condenser, Steam Engine  |

12. Theory of Machine Gyroscope, Dynamic balancing, Critical speed of rotor
13. Solid Mechanics Universal testing machine, spring testing machine
14. Refrigeration and Air Conditioning AC setup, Refrigeration setup, Thermoelectric Refrigeration setup, Vapor compression refrigeration cycle setup

■ **Metallurgical & Materials Engineering Department**

Laboratory	Equipment
1. Mechanical characterization – Testing of Material Lab	<input type="checkbox"/> Instron Testing Machine (Mechanical) 30 KN
	<input type="checkbox"/> Instron Servo Hydraulic Testing System 100 KN
	<input type="checkbox"/> Hardness Tester
	<input type="checkbox"/> Non-Destructive Testing
	<input type="checkbox"/> Impact Testing Machine
	<input type="checkbox"/> Erichsen Cupping Machine
	<input type="checkbox"/> Universal Testing Machine
2. Structural characterization – Physical Metallurgy Lab	<input type="checkbox"/> Scanning Electron Microscope with EDS attachment
	<input type="checkbox"/> Metallographs with Image Analysis system
	<input type="checkbox"/> Sample Preparation Unit
	<input type="checkbox"/> In-situ Metallography
	<input type="checkbox"/> Image Analyzer
	<input type="checkbox"/> Stereo Microscope
	<input type="checkbox"/> Microscope with Digital Camera, Digital Monitor, and Digital Printer

- |    |  |   |
|----|--|---|
| 3. | Chemical Characterization<br>– Instrumental Analysis Lab | <input type="checkbox"/> Spectrometer<br><input type="checkbox"/> Atomic Absorption Spectrophotometer<br><input type="checkbox"/> Chemical Analysis Equipment<br><input type="checkbox"/> Differential Scanning Calorimeter (DSC)   |
| 4. | Polymer Processing &<br>Testing                          | <input type="checkbox"/> Polymer Moulding and Testing Machine<br><input type="checkbox"/> Vacuum Forming Machine<br><input type="checkbox"/> Melt Flow Indexer<br><input type="checkbox"/> HDT & VS Point Apparatus<br><input type="checkbox"/> Dart Impact Tester for polymer films<br><input type="checkbox"/> Hydraulic Hot Moulding with pressclave<br><input type="checkbox"/> Dual Column Densitometer<br><input type="checkbox"/> Screw Extruder<br><input type="checkbox"/> Environment Controller<br><input type="checkbox"/> Granulator |
| 5. | Corrosion Testing Lab                                    | <input type="checkbox"/> Computerized Potentiostat with 16 channels<br><input type="checkbox"/> Single channel potentiostat<br><input type="checkbox"/> Salt Spray Apparatus<br><input type="checkbox"/> Coating Thickness Measurement Instrument   |
| 6. | Electronics /<br>Electromagnetic Materials<br>Lab        | <input type="checkbox"/> Multi-channel Galvano Meter<br><input type="checkbox"/> Kelvin's Double Bridge Resistivity Meter<br><input type="checkbox"/> LCR Meter<br><input type="checkbox"/> PC Trainers with Basic Facilities   |

- |   |  |
|---|--|
| 7. Wear Lab                               | <input type="checkbox"/> Pin-on-disc wear testing machine<br><input type="checkbox"/> Air Jet Erosion Test Apparatus<br><input type="checkbox"/> Dry Sand Rubber Wheel Abrasion<br><input type="checkbox"/> Erosive Wear testing machine<br><input type="checkbox"/> Slurry abrasion testing machine |
| 8. Workshop & Welding Lab                 | <input type="checkbox"/> Surface Grinding Machine<br><input type="checkbox"/> Lathe Machine<br><input type="checkbox"/> Welding Machine  |
| 9. Heat Treatment & Melting Lab           | <input type="checkbox"/> Vacuum Induction Melting furnace<br><input type="checkbox"/> Medium frequency coreless Induction Melting Furnace<br><input type="checkbox"/> High Temperature Furnace with programmable control   |
| 10. Rural Development Projects (KVIC) Lab | <input type="checkbox"/> Jomini End-Quench hardenability set-up<br><input type="checkbox"/> Policing Station<br><input type="checkbox"/> Belt Grinder<br><input type="checkbox"/> Microscope with camera<br><input type="checkbox"/> Digital Video Camera  |
| 11. Metal Working Process Lab             | <input type="checkbox"/> Rolling Mill<br><input type="checkbox"/> Wire Draw Bench<br><input type="checkbox"/> Swaging Machine<br><input type="checkbox"/> Electrical Furnace<br><input type="checkbox"/> Three Phase Oven<br><input type="checkbox"/> Single Phase Oven                              |

■ **Mining Engineering Department**

- a) Rock Mechanics and Ground Control Laboratory
- b) Mine Surveying Laboratory
- c) Mine Machinery Laboratory
- d) Mine Environment Laboratory
- e) Mine Systems and Design Laboratory
- f) Excavation Laboratory (Proposed)
- g) Mine Safety Engineering Laboratory( Proposed

■ **Architecture Department**

a) **Computer and Audiovisual Laboratory**

b) **Photography Laboratory**

Digital Cameras, Photo processing Unit and Dark Room

c) **Modelling and Carpentry Workshop**

The laboratory has new equipments and tools for modelling and carpentry

d) **Climatology Laboratory**

Heliodome apparatus for solar movement stimulation

e) **Appropriate Technology Laboratory**

Pressed earth block making machine

Fibre reinforced hollow roofing tile making machine

Thatch roofing panel making machine

Simple mould and process for production of roofing tiles and Bamboo reinforced light weight roofing

**f) Construction Yard**

Pressed earth block making machine

Fiber-reinforced hollow roofing tile making machine

Grass/Thatch roofing panel making machine

Simple mould, process for production of roofing tiles

Bamboo reinforced light weight roofing mould

Potter wheel

Soil analysis apparatuses

## **9.5 Hospital, Post Office, Shopping Centre**

### **Hospital**

The institute has a dispensary popularly known as Health Centre. A residential Medical Officer with a team of part-time lady doctor and visiting doctors in Ayurveda, Homeopathy, Physiotherapy, ENT, and eye specialist are available.

The Centre also provides services of a Psychologist and a Dietician. Routine pathology tests can be carried out in the dispensary. The Dental Centre and Yoga Centre are also housed in the premises. The institute firmly advocates holistic approach. Periodical Health Awareness Camps / lectures are conducted by inviting experts in Medical / Health Services. Blood Donation camps are also organized from time to time.

### **Post Office**

An independent building is made available to the postal department.

### **Shopping Complex**

The institute has a shopping complex in the hostel area. The complex has a fruit stall, Cycle repairing shop, Hair cutting saloon, flour mill, stationary shop, tea stall, and also a well-furnished Canteen. Coffee café is also housed on the campus.

## 9.6 Physical Facilities

Each hostel has a Volleyball ground, Table tennis rooms, and Badminton courts. All hostels have a common ground for Hockey and Football. The institute has a Cricket ground with turf wicket. Well-equipped modernized Gymnasium and Physiotherapy Centre are also housed on the campus. The campus has a Recreation Club for supporting staff and Staff club for teachers and officers. The campus has a Guest House (all rooms Air-conditioned) with dining facility.

## 9.7 Games and Sports facilities

- Cricket Ground with turf wickets.
- Football ground.
- Volleyball courts:- with flood-light arrangement
- Badminton court.
- Table tennis room
- Lawn tennis courts
- Basketball court:- with flood-light arrangement
- Hockey ground
- Well-equipped Gymnasiums (separate for boys and girls)

## 9.8 Other facilities like Hostels, Messes, Staff Quarters, Administration etc.

1. Total Number of Hostels :
  - a) Boys Hostels- 7 Nos. - Capacity 1860 students
  - b) Girls Hostels - 1 Nos. - Capacity 178 students
  
2. Total Number of Quarters :
  - a) Type I ( Class IV) - 40 Nos.
  - b) Type II (Class III) - 33 Nos.
  - c) Type III (Asth. Lect) - 08 Nos.
  - d) Type IV (Lecturer) - 43 Nos.

e) Type V (Ass. Prof.) - 08 Nos.

f) Type VI (Prof.) - 09 Nos.

**3. Total No. of Classrooms & their capacity:**

Class rooms : 100 capacity - 11 Nos.

: 60 capacity - 20 Nos.

: 50 capacity - 04 Nos.

: 40 capacity - 12 Nos.

: 30 capacity - 12 Nos.

**4. Number of Playgrounds : 10 Nos.**

**5. Number of Gymnasium : 02 Nos.**

**6. Number of Auditorium : 01 No.**

**7. No. of Seminar Halls/ Conference Halls : 07 Nos.**

**8. Any other Facilities available in the Campus: Medical centre, Shopping centre, Bank, Post office, Canteen, Recreation clubs.**

## 10 NOTABLE ACHIEVEMENTS

### Patents registered

Dr Sachin Mandavgane

1. A neem based free flowing dry powder pesticidal formulation and a process for preparing such formulation. (No. 1851/MUM/2009)
2. An ambiphilic, mesoporous material of agricultural origin and a process for making the same (No. 316/MUM/2010)  
Manufacture of Building blocks from industrial waste and uses thereof (No. 1472/MUM/2009)

Prof. Ashwin Dhabale and Prof. M.V Aware

- Second Order System Emulator
- Fractional Order PID Controller by interlacing poles and zeros.

### Awards

Dr. Rajesh Gupta bagged G.M. Nawathe best paper prize by Indian Society for Hydraulics for paper presented at National Conference Hydro 2010.

Prof. H. M. Suryawanshi received IETE- Bimal Bose Award (National) for distinguished achievements, 2009.

Prof. Sarika Bahadure received Commendation Prize for the National Best Thesis Award, known as Prof. V.N. Parasad Best Thesis in Planning for the year 2009

Power Prize, 2008 was awarded by Govt. of India, Ministry of Energy to Prof. P. S. Kulkarni & O. P. Yadav for a paper titled "Short Run Marginal Cost based Transmission Pricing for Wheeling Transactions under Deregulated Environment of Power Sector."

**Appointment**

Prof. V.S. Kapse appointed as Council Member, Institute of Town Planners, New Delhi for session 2009-2010, Chairman Institute of Town Planners, Maharashtra Regional Chapter, Nagpur for the session 2009-2010, Expert member of Town & Country Planning Board AICTE, New Delhi for 3 years, Coordinator of STTP "Managing Research in Architecture & Planning", Organizing committee member for Media & Publicity in NATCON 2009, IIA Nagpur, member of Board of studies of Architecture & Planning of Amaraoti & Mysore University, respectively.

Prof. Aniket Deshmukh appointed as a Chairman Building Committee of ITPI, Maharashtra Regional Chapters, Nagpur and Coordinator for the presentation of the Planning Thesis Seminar at ITPI, MRC, Nagpur on 26<sup>th</sup> June 2009.

Prof. Kishor Joglekar appointed as a Member of Education Standing Committee at ITPI, New Delhi

# 11. ANNEXURES

## 11.1 Board of Governors

Sr. No.	Name	Designation
1.	<b>Shri S. S. Sohoni, IAS (Retd.)</b> 4 Manali Apartment, Prabhat Road, 15 <sup>th</sup> Lane, Pune – 411 004	<b>Chairman</b>
2.	<b>Shri N. K. Sinha, IAS</b> Jt. Secretary to Govt. of India, Deptt. of Secondary and Higher Education, MHRD, 'C' Wing, Shastri Bhavan, New Delhi–110 001	Member
3.	<b>Shri J. S. Saharia, IAS</b> Principal Secretary to Govt. of Mah., Department of Technical Education, Mantralaya Annex, Mumbai–400032	Member
4.	<b>Prof. Dev Vrata</b> Adviser (M & T), AICTE, 7th Floor, Chanderlok Building, Janpath, New Delhi – 110 001	Member
5.	<b>Dr. Vijay Bhatkar</b> Chairman, Dishnet DSL Limited, 1, Bhuvaneshwar Colony, Off. Abhmanashri Soc. Pashan Rd, Pune – 411 008	Member
6.	<b>Prof. S. V. Bhat</b> Deptt. of Physics, Indian Institute of Science, Bangalore – 560 012	Member
7.	<b>Shri V. R. Jamdar</b> 101, Verma Layout, North Ambazari Road, Nagpur.	Member
8.	<b>Mr. Shashikant Chaudhary</b> CEO, Global Logic (India Delivery Centre), 15B Mauli, Old Sneh Nagar, Yogakshem Layout, Nagpur – 440015	Member

- |     |   |           |
|-----|---|-----------|
| 9.  | <b>Prof. U. N. Gaitonde</b><br>Deptt. of Mechanical Engineering, Indian Institute of Technology,<br>Powai, Mumbai – 400 076 | Member    |
| 10. | <b>Dr. S. S. Gokhale</b><br>Director, V.N.I.T., Nagpur  | Member    |
| 11. | <b>Dr. A. G. Deshpande</b><br>Professor in Mathematics, VNIT, Nagpur  | Member    |
| 12. | <b>Shri V. N. Rajurkar</b><br>Asst. Professor in Electrical Engineering, VNIT, Nagpur                                       | Member    |
| 13. | <b>Dr. B. M. Ganveer</b><br>Registrar, VNIT, Nagpur   | Secretary |

## 11.2 Finance, Building and Works and other Committees

### Finance Committee

- |    |   |          |
|----|---|----------|
| 1. | Shri S. S. Sohoni, IAS (Retd.)<br>4 Manali Apartment,<br>Prabhat Road, 15 <sup>th</sup> Lane,<br>PUNE – 411 004 | Chairman |
| 2. | Dr. S. S. Gokhale,<br>Director, V.N.I.T., Nagpur  | Member   |
| 3. | Shri H. R. Joshi<br>Director (NITs)<br>Ministry of HRD, Shastri Bhawan,<br>New Delhi–110001                     |          |
| 4. | Shri S. K. Ray<br>Financial Adviser,<br>Ministry of HRD, 118-C,<br>Shastri Bhawan, New Delhi–110001             | Member   |

- |    |   |                      |
|----|---|----------------------|
| 5. | Shri V. R. Jamdar<br>101, Verma Layout,<br>North Ambazari Road, NAGPUR. | Members              |
| 6. | Dr. B. M. Ganveer<br>Registrar, VNIT, Nagpur                            | Member-<br>Secretary |

**Building & Works Committee**

- |    |  |                     |
|----|--|---------------------|
| 1. | Dr. S. S. Gokhale,<br>Director, V.N.I.T., Nagpur   | Chairman            |
| 2. | Mr. R. K. Bandyopadhyay,<br>Under Secretary to the Gol,<br>Department of Higher Education,<br>Ministry of HRD, "C" Wing,<br>Shastri Bhawan, New Delhi-110001 | Member              |
| 3. | Shri V. R. Jamdar<br>101, Verma Layout,<br>North Ambazari Road,<br>NAGPUR.   | Member              |
| 4. | Dr. B. M. Ganveer<br>Registrar, VNIT, Nagpur   | Member<br>Secretary |
| 5. | Dr. L. M. Gupta<br>Dean (P&F), V.N.I.T., Nagpur  | Member              |
| 6. | Mr. A. P. Raut,<br>Superintending Engineer (Civil),<br>Central P.W.D., Bunglow No. 6,<br>Seminary Hills, NAGPUR-440 006                                      | Member              |

7. Shri Arvind Garg, Member  
Suptd. Engineer (Electrical)  
Nagpur Central Electrical Circle,  
CPWD, CGO Compelx, B-Block,  
3rd Floor, Seminary Hills,  
NAGPUR - 440006

**Senate:**

1. Dr. S. S. Gokhale Chairman  
Director, VNIT, Nagpur

2. Prof. S. V. Bhat, Member  
Deptt. of Physics, Indian Institute of Science,  
Bangalore – 560 012

3. Prof. T. S. Sampath Kumar, Member  
Asso. Prof., Deptt. of Metallurgical & Materials Engg.,  
Indian Institute of Technology, Madras, Chennai – 600 036

4. Prof. (Ms.) R. B. Nair, Member  
Head, Deptt. of Humanities & Social Science,  
Indian Institute of Technology, Delhi,  
Hauz Khas, New Delhi – 110 016

5. Dr. A. G. Kothari, Dean (Administration) Member

6. Dr. L. M. Gupta, Dean (Planning & Finance) Member

7. Dr. O. G. Kakde, Dean (R&D) & Dean (Acd) Member

8. Dr. S. S. Umre, Dean (Students Counselling) Member

9. Dr. M. M. Mahajan, Head, Deptt. of Applied Mechanics Member

10. Dr. R. K. Ingle, Professor in Applied Mechanics Member

11. Dr. O. R. Jaiswal, Professor in Applied Mechanics Member

12. Dr. G. N. Ronghe, Professor in Applied Mechanics Member

13. Dr. K. L. Wasewar, Head, Chemical Engg. Deptt., Member

14.	Dr. Rajesh Gupta, Head, Civil Engg. Deptt.	Member
15.	Dr. A. D. Pophale, Professor in Civil Engg.	Member
16.	Dr. M. K. Khedkar, Head, Deptt. of Electrical Engg.	Member
17.	Dr. M. V. Aware, Professor in Electrical Engg.	Member
18.	Dr. H. M. Suryawanshi, Professor in Electrical Engg.	Member
19.	Dr. K. L. Thakre, Professor in Electrical Engg.,	Member
20.	Dr. R. M. Patrikar, Head, Deptt. of Electronics & Comp. Sc.	Member
21.	Dr. A. G. Keskar, Professor in Electronics & Comm.	Member
22.	Dr. C. S. Moghe, Deptt. of Electronics & Computer Sc.	Member
23.	Dr. K. D. Kulat, Professor in Electronics & Comm.	Member
24.	Dr. S. R. Sathe, Professor in Computer Science Engg.	Member
25.	Dr. Animesh Chatterjee, Head, Deptt. of Mechanical Engg.	Member
26.	Dr. H. T. Thorat, Professor in Mechanical Engg	Member
27.	Dr. P. M. Padole, Professor in Mechanical Engg	Member
28.	Dr. N. V. Deshpande, Deptt. of Mechanical Engg.	Member
29.	Dr. I. K. Chopde, Professor in Mechanical Engg.	Member
30.	Dr. A. P. Patil, Head, Deptt. of Metallurgical & Mat. Engg.	Member
31.	Dr. R. K. Paretkar, Professor Metallurgical & Materials Engg.	Member
32.	Dr. S. U. Pathak, Professor Metallurgical & Materials Engg.	Member
33.	Dr. D. R. Peshwe, Professor Metallurgical & Materials Engg.	Member
34.	Dr. N. R. Thote, Head, Deptt. of Mining Engg.	Member
35.	Prof. S. Shringarputale, Professor of Mining Engg.	Member
36.	Smt. C. Sabnani, Head, Deptt. of Architecture	Member
37.	Dr. V. S. Adane, Professor in Architecture,	Member
38.	Dr. (Ms.) Alpana Dongre, Professor in Architecture	Member
39.	Dr. R. S. Gedam, Head, Deptt. of Applied Physics	Member
40.	Dr. V. K. Deshpande, Professor in Applied Physics	Member

41.	Dr. J. D. Ekhe, Head, Deptt. of Chemistry	Member
42.	Dr. A. K. Tiwari, Head, Deptt. of Mathematics	Member
43.	Dr. A. G. Deshpande, Professor in Mathematics	Member
44.	Dr. Y. M. Deshpande, Head, Deptt. of Humanities,	Member
45.	Dr. V. A. Mhaisalkar, Professor in Civil Engg. & i/c T&P,	Member
46.	Dr. A. D. Ghare, Chief Warden	Member
47.	Dr. B. M. Ganveer, Registrar	Secretary

**Stores Purchase Committee**

1.	Dr. L. M. Gupta, Dean (P&F)	Chairman
2.	Shri V. R. Jamdar	Member
3.	Shri N. V. Pandey	Member
4.	Dr. A. G. Keskar	Member
5.	Shri R. L. Kachroo, OSD (Stores)	Member-Secretary

**Grievance Committee**

1.	Prof. S. S. Shringarputale	Chairman
2.	Prof. V. K. Bakde	Member
3.	Shri A. D. Usarbase	Member
4.	Dr. C. V. Chalpati Rao	Member
5.	Dr. H. M. Suryawanshi	Member
6.	Smt. Chandra Sabnani	Member-Secretary

### 11.3 Research projects and Consultancy Jobs

Sr. No.	Title of Project / Industry	Co-ordinator/s	Cost (Rs. in Lakhs)
<b>Applied Mechanics Department</b>			
1.	Development of standardised design and drawing of a bridge cum bandhara system	R. K. Ingle	5.66
2.	Standardized design procedure and type design service reservoir	R. K. Ingle	3.70
3.	Control of wind response of chimneys using tuned mass dampers	O. R. Jaiswal	10.35
4.	Development of Standardized design procedure and type design for small elevated service reservoirs	R. K. Ingle	5.46
<b>Department of Chemical Engineering</b>			
1.	Extraction fermentation of carboxylic acids	K. L. Wasewar D. Shende	30
2.	Synthesis and application of ionic liquids for deep-desulfurization of liquid fuels	K.L. Wasewar M. Varma	35
3.	Design of pervaporation reactors	K. L. Wasewar A. Rathod	25
4.	Study of drying of food products	K.L. Wasewar	40
5.	Development of green construction material using industrial waste for low-cost housing	S. Mandavgane	37

<b>Sr. No.</b>	<b>Title of Project / Industry</b>	<b>Co-ordinator/s</b>	<b>Cost (Rs. in Lakhs)</b>
6.	Development and testing of micro fine powder bio-pesticide using neem	S. Mandavgane	60
7.	Polymer Nanocomposites	S.S.Sonawane	25
8.	Carbon nanotubes in nanofluids application	S.S.Sonawane	25
9.	Biodegradation of polycarbonate: Fungal decomposition post pre-treatment	S.S.Sonawane	15
10.	Synthesis of mineral nanofillers and its application in nanofluids	S.S.Sonawane	15

#### **Department of Civil Engineering**

1.	Performance evaluation of few regional rural water supply schemes and development of guidelines for their planning, design, operation and management sponsored by MJP	R. Gupta, P. R. Bhave	6.75
2.	Water quality reliability based optimal design of water distribution networks sponsored by UGC	R.Gupta, P. R. Bhave	6.55
3.	Water quality reliability based optimal design of water distribution networks	R. Gupta	6.56
4.	Development of low cost absorbents for the removal of fluoride from drinking water	D. H. Lataye	15.60
5.	Design & development of decision support tool for sustainable construction	R.V. Ralegaonkar	15.50

<b>Sr. No.</b>	<b>Title of Project / Industry</b>	<b>Co-ordinator/s</b>	<b>Cost (Rs. in Lakhs)</b>
<b>Department of Electrical &amp; Electronics Engineering</b>			
1.	Development of Fractional order PID controller (Analog – FOPID)	Dr. M. V. Aware	26.84
2.	FIST- Power electronics and Power System protection	Department of Electrical Engineering	130.00
<b>Department of Electronics &amp; Communication Engineering</b>			
1.	Characterization and simulation of NANO devices (312.00)	Dr. R.M.Patrikar	272.00
2.	Development of software modules for aerial video surveillance using parallel processing	Dr. S. R. Sathe	7.92
<b>Department of Mechanical Engineering</b>			
1.	Advanced Technology in Mechanical Engineering (FIST)	Department of Mechanical Engineering	160.00
2.	Crack Detection in Structural Components Using Non Linear Frequency Response Functions	Dr.A.Chatterjee	9.364
3.	Development and testing of customized joint replacement implants using layered manufacturing	Department of Mechanical Engineering	50.06

<b>Sr. No.</b>	<b>Title of Project / Industry</b>	<b>Co-ordinator/s</b>	<b>Cost (Rs. in Lakhs)</b>
4.	Natural frequency testing of turbine blades at MSEB Koradi and MPEB, Obra	Department of Mechanical Engineering	
5.	B. P. Ergo Ltd, Nagpur	Department of Mechanical Engineering	
6.	Soni Polymers, Nagpur	Department of Mechanical Engineering	
7.	Sandeep Metalcraft Pvt. Ltd, Nagpur	Department of Mechanical Engineering	

**Department of Metallurgical & Materials Engineering**

1.	Effect of Ply Drops on Fatigue Behaviour of Composites by VERITY Technique	Dr. R K Paretkar	7.40
2.	Effect of Retrogressing and Re-Aging parameters on Mechanical and stress corrosion of 7010 AL Alloys	Dr. R K Paretkar	27.62
3.	KVIC	Dr.D.R.Peshwe Dr. P M Padole	30.00
4.	M/s. Manikgarh Cement, P.O. Gadchandur, Dist. Chandrapur, Maharashtra. INDIA	Department of Metallurgical & Materials Engineering	0.26

<b>Sr. No.</b>	<b>Title of Project / Industry</b>	<b>Co-ordinator/s</b>	<b>Cost (Rs. in Lakhs)</b>
5.	M/s. Power Grid Corporation of India Ltd. Gurgaon, Hariyana	Department of Metallurgical & Materials Engg	0.55

#### **Department of Architecture & Planning**

1.	RMC Ready Mix Pvt. Ltd. Mumbai	Department of Architecture & Planning	
2.	Western Coalfields Ltd.	Department of Architecture & Planning	

#### **Department of Physics**

1.	Development of Radiation-resistant optical glasses	V K Deshpande	9.89
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### **11.4 Faculty**

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
<b>Department of Applied Mechanics</b>			
1.	L. M. Gupta	Professor	Ph.D.
2.	O.R. Jaiswal	Professor	Ph.D.
3.	R. K. Ingle	Professor (CAS)	Ph.D.
4.	G. N. Ronghe	Professor (CAS)	Ph.D.
5.	M. M. Mahajan	Professor (CAS)	Ph.D.
6.	S. Bakare	Associate Professor	Ph.D.

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
7.	R. S. Sonparote	Associate Professor (CAS)	M.Tech.
8.	B. Borghate	Assistant Professor	M.Tech.
9.	Y. Vyavahare	Assistant Professor	M.Tech.
10.	A.P.Khatri	Assistant Professor	M.Tech
<b>Department of Chemical Engineering</b>			
1.	K.L.Wasewar	Associate Professor	Ph.D
2.	D. Shende	Assistant Professor	M.Tech
3.	A. P.Rathod	Assistant Professor	M.Tech
4.	S.M.Kodape	Assistant Professor	M.Tech
5.	S.S.Sonwane	Assistant Professor	Ph.D
6.	Ms. S. Hiwarkar	Assistant Professor	M.Tech
7.	S. Mandavgane	Assistant Professor	Ph.D
8.	M. Verma	Assistant Professor	Ph.D
<b>Department of Civil Engineering</b>			
1.	P. D. Porey	Professor	Ph.D.
2.	V.A. Mhaisalkar	Professor	Ph.D.
3.	R. Gupta	Professor	Ph.D.
4.	A. D. Pophale	Professor(CAS)	Ph.D.
5.	R. R. Gawalpanchi	Associate Professor	M.E.
6.	D. J. Katyayan	Associate Professor	M.Tech.
7.	A.D.Ghare	Associate Professor	Ph.D.
8.	R.V.Ralegaonkar	Associate Professor	Ph.D

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
9.	A.R. Tembhurkar	Associate Professor	Ph.D.
10.	Y. B. Katpatal	Associate Professor(CAS)	Ph.D.
11.	Mrs. M. V. Latkar	Associate Professor(CAS)	Ph.D.
12.	V. S. Landge	Associate Professor (CAS)	Ph.D.
13.	A.D. Vasudeo	Assistant Professor	M.Tech.
14.	D.H. Lataye	Assistant Professor	Ph.D.
15.	S.P. Wanjari	Assistant Professor	M.Tech.
16.	Ms. S. R. Dongre	Assistant Professor	M.Tech
17.	A.G.Tawalare	Assistant Professor	M.Tech

**Department of Computer Science Engineering**

1.	C. S. Moghe	Professor	Ph.D.
2.	O.G. Kakde	Professor	Ph.D.
3.	S. R. Sathe	Professor (CAS).	Ph.D.
4.	P. S. Deshpande	Associate Professor	Ph.D.
5.	U. A. Deshpande	Associate Professor	Ph.D.
6.	R. B. Keskar	Associate Professor	M.Tech
7.	A. S. Mokhade	Assistant Professor	M.Tech.
8.	Mrs. M.M. Dhabu	Assistant Professor	M.Tech.
9.	A. Tiwari	Assistant Professor	M.Tech.
10.	Mrs. D. Shrimankar	Assistant Professor	M.Tech
11.	Mrs. S. Raut	Assistant Professor	M.E.

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
<b>Department of Electrical &amp; Electronics Engineering</b>			
1.	A. G. Kothari	Professor.	Ph.D.
2.	K. L. Thakre	Professor.	Ph.D.
3.	M. K. Khedkar	Professor.	Ph.D.
4.	H. M. Suryavanshi	Professor.	Ph.D.
5.	M. V. Aware	Professor (CAS).	Ph.D.
6.	S. R. Bhide	Associate Professor	Ph.D.
7.	B. S. Umre	Associate Professor	Ph.D.
8.	V. B. Borghate	Associate Professor	Ph.D.
9.	Mrs. M.A. Chaudhari	Associate Professor	Ph.D.
10.	V. N. Rajurkar	Associate Professor(MPS)	M.Tech.
11.	M. R. Ramteke	Associate Professor(CAS)	Ph.D.
12.	S. S. Bhat	Associate Professor(CAS)	Ph.D.
13.	P. S. Kulkarni	Associate Professor(CAS)	Ph.D.
14.	Mrs. A. S. Junghare	Associate Professor(CAS)	Ph.D.
15.	S. R. Tambey	Assistant Professor	M.Tech.
16.	V. S. Kale	Assistant Professor	B.E.
17.	Ms. N. R. Patne	Assistant Professor	M.Tech.
18.	A. Dhabale	Assistant Professor	M.Tech.
19.	Mrs. R.J.Satputalay	Assistant Professor	M.E.
<b>Department of Electronics &amp; Communication Engineering</b>			
1.	A. G. Keskar	Professor	Ph.D.

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
2.	R.M.Patrikar	Professor	Ph.D
3.	K. D. Kulat	Professor(CAS)	Ph.D.
4.	A. S. Gandhi	Associate Professor	Ph.D.
5.	R. B. Deshmukh	Associate Professor	Ph.D.
6.	S.B. Dhok	Assistant Professor	M.Tech.
7.	V. R. Satpute	Assistant Professor	M.Tech.
8.	A. G. Kothari	Assistant Professor	Ph.D
9.	Mrs. P. H. Ghare	Assistant Professor	B.E.
10.	K. Surender	Assistant Professor	M.Tech
11.	J. Sengupta	Assistant Professor	M.Tech

**Department of Mechanical Engineering**

1.	H.T. Thorat	Professor	Ph.D.
2.	P. M. Padole	Professor	Ph.D.
3.	N. V. Deshpande	Professor	Ph.D.
4.	I. K. Chopde	Professor	Ph.D.
5.	A. Chatterjee	Professor(CAS)	Ph.D.
6.	S. V. Bopshetty	Associate Professor	Ph.D.
7.	S. B. Thombre	Associate Professor	Ph.D.
8.	A. M. Kuthe	Associate Professor	Ph.D.
9.	D. B. Zodpe	Associate Professor	Ph.D.
10.	Y.M. Puri	Associate Professor	Ph.D.

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
11.	J.G. Suryawanshi	Associate Professor	Ph.D.
12.	A. Andhare	Associate Professor	Ph.D.
13.	A.S. Dhoble	Assistant Professor	M.Tech.
14.	V.M. Nistane	Assistant Professor	M.Tech.
15.	M.S. Kotambkar	Assistant Professor	M.Tech.
16.	Ms. R.V. Uddanwadikar	Assistant Professor	Ph.D
17.	A.A. Thakre	Assistant Professor	M.Tech.
18.	K.M.Ashtankar	Assistant Professor	M.Tech
19.	D. Jolhe	Assistant Professor	M.Tech
20.	H. Jawale	Assistant Professor	M.Tech
21.	P. Sawarkar	Assistant Professor	M.Tech
22.	P.V.Kane	Assistant Professor	M.Tech
23.	N. Lautre	Assistant Professor	M.Tech
24.	S. Dhandole	Assistant Professor	Ph.D.
<b>Department of Metallurgical &amp; Materials Engineering</b>			
1.	S. U. Pathak	Professor	Ph.D.
2.	R. K. Paretkar	Professor	Ph.D.
3.	D. R. Peshwe	Professor	Ph.D.
4.	A. P. Patil	Professor(CAS)	Ph.D.
5.	A. D. Chopde	Associate Professor	M.E.
6.	V. K. Didolkar	Associate Professor	Ph.D.

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
7.	S. N. Paul	Associate Professor	Ph.D.
8.	A.A.Likhite	Associate Professor	Ph.D
9.	J.G. Bhat	Associate Professor	Ph.D
10.	D. V. Moghe	Associate Professor(Designated)	M.Tech.
11.	S. G. Sapate	Associate Professor(CAS)	Ph.D.
12.	R.C. Rathod	Assistant Professor	B.E.
13.	R.K. Khatirkar	Assistant Professor	M.Tech.
14.	Y.Y. Mahajan	Assistant Professor	B.E.
15.	A. R. Ballal	Assistant Professor	M.Tech.
16.	R.V.Taiwade	Assistant Professor	M.Tech
17.	Mrs. M.M. Thawre	Assistant Professor	M.Tech
<b>Department of Mining Engineering</b>			
1.	S.B. Shringarputale	Professor	B.E., M.Sc.
2.	I. L. Muthreja	Associate Professor	M.Tech.
3.	N. R. Thote	Associate Professor	Ph.D.
4.	R. R. Yerpude	Associate Professor(CAS)	Ph.D.
5.	S. S. Gupte	Associate Professor(CAS)	M.Tech
6.	S. Panchal	Assistant Professor	M.Tech
<b>Department of Architecture &amp; Planning</b>			
1.	V. S. Adane	Professor	Ph.D.
2.	Smt. A. Dongre	Professor	Ph.D

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
3.	V. S. Kapse	Associate Professor	M.Tech.(Urban Plng.)
4.	V. K. Bakde	Associate Professor	B.Arch., AIIA
5.	C. Sabnani	Associate Professor	M.Arch.
6.	R. Kotharkar	Associate Professor	Ph.D.
7.	A. P. Patil	Associate Professor	B.Arch, PG Diploma
8.	Mrs. S. Khan	Assistant Professor	M.Arch.
9.	A. M. Deshmukh	Assistant Professor	M.Tech.
10.	K. N. Joglekar	Assistant Professor	M.Tech.
11.	S.M. Deshkar	Assistant Professor	M.Plan
12.	V.V. Ghuge	Assistant Professor	M.Tech.
13.	A. M Deshmukh	Assistant Professor	M.Tech.
14.	A. Wahurwagh	Assistant Professor	M.Arch.
15.	S. P. Bahadure	Assistant Professor	B.Arch.
<b>Department of Chemistry</b>			
1.	S.S. Umare	Professor.	Ph.D.
2.	J.D. Ekhe	Associate Professor(CAS)	Ph.D.
3.	Ms. A. Kumar	Assistant Professor	Ph.D.
4.	C. Das	Assistant Professor	Ph.D.
5.	Ms. R. Motghare	Assistant Professor	Ph.D.
6.	A.V.Wankhade	Assistant Professor	M.Tech.

<b>Sr.No</b>	<b>Name</b>	<b>Designation &amp; Educational Qualification</b>	
<b>Department of Humanities</b>			
1.	Y.M.Deshpande	Associate Professor	Ph.D
2.	Ms. M. Ghosal	Associate Professor(CAS)	Ph.D.,
3.	G.N.Nimbarte	Assistant Professor	M.A.
<b>Department of Mathematics</b>			
1.	A. G. Deshpande	Professor(CAS)	Ph.D.
2.	A. K. Tiwari	Professor(CAS)	Ph.D.
3.	G. P. Singh	Associate Professor	Ph.D.
4.	P.P. Chakravarthy	Assistant Professor	Ph.D.
5.	D. Masabathula	Assistant Professor	Ph.D.
6.	Ms. P. Mahale	Assistant Professor	Ph.D.
<b>Department of Applied Physics</b>			
1.	V. K. Deshpande	Professor	Ph.D.
2.	R.S. Gedam	Assistant Professor	Ph.D.
3.	Mrs. S. Patrikar	Assistant Professor	Ph.D.
4.	Mrs. A.V.Deshpande	Assistant Professor	Ph.D.
5.	Mrs. S. M. Giripunje	Assistant Professor	Ph.D.
<b>Department of Physical Education</b>			
1.	V.R. Wanjari	Lecturer	M.P.Ed.
2.	Simon Robin	Lecturer	M.P.Ed.
3.	P.S. Nagrale	Lecturer	M.P.Ed.

## 11.5 Administrative and other Staff

### Faculty with administrative responsibilities

Sr. No.	Name	Designation
1.	Dr. A. G. Kothari, Professor in Electrical Engg. Dept.	Dean (Adm.)
2.	Dr. L. M. Gupta, Professor in Applied Mechanics Dept.	Dean (P & F)
3.	Dr. O. G. Kakde, Professor in Electronics & Comp. Sc. Dept.	Dean (R & D) & i/c Dean (Acad)
4.	Dr. S. S. Umre, Assistant Professor in Electrical Engg. Dept.	Dean (Student Counselling)
5.	Dr. V. A. Mhaisalkar, Professor in Civil Engg. Dept.	O i/c T & P
6.	Dr. A. D. Ghare, Associate Professor in Civil Engg. Dept.	Chief Warden

### HEADS OF THE ACADEMIC DEPARTMENTS

Sr. No.	Department	Head
1.	Applied Mechanics	Dr. M. M. Mahajan
2.	Architecture & Planning	Smt. C. Sabnani
3.	Chemical Engineering	Dr. K. L. Wasewar
4.	Civil Engineering	Dr. Rajesh Gupta
5.	Electrical Engineering	Dr. M. K. Khedkar
6.	Electronics & Computer Science Engineering	Dr. R. M. Patrikar
7.	Mechanical Engineering	Dr. A. Chatterjee
8.	Metallurgical & Materials Engineering	Dr. A. P. Patil
9.	Mining Engineering	Dr. N. R. Thote
10.	Physics	Dr. R. S. Gedam

11.	Chemistry	Dr. J. D. Ekhe
12.	Mathematics	Dr. A. K. Tiwari
13.	Humanities	Dr. Y. M. Deshpande

#### **ADMINISTRATIVE / TECHNICAL OFFICERS**

<b>Sr. No</b>	<b>Name</b>	<b>Designation</b>
1.	Dr. S. S. Gokhale	Director
2.	Dr. B. M. Ganveer	Registrar
3.	Mr. D. M. Parate	Dy. Registrar (Academic)
4.	Mrs. A. A. Ansingkar	Asst. Registrar (Exam)
5.	Mr. A. G. Bhurle	Stores Officer
6.	Mr. N. B. Chingalwar	Hostel Manager
7.	Mr. K. G. Barapatre	Asst. Engineer
8.	Mr. S. M. Deshmukh	Asst. Proctor
9.	Dr. S. J. Batra	Medical Officer
10.	Mr. R. M. Deshpande	Librarian
11.	Dr. V. V. Sohoni	Workshop Superintendent
12.	Mr. V. D. Ghuge	Foreman
13.	Mr. D. H. Maiske	System Manager
14.	Mr. V. J. Abhyankar	System Analyst
15.	Mrs. M. R. Pimple	Programmer
16.	Ms. M. B. Bheevgade	Programmer

## 11.6 Staff Members deputed/ Sponsored for Training

Sr. No.	Name	Name of Programme and Organizer	Date
<b>Chemical Engineering Department</b>			
1.	K. L. Wasewar	International Conference on Challenges in Biotechnology and Food Technology (ICBF-2009) Annamalai University, Tamilnadu INDIA	Oct.2009
2.	K. L. Wasewar	International Conference on Arts, Science, Management, and Engineering Institute of Technology, Belgaum, Karnataka, INDIA	Apr.2009
3.	K. L. Wasewar, D. Shende	National Symposium on "Reaction Engineering" NSRE-2010, National Institute of Technology (NIT) Raipur	Jan.2010
4.	S. S. Sonawane, A.P.Rathod	Summer School "Petroleum Refining & Petrochemicals", Indian Oil Institute of Petroleum Management (IIPM), Gurgaon	Jun.2009
5.	S. S. Sonawane	Conference on Chemcad Process Simulation, Axiom Engineers Mumbai	Feb.2010
6.	S. S. Sonawane	AspenTech Certificate course EHY101 Aspen HYSYS: Process Modeling , AspenTech, Mumbai	Feb.2010
7.	D. Z. Shende	Workshop on Fuel Cell Technology and Hydrogen Energy, FITT, IIT Delhi	Jul. 2009
<b>Department of Civil Engineering</b>			
1.	R.Gupta	33 <sup>rd</sup> IAHR Congress "Water Engineering for Sustainable Environment"	Aug.2009

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
2.	R.Gupta	11 <sup>th</sup> International Conference on Improving Service Delivery in Water Supply	Jan.2010
3.	R.Gupta	42 <sup>nd</sup> Annual Convention of IWWA, Jodhpur	Jan.2010
4.	A. D. Ghare	National Workshop on Ground Water Regulatory and Protection Measures Nagpur	Feb.2010
5.	R.V.Ralegaonkar	Fire Safety Design Bangalore	Mar.2010
6.	R. V. Ralegaonkar	Planning & Management of Urban Infrastructure Nagpur	Jul. 2009
7.	R. V. Ralegaonkar	Research Methodologies Nagpur	May 2009
8.	D.H. Lataye	Short term training programme on Recent Trends in Engineering Mathematics Nagpur	Jul. 2009
9.	D.H. Lataye	Short term training programme on Water Quality and its Management  Jointly organized by National Institute of Hydrology, Roorkee and Central Soil and Materials Research Station, New Delhi.	Nov.2009
10.	D.H. Lataye	Short term training programme on Environmental Engineering Systems Design Optimization , Nagpur	Nov.2009
11.	S. P. Wanjari	Short term training programme on Environmental Engineering Systems Design Optimization , Nagpur	Nov.2009
12.	S. P. Wanjari	Planning & Management of Urban Infrastructure, Nagpur	Jul. 2009

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
<b>Department of Computer Science &amp; Engineering</b>			
1.	Mrs. S.A.Raut	Effective Teaching/Learning of Computer Programming	Apr.2009
2.	Mrs. S.A.Raut	Research Methodology and Opportunities	May 2009
3.	Mrs. S.A.Raut	IUCEE- Course on Theory Of Computation ISTE & Infosys, Mysore	Jul.2009
4.	Mrs. S.A.Raut	Workshop on "Microarray gene expression analysis" IBAB & Shodhaka, Bangalore	Jan.2010
5.	D. Shrimankar	OPECG-2009 CDAC and IIT Madras	Jun.2009
6.	P. S. Deshpande	Workshop on GIS Database IIT Bombay, Mumbai	Jun.2009
7.	S. R. Sathe	Appraisal workshop on Information Security education and awareness project IIT Madras, Chennai	Sep.2009
8.	S. R. Sathe	Workshop on Wimax in India IIT Bombay, Mumbai	Dec.2009
9.	S. R. Sathe	Security risk in internet ABV – IIITM, Gwalior	Dec.2009
10.	S. R. Sathe	Appraisal workshop in ISEA project IIT Guwahati	Feb.2010

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
11.	S. R. Sathe	Conference on NPTEL AICTE, New Delhi	Aug.2009
<b>Department of Electrical &amp; Electronics Engineering</b>			
1.	M. V. Aware	Patent methodology Patent Office, Nagpur	July 2009
2.	S. R. Bhide	National Seminar on Advanced Applications of Glasses Dept. of Physics, VNIT, Nagpur	Mar.2010
3.	V. B. Borghate	Power Electronics Education, NAMPET and SVNIT-Surat	May 2009
4.	Mrs. M. A. Chaudhari	Research Methodologies and opportunities VNIT Nagpur	May 2009
5.	P. S. Kulkarni	One day "Photovoltaics Workshop" Dept. of Energy Science and Engg., IIT, Mumbai	Jan. 2010
6.	P. S. Kulkarni	Workshop on "Educational Laboratory Virtual Instrumentation with LabView" Electrical Engg. Deptt., VNIT, Nagpur	Apr.2009
7.	P. S. Kulkarni	STTP on "Multidimensional Data Analysis & Data Mining" CSE Dept., VNIT, Nagpur	Jun. 2009
8.	M. R. Ramteke	Training for liasioning officer IPA, Bangalore camp Chandigarh	Nov. 2009

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
9.	A. Dhabale	Winter School for Control and Dynamical Systems Systems and Control Engineering, Indian Institute of Technology Bombay	Jan. 2010
10.	R. J. Satputaley	Research Methodology , VNIT	May 2009
11.	R.J.Satputaley	Advanced Power Electronics application and Implementation VNIT	Jan. 2010

**Department of Electronics & Communication Engineering**

1.	Mrs. P.H.Ghare	Workshop on Qualnet simulator Scalable Networks Tech.	Dec. 2009
2.	J. Sengupta	STPP in Embeded System Design IIT Kharagpur	Jan.2010
3.	J. Sengupta	Multidimensional Data Analysis & Data Mining, VNIT	Jun. 2009
4.	J. Sengupta	Research Methodologies & Opportunities, VNIT	May 2009
5.	V. Satpute	Workshop on Robotics I I T Bombay, Mumbai	Jan. 2010
6.	S.B.Dhok	Worshop on "Signals, Systems & Signal Processing" IUCEE at Infosys Centre, Mysore	Jul. 2009
7.	K. Surender	Advanced DSP design techniques IIT Kharagpur	Jun.2009

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
8.	K. Surender	Engineering practices on fuzzy, neural and hybrid intelligent systems, NIT Trichy	Jun. 2009
9.	K. Surender	Recent trends in Engineering Mathematics, VNIT Nagpur	Jul. 2009
<b>Department of Mechanical Engineering</b>			
1.	A. M. Kuthe	National workshop on Biomaterials and medical implants, IIT, Mumbai	May 2009
2.	A. M. Kuthe	Course on Computer aided manufacturing, VNIT, Nagpur	Sep.2009
3.	A. M. Kuthe K. M. Ashtankar	International Conference on Investment casting, CMERI, Durgapur	Jan. 2010
4.	N. V. Deshpande	Int. combustion engine division ICEF-2009, ASME	Sep. 2009
5.	N. K. Lautre	STTP on Rapid Product development VNIT, Nagpur	Dec. 2009
6.	H. P. Jawale	National Symposium & Workshop on Planner parallel robots and mechanism. Rungata college of Engineering, Bhilai	Jan. 2010
7.	D. A. Jolhe	FDP on Mechanical Engineering Drawing with CAD, IUCEE, Infosys, Mysore	Jun. 2009
8.	K. M. Ashtankar	Product life management using CAD IUCEE, Infosys, Mysore	Jun. 2009

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
9.	P. V. Kane	STTP on Micro Machining, IIT, Kanpur	Jul.2009
10.	A. A. Thakre Nitin K. Lautre	Adv. Engg. Optimization, SVNIT, Surat	Jul.2009

#### **Department of Metallurgical & Materials Engineering**

1.	R. K. Khatirkar	Program on Mentoring of Engineering Teachers by Indian National Academy of Engineering (INAE) Fellows at IIT Madras Indian National Academy of Engineering (INAE)	May2009.
2.	A.R.Ballal	MR -09 IIT Bombay	May2009
3.	D.V.Moghe	Staff Development Training IISc Bangalore	Jun.2009
4.	D.V.Moghe	Workshop on Surface Engineering NIT Suratkal	Jul.2009
5.	Y.Y. Mahajan	Discussion meeting on -The effect of Retrogression and Re-Aging (RRA) Parameters on Mechanical and stress corrosion Properties of 7010 Alloy Aeronautics Development Authority, Bangalore	Jun.2009
6.	R.K.Paretkar M.M.Thawre	AR&DB Project Meeting, NAL, Bangalore	Aug.2009
7.	R.V.Taiwade	Work shop on Experimental Techniques for Corrosion Research IIT Bombay	Sep.2009
8.	D.R.Peshwe	KVIC Meeting on Technology transfer at KVIC, Mumbai office.	Sep.2009

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
9.	R..V.Taiwade M.M.Thawre Y.Y.Mahajan	STTP on Failure Diagnosis and Prevention, VNIT, Nagpur	Nov.2009
10.	A.R.Ballal	FUCETECH-2009, Mumbai	Nov.2009
11.	R.K.Khatirkar M.M.Thawre R.V.Taiwade	STTP on Corrosion Engineering – Principles, control and research VNIT, Nagpur	Dec.2009
12.	Y.Y. Mahajan	Annual Review meeting of Naval Research Board, Jadavpur University, Kolkata, Navel Research Board	Feb.2010
13.	D.R.Peshwe	Visited various Universities in Maharashtra for the Special meetings of Vidarbha Statutory Development Board	Dec 2009 & Mar. 2010
14.	J. Bhatt	International Conference on Solidification Science and Processing  IIT, Chennai	Nov.2009

#### **Department of Mining Engineering**

1.	N. R. Thote S.Panchal	Effect of dust in uranium opencast mine BRNS, BARC, Mumbai	Dec.2009
2.	S. Panchal	Research Methodologies & Opportunities	May 2009
3.	S. Panchal	Beyond Chalk and Talk – New Age Pedagogy	Jul.2009

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
<b>Department of Chemistry</b>			
1.	C. Das	Research Methodologies & Opportunities Deptt. of Computer Science & Electronics, VNIT	May 2009
2.	C. Das	Beyond Chalk & Talk ; New age Pedagogy , VNIT	Jul. 2009
3.	C. Das	Novel Separation Techniques in Process Industry, VNIT	Nov. 2009
<b>Department of Mathematics</b>			
1.	G. P. Singh	75 <sup>th</sup> Conference of the Indian Mathematical Society Kalasalingam University, Krishanakoil (TN) Sponsored by NBHM and UGC	Dec. 2009
2.	P. P. Chakrvarthy	International Conference on 'Challenges and Applications of Mathematics in Science and Technology NIT, Rourkela	Jan. 2010
3.	P. P. Charkvarthy	PDE and related Analysis I.I.Sc. Bangalore	Aug. 2009
4.	M. Devakar	Research methodologies and opportunities VNIT, Nagpur	May 2009
5.	M. Devakar	Recent Trends in Engineering Mathematics VNIT, Nagpur	Jul. 2009
6.	M. Devakar	Applied Numerical methods for Scientists and Engineers VNIT, Nagpur	Dec. 2009
7.	Ms. P. Mahale	Research methodologies and opportunities VNIT, Nagpur	May 2009

<b>Sr. No.</b>	<b>Name</b>	<b>Name of Programme and Organizer</b>	<b>Date</b>
8.	Ms. P. Mahale	Recent Trends in Engineering Mathematics VNIT, Nagpur	Jul. 2009
9.	Ms. P. Mahale	Applied Numerical methods for Scientists and Engineers VNIT, Nagpur	Dec. 2009

#### **Department of Applied Physics**

1.	V. K. Deshpande	International conference on Electroceramics ( ICE-2009) Delhi University	Dec.2009
2.	R. S. Gedam	8th National Conference on Solid State Ionics (NCSSI) Dr. Hari Singh Gaur University, Sagar (MP)	Dec. 2009
3.	Mrs. A. V. Deshpande	STTP on “ Beyond Chalk and Talk;New Age Pedagogy” V. N. I. T., Nagpur.	Jul.2009
4.	Mrs. S. R. Patrikar	STTP on “Recent Trends in Engineering Mathematics” V. N. I. T., Nagpur.	Jul.2009
5.	Mrs. S. R. Patrikar	‘International Workshop on Physics of Semiconductor Devices’ (IWPSD 09) Solid State Physics Lab., New Delhi, & Jamia Millia Islamia, New Delhi	Dec. 2009
6.	Mrs. S. M. Giripunje	STTP on “ Beyond Chalk and Talk;New Age Pedagogy”, V. N. I. T., Nagpur.	Jul. 2009

## 11.7 Courses and Admissions

<b>UG Course</b>	<b>Intake Capacity</b>	<b>Admitted through AIEEE</b>	<b>Admitted through DASA/ICCR/ MEA</b>	<b>Total</b>
Architecture	56	53	4	57
Chemical Engineering	81	71	1	72
Civil Engineering	81	83	6	89
Computer Science & Engineering	81	81	9	90
Electrical & Electronics Engineering	81	81	12	93
Electronics & Communication Engineering	81	82	11	93
Mechanical Engineering	81	83	11	94
Metallurgical & Materials Engineering	81	72	0	72
Mining Engineering	29	11	0	11
<b>Total</b>	<b>652</b>	<b>617</b>	<b>54</b>	<b>671</b>

<b>PG Course</b>	<b>Intake Capacity</b>	<b>Admitted</b>
CAD-CAM	18	17
Computer Science Engineering	18	20
Environmental Engineering	18	13
Heat Power Engineering	17	17
Industrial Engineering	17	13
Integrated Power System	18	14
Material Engineering	18	15
Structural Dynamics & Earthquake Engineering	18	8
Structural Engineering	18	17
Urban Planning	18	9
VLSI Design	18	16
Water Resources Engineering	18	7
<b>Total</b>	<b>231</b>	<b>166</b>

## 11.8 Scholarships and Awards

- Scholarships**

<b>S N</b>	<b>Scholarship</b>	<b>Name of Awarding Agency</b>	<b>Number of Students Awarded</b>	<b>Total Amount [Rs.]</b>
1	Home State	Social Welfare Department of MH State	313	5275260
2	Other State	Social Welfare Department of other states	12	160161
3	National Talent Scholarship	NCERT, New Delhi	20	120000
4	New Central Sector Scholarship for SC (Top Ten) Students	Ministry of Social Welfare and Empowerment, Govt. of India	19	1095490

5	New Central Sector Scholarship for ST (Top Five) Students	Ministry of Tribal welfare, Govt. of India	10	628946
6	Stipend (For Post-Graduate GATE qualified students)	Institute	223	13307176
7	Scholarship under Full Time Ph D. program	Institute	10	798000
8	Scholarship under Quality Improvement Program (QIP)	AICTE	5	314658
9	Scholarship under CPHEEO (M Tech) program	Govt. of India, Ministry of Urban Planning	8	100780
10	Other	Agencies other than Govt.	8	67000

- Awards**

List of award recipients and awards conferred at the 7<sup>th</sup> Convocation of the Institute:

S N	Name of Student	Name of Award	Criterion
<b>B.Tech. Programme</b>			
1.	Awandhe Shantanu Pramod	Sir Visvesvaraya Medal Late Shri N.G. Joshi Prize Late Dr. A.G. Paithankar Medal Academic Excellence Prize Watwe Education Trust Prize Late Smt. Shalini Pangarkar Prize Late Dr. V.N. Joshi Prize	Highest CGPA amongst all disciplines of B. Tech. program    Highest CGPA in B. Tech. Mechanical Engg
2.	Nidiganti Swati Sreenivasulu	In Memory of Ms. Madhur Dahake Gold Medal	Highest CGPA amongst <b>Girl Candidates</b> in B. Tech. Electronics & Comm. Engg.

S N	Name of Student	Name of Award	Criterion
3.	Iyer Gokul Chandramouli	Institute Medal  Academic Excellence Prize  Watwe Education Trust Prize  Shri L.J. Sane Prize	Highest CGPA in B. Tech. Electrical & Electronics Engg.
4.	Mishra Apeksha Rajesh	Institute Medal  Academic Excellence Prize  Watwe Education Trust Prize  Late Shri Vishnu Diwakar Alias Bhausahab Gijre Prize  P.J. Sahastrabudhe Memorial Prize  Late Shri C.T. Gharpure Prize  Late Prof. M.S. Joshi Gold Medal	Highest CGPA in B. Tech. Civil Engg
5.	Shobhit Upadhyay	Late Shri S.S. Amin Prize	Highest marks in the subject <b>Structural Analysis-II</b> in 7 <sup>th</sup> Sem. B. Tech. Civil Engg.
6.	Niyoti Nivedita	Late Ms. Pratibha Bujade Gold Medal.	Highest CGPA amongst <b>Girls from SC category</b> in B. Tech Engg.

<b>S N</b>	<b>Name of Student</b>	<b>Name of Award</b>	<b>Criterion</b>
7.	Dhananjay Kumar Patel	Late Shri J.M. Gawande Prize	Highest CGPA amongst <b>Candidates from OBC category</b> in B.Tech. Mech. Engg.
8.	J. Vishwesh	Institute Medal Academic Excellence Prize	Highest CGPA in B. Tech. Computer Science Engg.
9.	Pinge Manish Rajiv	Institute Medal Academic Excellence Prize Akhilesh Gedam Memorial Prize	Highest CGPA in B. Tech. Electronics & Communication Engg.
10.	Avinash Kumar Malakar	Institute Medal Academic Excellence Prize Shri Prashant Palamkar Memorial Prize	Highest CGPA in B. Tech. Mining Engg.
11.	Ajay Agrawal	Institute Medal Academic Excellence Prize Late Dr. M.K. Joshi Prize	Highest CGPA in B. Tech. Metallurgical & Materials Engg.
12.	Kriplani Pankaj Ramesh	Institute Medal Academic Excellence Prize Prof. S. D. Adane Gold Medal Late Dr. V. M. Pangarkar Prize	Highest CGPA in B. Arch.

<b>S N</b>	<b>Name of Student</b>	<b>Name of Award</b>	<b>Criterion</b>
13.	Oswal Riddhi Shirish	Poornima Prize	Highest SPI by girl student in Final year B. Arch (Part II) Exam Summer 2009
14.	Paroma Ganguli	Poornima Prize	Highest SPI by girl student in Final year B. Arch (Part II) Exam Summer 2009
<b>M.Tech. Programme</b>			
15.	Sharad Agrawal	Academic Excellence Prize	Highest CGPA in M. Tech. CAD-CAM Program
16.	Madhukar Gattu	Academic Excellence Prize	Highest CGPA in M. Tech. CAD-CAM Program
17.	Kulkarni Sudip Bhaskar	Academic Excellence Prize Late Shri B.M. Gupta Prize	Highest CGPA in M. Tech. Industrial Engg. Program
18.	Mutalik Aditya Arvind	Academic Excellence Prize	Highest CGPA in M. Tech. Heat Power Engg. Program
19.	Gaurav Goyal	Academic Excellence Prize	Highest CGPA in M. Tech. Integrated Power Systems Program

<b>S N</b>	<b>Name of Student</b>	<b>Name of Award</b>	<b>Criterion</b>
20.	Parulekar Ganpat Anant Vrishali	Academic Excellence Prize	Highest CGPA in M. Tech. VLSI Design Program
21.	Sarika	Academic Excellence Prize	Highest CGPA in M. Tech. Computer Sc. Program
22.	Rathod Anjanikumar Ashokkumar	Academic Excellence Prize	Highest CGPA in M. Tech. Ferrous Process Metallurgy Program
23.	Sri Ranganat Annam	Academic Excellence Prize	Highest CGPA in M. Tech. Materials Engg. Program
24.	Tejaswini Vikas Ghude	Academic Excellence Prize	Highest CGPA in M. Tech. Water Resources Engg. Program
25.	Gor Dhvani Devendra	Academic Excellence Prize Shri Bhide Memorial Prize Purna Award – I	Highest CGPA in M. Tech. Environmental Engg. Program
26.	Isha Purnachandrababu Khedikar	Purna Award – II	For securing 2 <sup>nd</sup> Highest CGPA in M. Tech. Environmental Engg. Program
27.	Vaibhav Saklecha	Academic Excellence Prize Dr. S.S. Kulkarni Prize	Highest CGPA in M.Tech. Structural Engg. Program

<b>S N</b>	<b>Name of Student</b>	<b>Name of Award</b>	<b>Criterion</b>
28.	Suryawanshi Anup Arvind	Academic Excellence Prize	Highest CGPA in M.Tech. Structural Dynamics & Earthquake Engg. Program
29.	Radha Vilas Nanoti	Academic Excellence Prize Ar. Bharat Yamsanwar Award	Highest CGPA in M. Tech. Urban Planning Program

## 11.9 Training and Placement

### Statistics

<b>Year</b>	<b>2009-10</b>	
<b>Branch</b>	<b>Eligible *</b>	<b>Placed</b>
Civil	45	41
Chemical	41	32
Mechanical	50	49
Electrical & Electronics	51	43
Electronics & Communication	53	45
Comp.Sc. & Engg.	51	49
Metallurgical & Materials	38	38
Mining	12	11
	<b>341</b>	<b>308</b>
<b>%</b>	<b>90.32</b>	
<b>M.Tech</b>	<b>--</b>	<b>10</b>
Normal + Dream Job i.e Two jobs per student.		42
<b>Total Jobs</b>		<b>360</b>

\*with CPI 6.25 and above.

**PLACEMENT (Normal Job + Dream Job)**

INDUSTRIES	C	M	E	N	T	R	Ch	G	M. Tech.	TOTAL
<b>Normal Job</b>	37	33	27	34	35	38	28	7	8	247
<b>Dream Job</b>	06	25	26	15	03	24	04	8	2	113
<b>Total</b>	<b>43</b>	<b>58</b>	<b>53</b>	<b>49</b>	<b>38</b>	<b>62</b>	<b>32</b>	<b>15</b>	<b>10</b>	<b>360</b>

• **Normal Job**

S.N.	INDUSTRIES	C	M	E	N	T	R	Ch	G	M. Tech.	TOTAL
1.	Ashok Leyland Ltd., Chennai	-	3	-	-	-	-	-	-	-	03
2.	Thermax Ltd.	-	2	-	-	-	-	-	-	-	02
3.	ACE Calderys Ltd.	1	-	-	-	1	-	-	-	-	02
4.	TCE Consulting Engineers Ltd.	3	-	2	-	-	-	-	-	-	05
5.	John Deere India Pvt. Ltd.	-	-	-	2	-	-	-	-	-	02
6.	Kirloskar Group of Companies	-	-	-	-	1	-	-	-	-	01
7.	ACC Ltd.	1	1	1	-	-	-	1	-	-	04
8.	Persistent Systems Ltd.	-	-	-	3	-	21	-	-	-	24
9.	Subros Ltd.	-	3	-	-	-	-	-	-	-	03
10.	Bharat Forge Limited	-	-	-	-	2	-	-	-	-	02
11.	Tata Consultancy Services Limited	3	2	1	8	1	5	6	-	-	26
12.	Cybage Ltd., Pune	-	-	-	6	-	4	-	-	-	10
13.	Sterlite Industries India Ltd. (Vedanta) Group Co.	7	5	7	-	10	-	8	7	-	44
14.	Simplex Infrastructure Pvt. Ltd.	5	-	-	-	-	-	-	-	-	05
15.	Ballarpur Industries Ltd.	-	1	1	-	-	-	-	-	-	02

16.	Infosys Ltd.	7	4	12	15	9	5	11	-	4	67
17.	Infocepts Technologies Pvt. Ltd.	-	-	-	-	1	1	1	-	-	03
18.	Larsen & Toubro Ltd.	5	3	-	-	1	-	-	-	1	10
19.	Tech Mahindra Ltd.	-	-	1	-	-	-	-	-	-	01
20.	Adani Enterprises Ltd.	-	1	1	-	-	-	-	-	-	02
21.	AMCL Machinery Ltd. (Hindustan National Glass & Industries Ltd.)	-	1	1	-	1	-	-	-	-	03
22.	Larsen & Toubro Ltd., ECC Division	1	-	-	-	-	-	-	-	-	01
23.	Four-Soft Ltd., Hyderabad	-	-	-	-	-	2	-	-	-	02
24.	Furnace Fabrica (India) Ltd.	4	1	-	-	-	-	-	-	-	05
25.	Hindustan National Glass & Industries Ltd. (AMCL Machinery Ltd.)	-	2	-	-	-	-	1	-	-	03
26.	Viraj Profiles Limited	-	4	-	-	8	-	-	-	3	15
	<b>Total</b>	<b>37</b>	<b>33</b>	<b>27</b>	<b>34</b>	<b>35</b>	<b>38</b>	<b>28</b>	<b>7</b>	<b>8</b>	<b>247</b>

Legend:

C - Civil

M -Mechanical

E -Electrical & Electronics

N - Electronics & Communication

R - Comp.Sci. & Engineering

G - Mining

T - Metallurgical & Materials

Ch-Chemical

• **Dream Job**

<b>S. N.</b>	<b>INDUSTRIES</b>	<b>C</b>	<b>M</b>	<b>E</b>	<b>N</b>	<b>T</b>	<b>R</b>	<b>Ch</b>	<b>G</b>	<b>M. Tech.</b>	<b>TOTAL</b>
1.	Indian Oil Corporation Ltd.	-	3	-	-	2	-	2	-	-	07
2.	Bajaj Auto Ltd., Pune	-	2	3	-	-	-	-	-	-	05
3.	NTPC Ltd.	3	7	6	4	-	-	-	-	-	20
4.	LG Electronics India Pvt. Ltd., Ranjangaon, Pune	-	-	-	-	-	-	-	-	2	02
5.	Microsoft IT (PPO)	-	-	-	-	-	1	-	-	-	01
6.	Michelin India Tamilnadu Tyres Pvt. Ltd.	1	-	3	-	-	-	2	-	-	06
7.	Coal India Ltd.	-	3	3	-	-	-	-	8	-	14
8.	Nvidia Graphics Pvt. Ltd., Pune	-	-	-	-	-	2	-	-	-	02
9.	Oracle India Technologies Ltd.	-	-	-	3	-	12	-	-	-	15
10.	Tata Motors Ltd.	-	3	2	1	1	-	-	-	-	07
11.	ThoughtWorks Technologies India Pvt. Ltd.	-	-	-	1	-	4	-	-	-	05
12.	Saba Software India Ltd.	-	-	-	-	-	2	-	-	-	02
13.	Bharat Petroleum Corporation Ltd.	-	5	3	-	-	-	-	-	-	08
14.	Power Grid Corporation of India Ltd.	-	-	3	-	-	-	-	-	-	03
15.	JP Morgan – CRG	-	-	-	1	-	-	-	-	-	01
16.	Barclays Tech. Centre India Private Limited	-	-	-	2	-	2	-	-	-	04
17.	Reliance Infrastructure Limited, Mumbai	-	-	2	-	-	-	-	-	-	02
18.	Defence Research & Development Organization	-	-	-	1	-	1	-	-	-	02
19.	Hindustan Petroleum Corporation Limited	2	2	1	2	-	-	-	-	-	07
	<b>Total</b>	<b>6</b>	<b>25</b>	<b>26</b>	<b>15</b>	<b>3</b>	<b>24</b>	<b>4</b>	<b>8</b>	<b>2</b>	<b>113</b>

**11.10 Finance and Accounts details**

Please see the Audit Report

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