

# INTRODUCTION

## VISION

*“AN ACADEMIC PAR EXCELLENCE, FULFILLING THE NEEDS, ASPIRATIONS AND EXPECTATIONS OF SOCIETY THROUGH TECHNOLOGICAL INNOVATIONS AND CULTURAL DEVELOPMENT IN UNISON WITH GLOBAL TRENDS.”*

## MISSION

*“IMPARTING EDUCATION BY EXERCISING ETHICAL STANDARDS BASED ON HUMAN VALUES IN PROMOTING TECHNOLOGY AND HUMAN RESOURCES TO BOOST SOCIO-ECONOMIC DEVELOPMENTS.”*

## **1.1 Historical Background**

National Institute of Technology, Raipur, (Formally known as Govt. Engineering College Raipur) situated in the capital of the newly incepted state of Chhattisgarh, has proven to be 'avant-garde' in the field of Science and Technology over past few decades in this region. With sweet memories of foundation laid by our first president Hon'ble Dr. Rajendra Prasad on 14<sup>th</sup> September 1956 and subsequent inaugurated by our first Prime Minister Hon'ble Pt. Jawaharlal Nehru, the institute started with two departments of Metallurgical and Mining Engineering housed in the heart of magnificent building that has towering head and strong long arms stretching East and West on the northern side of Howrah – Mumbai National Highway No. 6 called Great Eastern Road, leading to Bhilai.

The college was started in 1956 with two branches and since then it has never looked back. Stride after stride aloud medallion after medallion of success kept coming on. Presently, this is the only NIT with maximum number of branches available in the country. The students of this college have brought laurels to the institute. They are very well placed and working in responsible position in Government organizations, Public Sectors, Private Sectors, Multinational companies, CSIR organizations, Universities, Colleges in India and abroad.

The institute is now playing its important role of shaping not only the human resource of the newly born state but also in providing the technological support to the state in achieving higher and still higher goals

## **1.2 Campus & Location**

The Institute is located at Raipur, the capital city of Chhattisgarh, a mineral rich region having enormous potential for development with seemingly inexhaustible natural resources. The Institute is spread over an area of 85 acres. The institute is 5 KM from the main railway station and 14 KM from the airport. The city of Raipur is situated on Mumbai Howrah route of Indian Railways at a distance of 831 KM from Howrah and 311 KM from Nagpur.

The location of the institute, in the mineral rich region, which has ample resources of coal, iron ore and other minerals, has given it a unique advantage of being in touch with the current industrial scenario. Many industries, such as those of cement, steel, alloy, mines, etc. are located in the vicinity of the institute. This is the only institute, not only in the present state but in the old state of Madhya Pradesh also, having the maximum number of branches. The institute offers undergraduate, post graduate and Ph.D. academic programmes.

The campus is completely planned, one consisting of the main Institute building, six hostel blocks including two separate for girl's, residential quarters for teaching and non-teaching staff, canteen, bank, estate office for campus maintenance, a well equipped dispensary and a well maintained guest house. The campus also hosts a separate NCC office looking to the requirements of the students for NCC training. The campus has got an additional facility of a local railway station Sarswati Nagar meant especially for the benefit of the students coming from the nearby areas. The campus is away from hubbubs of the city yet easily accessible.

Under the expansion and development plans of the institute recently, two separate buildings, one for Architecture and another for IT department, are under construction. Separate wing with classrooms and laboratories for Electronics and Communication Engineering has already been constructed. Looking to the increased number of girl students, one more separate girl's hostel for 200 students is completed. One Boy's Hostel for 800 Student is at completion stage. 200 Acres of land is allotted for the new campus in Rakhi & Bharenga.

## **2. BOG AND OTHER COMMITTEES**

### **2.1 Board of Governors**

- |   |  |   |
|---|--|---|
| 1 | <b>Shri Lalit Surjan</b><br>Chief Editor,<br>Deshbandhu, Raipur  | Chairman  |
| 2 | <b>Dr. (Mrs.) S K Pandey</b><br>Director, NIT Raipur   | Member Secretary<br>(Ex-Officio)                                      |
| 3 | <b>Shri N K Sinha</b><br>Joint Secretary (Technical)<br>Ministry of Human Resource<br>Development, Department of Higher<br>Education, New Delhi          | Nominee from MHRD   |
| 4 | <b>Shri S K Ray</b><br>Joint Secretary and Financial Adviser,<br>Ministry of Human Resource<br>Development, Department of Higher<br>Education, New Delhi | Nominee from MHRD   |
| 5 | <b>Shri Narayan Singh, IAS</b><br>Additional Chief Secretary,<br>Department of Technical Education,<br>Government of Chhattisgarh                        | Nominee of Department of<br>Education, Government of<br>Chhattisgarh. |
| 6 | <b>Dr. S S Gokhle</b><br>Director, VNIT, Nagpur  | Head of another Technical<br>Institute in the Region                  |
| 7 | <b>Shri P K Banerjee</b>   | Nominee of AICTE  |
| 8 | <b>Shri Nand Kumar, IAS</b>  | An Alumnus of the Institute   |
| 9 | <b>Shri Rahul Mahawar</b>  | Representative from large,<br>medium and small-scale<br>industries    |



- |    |   |  |
|----|---|--|
| 10 | <b>Shri Uma Prakash Ojha</b>  | Representative from large,<br>medium and small-scale<br>industries |
| 11 | <b>Dr. K K Sugandhi</b><br>Professor, N.I.T. Raipur                   | Member   |
| 12 | <b>Dr. (Smt.) A B Soni</b><br>Associate Professor,<br>N.I.T., Raipur. | Member   |
| 13 | <b>Dr. Shrish Verma</b><br>Registrar (I/c), NIT Raipur                | Secretary  |

## 2.2 Finance Committee

- |   |   |                     |
|---|---|---------------------|
| 1 | <b>Shri Lalit Surjan</b><br>Chief Editor, Deshbandhu, Raipur  | Chairman            |
| 2 | <b>Dr. (Mrs.) S K Pandey</b><br>Director, NIT Raipur  | Member (Ex-Officio) |
| 3 | <b>Shri N K Sinha</b><br>Joint Secretary (Technical)<br>Ministry of Human Resource Development,<br>Department of Higher Education, New Delhi          | Nominee from MHRD   |
| 4 | <b>Shri S K Ray</b><br>Joint Secretary and Financial Adviser,<br>Ministry of Human Resource Development,<br>Department of Higher Education, New Delhi | Nominee from MHRD   |
| 5 | <b>Dr. S S Gokhale</b><br>Director, VNIT, Nagpur  | Member              |

- |   |  |                                  |
|---|--|----------------------------------|
| 6 | <b>Dr. K K Sugandhi</b><br>Professor, N.I.T., Raipur   | Member                           |
| 7 | <b>Dr. Shrish Verma</b><br>Registrar (I/c), NIT Raipur | Member Secretary<br>(Ex-Officio) |

### 2.3 The Senate

1	Dr. (Mrs.) S. K. Pandey	Chairperson of Senate & Director
2	Dr. D.K. Marothia	Professor, IGAU, Raipur
3	Er. L. N. Tiwari	Secretary, Institution of Engineers, Raipur (C.G.)
4	Dr. Jai Laxmi Thakur	V.C., Bastar University
5	Dr. K D Permar	Dean (Academics Affairs) & Professor, Dept. of Electrical Engineering,
6	Dr. A. S. Thoke	Professor, Dept. of Electrical Engineering,
7	Dr. M. K. Verma	Dean (Students Welfare) & Professor, Dept. of Civil Engineering
8	Dr. A. M. Rawani	Dean (Research & Consultancy) & Professor, Dept. of Mechanical Engineering
9	Dr. Abir Bandyopadhyay	Dean (Planning & Development) & Associate Professor, Head, Dept. of Architecture
10	Mr A.P. Rajimwale	Head & Associate Professor, Dept. of Metallurgical Engineering
11	Dr R. P. Pathak	Head & Associate Professor, Dept of Mathematics
12	Dr (Smt) F. Khan	Head & Associate Professor, Dept. of Chemistry
13	Dr (Smt) Sadhna Agrawal	Head & Associate Professor, Dept. of Physics, Chief Warden (Girls hostel)
14	Dr. (Mrs.) Subhrata Gupta	Head & Associate Professor, Electrical Engineering Dept.
15	Dr.R.K.Tripathi	Head & Associate Professor, Dept. of Civil Engineering
16	Dr. (Ms.) S. L. Sinha	Head & Associate Professor, Dept. of Computer Science & Engineering

17	Dr. (Mrs) A.B.Soni	Head & Associate Professor, Dept. of Chemical Engineering
18	Shri B. Mazumdar	Head & Associate Professor, Dept. of Biotechnology & Biomedical
19	Dr. Manoj Pradhan	Chief Warden – Boys Hostel
20	Shri P Y Dhekne	Head & Associate Professor, Dept. of Mining Engineering
21	Dr P Diwan	Head & Associate Professor, Dept. of Applied Geology
22	Shri Rahul Salhotra	Head & Associate Professor, Dept. of Applied Mechanices
23	Dr. Sameer Bajpai	Head & Associate Professor, Dept. of Humanities & TPO
24	Dr. S. Sanyal	Head & Associate Professor, Dept. of Mechanical Engineering
25	Shri Harendra Bikhrol	Head & Associate Professor, Dept. of MCA
26	Shri Shailesh Vaidya	Assistant Workshop Superintendent
27	Dr. Shrish Verma	Registrar (I/c), Head & Associate Professor, Dept. of IT & E&TC

#### **2.4 Building & Works Committee**

1	Dr. (Mrs.) S. K. Pandey	Chairperson & Director
2	Dr. K.K. Sugandhi	Professor (Retd.) Physics Dept., NIT Raipur
3	Dr. Abir Bandyopadhyay	Dean (Planning & Development)
4	Shri Vinay Gahane	Assistant Engineer(Electrical), CPWD
5	Dr. Shrish Verma	Registrar (I/c)

### **3. ADMINISTRATION**

#### **3.1 Administrative Officers & Deans**

Dr. (Mrs.) S K Pandey	Director
Col. (Retd) G Raja Sekhar	Registrar till 09.08.2010
Dr. Shrish Verma	Registrar (I/c) since 10.08.2010
Dr. K D Permar	Dean (Academic Affairs)
Dr. K K Sugandhi	Dean (Faculty Welfare) till 31.05.2010
Dr A M Rawani	Dean (Research & Consultancy)
Dr. M K Verma	Dean (Students Welfare)
Dr. Abir Bandyopadhyay	Dean (Planning & Development)

## **4. ACADEMIC AND OTHER DETAILS**

### **4.1 Courses Offered**

**Under Graduate courses are offered in following disciplines**

1. Biomedical Engineering
2. Biotechnology
3. Chemical Engineering
4. Civil Engineering
5. Computer Science & Engineering
6. Electrical Engineering
7. Electronics & Telecommunication Engineering
8. Information Technology
9. Mechanical Engineering
10. Metallurgical Engineering
11. Mining Engineering
12. Architecture

**Post Graduate courses are offered in following disciplines**

#### **(a) M.Tech**

1. Applied Geology
2. Chemical Engineering (Chemical Process Design)
3. Mechanical Engineering (Energy System & Pollution)
4. Civil Engineering (Water Resource Engineering)
5. Electrical Engineering (Computer Technology)

#### **(b) Master of Computer Applications**

### **4.2 Admission Procedure**

#### **B.Tech. :**

The admission to 1<sup>st</sup> year of B.Tech. Programme is made through the All India Engineering Entrance Examination (AIEEE) conducted by CBSE and as per the guidelines framed by Ministry of Human Resource Development, Govt. of India, Department of Higher Education.

**M. Tech. :**

The courses leading to M.Tech. are open to those who have obtained the B.E./B.Tech./M.Sc. in relevant discipline or any degree recognized as equivalent there to by the N.I.T. Raipur with 60% marks or 6.5 CGPA in aggregate in the qualifying examination. However, the eligibility criteria may vary from time to time as per decision of the Senate.

Relaxation up to 5% of marks or 0.5 CGPA can be allowed by Senate for sponsored Candidates with proven research or professional experience.

**Regular Students:**

Only GATE qualified candidates are admitted to M.Tech. Programmes. Seats are reserved for various categories i.e. ST/SC/OBC as per norms. When GATE qualified candidates are not available, admissions are given to those who are not qualified in GATE on the basis of merit as detailed in P.G. regulation.

**Sponsored Students:**

- i) Few seats are also available for sponsored candidates. Sponsored candidates are not eligible to receive scholarship even if they are GATE qualified.
- ii) The candidates must have a total of minimum two years full time work experience in the sponsored organization which should be a reputed one.
- iii) There is no age restriction. However, preference is given to those who are below 45 years of age.
- iv) Sponsorship certificate in proper proforma is required from the employer at the time of admission.

**M.C.A. :**

The admission to 1<sup>st</sup> year of MCA programme is made through the NIT MCA Common Entrance Test(NIMCET) conducted by NIT and as per the guidelines framed by Ministry of Human Resource Development, Government of India.

**Ph.D. Courses:**

The Institute Provides facilities for research including that for the degree of Doctor of Philosophy (Ph.D.) in Engineering, Science, Humanities and Social Sciences. Total Fifty students have been registered for perusing Ph.D. Degree in this academic year.

**Students:**

National Institute of Technology Raipur has always been the preferred destination of the bright students. Students of N.I.T. Raipur also known for their excellence in socio-culture activities and in sports. This multilingual and multicultural environment is particularly conducive to its future development. The alumni of NIT Raipur have made a mark in industry and public life. They are taking significant interest in the affairs of the Institute and will continue to do so in future. Huge number of alumni dedicated to further development of the Institute.

**4.3 Admission Statistics****Under Graduate (B.Tech)**

<b>Departments</b>	<b>Sanctioned Intake</b>	<b>Admissions</b>
Architecture	62	59
Bio-medical Engineering	62	34
Bio –Technology	62	46
Chemical Engineering	62	58
Civil Engineering	78	77
Computer Science and Engineering	92	90
Electrical Engineering	92	91
Electronics & Telecommunication Engineering	92	92
Information Technology	92	85
Mechanical Engineering	92	92
Metallurgical Engineering	92	89
Mining Engineering	77	69
<b>Total</b>	<b>955</b>	<b>882</b>

**Post Graduate (M.Tech)**

<b>Departments</b>	<b>Sanctioned Intake</b>	<b>Admissions</b>
Applied Geology	15	14
Master of Computer Applications	92	39
Civil Engineering	17	6
Chemical Engineering	25	7
Mechanical Engineering	17	15
Electrical Engineering	25	18
<b>Total</b>	<b>191</b>	<b>99</b>

**4.4 Scholarship Details**

<b>Sr.No</b>	<b>Name of Scholarship</b>	<b>Sponsored by</b>	<b>UG / PG</b>	<b>No of Students</b>	<b>Amount Involved</b>
<b>1</b>	Post Metric Scholarship for SC/ST/OBC	Tribal Welfare Dept of C. G.	UG / PG	299	10142435
<b>2</b>	Minority Scholarship	Tribal Welfare Dept of C. G.	UG / PG	10	250000
<b>3</b>	Other State Scholarship for SC/ST/OBC	Other State	UG / PG	99	4032985
<b>4</b>	Minority Scholarship	Other State	UG / PG	4	231250
<b>5</b>	M Tech	NIT Raipur	PG	52	5591069
<b>6</b>	Ph.D	NIT Raipur		10	1519389
<b>Total</b>				<b>474</b>	<b>21767128</b>



#### 4.5 Examination and Evaluation

Examinations are being conducted by the institute under academic autonomy granted to it by MHRD through its Gazette notification no. 34 Dated 06.06.2007. The institute has its own scheme of examination. The institute has adopted the transparent system of evaluation. Students can see their answer books after valuation. Presently marks and absolute grading system have been adopted for results declaration.

#### 4.6 Result Statistics

##### 1<sup>st</sup> Semester

S. No.	Branch	Appeared	Passed	Fail	Passing %
1	Architecture	59	30	29	50.85
2	Bio Medical Engineering	34	9	25	26.47
3	Bio Technology	46	18	28	39.13
4	Chemical Engineering	57	34	23	59.65
5	Civil Engineering	75	41	34	54.67
6	Computer Science & Engineering	89	62	27	69.66
7	Electrical Engineering	91	73	18	80.22
8	Electronics & Tele. Engineering	93	60	33	64.52
9	Information Technology	83	56	27	67.47
10	Mechanical Engineering	93	73	20	78.49
11	Metallurgy Engineering	87	50	37	57.47
12	Mining Engineering	68	32	36	47.06

**2<sup>nd</sup> Semester**

<b>S. No.</b>	<b>Branch</b>	<b>Appeared</b>	<b>Passed</b>	<b>Fail</b>	<b>Passing %</b>
1	Architecture	59	14	45	23.73
2	Bio Medical Engineering	32	15	17	46.88
3	Bio Technology	45	25	20	55.56
4	Chemical Engineering	53	34	19	64.15
5	Civil Engineering	73	47	26	64.38
6	Computer Science & Engineering	88	45	43	51.14
7	Electrical Engineering	89	66	23	74.16
8	Electronics & Tele. Engineering	93	67	26	72.04
9	Information Technology	81	57	24	70.37
10	Mechanical Engineering	92	66	26	71.74
11	Metallurgy Engineering	88	41	47	46.59
12	Mining Engineering	67	41	26	61.19

**3<sup>rd</sup> Semester**

<b>S. No.</b>	<b>Branch</b>	<b>Appeared</b>	<b>Passed</b>	<b>Fail</b>	<b>Passing %</b>
1	Architecture	46	13	33	28.26
2	Bio Medical Engineering	13	3	10	23.08
3	Bio Technology	13	10	3	76.92
4	Chemical Engineering	72	46	26	63.89
5	Civil Engineering	90	60	30	66.67
6	Computer Science & Engineering	93	69	24	74.19
7	Electrical Engineering	95	74	21	77.89
8	Electronics & Tele. Engineering	96	70	26	72.92
9	Information Technology	86	59	27	68.60
10	Mechanical Engineering	93	78	15	83.87
11	Metallurgy Engineering	89	70	19	78.65
12	Mining Engineering	60	31	29	51.67

**4<sup>th</sup> Semester**

S. No.	Branch	Appeared	Passed	Fail	Passing %
1	Architecture	48	21	27	43.75
2	Bio Medical Engineering	9	3	6	33.33
3	Bio Technology	12	8	4	66.67
4	Chemical Engineering	68	50	18	73.53
5	Civil Engineering	85	58	27	68.24
6	Computer Science & Engineering	89	58	31	65.17
7	Electrical Engineering	99	77	22	77.78
8	Electronics & Tele. Engineering	102	67	35	65.69
9	Information Technology	87	59	28	67.82
10	Mechanical Engineering	91	78	13	85.71
11	Metallurgy Engineering	80	69	11	86.25
12	Mining Engineering	47	24	23	51.06

**5<sup>th</sup> Semester**

S. No.	Branch	Appeared	Passed	Fail	Passing %
1	Architecture	46	28	18	60.87
2	Bio Medical Engineering	23	9	14	39.13
3	Bio Technology	30	24	6	80.00
4	Chemical Engineering	58	38	20	65.52
5	Civil Engineering	71	49	22	69.01
6	Computer Science & Engineering	85	68	17	80.00
7	Electrical Engineering	87	48	39	55.17
8	Electronics & Tele. Engineering	76	51	25	67.11
9	Information Technology	56	39	17	69.64
10	Mechanical Engineering	82	70	12	85.37
11	Metallurgy Engineering	74	68	6	91.89
12	Mining Engineering	60	42	18	70.00

**6<sup>th</sup> Semester**

<b>S. No.</b>	<b>Branch</b>	<b>Appeared</b>	<b>Passed</b>	<b>Fail</b>	<b>Passing %</b>
1	Architecture	43	17	26	39.53
2	Bio Medical Engineering	19	7	12	36.84
3	Bio Technology	24	18	6	75.00
4	Chemical Engineering	56	37	19	66.07
5	Civil Engineering	68	52	16	76.47
6	Computer Science & Engineering	78	63	15	80.77
7	Electrical Engineering	83	59	24	71.08
8	Electronics & Tele. Engineering	76	57	19	75.00
9	Information Technology	49	43	6	87.76
10	Mechanical Engineering	77	67	10	87.01
11	Metallurgy Engineering	77	67	10	87.01
12	Mining Engineering	51	35	16	68.63

**7<sup>th</sup> Semester**

<b>S. No.</b>	<b>Branch</b>	<b>Appeared</b>	<b>Passed</b>	<b>Fail</b>	<b>Passing %</b>
1	Architecture	49	24	25	48.98
2	Bio Medical Engineering	22	20	2	90.91
3	Bio Technology	27	21	6	77.78
4	Chemical Engineering	41	34	7	82.93
5	Civil Engineering	61	46	15	75.41
6	Computer Science & Engineering	70	60	10	85.71
7	Electrical Engineering	62	56	6	90.32
8	Electronics & Tele. Engineering	63	59	4	93.65
9	Information Technology	57	53	4	92.98
10	Mechanical Engineering	60	55	5	91.67
11	Metallurgy Engineering	61	55	6	90.16
12	Mining Engineering	40	28	12	70.00

**8<sup>th</sup> Semester**

<b>S. No.</b>	<b>Branch</b>	<b>Appeared</b>	<b>Passed</b>	<b>Fail</b>	<b>Passing %</b>
1	Architecture	37	37	0	100.00
2	Bio Medical Engineering	23	19	4	82.61
3	Bio Technology	27	22	5	81.48
4	Chemical Engineering	42	36	6	85.71
5	Civil Engineering	58	53	5	91.38
6	Computer Science & Engineering	62	58	4	93.55
7	Electrical Engineering	61	58	3	95.08
8	Electronics & Tele. Engineering	60	59	1	98.33
9	Information Technology	53	53	0	100.00
10	Mechanical Engineering	59	55	4	93.22
11	Metallurgy Engineering	59	55	4	93.22
12	Mining Engineering	36	34	2	94.44

**9<sup>th</sup> Semester**

<b>S. No.</b>	<b>Branch</b>	<b>Appeared</b>	<b>Passed</b>	<b>Fail</b>	<b>Passing %</b>
1	Architecture	39	30	9	76.92

**10<sup>th</sup> Semester**

<b>S. No.</b>	<b>Branch</b>	<b>Appeared</b>	<b>Passed</b>	<b>Fail</b>	<b>Passing %</b>
1	Architecture	39	39	0	100.00

**Master of Computer Applications**

S. No.	Semester	Appeared	Passed	Fail	Passing %
1	I	39	31	8	79.49
2	II	38	25	13	65.79
3	III	62	57	5	91.94
4	IV	63	54	9	85.71
5	V	57	55	2	96.49
6	VI	57	57	0	100.00

**M. Tech. 1<sup>st</sup> Semester**

S. No.	Branch	Appeared	Passed	Fail	Passing %
1	Chemical Engineering	7	5	2	71.43
2	Civil Engineering	6	6	0	100.00
3	Electrical Engineering	18	12	6	66.67
4	Mechanical Engineering	13	13	0	100.00

**M. Tech. 2<sup>nd</sup> Semester**

S. No.	Branch	Appeared	Passed	Fail	Passing %
1	Chemical Engineering	7	7	0	100.00
2	Civil Engineering	6	6	0	100.00
3	Electrical Engineering	16	16	0	100.00
4	Mechanical Engineering	13	13	0	100.00

**M. Tech. 3<sup>rd</sup> Semester**

S. No.	Branch	Appeared	Passed	Fail	Passing %
1	Chemical Engineering	10	8	2	80.00
2	Civil Engineering	2	2	0	100.00
3	Electrical Engineering	21	21	0	100.00
4	Mechanical Engineering	9	9	0	100.00

**M. Tech. 4<sup>th</sup> Semester**

S. No.	Branch	Appeared	Passed	Fail	Passing %
1	Chemical Engineering	5	5	0	100.00
2	Civil Engineering	1	1	0	100.00
3	Electrical Engineering	17	17	0	100.00
4	Mechanical Engineering	Nil	Nil	Nil	Nil

**M. Tech. Applied Geology (Yearly Exam)**

S. No.	Branch	Appeared	Passed	Fail	Passing %
1	Applied Geology 2 <sup>nd</sup> Year	12	11	1	91.67

**M. Tech. Applied Geology (Semester Exam)**

S. No.	Year	Appeared	Passed	Fail	Passing %
1	Applied Geology 1st Semester	14	14	0	100.00
2	Applied Geology 2nd Semester	14	14	0	100.00

**4.7 Training & Placement Details**

Following are the Department wise details of the Summer Training Conducted in Various Companies:

Name of the Department	Name of Companies
Bio Technology and Bio Medical	IT-BHU, Bhilai Steel Plant, Biocon Ltd, IIT Guwahati, JNU New Delhi, Osmania University Hyderabad, Genohelix Biolabs Bengaluru, University of Delhi, Mahavir Cancer Institute Patna, NTHRYS Biotech labs Hyderabad, Preventive Genetics Diagnostic Centre Nagpur, Govt. Medical College Ajmer, Scientech India Pvt. Ltd. (Indore), Cardea Biomedical Tech. Pvt. Ltd., CDAC (Mohali), Modern Medical Institute Raipur, Ramkrishna Care Hospital

	Raipur, IIT Delhi, Guru Nanak Dev Engg. College Ludhiyan
Chemical Engineering	IFFCO, TATA Steel Limited, Indian Oil Co. Limited, MECON Limited, NMDC, HPCL, RCF, Harman Finocem Limited, Bhilai Steel Plant, Balco Korba, BORL Bina, TATA Chemical U.P., Nutra Specialities Pvt. Ltd. Nellore, Indian Institute of Petroleum Dehradun, Alkali Metals Ltd. Hyderabad, Coromandal Fertilizers, Navbharat Explosives,
Civil Engineering	IFFCO, Indian Oil Co. Limited, MECON Limited, NMDC, Bhilai Steel Plant, CSEB Raipur, NTPC Ltd Singrauli(M.P.), Phoenix India (P) Ltd Hyderabad, Punj Lloyd limited, Larsen & Toubro Hyderabad, PWD Kondagaon, Mumbai Metro Pvt. Ltd., Airport Authority of India Limited, UPRVUNL Anpara(U.P.)
Computer Science and Engineering	BARC,C.G. State Power Transmission Co. Ltd., BSNL Raipur, HP, Persistent Systems, Phyzok Learning Solutions Raipur, BIOS Microsystems Pvt. Ltd, Belzabar New Delhi, Rooman Technologies, EtechAces Marketing and Consulting Ltd., Noybl infotech pvt. Ltd., Bhagalpur Ace, Simply computer pvt. Ltd., Neltech pvt. Ltd., Chaitanya IT Solutions Hyderabad, Ministry of statistic and program implementation, Ministry of info. And communication royal govt., Wipro Infotech, Ministry of environment and forest, Aptech, NIC Raipur, Axle Technology, Meja Urja Nigam Pvt. Ltd.- A joint venture of NTPC ltd.
Electrical Engineering	IFFCO, NTPC Seepat Korba, MECON Limited, SAIL Rourkela Steel Plant, Powergrid Co. of India Ltd. (Raipur), NMDC, Powergrid Co. of India Ltd. (Nagpur), HPCL, Uniworth Limited, BHEL Hyderabad, Areva T&D Ltd., TATA Power Limited, Power Grid Co. Ltd. Kanpur, Sub-station Yurebam Manipur, NTPC Bhilai, Rukmani power &



	steel ltd. Kharsia, Rajasthan rajya vidyut utpadan nigam, BHEL Bhopal, Power distribution Allahabad, Power Grid Co. Ltd. Gurgaon, NTPC Antagarh, Kota super thermal power station Rajasthan, NTPC Auraiya, U.P. power transmisssion Agra, Nuclear power co.- kota rajasthan, Dept. of atomic energy rajasthan, BHEL Jhansi, DRDO Kanpur, NTPC Talcher,
Electronics & Telecommunication Engineering	Advanced Systems Lab. HRD Group, Ultratech Cement (Hirmi Cement work), Powergrid Co. of India Ltd. (Raipur), Rashtriya Ispat Nigam Ltd. Vizag, JSPL Raipur, HP, Tikona Digital Tech., HAL Bangalore, CSEB Raipur, CSEB Bhilai, Prasar Bharti Raipur, REIL Jaipur, BHEL Hyderabad, Prakash Industries Champa, Persistent Systems, BSNL Hyderabad, BEL Hyderabad, CTTC Bhubneswar, Phyzok learning solutions Raipur, Rancore Technology Mumbai, Electronics system & service Pune, NVIDIA Graphics, IETE, Electronics co. of india ltd., BSNL DUMKA, BSNL Kolkata, BSNL Durg, BSNL Bharatpur, BSNL Bilaspur
Information Technology	Ultratech Cement (Hirmi Cement work), BARC, C.G. State Power Transmission co. ltd., BSNL Raipur, CDAC (Mohali), CSEB Raipur, CTTC Bhubneswar, Phyzok learning solutions Raipur, Rancore Technology Mumbai, BSNL Rajasthan, BSNL Raigarh, BSNL Nagpur, BSNL Indore, BSNL Varanasi, BIOS Microsystems pvt. Ltd., BSNL Sitapur, Info. Persuit Tutorials Raigarh, DVCC System pvt. Ltd. New Delhi, Idea cellular ltd. Jaipur, Chhattisgarh S/W solutions, Rediffmail Pvt. Ltd., Belzabar New Delhi, Areva T&D Ltd., Correl Telecom Delhi, NTPC NOIDA, DRDO Bengaluru, 24 Framis Digital Mumbai, ITI ltd. Allahabad
	C.G. State Power Transmission co. ltd., TATA Steel Limited, NTPC Seepat Korba, MECON Limited, NMDC,

Mechanical Engineering	HPCL, Bhilai Steel Plant, Rashtriya Ispat Nigam ltd. Vizag, BHEL Hyderabad, NTPC Talcher, IIT Madras, Toyota India, Volks wagon India, Lanco Power, Godawari Ispat, NTPC Ramaguddam, Maruti suzuki india pvt. Ltd., NTPC Dadri, Wagon Repair Shop, Tata Motors Jamshedpur, Monnet Raipur, South East central railway, Ordnance factory katni
Metallurgical Engineering	BARC, TATA Steel Limited, Bhilai Steel Plant, GP Ispat Nigam Ltd. Vizag, Rashtriya Ispat Nigam ltd. Vizag, National Metallurgical lab Jamshedpur, School of Materials Engg. Besu Shibpur, JSPL Raipur, ESSAR Hazira, RSP, Internationa advance research centre for powde metallurgical and new materials Hyderabad, Defense metallurgical research lab. Hyderabad
Mining Engineering	Bharat Coking Coal limited, SECL - South East Coalfields Limited, NMDC

## Placement Details

S. No.	Name of the Companies	Name of the Branch														Total No. of recruited students
		Bio-Technology	Bio-Medical	Chemical	Civil	CSE	Electrical	E & TC	IT	MCA	Mechanical	Metallurgical	Mining	M TECH - CT	M.E. - Mech	
1	Indiabulls Power Limited				3		2				1					6
2	LG India Limited														1	1
3	MU-SIGMA					4	1		2							7
4	Tata Motors Limited										2					2
5	Shapoorji Pallonji & Co. Ltd.				6											6
6	Arcelor Mittal										3	1				4
7	ABB - Asea Browne Boveri						2				1					3
8	Godrej & Boyce Mfg. Co. Ltd.							2			7					9
9	Tata Steel Limited						1				3	2				6
10	Belzabar								1							1
11	NTPC						2				2					4
12	Hindustan Copper Limited						3				2		5			10
13	Reliance Power Limited						4				4					8
14	Coal India Ltd.						8				5		9			22
15	Lnt ECC				5											5
16	Jindal steel plant limited											7				7
17	Cognizant Technology solutions	6	3			21	3	5	12	17		2		1		70
18	Shapoorji Pallonji INFRA						2						1			3
19	ISPAT			1			1	4			2	4				12
20	SAPIENT					1				3						4
21	Samsung Electronics limited					6			4	1						11
22	Punj Lloyd				6		2									8
23	Capgemini	1		2		5		4	13	1	1	1				28
24	Persistent					7		3	1							11
25	Essar Group			3	3		3				1	8				18

26	Accenture	1		1		3		4	6	3		2	1			21
27	Patni Computers		1			2		1	2	1						7
28	Hindustan Petroleum Co. Ltd.					3					2					5
29	Monnet Ispat Limited										1	4	1			6
30	BASF India Limited			3		1					1					5
31	Adani Power Limited				1	1	2									4
32	CCCL				4											4
33	ACC Cement Limited			3		2					1					6
34	Ace Calderys			2												2
35	Lnt ECC													2		2
36	HCL System		5			3		8	2	9						27
37	Tech Mahindra							1								1
38	Zauri Paradeep Phosphates ltd.			1												1
39	Bharti Infratel Limited				3	1										4
40	Lanco Group				2											2
41	Lafarge India Pvt. Limited			1							3					4
42	Tata Autocomp System Ltd.			5		4					3					12
43	Jindal South West			1								5				6
44	TVS Motors											1				1
45	Hindustan Zinc Limited												4			4
46	Rancore Technology							7								7
47	D. B. Power Limited				3											3
48	ONGC			6		2	3				2					13
49	Tech Endeavour Software									2						2
50	Orient Paper Mill			1		1										2
51	Sunflag Iron & Steel Co.											1				1
52	Naya Raipur Development Authority				3	1										4
Total		8	9	30	39	52	50	44	43	37	47	38	21	1	3	422

## 5.0 DETAILS OF DEPARTMENTS & OTHER ACTIVITIES

### 5.1 DEPARTMENTS

#### DEPARTMENT OF APPLIED GEOLOGY

Dr.P.Diwan	HOD & Associate Professor	M.Tech., Ph.D.
Dr. N.Vishwakarma	Assistant Professor	M.Tech., Ph.D.
Shri D.C.Jhariya	Assistant Professor	M.Tech.

#### Thesis (Doctoral)

Name of scholar	-	Mr. Datta Mainkar
Supervised By	-	Dr. P.Diwan
Title of Thesis	-	<i>“Petrological and Geochemical Investigation of the Behradih Kimberlite from the Bastar Carton, Central India, With Special Reference to its Diamond Potential”</i>

#### Seminar / Workshops / Conferences / Short term Courses / Organized / Attended:

- **Dr. N. Vishwakarma** attended workshop on “*Water Resources Recharge and Conservation*” held on 5<sup>th</sup> June 2010.
- **Mr. D.C. Jhariya** attended workshop and presented research paper on the topic of “*Assessment of Nitrate Concentration in the groundwater in and around Sagar Town, Madhya Pradesh, India*” in National Workshop on Groundwater pollution around Industrialization clusters: Mitigation and Management, Conducted by the Central Groundwater Board, North Central Chhattisgarh Region, Raipur, Chhattisgarh on 23<sup>rd</sup> February 2011.
- **Mr. D.C. Jhariya** attended orientation Course on “*Groundwater Development and Management*” conducted by the Central Groundwater Board, North Central

Chhattisgarh Region, Raipur, Chhattisgarh from 29<sup>th</sup> November to 03<sup>rd</sup> December 2010.

- **Mr. D.C. Jhariya** attended international conference and presented research papers on the topic of “*Mechanism of nitrate pollution in the groundwater around Sagar town, Madhya Pradesh, India, and Environmental impacts of the water pumped out from the wells of Coal Bed Methane (CBM) in the different coalfields of India*”. In International conference on “*Geophysical Sciences Energy, Climate Change and Evolution of Human Society, ICON GSECCES-2010*” from Dec.21-23, 2010, held at Banaras Hindu University, Varanasi.

## DEPARTMENT OF APPLIED MECHANICS

Shri Rahul Salhotra	HOD & Associate Professor (Mechanical Engineering)	M.Tech.
Shri Satish Kumar Dewangan	Assistant Professor	M.Tech.
Dr.Nitin kumar Jain	Assistant Professor	M.Tech, Ph.D.

## DEPARTMENT OF ARCHITECTURE

Dr. Abir Bandyopadhyay	HOD & Associate Professor	B.Arch., M.Plan, Ph.D.
Shri. Debasis Sanyal	Associate Professor	B.Arch., M.Arch.
Mrs. Swasti Sthapak	Associate Professor	B.Arch.
Shri Himanshu Poptani	Assistant Professor	B.Arch., M.Arch.

### **Laurels & Distinctions:**

- **Ar. Swasti Sthapak** had been awarded with certificate for being the team guide of Mr. Abhinay Sharma (Student VII Sem, B.Arch.) winner of “*Birla White Yuva Ratna Awards 2010*”

### **Seminar / Workshops / Conferences / Short term Courses / Organized / Attended:**

- **Ar. Himanshu Poptani** successfully completed “*Professional Certificate in Environmental Planning and Management*” from CEPT University, Centre for Continuing Education, Ahmedabad.
- **Ar. Himanshu Poptani** participated and organized workshop on “*Out Door/In Door Photography*” “*Basics of Photography*” with Photographic Society of Chhattisgarh and Technocracy - Technical Committee of NIT Raipur.
- **Dr. A. Bandyopadhyay, Ar. Swasti Sthapak, Ar. Vandana Agrawal** organized National Seminar on “*Future of Urbanization*”, National Institute of Technology Raipur, 26-27.07.2010.

### **Publication**

- **Dr. Abir Bandyopadhyay** guided Mr. Pranav Mishra (student X sem, 2010-11) to write a paper on “*Developing the Building from for an office Building in Hot-DRY composite climate – An Intuitive approach.*” Published on journal of Indian Institute of Architecture, 2011.
- **Dr. Abir Bandyopadhyay** wrote a paper on “*Mordern Architecture of India – In search of Identity*” published in journal ABACUS, 2011.

## DEPARTMENT OF BIOMEDICAL ENGINEERING

Mr Bidyut Mazumdar	HOD & Associate Professor (Chemical Engg.)	M.Tech., MBA
Mr Bikesh Kumar Singh	Assistant Professor	B.E., M.Tech.

### Thesis (M.Tech.)

#### Supervised by : Bikesh Kumar Singh

- 1) Name of scholar Shailaja Singh  
Title of Thesis *“ANN Based Computer Aided Diagnosis System for Enhancement, Retrieval and Classification of Mammographic Images”*
- 2) Name of scholar Ankita Chandrakar  
Title of Thesis *"Image information Retrieval from Incomplete Queries using colour, Texture and Shape features."*
- 3) Name of scholar Neelam Marshkole  
Title of Thesis *"Development of computer aided diagnosis system for retrieval and classification of brain tumours using ANN"*

### Laurels & Distinctions

- **Bikesh Kumar Singh**, Member of Reviewer Committee in International Conference on Communication, Computing & Security (ICCCS2011), Organized by Department of Computer Science and Engineering at NIT Rourkela, India in Feb-2011, Proceedings published by ACM with ISBN-978-1-4503-0464-1.



**Seminar / Workshops / Conferences / Short term Courses / Organized / Attended:**

- **Bikesh Kumar Singh** attended International Workshop on “*Medical Imaging*” from 02.01.2011 to 08.01.2011 at IIT Kharagpur sponsored by AICTE

**Publications**

- **Bikesh Kumar Singh, G. R. Sinha and Bidyut Mazumdar**, “*Integration of Spatial Information with Color for Content Retrieval of Remote Sensing Images*”, ICTACT Journal on Image & Video Processing, pp. 22-26, Vol.1, Issue.1, August 2010.
- **Mohd. Imroze Khan, Bhibhudendra Acharya, Bikesh Kumar Singh and Jigyasa Soni**, “*Content Based Image Retrieval Approaches for Detection of Malarial Parasite in Blood Images*” International Journal of Biometrics and Bioinformatics (IJBB), Volume (5) : Issue (2): 2011, pp.97-110.ISSN:1985-2347.
- **Bikesh Kumar Singh, Jitendra singh Parihar and Pritish Pal**, “*Wavelet Based information for Retrieval and Classification of Mammographic Images*” Proceedings of the 2011 International Conference on Communication, Computing & Security (ICCCS2011), organized by Department of Computer Science and Engineering at NIT Rourkela, India, **Published by ACM** with **ISBN-978-1-4503-0464-1**, Feb 2011.
- **Md. Imroze Khan and Bikesh Kumar Singh**, “*Retrieval of Changes in Moving Objects in Multiple and Color Images*” Proceedings of the 2011 International Conference on Communication, Computing & Security (ICCCS2011), Organized by Department of Computer Science and Engineering at NIT Rourkela, India, **published by ACM** with **ISBN-978-1-4503-0464-1**, Feb 2011.
- **Pritish Pal, Niladri Prasad Mohanty, Abhas Kushwaha, Bikesh Kumar Singh, B. Mazumdar**, “*Feature Extraction for Evaluation of Muscular Atrophy*” proceedings of IEEE International Conference on Computational Intelligence and

Computing Research (ICCIC), 2010, ISBN 978-1-4244-5966-7 at Tamilnadu College of Engineering, Coimbatore, Tamilnadu, Dec 2010.

## DEPARTMENT OF BIO TECHNOLOGY

Mr. Bidyut Mazumdar	HOD & Associate Professor (Chemical Engg.)	M. Tech., MBA
Dr. Lata S. B. Upadhyay	Assistant Professor	M. Sc., Ph. D.
Dr. Pratima Gupta	Assistant Professor	M. Sc., Ph. D.

### Laurels & Distinctions

Best Citizen of India Award and Rajiv Gandhi Excellency Award honored to Apurb Pandey

### Publications :

- **Pratima Gupta, Kalpana Samant and Avinash Sahu**, "*Isolation of cellulase degrading bacteria and determination of its cellulolytic potential*" in International Journal of Microbiology 2011. (Article in Press)
- **Pratima Gupta, Lata SB Upadhyay and Rajan Shrivastav**, "*Lipase catalysed transesterification of vegetable oils by lipolytic bacteria*" in Research Journal Of Microbiology Vol. 6. No.3, 288-289, 2011.

## DEPARTMENT OF CHEMICAL ENGINEERING

Dr (Mrs) A B Soni	HOD & Associate Professor	BE, M. Tech., Ph. D
Mr Bidyut Mazumdar	Associate Professor	M. Tech., MBA
Dr. P.K. Choudhari	Associate Professor	B.E,M Tech., Ph.D
Mr A K Poonia	Lecturer, Selection Grade	B.E, M. Tech.
Mr V K Singh	Lecturer, Sr. Scale	B.E, M. Tech.
Dr. Amit Keshav	Assistant Professor	B.E, M.Tech, Ph.D

Mr. Dharam Pal

Assistant Professor

B.E., M.Tech

**Research & Development:**

**Dr. P.K.Choudhari**

Title of Project: “*Treatment of rice grain based distillery wastewater*”, funded by CG, COST Raipur, Rs. 2.0 lakhs.

**Thesis (M.Tech.)**

**Supervised by** - **Dr. P.K.Choudhari**

**Name of scholar** - Deepak Sharma

**Title of Thesis** - “*Treatment of dairy wastewater*”

**Name of scholar** - Pankhuri Shrivastava

**Title of Thesis** - “*Study of supponification of ethyl acetate*”

**Supervised by** - **Mr. Anil Kumar Poonia**

**Name of scholar** - Rachna Mishra

**Title of Thesis** - “*Zero discharge methodology : A case study of Distillery effluent*”

**Name of scholar** - Neeraj Chandrakar

**Title of Thesis** - “*Study on reduction of pollution parameters of paper waste Industry*”

**Supervised by** - **Mr. V.K.Singh**

**Name of scholar** - Smriti Headau

**Title of Thesis** - “*Chemical Grsing of Emulsion Explosives – a study*”.

**Name of scholar** - Shraddha Verma

**Title of Thesis** - “*Characterisation of lake water and investigation for suitable treatment method, Likely to be submitted*”.

Supervised by - **Mr. Dharm Pal**  
 Name of scholar - Ms. Neha Budhwani  
 Title of Thesis - *“Removal of Polycyclic Aromatic Hydrocarbon present in TPO using low cost natural adsorbents”.*

#### **Laurels & Distinctions:**

- **Mr. Bidyut Majumdar** received Best Engineer Award by Abhiyanta Sangh, Raipur.

#### **Seminar / Workshops / Conferences / Short term Courses /Organized / Attended:**

- **Dr. P.K.Choudhari** attended 1<sup>st</sup> India International Energy Summit, 28<sup>th</sup> – 31<sup>st</sup> January 2011, VNIT Nagpur, India.
- **Dr. P.K.Choudhari** attended South Asian conference on *“contemporary environmental prospective, 2011”*, 25-27<sup>th</sup> March, 2011, Hidaytulla National Law University, Raipur.
- **Dr. P.K.Choudhari** attended National Conference on *“Case Studies in environmental Management”*, March 5 & 6, 2011 VNIT Nagpur.
- **Dr. Amit Kesav** attended conference on *“Mathematical modeling application to Industrial Problems”*, 28-31 March 2011.

### **DEPARTMENT OF CHEMISTRY**

Dr. (Mrs) Fahmida Khan	HOD & Associate Professor	M.Sc., Ph.D.
Dr. (Mrs) Kavita Tapadiya	Assistant Professor	M.Sc, Ph.D.
Dr. Shyama Prasad Mahapatra	Assistant Professor	M.Sc., Ph.D.

#### **Research & Development:**

Name of the Co-investigator - **Dr. S. P. Mahapatra**  
 Title of Project - Preparation and Characterization of

Microcellular Elastomer Nano Composites for  
packaging and Semi Conducting  
application,(CGCOST, Raipur)

**Seminar / Workshops / Conferences / Short term Courses / Organized / Attended:**

- S. Ganesh, **F.Khan**, S. Agrawal, M.K.Ahmed, S.K. Pandey, 4<sup>th</sup> International Symposia in Nuclear Analytical Chemistry(NAC-IV),Bhabha Atomic Research Centre(BARC), Mumbai, Nov., 15-19, 2010
- **K. Tapadia**, “*International Conference on Recent Advances in Chemical Sciences*”, 23-27 Dec., 2010, Indian Chemical Society, SOS in Chemistry, Pt. R.S. University, Raipur, CG.
- **S.P.Mahapatra**, S.Agrawal. D.K.Tripathy and S.K. Pandey, OP-A1,Functional polymers, pp 29, NIT, CALICUT, Kerela, India,28-30 Jan, 2011.
- S.K.Tiwary, **S. P. Mahapatra** and S. K. Pandey, ICNC-2011,IMSE-MG Univ.,Kottayam, Kerela,India, 7-9 January, 2011.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Dr. Shobha Lata Sinha	HOD & Associate Professor	M.E, Ph.D.
	(Mechanical Engg)	
Shri. Naresh Kumar Nagwani	Assistant Professor	M.Tech.
Shri. Dilip Singh Sisodiya	Assistant Professor	M.Tech.
Shri. Pradeep Singh	Assistant Professor	M.Tech.

**Research & Development:**

**Thesis (M.Tech. & Doctoral)**

**M.Tech Thesis**

<b>Supervised by</b>	-	<b>Dr. S. L. Sinha</b>
<b>Name of the Scholar</b>	-	Ms Niharika Saraswat
<b>Title of the Project</b>	-	<i>“Optimization of Heat Rate in 2x250MW Thermal Power Plant”</i>

#### **Ph.D Thesis**

<b>Name of the Scholar</b>	-	Mr. D. Sakhare, Scientist, CSIR, Nagpur, MS
<b>Title of the Project</b>	-	<i>“Catalytic Converter for Internal Combustion Engine”</i>
<b>Name of the Scholar</b>	-	Mr. S B Thool, Priyadarshini College of Engineering, Nagpur, MS.
<b>Title of the Project</b>	-	<i>“Room Air Flow”</i>
<b>Name of the Scholar</b>	-	Mr Tikendra Kumar Verma
<b>Title of the Project</b>	-	<i>“CFD in Room Airflow”</i>
<b>Name of the Scholar</b>	-	Mr R K Yadav, NIT, Raipur
<b>Title of the Project</b>	-	<i>“Alternative Fuels in IC Engine”</i>

#### **Laurels & Distinctions**

**Dr. S. L. Sinha** selected for

- *“Indira Gandhi Achiever Award”* by India International Friendship Society in Oct 5, 2010.
- *“Best Citizens of India Award”* by International Publishing House on June 02, 2010.
- *“Rajiv Gandhi Excellence Award”* by India International Friendship Society in June 1, 2010.

**Prof. Naresh Kumar Nagwani** selected for

- *“Marquis Who’s Who USA”* by International Publishing House on June 02, 2010.

**Seminar / Workshops / Conference / Short term Courses / Organized / Attended:**

- **Dilip Singh Sisodia** attended 2-week MHRD-ISTE sponsored workshop on “DBMS” at National Institute of Technology, Bhopal, MP in Dec 2010 & participated International conference on “*Emerging Trends in Soft computing (SCICT-2011)*” at GGU, Bilaspur(CG) in March 2011.
- **Prof. Pradeep Singh** attended 2-week MHRD-ISTE sponsored workshop on “DBMS” at Visvesvaraya National Institute of Technology, Nagpur in Dec 2010.

**Publications**

- **Dr. S. L. Sinha** “Performance of Variable Compression Test Rig Using Alcohol as fuel” in International Journal of “The Technology World”, ISSN 2180-1614, Volume V, Issue 1, March –April 2010, pp257-266.
- **Dr. S.L.Sinha** “Performance of Internal Combustion Engine Using Green fuel” in International Journal of “Multidisciplinary Research & Advances in Engineering”, ISSN 0975-7074, pp 369-381, Vol 2, No 1, April 2010.
- **Dr. S. L. Sinha** Hybrid Power System: A Step Towards Utilisation of Clean Renewable Energy Resource for the Development of Rural Areas in India in the proceedings of International Conference on “Advances in New Renewable Energy Sources” organized by Shri Rawatpura Sarkar Group of Institutions on May15, 2011.
- **Dr. S. L. Sinha** “Hybrid Power System” in the proceedings of National Conference on Global Warming: Problems and solutions organized by Department of Mechanical Engineering, Hitkarini College of Science & Technology, Jabalpur, M.P. on March16-17, 2011, page 98.
- **Dr. S. L. Sinha** “*Electrification of Un-electrified Remote Villages By Hybrid Bio-solar Power System For Providing Minimum Energy Needs*” in “*National Conference on, Recent Advances in Mechanical Engineering (NCRAIME 2011)*” organized by Department of Mechanical Engineering, TPCTS College of

Engineering, Osmanabad, AP. in association with Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, on January 28-29, 2011.

- **Naresh Kumar Nagwani**, Sandeep Kumar Gonnade, “*Recovery of loss of packet in network using constant packet reordering*”, International Journal of Communication Network & Security, Volume-1, Issue-1, 2011.
- **Naresh Kumar Nagwani, Shrish Verma,**” A Frequent Term and Semantic Similarity based Single Document Text Summarization Algorithm”, International Journal of Computer Applications 17(2):36-40, March 2011. Published by Foundation of Computer Science.

## DEPARTMENT OF CIVIL ENGINEERING

Dr. M.K.Verma	Professor	B.E., M.Tech., Ph.D.
Dr. R. K. Tripathi	Head & Associate Professor	B.E., M.Tech., Ph.D.
Dr. Samir Bajpai	Associate Professor	B.E., M.Tech., Ph.D.
Dr. U. K. Dewangan	Associate Professor	B.E., M.Tech., Ph.D.
Dr. G. D Ramtekkar	Associate Professor	B.E., M.E., Ph.D.
Shri Ajay Vikram Ahirwar	Assistant Professor	B.E , M.Tech.
Mr. Laxmikant Yadu	Assistant Professor	B.E , M.E.
Mr. Shirish V. Deo	Assistant Professor	B.E., M.E.
Dr. (Mrs.) C.P. Devatha	Assistant Professor	B.E., M.E., Ph.D.

### Thesis (M.Tech. & Doctoral)

#### Doctoral

<b>Supervised by</b>	-	<b>Dr. M. K. Verma</b>
<b>Name of the Scholar</b>	-	Narendra Agrawal
<b>Title of the Thesis</b>	-	“ <i>Development of Effective Management Plan for Critical Areas of Watersheds Using GIS and SWAT</i> ”



<b>Name of the Scholar</b>	-	Sameer Bajpai
<b>Title of the Thesis</b>	-	<i>“Study of Some Heavy Metal adsorption Characteristics of Some Soil in Chhattisgarh State”</i>
<b>Name of the Scholar</b>	-	S. K. Jaiswal
<b>Title of the Thesis</b>	-	<i>“Optimum use of Water Resources of Mahanadi Reservoir Project Complex Using Soft Computing Technique”</i>

### **M.Tech**

<b>Supervised by</b>	-	<b>Dr. M. K. Verma</b>
<b>Name of the Scholar</b>	-	Bhujrang Sai
<b>Title of the Thesis</b>	-	<i>“Application of Bivariate Thomos-Fiering Model for monthly streamflow generation”</i>
<b>Name of the Scholar</b>	-	Manitha T. P.
<b>Title of the Thesis</b>	-	<i>“Computational screening model for prediction of the cytotoxic activity of noscapine analogues with in tubulin”</i>
<b>Name of the Scholar</b>	-	Ashish Patel
<b>Title of the Thesis</b>	-	<i>“Net-Inflow Modeling For Mahanadi Reservoir Project Complex”</i>
<b>Name of the Scholar</b>	-	Atul Kumar
<b>Title of the Thesis</b>	-	<i>“Designing of inference system for asthma using artificial intelligence.”</i>
<b>Name of the Scholar</b>	-	S Singh
<b>Title of the Thesis</b>	-	<i>“Designing of inference system for diagnosis of arthritisby neuro fuzzy approach”.</i>
<b>Name of the Scholar</b>	-	S Dwivedi
<b>Title of the Thesis</b>	-	<i>“Computational Approach for analyzing osteoporosis and its docking study”</i>

<b>Name of the Scholar</b>	-	Badrinath Vishwakarma
<b>Title of the Thesis</b>	-	<i>“Insilico approach for the analysis of inhibitory activity of Amandazole and Ivermectin analogues against Filariasis”</i>
<b>Name of the Scholar</b>	-	Shobha Maliwal
<b>Title of the Thesis</b>	-	<i>“Integrated River Basin Planning of Beda River Sub-Basin Using Arc GIS”</i>
<b>Name of the Scholar</b>	-	Amrit Jagyasi
<b>Title of the Thesis</b>	-	<i>“An Approach to find Novel Drug Like Compounds for NDM-1: Insilico Modeling and Analysis”</i>
<b>Supervised by</b>	-	<b>Dr. R. K. Tripathi</b>
<b>Name of the Scholar</b>	-	Bhurang Sai
<b>Dissertation Guided</b>	-	<i>“Application of Thomos-Fiering model for monthly stream flow generation in the Mahanadi Reservoir Project Complex”</i>
<b>Name of the Scholar</b>	-	Asit Kumar Mahanty
<b>Dissertation Guided</b>	-	<i>“Optimization of Basin Water use and Planning of New Irrigation Scheme using GIS Application for Beda River SUB-Basin”</i>
<b>Supervised by</b>	-	<b>Dr. Samir Bajpai</b>
<b>Name of Scholar</b>	-	Anil Sharma
<b>Title of Thesis</b>	-	<i>“A Study on Ground Water Contamination due to Industrial Solid Waste in Context of Chhatisgarh”</i>
<b>Name of Scholar</b>	-	Manoj Kumar Tiwari
<b>Title of Thesis</b>	-	<i>“A Study on Industrial Solid Waste Management and Environmental Impact in Context of Chhatisgarh”</i>

<b>Name of Scholar</b>	-	V.K.Singh
<b>Title of Thesis</b>	-	<i>“Investigation of Techno-Social-Commercial Feasibility of Fluoride Removal Technologies”</i>

#### **Laurels & Distinctions**

- **Dr. R.K. Tripathi** honoured by Institution of Engineers (India), Chhattisgarh State Centre for valuable contribution in the field of Technical Education on **Teachers Day** i.e. **5<sup>th</sup> September 2010. (IEI/CSC/10/131 Dated 21-08-2010).**
- **Dr. R.K. Tripathi** awarded *“Best Citizens of India Award”* by Best Citizen Publishing House, 22 Babar Road, Near Bengali Market, New Delhi-110001.

#### **Seminar / Workshops / Conference / Short term Courses / Organized / Attended:**

- **Dr. R. K. Tripathi** attended regional Seminar on Best Practices of Flexible Pavement Construction on 18<sup>th</sup> Nov. 2010 organized by H. P. C. L. & National Institute of Tech. Raipur.
- **Dr. R. K. Tripathi** attended National Seminar on *“Future of Urbanization”* from 27<sup>th</sup> July 2010 to 28<sup>th</sup> July 2010 organized by National Institute of Technology Raipur.
- **Dr. R. K. Tripathi** attended state level workshop on *“Integrated Storm Water Management”* in Raipur on 31<sup>st</sup> Oct. 2010 organized by Municipal Corporation Raipur (C.G.) and GTZ
- **Dr. R. K. Tripathi** delivered Expert Lectures *“Design of Flexible and Rigid Pavements with reference to PMGSY guidelines”* (22-10-10) at Training Program for Executive, Assistant and Sub Engineers of state R.E.S. by C.G. State Rural Development Institute (Nimora) (No.10163: 13-10-2010) sponsored by Government of Chhattisgarh from 18<sup>th</sup> – 22<sup>nd</sup> October 2010.
- **Dr. R. K. Tripathi** delivered Key note address on *“Best practices of Flexible pavement Construction”* at Seminar for The road construction site supervisors of

the Chhattisgarh Region sponsored by Hindustan Petroleum Corporation Ltd. on 18<sup>th</sup> November 2010.

- **Dr. R. K. Tripathi** delivered Expert Lectures “*Design of Flexible and Rigid Pavements with reference to PMGSY guidelines*” at Training Program for Assistant Engineer and Sub Engineer posted under PMGSY from 30-11-10 to 04-12-10 at C.G. State Rural Development Institute (Nimora) sponsored by Government of Chhattisgarh on 05<sup>th</sup> December 2010.

### **Publication**

- **Ishtiyag Ahmad, Ashish Patel, Dr. M. K. Verma and Dr. R. K. Tripathi** presented technical paper on “*Fuzzy Logic Based Inflow Prediction Model for Reservoirs of Mahanadi Basin*”. First International Conference on **Emerging Trends in Soft Computing and ICT (SCICT 20110)** (ISBN NO 978-81-920913-3-4) at G.G.V. Bilaspur on 16-17 March 2011. pp 95-98.
- **Dr. R. K. Tripathi** actively engaged in the Testing and Consultancy work for the Institution. Structural Consultant for more than **130** projects and generated more 100.00 Lacs Rupees.

### **DEPARTMENT OF ELECTRICAL ENGINEERING**

Dr. K.D.Permar	Professor	B.E., M.Tech, Ph.D.
Dr. A.S.Thoke	Professor	B.E, M.Tech., Ph.D
Dr. (Mrs) S.Gupta	HOD & Associate Professor	M.Tech., Ph.D.
Dr.P.D. Dewangan	Associate Professor	B.E., M.Tech.
Mrs. Versha Singh	Assistant Professor	B.E., M.Tech.
Dr. (Mrs) Anamika Jain	Assistant Professor	B.E., M.Tech., Ph.D.
Mr. Suresh Kumar Gawre	Assistant Professor	M.Tech.
Mr. Swanjit Pattnaik	Assistant Professor	M.Tech.
Mr. Narendra Londhe	Assistant Professor	M.Tech.

**Conferences**

- **Anamika Jain, A.S. Thoke, R.N. Patel and Ebha Koley**, “*Intercircuit and Cross-country Fault Detection and Classification Using Artificial Neural Network*”, paper no. 183, Proceedings of Annual IEEE India Conference IEEE INDICON 2010 at Jadavpur University Kolkata, India, December 17-19, 2010.
- **E.Koley, A.Jain, A.S.Thoke, R.N.Patel**, “*Intercircuit and cross-country fault detection and classification using artificial neural network*”, INDICON-2010, IEEE Calcutta section, 17-19 Dec. 2010
- **Neha Bajpai, S.Gupta** “*Simulation of Unified Series Shunt COMPENSATOR FOR Power Quality Improvement*” ICEICE- 2010 (International Conference on Electronics, Information and Communication system Engineering.) March 28<sup>th</sup>-30<sup>th</sup> 2011, M.B.M.E College, Jodhpur).
- **Kaushlendra Shrama, Mrs.Varsha Singh**, “*Parametric Concept of TCP Clones*”, NCPES-2011, Kota Rajasthan.
- **Neha Bajpai, S. Gupta**, “*Simulation and Phase Locked Loop controller based three phase Unified power Quality Conditioner for Power Quality Improvement*”. First bilingual conference on CSI in the country on “IT – Contemporary and future Tech for Social Change” 9-12 March 2011, Gwalior (MP).
- **Anamika Jain and Abhradita Meshram**, “*Iris recognition using Euclidean distance*”, Proceedings of a National Conference & Events “Technologia 2011”, 24-25th Feb, 2011.
- **Anamika Jain, A.S. Thoke, R.N. Patel**, “*Modelling and testing of fuzzy based impedance relay using matlab/simulink*”, paper no. MS 101, Proceedings of National Conference AREST 2011 at Jaipur.

- **Anamika Jain, A.S. Thoke, R. N. Patel and Reshmita Sharma**, “A neural network based algorithm for detection/Classification of open conductor faults”, paper no. NFS 101, Proceedings of National Conference AREST 2011 at Jaipur.

**Seminar / Workshops / Conferences / Short term Courses / Organized / Attended:**

- **Ebha Koley** attended International Conference ,**INDICON-2010,IEEE** Calcutta section,17-19 DEC.2010.

**Thesis M.Tech.**

**M.Tech (Computer Technology)**

S.No	Name Of Scholar	Title Of Thesis
1	Ashwika Rathore	Designing of Steganography Technique based on Encryption and Scattering
2	Rashmi Tiwari	Wavelete based Palmprint Authentication System
3	Vikas Dilliwar	Parallel Boolean Function Minimization
4	Rashmiprava Singh	Wireless communication through Bluetooth Devices in Personal Area Network
3	Koushlendra Sharma	Performance Improvement through TCP E-Vegas Wired Network
4	Saroj Kr. Pandey	Energy Efficient IEEE 802.11-MAC Protocol for Wireless Sensor Network
5	Abhinav Jain	Application of ANN to six phase transmission lines protection against ground faults
6	Neha Bajpai	Simulation of Unified Series Shunt compensator for Power Quality Improvement
7	Mohit Gupta	A low complexity near lossless image

		compression for telemedicine'compression for telemedicine'
8	Mitul Kumar Ahirwal	EEG signal estimation using ICA/PCA'

## Publication

- **Narendra D. Londhe**, R. S. Anand, “*Investigation of ultrasonic shock wave propagation and superharmonic field generation in human soft tissues*,” Int. J. Mathematical Modeling and Numerical Optimisation, Vol.1, No.4, pp. 316-329, 2010.
- **Narendra D. Londhe**, R. S. Anand, “*Investigation of linear and nonlinear frequency modulated excitation effects on tissue harmonic imaging*”, Chinese Journal of Acoustics, Vol. 30, No.3, pp. 227-240, 2011.
- **Narendra D. Londhe**, R. S. Anand, “*Numerical Investigation of Superharmonic Imaging Using Chirp Excitation*”, Journal of Medical Ultrasound, Vol.19, No.3, pp. 81-86, 2011.
- **Narendra D. Londhe**, R. S. Anand, “*Simulation study of the superharmonic field generated from a phase array*”, Chinese Journal of Acoustics, Vol.30, No.4, pp.371-378, 2011.
- Mohit Gupta, **Narendra D. Londhe**, “*An Improved Low Complexity Near Lossless Image Compression*”, Int. J. Signal and Imaging Systems Engineering, Vol. 4, No. 4, pp. 207-211, 2011.
- **Anamika Jain**, **A.S. Thoke**, P.K. Modi and R. N. Patel, “*Classification and location of single line to ground faults in double circuit transmission lines using artificial neural networks*”, International Journal of Power and Energy Conversion (IJPEC), Volume 2 - Issue 2 – 2010, pp. 109-125.
- **Anamika Jain and A.S. Thoke**, “*Alternator fault diagnosis using artificial neural network*” Journal of International Association on Electricity Generation, Transmission and Distribution, Afro Asian Region Journal (AARO), Vol.22 & 23,

Jun'2010, pp. 33-37.

- Kaushlendra Shrama, **Mrs. Varsha Singh** “*Adaption of protective Measure for improving Performance Throughput of TCP*”, IJCSE 2011.
- **Mrs. Varsha Singh**, Arpit Jain M.Tech(CT), “*A survey on Topologies of multilevel inverter*” Elixir Elec. Engg. 38 (2011) 4510-4515, Available online at [www.elixirjournal.org](http://www.elixirjournal.org)
- **Anamika Jain and A. S. Thoke**, “*ANN Based Directional Fault Detector / Classifier for Protection of Transmission Lines*”, International Journal of Computer Science and Information Technologies, (IJCSIT), Vol. 2 (5), 2011, 2426-2433.
- **S. Pattnaik**, A. K. Panda, K. K. Mahapatra, “*Efficiency Improvement of Synchronous Buck Converter by Passive Auxiliary Circuit*”, IEEE Transactions on Industry Applications, Nov.-Dec. 2010, Volume 46, Issue 6, pp. 2511 – 2517
- **S. K. Pandey, S.Pattnaik**, “*Analysis of Energy Efficient end-to-end dealy for wireless sensor Network*”, IFRSA’s International Journal of computing, Vol-1, issue 3, PP-553-558, 2011.
- Neetu Ahirwar, **S. Pattnaik**, “*Texture and Intensity based Classification of Malaria Parasite in Blood Images using LM algorithm*” IJCIIS, International Journal of computational Intelligence & Information Security, Vol 2, no-12, 2011.
- Neetu Ahirwar, **S. Pattnaik**, “*Advanced Images Analysis Based System for Automatic Detection and Classification of Malaria Parasite in Blood Images.*” IJITKM, International Journal of Information Technology and Knowledge Management, Vol 5, no-1, 2011.
- **Dr. S. Gupta, Dr. A. S. Zadgaonkar**, “*Effect of load on Voltage Magnitude and Power Quality Using Artificial Neural Network*”, Chhatisgarh Swami Vivekanand Technical University, Bhilai research Journal Vol4, no1, 2011.



## DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Dr. Shrish Verma	HOD & Associate Professor	M.Tech., Ph.D.
Shri Sujay Chakraborty	Assistant Professor	M.Tech.
Shri Saikat Majumdar	Assistant Professor	M.Tech.
Shri. Bibhudendra Acharya	Assistant Professor	M.Tech.

### Thesis (M.Tech. & Doctoral)

#### Doctoral

Supervised by	-	<b>Dr. Shrish Verma</b>
Name of the Scholar	-	Shri. Saikat Majumdar Shri. Naresh Kumar Nagwani Shri. Dilip Singh Sisodiya Shri. Pradeep Singh

#### M.Tech.

Supervised by	-	<b>Dr. Shrish Verma</b>
Name of the Scholar	-	Shri V. Dilliwar
Title of the Thesis	-	<i>“Parallel Boolean Minimization Using JPPF”</i>

### Laurels & Distinctions

- **Dr. Shrish Verma** was awarded Shikhsa Bharati Award at New Delhi.

### Seminar / Workshops / Conference / Short term Courses / Organized / Attended:

- **Bibhudendra Acharya** attended 10th National Workshop on “*Cryptology*” at Department of Mathematics and Computer Applications, PSG College of Technology, Coimbatore on 2 September 2010.
- **Saikat Majumder, Shrish Verma** presented paper “*Rate adoptive distributed source channel coding using IRA code for wireless sensor networks*” presented in International conference on Information Technology & mobile communication (AIM) 2011, Nagpur.

- **Bibhudendra Acharya**, S. Sachin Sunder, Thiruvengatam M. and Aneesh K Sajan, *“Image Encryption using Index based Chaotic Sequence, M Sequence and Gold Sequence”* Proceedings of the 2011 International Conference on Communication, Computing & Security (ICCCS-2011), Rourkela, Odisha, India. pp. 541-544, February 12–14, 2011. (ISBN: 978-1-4503-0464-1)  
doi>10.1145/1947940.1948052
- Mohammad Imroze Khan, **Bibhudendra Acharya**, and **Shrish Verma**, *“Comparison between Different Illumination Independent Change Detection Techniques”*, Proceedings of the 2011 International Conference on Communication, Computing & Security (ICCCS-2011), Rourkela, Odisha, India. pp. 347-350, February 12–14, 2011. (ISBN: 978-1-4503-0464-1)  
doi>10.1145/1947940.1948013
- **Bibhudendra Acharya**, Nikhil Thomas, Kavin Arasu D R and N Vishnu Prasad, *“Encryption and Decryption of Informative Image by Key Image Using Modified Hill Cipher Technique Based on Non-Invertible Matrices”*, Proceedings of the 2011 International Conference on Communication, Computing & Security (ICCCS-2011), Rourkela, Odisha, India. pp. 606-609, February 12–14, 2011. (ISBN: 978-1-4503-0464-1) doi>10.1145/1947940.1948066
- Samiksha Soni, **Bibhudendra Acharya**, *“A Novel Architecture for Data Hiding Combining Cryptography and Steganography”*, Technologia 2011-A National Conference, M.P. Christian College of Engineering & Technology (MPC CET), Bhilai, India, 10-11 March 2011.
- **Bibhudendra Acharya**, Mohammad Imroze Khan, Sarat Kumar Patra and Ganapati Panda. *“Implementation of Hybrid Cryptosystem Using Non-Invertible Matrices Based on Hill Cipher and RSA Algorithm”*, Proceeding of National Conference on information and Communication Technology (NCICT-2011), Ewing Christian College (Autonomous College of Allahabad University), Allahabad, India. pp. 21-25, 5-6 March 2011. (ISSN: 978-93-80697-77-2)

- Anjali Chandra, **Bibhudendra Acharya** and Mohammad Imroze Khan, “*Face Detection Using Gabor Wavelet Transform and Neural Network*” Proceeding of National Conference on information and Communication Technology (NCICT-2011), Ewing Christian College (Autonomous College of Allahabad University), Allahabad, India, pp. 38-43, 5-6 March 2011. (ISSN: 978-93-80697-77-2 )
- Anuja Kumar Acharya, **Bibhudendra Acharya** and Chinmaya Kumar Nayak, “*Image Encryption Using an Index based Chaotic system*” Proceedings of International Conference on Electronic Systems (ICES-2011), Rourkela, Odisha, India. pp. 63-67, January 7-9, 2011.
- **Bibhudendra Acharya**, Himanshu Agrawal, Ankit Modi and Upendra Kumar Agrawal “*Combined Implementation of Robust Cryptosystem for Non-invertible Matrices based on Hill Cipher and Steganography*”, Proceeding of International Conference on Advances in Computer Science 2010 (AET 2010-ACS), Trivendrum, India, December 21-22, 2010. pp. 178-180.  
DOI: 02 ACS.2010.01.167
- **Bibhudendra Acharya**, Mukul Dhar Sharma, Sourabh Tiwari & Vinay Kumar Minz, “*Privacy Protection of Biometric Traits using Modified Hill Cipher with Involutory Key and Robust Cryptosystem*” Proceeding of International Conference and Exhibition on Biometrics Technology, Coimbatore, India, ELSEVIER Procedia Computer Science 2 (2010) 242–247, 02-04 September 2010.  
DOI:<http://dx.doi.org/10.1016/j.procs.2010.11.031>
- **Dilip Singh Sisodia and S.Verma** “*Static Hand Gesture Recognition System for Sign Languages: Using Error Back propagation neural network & Skin Color Modeling*” in International Conference on Emerging trends in soft computing and ICT (SCICT-2011), 16th -17th March 2011, organized by Department of CS&IT, GGU Bilaspur(C.G.).

- **Bibhudendra Acharya**, Saroj Kumar Panigrahy, Sarat Kumar Patra, and Ganapati Panda, “*Image Encryption Using Advanced Hill Cipher Algorithm*”, ACEEE International Journal on Signal and Image Processing Vol 1, No. 1, Jan 2010.
- Anjali Chandra, **Bibhudendra Acharya** and Mohammad Imroze Khan, “*Retinex Image Processing: Improving the Visual Realism of Color Image*” International Journal of Information Technology & Knowledge Management (ISSN 0973-4414) Vol-IV, Issue-II-2011, pp. 371-377.
- **Bibhudendra Acharya**, Himanshu Agrawal, Ankit Modi and Upendra Kumar Agrawal “*Combined Implementation of Robust Cryptosystem for Non-invertible Matrices based on Hill Cipher and Steganography*”, ACEEE Int. J. on Network Security , Vol. 02, No. 02, 2011, pp. 15-17.  
DOI: 01.IJNS.02.02.167

## DEPARTMENT OF HUMANITIES

Dr. Samir Bajpai	HOD & Associate Professor (Civil Engg)	B.E., M.Tech., Ph.D.
Dr Jaya Dwivedi	Assistant Professor	M.A., Ph.D.
Dr Anoop Tiwari	Assistant Professor	M.A., Ph.D.

### Visit abroad by faculty member

- **Dr. Jaya Dwivedi** presented Research Paper in International Conference ELLS2011 Organized by Chula Long Koin University Bangkok, Thailand

### Seminar / Workshops / Conference / Short term Courses / Organized / Attended:

- **Dr. Anoop Kumar Tiwari** attended Staff Development Programme at NITTT R Bhopal (M.P.) English on Research & Teaching Methodology (3 Week)

**Any other activities**

- **Dr. Anoop Kumar Tiwari** conducted a Two Month Training Programme on Proficiency Development in Communication Skills in English for staff of NIT Raipur.

**DEPARTMENT OF INFORMATION TECHNOLOGY**

Dr. Shrish Verma	HOD & Associate Professor (E&T)	M.Tech.,Ph.D.
Mr. Sudhakar Pandey	Assistant Professor	M.Tech.
Mr. Satya Prakash Sahu	Assistant Professor	M.Tech.
Mr. Rakesh Tripathi	Assistant Professor	M.Tech.
Mr. Sanjay Kumar	Assistant Professor	M.Tech.

**Thesis (M.Tech.)**

<b>Supervised by</b>	-	<b>Satya Prakash Sahu</b>
<b>Name of the Scholar</b>	-	Miss. Satya Verma
<b>Title of the Thesis</b>	-	<i>“Secured &amp; Authentic Communication by Combined approach of Digital Watermarking &amp; Steganography”</i>
<b>Name of the Scholar</b>	-	Miss. Rashmi Prava Singh
<b>Title of the Thesis</b>	-	<i>“Application on Wireless Communication through Personal Area Network (PAN)”</i>

**Laurels & Distinctions**

- **Dr. Shrish Verma** was awarded Shikhsa Bharati Award at New Delhi.

**Seminar / Workshops / Conference / Short term Courses / Organized / Attended:**

- **Satya Prakash Sahu** attended the Two Day workshop on *“Soft Computing & Knowledge Mining”*, 29-30<sup>th</sup> March, 2011, organized by MANIT Bhopal (MP) India.

- **Satya Prakash Sahu**, Rashmiprava Singh, “*Research towards Bluetooth based Wireless Devices*”, International Conference on Intelligent System & Data Processing (CISD 2011) on 24-25 January 2011 at G H Patel College of Engg & Technology, Vidyanagar, Gujrat, India.
- **Satya Prakash Sahu**, Rahmiprava Singh, “*Bluetooth based Wireless Personal Area Network(PAN): An Overview*”, International Conference on Value Creation for Competitive Differentiation: Emerging Business Model on Global Economy, on 30-31 January 2011 at Prestige Institute of Management & Research, Indore, MP, India.
- **Satya Prakash Sahu**, Satya Verma, “*Secured & Authentic Communication by Combined Approach of Digital Watermarking & Steganography*”, Second International Conference on Advances in Communication, Network, and Computing, CNC 2011, Bangalore, India, March 10-11, 2011.
- Mohammad Imroze Khan, **Bibhudendra Acharya**, and **Shrish Verma**, “*Comparison between Different Illumination Independent Change Detection Techniques*”, Proceedings of the 2011 International Conference on Communication, Computing & Security (ICCCS-2011), Rourkela, Odisha, India. pp. 347-350, February 12–14, 2011. (ISBN: 978-1-4503-0464-1) doi>10.1145/1947940.1948013.
- **Dilip Singh Sisodia** and **S.Verma** “*Static Hand Gesture Recognition System for Sign Languages: Using Error Back propagation neural network & Skin Color Modeling*” in International Conference on Emerging trends in soft computing and ICT (SCICT-2011), 16<sup>th</sup> -17<sup>th</sup> March 2011”, organized by Department of CS&IT, GGU Bilaspur (C.G.).
- **Satya Prakash Sahu**, Satya Verma Article: “*Secured & Authentic Communication by Combined Approach of Digital Watermarking & Steganography*”, Springer Verlag Berlin Heidelberg 2011, CNC 2011 CCIS 142, pp 595-599. ([Communications in Computer and Information Science](#), 2011, Volume 142, Part 3, 595-599, DOI: 10.1007/978-3-642-19542-6\_117)  
URL – <http://www.springerlink.com/content/n5674h3730g4g66k>.

- **Sudhakar Pandey**, Narendra Kumar Shukla, “*Improved Node Failure Prediction Qos Routing Protocol with Classified Power Levels*”. International Journal of Engineering & Management Science, IJEMS Vol. 1(1). 66-68, ISSN 2229 600x, September 2010.
- **Sudhakar Pandey**, Narendra Kumar Shukla, “*Improved Weighted Clustering Algorithm for Mobile Ad Hoc Networks*”, International Journal of Engineering & Management Science, IJEMS Vol. 2(1), 2011: 20-25, ISSN 2999 600x, January 2011.

## DEPARTMENT OF MATHEMATICS

Dr. R.P. Pathak	HOD & Associate Professor	M.Sc, Ph.D.
Dr. Arvind Kumar Sinha	Assistant Professor	M.Sc, M.Phil, Ph.D
Dr. Gorakh Nath	Assistant Professor	M.Sc, Ph.D

## DEPARTMENT OF M C A

Mr. Harendra Bikrol	HOD & Associate Professor	B.E., M.Tech
Mr. Mithilesh Atulkar	Associate Professor	B.E., M.Tech
Mrs. Manju Pandey	Assistant Professor	M.C.A
Dr.(Mrs.) Priyanka Tripathi	Assistant Professor	M.C.A., Ph.D.
Dr. (Mrs.) Kesari Verma	Assistant Professor	M.C.A., Ph.D.

## Publication

- **Priyanka Tripathi, Manju Pandey, Divya Bharti**, “*Towards the Identification of Usability Metrics for Academic Web-Sites*”, Proceedings of The 2nd International Conference on Computer and Automation Engineering (ICCAE), 2010, 26-28 Feb. 2010, Vol. 2, Pages 393-397, E-ISBN: 978-1-4244-5586-7, Print ISBN: 978-1-4244-5585-0

## DEPARTMENT OF MECHANICAL ENGINEERING

Dr. A.M. Rawani	Professor	M.Tech. Ph.D.
Dr. S.Sanyal	HOD & Associate Professor	B.E., M.E., Ph.D.
Dr. Shobha Lata Sinha	Associate Professor	M.E, Ph.D.
Shri Rahul Salhotra	Associate Professor	M.Tech
Dr. S.D.Patle	Associate Professor	M.Tech, Ph.D.
Dr. Anil Kr.Tiwari	Associate Professor	M.Tech, Ph.D.
Dr. S. P. S. Matharu	Associate Professor	B.Tech, M.Tech, Ph.D.
Shri G.K. Sahu	Lecturer (Selection Grade)	M.Tech.
Shri. Ravindra Kuamr Yadav	Associate Professor	M.Tech.
Shri. Suraj Kumar Mukti	Assistant Professor	M.E.
Shri. Vivek Kumar Gaba	Assistant Professor	M.E.
Dr. Subhankar Bhowmick	Assistant Professor	M.E.,Ph.D.

### Conference

- **Vivek Kumar Gaba** presented paper on “*Performance Analysis of Coal Fired AFBC 30 TPH Boiler and its Losses Improvements Methodology*” in National Conference on Recent Advances in Mechanical Engineering, Jan 28-29, 2011 at Osmanabad (MS).

### Visit abroad by faculty member

- **Dr. A. M. Rawani** visited China to deliver keynote speech in International Conference. Visited Mauritius to deliver invited speech in International Conference.
- **Dr. Anil Kr Tiwari** has been attended international Congress of Environmental Research at University of Mauritius during 16<sup>th</sup> to 18<sup>th</sup> September 2010 to present a technical paper titled “*Techno-Economic analysis of using Solar Energy through Water Heating application for Raipur City : A State capital of India*”.



## **Thesis (M.Tech. & Doctoral)**

### **Doctoral**

<b>Supervised by</b>	-	<b>Dr. S. Sanyal</b>
<b>Name of the Scholar</b>	-	Shri S.P.S. Matharu
<b>Title of the Thesis</b>	-	<i>“Investigations on the performances of Rolling Element bearings for enhanced life.”</i>
<b>Name of the Scholar</b>	-	Shri G.S. Bedi
<b>Title of the Thesis</b>	-	<i>“Kinematic synthesis and Analysis of Mechanics”</i>

### **M.Tech**

<b>Supervised by</b>	-	<b>Rahul Salhotra</b>
<b>Name of the Scholar</b>	-	Mohit Chandrakar
<b>Title of the Thesis</b>	-	<i>“Exergy”</i>

<b>Supervised by</b>	-	<b>Dr. Anil Kr Tiwari</b>
<b>Name of the Scholar</b>	-	Akshay Pahade
<b>Title of the Thesis</b>	-	<i>“Techno-Economic Analysis For Sustainable Use of Solar Energy Through Water Heating Application: For Raipur City”.</i>
<b>Name of the Scholar</b>	-	Balbir Singh
<b>Title of the Thesis</b>	-	<i>“Pollution Through an On-Land Oil Well Drilling Rig And Proposed Control Methods: In Indian Scenario”</i>

<b>Supervised by</b>	-	<b>Dr. Shubhankar Bhowmick</b>
<b>Name of the Scholar</b>	-	Ms. Prerna Nashine
<b>Title of the Thesis</b>	-	<i>“Combustion modeling of diesel engine using bio diesel as secondary fuel”</i>

### **Laurels & Distinctions**

- **Dr. A.M. Rawani** received “Rashtriya Gaurav Award” in April – 2010.
- **Dr. (Ms.) S.L. Sinha** received “*Shiksha Ratna Puruskar*” by India International Friendship Society in April 07, 2010.
- **Dr. (Ms.) S.L. Sinha** selected for “*Best Citizen of India Award*”, June 2, 2010. Indira Gandhi Achiever Award Oct 5, 2010.

### **Seminar / Workshops / Conferences / Short term Courses / Organized / Attended:**

- **Dr. (Ms.) S.L. Sinha** attended seminar on “*Role of Education in Modern India*” on 07.04.2010. Attended national conference on Global warming 16 -17 March 2011.
- **Suraj Kumar Mukti** attended International Conference ICOMS - 11, 28-29 Jan 2011. IMT Nagpur M.H.
- **Vivek Kumar Gaba** attended Short Term Course on “*Diesel Particulate & Nox Emission: Formation & Control*” at IIT Kanpur from 10-14 September,2010

### **Any other activities**

#### **Consultancy**

##### **Dr. S. Sanyal**

<b>Title of Report</b>	-	“ <i>Investigation Report of Tower Crane Accident</i> ”
<b>Funding Agency</b>	-	NRDA, Raipur
<b>Date of Report</b>	-	27.08.10
<b>Name of P.I. and other investigators</b>	-	Dr. S.Sanyal, Dr. S.L.Sinha, Dr. S.P.S.Matharu
<b>Status</b>	-	Completed

##### **Dr. Anil Kumar Tiwari**

<b>Title of Report</b>	-	“ <i>The Premature Failure of Komatsu makes Engine Model</i> ”
<b>Funding Agency</b>	-	SECL
<b>Date of Report</b>	-	06/01/2011

**Name of P.I. and other investigators** - Dr. Anil Kumar Tiwari

**Status** - Completed

**Title of Report** - “Cooling Load Calculation of Indoor Stadium of Raipur”

**Funding Agency** - Voltas Ltd.

**Date of Report** - 17/01/2011

**Name of P.I. and other investigators** - Dr. Anil Kumar Tiwari

**Status** - Completed

**Vivek Kumar Gaba**

**Title of Report** - “The Premature Failure of Komatsu makes Engine Model”

**Funding Agency** - SECL

**Date of Report** - 06/01/2011

**Name of P.I. and other investigators** - Dr. Anil Kumar Tiwari

**Status** - Completed

**Title of Report** - “Cooling Load Calculation of Indoor Stadium of Raipur”

**Funding Agency** - Voltas Ltd.

**Date of Report** - 17/01/2011

**Name of P.I. and other investigators** - Dr. Anil Kumar Tiwari

**Status** - Completed

#### **Publication**

- **Mr. R. K. Yadav** “Performance of Internal Combustion Engine Using Green Fuel (*Jatropha Oil*)”. Published in International Journal of Multidisciplinary Research and Advances in Engineering, ISSN 0975-7074, Vol. 2, April 2010, PP 369-381
- **Mr. R. K. Yadav** “Performance of Variable Compression Test Rig Using Alcohol as Fuel”. Published in International Journal of The Technology World, ISSN 2180-1614, Vol.5, Issue 1, March April 2010, pp 257 – 266.

## DEPARTMENT OF METALLURGICAL ENGINEERING

Mr A P Rajimwale	HOD & Associate Professor	M.Tech
Mr Manvendra Kumar Tripathi	Assistant Professor	M. Tech.
Mr Manoranjan Kumar Manoj	Assistant Professor	M. Tech.
Dr Manoj Kumar Chopkar	Assistant Professor	M.Tech, Ph.D.

### Laurels & Distinctions

- **Dr. Manoj Kumar Chopkar** has become Member of Editorial Board, ISST Journal of Mechanical Engineering(IJME) ( since 2009 to till date)

### Publication

- Publication in international journal by G. Paul, **M. Chopkar**, I. Manna, P.K. Das, *“Techniques for measuring the thermal conductivity of nanofluids: A review, Renewable and Sustainable Energy Reviews”*, Vol:14, Issue 7, September 2010, Pages 1913-1924

## MINING ENGINEERING DEPARTMENT

Shri P.Y Dhekne	HOD & Associate Professor	B.E, M.Tech
Dr.Manoj Pradhan	Associate Professor	B.E, M.Tech, Ph.D
Shri B.R Parate	Associate Professor	B.E, M.Tech
Shri M.D Patel	Associate Professor	B.E, M.Tech
Shri P.K Dewangan	Associate Professor	B.E, M.Tech
Dr. Nawal Kishore	Assistant Professor	B.E, M.Tech, Ph.D.
Dr. Ravi Krishnarao Jade	Assistant Professor	B.E, M.Tech, Ph.D.

**Thesis (M.Tech.)**

<b>Supervised by</b>	-	<b>Dr. M. Pradhan</b>
<b>Name of the Scholar</b>	-	Kumari Smriti Hedue
<b>Title of the Thesis</b>	-	<i>“Factors affecting chemical gassing of bulk emulsion explosive”</i>

**Laurels & Distinctions**

- **Dr.M.Pradhan** confessed Prof. H.R.Annireddy Award by the Indian Mining and Engg. Journal at MineTech2010. Dr. Rajendra Prasad memorial prize conferred upon by Institution of Engineers India, Kolkatta to Prof. M.Pradhan.
- **Prof P.Y.Dhekne** attended Mine Tech 2010, organized by Indian Mining & Engineering Journal held at Bhubneshwar.

**Seminar / Workshops / Conferences / Short term Courses / Organized / Attended:**

- **Dr. M. Pradhan** attended “*Indian Engineering Congress*”, organized by Institution of Engineers India at Kochi. Attended Mine Tech 2010 organized by Indian Mining & Engineering Journal held at Bhubneshwar.
- **Jade R. K., Pradhan M.** (2011), “*Technological Issues in Implementation of High Wall Mining in India*”, The Indian Mining & Engineering Journal, Vol. 50, No 04, pp 8-12.
- **Jade R. K., Sastry, B. S. & Pradhan M.** (2011), Flow Effect of Two- way Splits and Junctions in Mines Airways – An experimental and Computational Approach”, The Indian Mining & Engineering journal, Vol.50 No 2 pp8-13.
- **Pradhan M. & Dhekne P. Y.** (2011), “*Some Guiding Principle to Improve Performance of Bulk Emulsion Explosives*”, National Seminar on Explosives and Blasting Techniques for Mining, Quarrying and Infrastructure Industries, Feb 18-19, NIT, Suratkal.

- **Dhekne P.Y. & Pradhan M.**, (2011), “*Blast Practices Vis-à-vis Rock Fragmentation: A Case Study of Limestone Quarries in Raipur District*” , National Seminar on Explosives and Blasting Techniques for Mining, Quarrying and Infrastructure Industries, Feb 18-19, NIT, Suratkhal. Various Laboratory testing of Physico-mechanical properties of rock samples.
- **Dr. N. Kishore & P. Dewangan** (2010), “*Estimation of Operating Cost of Dragline in Various Modes of Operation*”, The Indian Mining & Engineering Journal, India, Vol.49, No.08, P.131-133.
- **P. Dewngan, M. Pradhan & Dr. N. Kishore** (2010), “*Utilization of Fly Ash as a Structural Fill Material for Safe and Sustainable Development ; Need of the Hour*”, The Indian Mining & Engineering Journal, India, Vol.49, No.08, P.134-139

#### **Any other activities**

- **Dr. M. Pradhan** member, consulting editor of Indian Mining & Engineering Journal.
- **Prof P. Y. Dhekne** co-chairman of the session of explosive and blasting session Mine Tech-2010 held at Bhubneswar on May 2010.

#### **DEPARTMENT OF PHYSICS**

Dr. (Mrs.) Sadhana Agrawal	HOD & Associate Professor	M.Sc., M. Phil., Ph.D.
Dr. A.K. Srivastav	Associate Professor	M.Sc., Ph.D.
Dr. Bijay Kumar Sahoo	Assistant Professor	M.Sc. Ph.D.
Dr. Ayush Khare	Assistant Professor	M.Sc. Ph.D.
Dr. Sapan Mohan Saini	Assistant Professor	M.Sc., M.Phil., Ph.D.

#### **Laurels & Distinctions**

- **Dr. Ayush Khare** won 1<sup>st</sup> prize in Essay writing competition (in hindi) held during celebration of “**Hindi Pakhwada-2010**” at NIT, Raipur. Nominated as a member by American Nano Society (ANS).

#### **Seminar / Workshops / Conferences / Short term Courses / Organized / Attended:**

- **Dr. Bijoy Kumar Sahoo** attended Seminar on Material Sc. at ITER, Bhubaneswar in 2010 -2011
- **Dr. Sapan Mohan Saini** attended Seminar on Material Sc. at ITER, Bhubaneswar in 2010 -2011.
- **Dr. Ayush Khare** presented research paper in International Conference on Fundamentals and Applications of Nano Science and Technology (**ICFANT-2010**) organized by Jadavpur University, Kolkata from December 9-11, 2010.
- **Dr. Mrs. Sadhana Agrawal** attended XVI - National Seminar on Ferroelectrics and Dielectrics GGCU Bilaspur from 2nd -4th Dec 2010. Attended AICON - 2011, CSIT Bhilai from 28-29 Jan 2011. Attended Technology 2011, MP Christion College of Engg. and Tech., Bhilai from 10-11 March 2011.

#### **Publication**

- T. Abdul Kareem, A. Anu Kalliani and **Ayush Khare**, "*Characterization of Mn doped ZnS Nanocrystalline Powder Dispersed in Polyvinyl Alcohol*", Arabian Journal of Chemistry (2010, in press).
- Smriti Agrawal and **Ayush Khare**, "*Effect of La on Optical and Structural of CdS-Se Films*"; Arabian Journal of Chemistry (2011, in press).
- **Ayush Khare**, D. S. Kshatri and R. B. Sahu, "*Structural and Optical Properties of Chemically Deposited Nanocrystalline CdS Films*", **Journal of Ovonic Research** 7 (2) 2011 36-43.
- **Ayush Khare**, D. S. Kshatri and R. B. Sahu, "*International Conference on Fundamentals and Applications of Nano Science and Technology*" (**ICFANT-2010**), Jadavpur University, Kolkata, December 9-11, 2010 p.145.
- **Ayush Khare** and D. S. Kshatri, Abstract Book of International Conference on Functional Polymers organized by NIT Calicut during January 28-30,2011.

- S. Bhushan and **Ashok Shrivastav** “*Photo conductivity and Photoluminescence in Chemically deposited films of (Cd-Pb)<sub>s</sub> : Cd*” (12,(e. Indian J. Phys.84(11) 1517 - 1526(2010)

### **Any Other Activities**

- **Dr. Ayush Khare** is working as Chief Editor, Nanhi Duniya (the first nano science magazine for school students) for details visit: [www.nanhiduniyaa.blogspot.com](http://www.nanhiduniyaa.blogspot.com). Attended Akhil Bhartiya Rajbhasha Sangoshthi organized by MHRD, New Delhi Panji, Goa on 10.01.2011.



## 6 CENTRAL FACILITIES

### 6.1 LABORATORIES

#### Departments wise details of Laboratories

<b>Name of Department</b>	<b>Name of Laboratories and other facilities available</b>
<b>Applied Geology</b>	Optical Lab, Geological Museum, Remote Sensing & GIS Lab, ROCK/ORE Cutting Polishing Lab, Field Geology Lab, Hydrogeology Lab
<b>Architecture</b>	Climatology, Model Making Workshop, Building Material Museum, Computer, Architecture
<b>Biomedical Engineering / Biotech</b>	Computer Lab, Anatomy & Physiology Lab, Bio Chemistry Lab
<b>Chemical Engineering</b>	Waste water treatment, Mass Transfer, Heat Transfer, Fluid Mechanics, Reaction Engineering, Chemical Technology, Fuel Technology Laboratory, Computer Centre, Environmental Lab, Instrumentation & Process Control, Simulation & Modeling
<b>Chemistry</b>	UG Lab, PG Lab, Research Lab
<b>Civil Engineering</b>	Computer Centre, Concrete Technology, Environmental Engineering, Geotech Engineering, Hydraulics, Structural Engineering, Survey Laboratory, Transportation Engineering, Water Resources Engineering
<b>Computer Science and Engineering</b>	Advanced Software Engg. Lab, Computer Programming Lab, Advanced Computer Network, Linux Unix Lab
<b>Electrical Engineering</b>	High Voltage, Research Lab, Workshop, Instrumentation, Electronics Lab, M.Tech Lab
<b>Electronics &amp;</b>	Electronics Devices and Electronic Workshop,

<b>Telecommunication Engineering</b>	Instrumentation, Microwave and Optical Communication, Computer Programming, Digital Signal Processing, Microprocessor, Electronic and Tele Communication, Digital Electronics, Analog Electronics
<b>Information Technology</b>	Computer Networking, Data Base Management, Electronic and Tele Communication, Operating System (Unix/Linux), Graphics, Image &Multimedia
<b>Mechanical Engineering</b>	Strength of Material, Automobile Engineering, Heat and Mass Transfer, Energy Conversion, Thermodynamics, Refrigeration, Dynamics, CAD&CAM, Meteorology and Instrumentation, Turbo-machinery, I C Engines, Engineering Mechanics, Workshop, PG Computer Lab
<b>Metallurgical Engineering</b>	Foundry Laboratory, Heat Transfer and Furnace Lab, Project Lab, Materials Science Lab, Instrumentation Lab, X-Ray diffraction Lab, Electro Metallurgy Lab, Physical Met & Metallography, Fuel Technology Lab
<b>Mining Engineering</b>	Mine Environment Lab, Rock Mech. Lab, General Mining Lab, Computer Lab, Mine Survey Lab, Mineral Dressing Lab
<b>Physics</b>	General Lab, Laser and Fiber Optics Lab, Research Lab

## 6.2 LIBRARY

The college library constitutes a huge central library, which supports the teaching, research and continuing education programs of the institute. All the students, faculty members, and employees of the institute are entitled to make use of the library facilities. The library is situated on the 2<sup>nd</sup> floor of the building and covers a total carpet area of 1640 square meter. It has more than One Lakh books available for students of various disciplines. It also has a rich reference section.

There is a separate reading section subscribing several newspapers and magazines. There is a separate departmental library in Architectural Department as well with number of books and journals.

### **6.3 DISPENSARY**

The Institute has a dispensary with following staff:

<b>Dr. Sanjeev Pandey</b>	Medical Officer	M.B.B.S.
---------------------------	-----------------	----------

All the staff & Students of the Institute avail the medical facilities from the dispensary. Also the Dispensary has an ambulance for carrying the patients for emergency treatment.

### **6.4 GAMES & SPORTS**

The institute lays a considerable emphasis on the participation of the students in various outdoor and indoor sports activities, which cover athletics, badminton, basketball, cricket, football, table tennis, volley ball, chess etc. Well laid out fields are available in the campus for the cricket, football, volleyball, basketball, hockey, table tennis, badminton and Lawn tennis etc. The fields cover a total area of 80,000 sq.m. and ample opportunities are provided to the students to explore their sports talent.

### **INTER BRANCH TOURNAMENT**

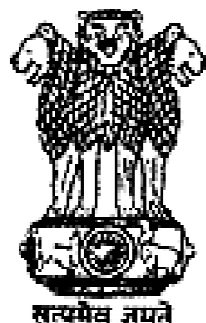
This year a successful inter branch tournament was organized by our dedicated students coordinators. The tournament saw participation of over 400 student (both girls and boys). The games which were part of Inter Branch tournament along with their winners are listed below : -

<b>GAME</b>	<b>WINNERS</b>
1. <b>BADMINTON</b>	Navneet Soni (B) Surabhi B. Nayar (G) Navneet Soni & Rajat Singh (B Doubles) Surbhi B. Nayar & Divya Sahu (G Doubles)
2. <b>TABLE TENNIS</b>	Anant Mairal (B)
3. <b>CARROM</b>	Naveen Janjgid & Vedula Nitisha Neha Parikh & Rohita Mal Parikshit Singh & Ashish Bhainsari
4. <b>CHESS</b>	Abhishek Jha & Tejas Parepalli Greeshma
5. <b>KHO-KHO</b>	Boys :- 4 <sup>th</sup> Year (Amar Kaswan-C) Girls:- 2 <sup>nd</sup> Year (Ekta Sahu-C)

## **6.5 HOSTELS & STAFF QUARTERS**

The institute has 5 No's of boys Hostels (A, B, C, D & F.). Each hostel has a capacity of 100 students. There are facilities for residing UG as well as PG students, There are three girl's hostels (E, G and PG Girl's hostel), Hostel E has a Capacity of 100 students, hostel G & PG Girl's Hostel has a capacity of 20 students each. Each hostel is well equipped, with Sports facility like carom, chess, volleyball, football, cricket & table-tennis. There is sufficient infrastructure like iron cots, chairs, tables for the students. In hostel campus there is also a gymnasium for work out by students. Maintenance of hostel is done by the Estate Office.

There are sufficient numbers of quarters for the staff members.



**SEPARATE ANNUAL REPORT ON THE ACCOUNTS OF  
THE NATIONAL INSTITUTE OF TECHNOLOGY,  
RAIPUR**

**FOR THE YEAR 2010-11**

**भारतीय लेखा एवं लेखा परीक्षा विभाग**  
**कार्यालय महालेखाकार (लेखा परीक्षा), छत्तीसगढ़, रायपुर**  
**INDIAN AUDIT & ACCOUNTS DEPARTMENT**  
**Office of Accountant General (Audit), Chhattisgarh, Raipur.**

दिनांक

Date : ०९.१२.११

To

The Secretary  
Ministry of Human Resource Development,  
(Department of Secondary and Higher Education),  
Government of India,  
New Delhi – 110 001.

**Sub:** Certification of accounts of National Institute of Technology, Raipur for the year 2010-11 under Section 19 (2) of the CAG's DPC Act, 1971.


Sir,

The audit of accounts of National Institute of Technology, Raipur has been entrusted to this office under Section 19 (2) of the Comptroller and Auditor General's (Duties, Powers and Conditions of Service) Act, 1971 read with Section 22 (2) of the NIT Act, 2007. Accordingly, I am forwarding herewith the certified accounts for the year 2010-11 together with the Audit Report thereon.

It may be ensured that audited accounts along with the audit report thereon duly approved/adopted by the Board of Governors are laid before the Parliament. The dates of presentation of the certified accounts and Audit Report thereon for 2006-07, 2007-08, 2008-09 and 2009-10 to both the Houses of Parliament may please be intimated to this office.

Encl: As above.

Yours faithfully,

  
(P.C. Majhi)  
Accountant General (Audit)

**Separate Audit Report of the Comptroller & Auditor General of India on the accounts of National Institute of Technology (NIT), Raipur for the year ended 31 March 2011**

1. We have audited the attached Balance Sheet of National Institute of Technology (NIT), Raipur, Chhattisgarh as at 31 March 2011 and Income & Expenditure Account for the year ended on that date under section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with section 22(2) of the NIT Act 2007. These financial statements are the responsibility of NIT's management. Our responsibility is to express an opinion on these financial statements based on our audit.
2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standard and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects etc., if any, are reported through Inspection Reports/CAG's Audit Report separately.
3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.
4. Based on our audit, we report that:
  - i. We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.
  - ii. The Balance Sheet and Income & Expenditure Account dealt with by this report have been drawn up in the format approved by the Government of India, Ministry of Finance.
  - iii. In our opinion, proper books of accounts and other relevant records have been maintained by the NIT as required under Section 22(1) of the Act, in so far as it appears from our examination of such books.
  - iv. We further report that:

#### A. BALANCE SHEET

##### Fixed Assets (Sch-E) ₹ 41.93 crore

This does not include ₹ 3.46 lakh being value of Books purchased during the year 2010-11. This has resulted in understatement of Fixed Assets and understatement of Current Liabilities by ₹3.46 lakh.

#### B. INCOME AND EXPENDITURE ACCOUNT

##### I. Tuition Fees (Sch- I) ₹ 8.67 Crore

NIT academic session 2010-11 was from July 2010 to June 2011 and tuition fees were collected in advance for July 2010 to December 2010 and January 2011 to June 2011 in July 2010 and December 2010 respectively. Up to financial year 2009-10, accounts were prepared under cash basis but in the financial year 2010-11, accounts were prepared under accrual basis but accounting of tuition fees was wrongly done on cash basis. This has resulted in overstatement of tuition fees and consequent overstatement of "Excess of Income over Expenditure" by ₹ 55.15 lakh as given below:-

	(in ₹)
1. Tuition fees accounted (from July 2010 to June 2011)	8,66,75,880
2. To be accounted ( from July 2010 to March 2011 for 09 months)	6,50,06,910
3. To be accounted (from April 2010 to June 2010 for 03 months ₹ 646,17,742 for 12 months from July 2009 to June 2010)	1,61,54,436
<b>Total</b>	<b>55,14,534</b>

##### II. Consultancy fees (Sch – H) ₹ 59.05 Lakh.

This does not include ₹ 6.27 Lakh being consultancy fees for the month of March 2011 receivable from Chhattisgarh Grih Nirman Mandal. This has resulted in understatement of "Excess of Income over Expenditure" by ₹ 6.27 Lakh.

##### III. Interest Received (Sch-J) ₹ 2.24 Crore

The above includes ₹ 10.21 lakh being interest earned on fixed deposits of the employees provident funds which should have been added in the employees provident fund balances. This has resulted in overstatement of interest received and understatement of employees provident funds by ₹ 10.21 lakh each. Consequently, Excess of income over Expenditure is overstated by ₹ 10.21 lakh.



**IV. Hostel Fees (Sch- M) ₹ 43.29**

This includes ₹ 10.82 lakh being the hostel fee pertaining to the period from April 2011 to June 2011 received in advance during the year 2010-11. This has resulted in overstatement of "Excess of Income over Expenditure" and understatement of Current Liabilities and Provision (Sch-D) to the same extent.

**V. Contract salary and Daily wages (Sch-N) ₹ 4.26 Crore**

This does not include ₹ 17.74 Lakh being contract salary and daily wages for the year 2010-11. This has resulted in understatement of current liabilities and overstatement of Excess of Income over Expenditure by ₹ 17.74 lakh.

**VI. DA Arrears (Sch -N) ₹ 10.60 Lakh**

This does not include ₹ 8.11 lakh being 6 percent DA arrears from January 2011 to March 2011. This has resulted in overstatement of "Excess of Income over Expenditure" by ₹ 8.11 lakh and understatement of Current liabilities and provisions by the same amount.

**C. GENERAL COMMENTS**

**1. Non-constitution of Board of Governors :**

As no Board of Governors has been constituted, the Annual Accounts of the Institute for the year 2010 -11 was approved by the Chairman only.

**D. Grants-in-aid:-**

Out of grants-in-aid of ₹ 55.56 crore received during the year (₹ 20 crore was received in March), the organization could utilize a sum of ₹ 35.33 crore leaving a balance of ₹ 20.23 crore as unutilized grant as on 31 March 2011. Project wise details of Grant-in-aid are enclosed at Annexure I.

**E. Management Letter:**

Deficiencies which have not been included in the Audit Report have been brought to the notice of the Institute through a management letter issued separately for remedial/corrective action.

v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income & Expenditure Accounts/ Receipt and Payment Accounts dealt with by this report are in agreement with the books of accounts.


vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts,

and subject to the significant matters stated above and other matters mentioned in Annexure - I to this audit give a true and fair view in conformity with the accounting principles generally accepted in India.

- a. In so far as it relates to the Balance Sheet, of the state of affairs of the NIT, Raipur as at 31<sup>st</sup> March 2011 and
- b. In so far as it relates to Income & Expenditure Account of surplus for the year ended on that date.

For and on behalf of the C&AG of India

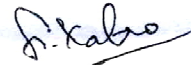
Place: Raipur  
Dated:

  
Accountant General  
(Audit)

**Annexure I**

**A brief note on evaluation of internal control system in the autonomous body:**

It was observed that there is scope for improvement of internal control over preparation of accounts, finalization and adoption. According to accrual basis of accounting, the Institute is lagging behind in year wise bifurcation of fees.



**Sr. Audit Officer/OAD II**

### Grant-in-Aid

(Refer Comment No. E of the SAR)

Project wise details of Receipt and Utilization of Grant-in-Aid during the year is given below:

Sl. No.	Name of the Project for which grants received or General Grants	Amount of Grant brought forward from previous year	Amount of grant received during the year	IRG (2010-11)	Total Grant Received	Amount utilised during the year	Transfer to Corpus fund	Amount unutilized as on 31.03.11	Remarks 1. Target date of the project 2. Audit comment on delay etc.
1	Plan	5.60*	0	0	5.6	5.65	0	0	Nil
2	Non Plan	23.22	5	14.31	42.53	20.17*	15	7.36	Nil
3	OBC	7.38	15	0	22.38	9.51	0	12.87	Nil
	<b>Total</b>	<b>36.2</b>	<b>20</b>	<b>14.31</b>	<b>70.51</b>	<b>35.33</b>	<b>15</b>	<b>20.23</b>	<b>Nil</b>

₹ in crore

\* Revised figures due to change in accounting method (vide: Note to Accounts)

*R. Vala*

Sr. Audit Officer/OAD II

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR			
BALANCE SHEET AS ON 31.03.2011			
SOURCES OF FUNDS	Schedule	As on 31.03.2011	Reinstated figures as on 01.04.2010 (In Rs.)
<b>Corpus/ capital fund and Liability</b>			
CAPITAL/CORPUS FUND	A	150,000,000.00	0.00
RESERVE AND SURPLUS	B	73,620,164.06	219,575,648.00
PROVIDENT/EARMARKED/ENDOWMENT FUND	C	596,009,402.00	444,075,000.00
SECURED LOANS AND BORROWINGS		0.00	0.00
UNSECURED LOANS AND BORROWINGS		0.00	0.00
DEFERRED CREDIT LIABILITIES		0.00	0.00
CURRENT LIABILITIES AND PROVISION	D	69,834,521.89	52,243,581.89
<b>TOTAL</b>		<b>889,464,087.95</b>	<b>715,894,229.89</b>
<b>APPLICATION OF FUNDS</b>			
FIXED ASSETS	E	419,364,884.13	314,295,828.13
INVESTMENT- FROM EARMARKED/ENDOWMENT FUND	F	174,164,819.00	349707680.00
INVESTMENT(OTHERS)	F	150,000,000.00	0.00
CURRENT ASSETS,LOANS ADVANCES ETC	G	145,934,384.82	51,890,721.76
MISC EXPENDITURE (To the extent not written off)		0.00	0.00
<b>TOTAL</b>		<b>889,464,087.95</b>	<b>715,894,229.89</b>
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS		T	

Dy. Registrar (F&amp;A)

Registrar

Director

**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**

**INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD ENDED 31st MARCH,2011**

Particulars	Schedule	For the period ended on 31st March,2011	Reinstated figures as on 01.04.2010
<b>INCOME</b>			
INCOME FROM SALE AND SERVICES	H	9,373,706.00	9,518,575.00
GRANTS/SUBSIDIES		50,000,000.00	137,475,000.00
FEES/SUBSCRIPTION	I	97,775,280.00	67,548,811.00
INCOME FROM INVESTMENTS		0.00	0.00
INCOME FROM ROYALTY PUBLICATIONS		0.00	0.00
INTEREST EARNED	J	22,420,774.00	36,442,880.00
OTHER FEES	K	6,236,702.00	8,869,432.00
OTHER INCOME	L	48,979,354.06	932,376.00
HOSTEL FEES	M	4,329,000.00	4,310,310.00
INCREASE/DECREASE IN STOCK OF FINISHED GOODS AND WORK IN PROGRESS		0.00	0.00
<b>TOTAL(A)</b>		<b>239,114,816.06</b>	<b>265,097,384.00</b>
<b>EXPENDITURE</b>			
ESTABLISHMENT EXPENSES	N	160,084,293.00	151,636,836.00
EXAM/ADMISSION EXPENSES	O	1,316,511.00	3,246,695.00
OTHER ADMINISTRATIVE EXPENSES	P	22,472,961.00	24,259,896.00
EXPENDITURE ON GRANT/SUBSIDIES ETC		0.00	0.00
DEPARTMENTAL OPERATING EXPENSES	Q	2,185,611.00	3,516,684.00
HOSTEL EXPENSES	R	808,092.00	1,569,907.00
ESTATE OFFICE EXPENSES	S	2,183,214.00	4,730,937.00
DEPRICIATION	E	46,019,618.00	0.00
<b>TOTAL(B)</b>		<b>235,070,300.00</b>	<b>188,960,955.00</b>
BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE (A-B)		4,044,516.06	76,136,429.00
TRANSFER TO SPECIAL RESERVE		-	-
TRANSFER TO GENERAL RESERVE		4,044,516.06	76,136,429.00
BALANCE BEING SURPLUS/DEFICIT CARRIED TO CORPUS/CAPITAL FUND		0.00	0.00

CURRENT LIABILITIES AND NOTES TO ACCOUNTS

T

Dy. Registrar (F&A)

Registrar

Director

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

**SCHEDULE- A**

**CORPUS/CAPITAL FUND**

		As on 31.03.2011		Reinstated figures as on 01.04.2010
PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
Balance at the beginning of the year	0.00		0.00	
Add: FD of Engg.college cancelled	0.00		0.00	
Add Contribution towards Corpus/Capital Fund	150,000,000.00		0.00	
Less: Trf to Reserve and surplus	0.00	150,000,000.00	0.00	0.00
Add/deduct Balance of Net Income transferred from Income & Expenditure Account		0.00		0.00
<b>CLOSING BALANCE</b>		<b>150,000,000.00</b>		<b>0.00</b>

**SCHEDULE- B**

**RESERVE AND SURPLUS**

PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
<b>1. Capital Reserve</b>		0.00		0.00
<b>2. General Reserve</b>				
As per last Accounts	219,575,648.00		143,439,219.00	
Addition during the year	4,044,516.06		76,136,429.00	
Trf to Corpus Fund	150,000,000.00	73,620,164.06	0.00	219,575,648.00
<b>TOTAL</b>		<b>73,620,164.06</b>		<b>219,575,648.00</b>

**SCHEDULE- C**

**PROVIDENT/EARMARKED/ENDOWMENT FUND**

PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
(i) Opening Balance of Provident Funds	0.00		0.00	
Addition to funds	47,954,020.00	47,954,020.00	0.00	0.00
(ii) Opening Balance of Plan Funds	55,971,046.87		90,849,603.87	
Add: Grant received/receivable	0.00		0.00	
Less: Utilisation of grant towards Objective of Funds	55,971,046.87	0.00	34,878,557.00	55,971,046.87
(iii) Opening Balance of Plan (OSC) Funds	73,807,685.00		1,807,685.00	
Add: Grant received/Receivable	150,000,000.00		200,000,000.00	
Less: Utilisation of grant towards Objective of Funds	95,117,627.13	128,690,057.87	128,000,000.00	73,807,685.00
Deffered Government Grant		419,365,324.13		314,296,268.13
<b>CLOSING BALANCE</b>		<b>596,009,402.00</b>		<b>444,075,000.00</b>

Dy. Registrar (F&A)

Registrar

**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

**SCHEDULE- D**

**CURRENT LIABILITIES AND PROVISION**

<b>A CURRENT LIABILITIES</b>		<b>As on 31.03.2011</b>		<b>Reinstated figures as on 01.04.2010</b>
<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
<b>Funds</b>				
Fund from erstwhile govt. college	1,395,049.89		1,772,970.89	
Poor student fund	950,195.00		162,695.00	
Amalgamated fund	36,750.00		36,750.00	
Aluminal Fund	0.00		718,750.00	
Balance of Project Fund(Unutilised)	383,054.00		0.00	
Student aid fund	153,950.00		0.00	
NSRE 2010	0.00		248,650.00	
Training Programme CG govt	258,000.00	3,176,998.89	258,000.00	3,197,815.89
<b>Other liabilities</b>				
Net Caution money	4,672,000.00		3,275,783.00	
Autonomous Advance A/c	0.00		67,715.00	
Admission fess refundable	345,505.00		0.00	
TDS payable	553,550.00		2,611,014.00	
Earnest money Deposit with NIT	1,190,775.00		44,411.00	
Security Deposit(Employee)	636,130.00		0.00	
Scholarships to Students	14,031,535.00		20,083,978.00	
Sundry Creditors	715,052.00		0.00	
Sundry Creditors(Capital goods)	6,699,288.00		492,360.00	
Scholarships to Students Section A/C	1,540,618.00		1,540,618.00	
Kores(l) ltd (Warranty Depo)	0.00		14,117.00	
Stream Softech warranty	0.00		12,900.00	
Bal of A/c 30013468813	236.00		236.00	
Bridge loan	14,400.00		2,056.00	
Performance bank Guarantee	157,269.00		0.00	
Fine payable	217,000.00	30,773,358.00	0.00	28,145,188.00
<b>TOTAL A</b>		<b>33,950,356.89</b>		<b>31,343,003.89</b>
<b>B PROVISIONS</b>				
Salary Regular staff Payable	6,046,317.00		5,215,628.00	
PF Payable	315,060.00		340,800.00	
GPF Contribution Payable	21,900.00		0.00	
DPF Contribution payable	4,050.00		15,830.00	
GIS/FBF contribution payable	15,550.00		16,810.00	
NPS Contribution of NITRR payable	328,722.00		2,384,391.00	
NPS Contribution of Employees payable	328,722.00		2,423,144.00	
Salary Contract Staff payable	266,746.00		3,324,220.00	
Admission expenses payable	36,120.00		0.00	
Audit expenses payable	55,647.00		0.00	
Department Technical event payable	16,372.00		0.00	
Department consumable payable	20,836.00		0.00	
Department misc payable	12,925.00		0.00	
Horticulture expenses payable	9,500.00		0.00	
Hostel electricity payable	56,580.00		0.00	

Dy. Registrar (F&A)

Registrar



Hostel maintainance payable	14,560.00		0.00	
Hostel Rent payable	0.00		86,900.00	
Testing and Con remuneration payable	3,817,934.00		2,769,332.00	
Telephone Charges payable	20,327.00		4,045.00	
Travelling & Hotel Expenses payable	13,005.00		90,165.00	
Printing & Stationery payable	310,211.00		9,100.00	
Electricity Expenses payable	730,390.00		770,900.00	
Consultancy and Legal charges payable	0.00		31,500.00	
Function and other activity payable	624,236.00		390,898.00	
Other Meeting Expenses payable	130,828.00		4,842.00	
CPDA Expenses payable	1,267,575.00		403,680.00	
Security Expenses payable	9,288.00		436,376.00	
Fuel Charges payable	9,195.00		8,571.00	
Repairs & Maintenance to Collage Building payable	15,995.00		62,927.00	
Repairs & Maintenance to Vehicle payable	0.00		19,850.00	
Repairs & Maintenance to Electrical payable	0.00		25,150.00	
Admission Fees Refundable	0.00		311,710.00	
Children Education Allowance payable	226,787.00		691,562.00	
LTC Expenses payable	103,536.00		48,500.00	
Medical Grant and Expenses	14,825.00		136,225.00	
Exam Expenses payable	0.00		642,436.00	
Training & Placement payable	30,704.00		19,199.00	
Internet and Website maintainance payable	1,965,000.00		0.00	
Sports exp payable	60,598.00		0.00	
Repair Maint equipment payable	50,436.00		0.00	
Repair Maint Staff qtr payable	21,539.00		0.00	
Computer Consumable & Repairing payable	70,238.00		1,300.00	
Workshop expenses payable	0.00		187,501.00	
Advertisement Expenses payable	0.00		27,086.00	
Leave salary payable	8,250.00		0.00	
Pension Director payable	17,250.00		0.00	
NIT Transit House contribution	150,000.00		0.00	
Provision for Gratuity	12,099,100.00		0.00	
Provision for leave Encashment	6,567,311.00	35,884,165.00	0.00	20,900,578.00
<b>TOTAL B</b>		<b>35,884,165.00</b>		<b>20,900,578.00</b>
<b>TOTAL (A+B)</b>		<b>69,834,521.89</b>		<b>52,243,581.89</b>

Dy. Registrar (F&A)

Registrar

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR							
<u>SCHEDULES FORMING PART OF THE BALANCE SHEET</u>							
Schedule- E :							
(A) Fixed Assets:							
S.No.	Description of assets	Opening as on 01.04.2010	ADDITION DURING THE YEAR	Disposal / Transfer of ASSETS	Depreciation upto 31.03.2010	Depre- ciation for current year	WDV as on 31.03.2011
1	Air Conditioners	1,967,421.00	106,005.00		658,493.00	304,028.00	1,110,905.00
2	Campus development	1,778,190.00	100,000.00		111,292.00	56,721.00	1,710,177.00
3	Computer & Networking	45,495,818.00	3,441,131.00		17,165,125.00	6,036,088.00	25,735,736.00
4	Cooler Purchase	258,976.00	99,283.00		33,087.00	42,893.00	282,279.00
5	Digital Duplicating Machine(RISO)	689,304.00		13,516.00	219,197.00	88,024.00	368,567.00
6	Digital Storage Oscilloscope	960,684.00			61,340.00	122,679.00	776,665.00
7	Washing machine	10,000.00			1,277.00	1,277.00	7,446.00
8	Education and other Software	6,076,390.00	1,916,336.00		1,410,964.00	974,932.00	5,606,830.00
9	Eletrical & Light fitting	3,325,137.00	14,441.00	201,680.00	1,118,163.00	398,865.00	1,620,870.00
11	Equipment & Instruments	12,034,171.00	15,564,850.00		3,387,691.00	2,399,513.00	21,811,817.00
12	Fans	29,640.00	191,458.00		3,210.00	19,250.00	198,638.00
13	Fax Machine	55,160.00			17,786.00	7,044.00	30,330.00
14	Furniture & Fixtures	7,752,302.00	5,416,936.00		2,621,368.00	1,355,658.00	9,192,212.00
15	Gas Pipeline Installation	86,569.00	-		27,637.00	11,055.00	47,877.00
16	Gyser	19,662.00			3,117.00	2,510.00	14,035.00
17	Gym and Sports equipment	575,227.00			181,507.00	73,456.00	320,264.00
18	Infrastruture for traning and placer	695,000.00			399,384.00	88,752.00	206,864.00
19	Laboratory development	2,551,168.00	341,205.00		80,372.00	87,128.00	2,724,873.00
20	Library Books/Journals	8,550,520.00	3,610,045.00		1,263,930.00	690,297.00	10,206,338.00
21	Mobile purchase	32,736.00			4,181.00	4,181.00	24,374.00
22	Motor Cars	3,761,834.13			559,555.00	289,286.00	2,912,993.13
23	Musical Instrument	35,140.00			2,243.00	4,488.00	28,409.00
24	Office equipment	6,590.00	151,917.00		3,789.00	13,032.00	141,686.00
25	Oscilloscopes monochrome model	306,665.00			176,225.00	39,161.00	91,279.00
26	Photocopier Machine	1,904,275.00	88,400.00		631,170.00	254,466.00	1,107,039.00
27	Projector Purchase	1,541,451.00			651,099.00	196,841.00	693,511.00
28	Refridgerator	129,400.00	22,900.00		29,907.00	17,986.00	104,407.00
29	Risograph Machine	28,090.00			7,174.00	3,587.00	17,329.00
30	Spectrum Analyzer	788,962.00			50,375.00	100,750.00	637,837.00
31	Other Misc assets	14,000.00			2,682.00	1,788.00	9,530.00
32	T.V. Purchase	118,060.00			38,470.00	15,077.00	64,513.00
33	UPS	1,005,556.00	140,880.00		123,883.00	144,328.00	878,225.00
34	Voltage Stablizer	81,380.00			8,800.00	10,393.00	62,187.00
35	Water Cooler,purifier and filter	1,402,015.00	74,120.00		549,664.00	184,316.00	742,155.00
36	Writing and other boards	1,234,270.00	23,963.00		216,466.00	159,145.00	882,622.00
	<b>TOTAL</b>	<b>105,301,763.13</b>	<b>31,303,870.00</b>	<b>215,196.00</b>	<b>31,820,623.00</b>	<b>14,198,995.00</b>	<b>90,370,819.13</b>
	<b>(B) Capital Work in Progress</b>	<b>208,994,065.00</b>	<b>120,000,000.00</b>				<b>328,994,065.00</b>
	<b>TOTAL (A+B)</b>	<b>314,295,828.13</b>	<b>151,303,870.00</b>				<b>419,364,884.13</b>

Dy. Registrar (F&A)

Registrar

## SCHEDULE- F

### A. INVESTMENT(FROM EARMARKED/ENDOWMENT FUND)

PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
FDR(GPF)	44,042,911.00		0.00	
FDR With SBI GCET Branch	130,121,908.00		122,708,343.00	
FDR With State Bank of Indore	0.00		33,172,815.00	
FDR with Canara Bank	0.00	174,164,819.00	193,826,522.00	349,707,680.00
<b>TOTAL(A)</b>		<b>174,164,819.00</b>		<b>349,707,680.00</b>

### B. INVESTMENT(OTHERS)

PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
FDR with Canara Bank		150,000,000.00		0.00
<b>TOTAL(B)</b>		<b>150,000,000.00</b>		<b>0.00</b>
<b>TOTAL(A+B)</b>		<b>324,164,819.00</b>		<b>0.00</b>

Dy. Registrar (F&A)

Registrar

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

**SCHEDULE- G**

**LOANS,ADVANCES AND OTHER CURRENT ASSETS**

**A CURRENT ASSETS**

		As on 31.03.2011		Reinstated figures as on 01.04.2010
PARTICULAR		AMOUNT		AMOUNT
<b>CASH BALANCE</b>		5,004.00		4,997.94
<b>BANK BALANCE</b>				
Canara Bank A/C No. 20996	16,041,479.00		5,431,021.00	
Non-Plan (saving) 30054181310	3,366,990.87		14,602,383.87	
State Bank of Indore 63027813713	450,432.00		282,080.00	
SBI Bank A/c 30042955244	13,037,601.00		18,544,971.00	
SBI Bank A/c 10071113698	1,248,039.95		1,211,518.95	
GPF Banl A/c 31255750394	1,876,651.00		0.00	
SBI Bank A/c 30007211525	868,603.00	36,889,796.82	523,374.00	40,595,348.82
<b>TOTAL (A)</b>		<b>36,894,800.82</b>		<b>40,600,346.76</b>

**B) LOANS ADVANCES AND OTHER ASSETS**

PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
Earnest money deposited by NIT	427,360.00		211,680.00	
DPF advances	0.00		17,750.00	
Festival Advances	48,109.00		48,109.00	
G.E.C autonomous account	0.00		450,636.00	
Advance to Staff	2,106,777.00		1,591,063.00	
T A Adhances	25,000.00		25,000.00	
LTC Advances	25,000.00		21,600.00	
Legal Charges Advances	8,000.00		8,000.00	
GPF Advances	45,000.00		0.00	
Bridge Loan	0.00	2,685,246.00	0.00	2,373,838.00
<b>OTHER CURRENT ASSETS</b>				
FDR received from party	402,552.00		0.00	
TDS Receivable	8,758.00		6,000.00	
Service Tax(Cenvat Credit)	775,986.00		683,487.00	
Hostel Rent receivable	22,500.00		0.00	
Misc amount receivable	35,000.00		0.00	
Interest Accrued	2,445,181.00		8,227,050.00	
Admission Fees Receivable	563,850.00		0.00	
Convocation Fees receivable	32,500.00		0.00	
MHRD Grant receivable	100,000,000.00		0.00	
PF amount receiveble	2,068,011.00	106,354,338.00	0.00	8,916,537.00
<b>TOTAL (B)</b>		<b>109,039,584.00</b>		<b>11,290,375.00</b>
<b>TOTAL(A+B)</b>		<b>145,934,384.82</b>		<b>51,890,721.76</b>

Dy. Registrar (F&A)

Registrar

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

**SCHEDULE- H**

**INCOME FROM SALE & SERVICES**

		As on 31.03.2011		Reinstated figures as on 01.04.2010
PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
Prospectus Sale	0.00		1,350.00	
Tendor Form Sale	97,535.00		222,000.00	
Consultency Fee	5,904,823.00		4,185,539.00	
Testing Fee	3,371,348.00	9,373,706.00	5,109,686.00	9,518,575.00
<b>TOTAL</b>		<b>9,373,706.00</b>		<b>9,518,575.00</b>

**SCHEDULE- I**

**FEES/SUBSCRIPTION**

PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
Tuition Fees	86,675,880.00		64,617,742.00	
Alumni fees	0.00		211,000.00	
Identity card Fee	307,900.00		0.00	
Development fees	0.00		1,744,350.00	
late fees	0.00		39,119.00	
Prospectus fee	0.00		4,900.00	
Magazine fees	307,900.00		14,700.00	
Enrollment Fee	0.00		84,300.00	
Institute Fee	0.00		800,850.00	
Registration Fee	769,750.00		0.00	
Sports fees	769,750.00		17,150.00	
Computer maintainance fee	923,700.00		0.00	
LibraryFees	1,539,500.00		0.00	
Stationery fees	0.00		8,820.00	
Main Exam Fees(Acadamic year)	5,711,150.00		0.00	
Training & placement fees	769,750.00	97,775,280.00	5,880.00	67,548,811.00
<b>TOTAL</b>		<b>97,775,280.00</b>		<b>67,548,811.00</b>

**SCHEDULE- J**

**INTEREST RECEIVED**

PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
Interest on FDR	19,239,680.00		34,208,020.00	
Interest on Savings	2,631,853.00		380,074.00	
Bank charges refund by bank	17,000.00		22,396.00	
TDS on Fixed deposit refunded	532,241.00	22,420,774.00	1,832,390.00	36,442,880.00
<b>TOTAL</b>		<b>22,420,774.00</b>		<b>36,442,880.00</b>

Dy. Registrar (F&A)

Registrar

**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

**SCHEDULE- K**

**OTHER FEES**

		As on 31.03.2011		Reinstated figures as on 01.04.2010
<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
Exam Fees	1,843,794.00		8,333,543.00	
MCA Registration fees	0.00		0.00	
Library Fees DFCR	0.00		14,700.00	
Misc Fees DFCR	212,770.00		147,329.00	
Recruitment Fees	1,448,258.00		31,600.00	
Application and Registration Fee	207,800.00		93,500.00	
Exam Conduct received	0.00		120,580.00	
Phd fees	409,310.00		0.00	
Late Fees	166,076.00		128,180.00	
DASA Fees	33,194.00		0.00	
Convocation Fee	1,915,500.00	6,236,702.00	0.00	8,869,432.00
<b>TOTAL</b>		<b>6,236,702.00</b>		<b>8,869,432.00</b>

**SCHEDULE- L**

**OTHER INCOME**

<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
Electric & water charges received	431,802.00		117,805.00	
Donation received	120,000.00		0.00	
House and other rent	215,753.00		86,115.00	
Information rights	1,926.00		3,833.00	
Misc received	207,690.06		55,530.00	
Sponsorship	400,000.00		0.00	
Photocopy library received	0.00		2,541.00	
Fine Received	1,106,896.00		56,608.00	
NIMCET 09	0.00		100,000.00	
Guest house charges	17,400.00		9,000.00	
Income tax Refund	5,870.00		0.00	
Science and Technology received	0.00		187,864.00	
Expenses reimbursed from Testing/Consultancy	70,192.00		56,290.00	
Project account	79,227.00		0.00	
Other Admission Fees deduction	302,980.00		0.00	
Deferred Income charged on account of Depreciation	46,019,618.00		0.00	
Interest on Advances	0.00	48,979,354.06	256,790.00	932,376.00
<b>TOTAL</b>		<b>48,979,354.06</b>		<b>932,376.00</b>

**SCHEDULE- M**

**HOSTEL FEES**

<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
Hostel (Non campus) Rent received	0.00		652,810.00	
Hostel Rent and Electricity Charges received	4,329,000.00		3,499,500.00	
Hostel room Rent	0.00	4,329,000.00	158,000.00	4,310,310.00
<b>TOTAL</b>		<b>4,329,000.00</b>		<b>4,310,310.00</b>

Dy. Registrar (F&A)

Registrar

**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

**SCHEDULE- N**

**ESTABLISHMENT EXPENSES**

		As on 31.03.2011		Reinstated figures as on 01.04.2010
<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
Contract Salary and Daily wages		42,617,867.00		27,458,250.00
Paid to Part time & contract lecturers		47,272.00		91,990.00
Salary-regular staff		83,083,453.00		56,269,142.00
DA Arrears		1,060,145.00		1,433,088.00
Pay Arrears		5,009,103.00		31,221,341.00
Children education allowance		869,350.00		1,177,838.00
GPF/GIS Director salary		0.00		54,180.00
Director Leave salary remittance		107,250.00		74,250.00
Director Pension remittance		224,250.00		138,000.00
Leave Salary		0.00		21,595.00
LTC expenses		720,633.00		885,047.00
Contribution to (CG GPF)		0.00		3,449,651.00
DPF		0.00		190,270.00
FBF		0.00		360.00
GIS		0.00		224,410.00
Daily Wages		0.00		838,603.00
Honorarium(Dean)		0.00		140,670.00
Income tax on salary		0.00		15,774,134.00
Pension and Gratuity		1,546,365.00		6,403,286.00
Telephone facility to staff		10,551.00		322,488.00
NPS Contribution by NIT		2,269,816.00		2,384,391.00
NPS Contribution of Employee		0.00		2,423,144.00
Leave Encashment		398,339.00		0.00
CPDA expenses		3,453,488.00		403,680.00
Gratuity for employees		12,099,100.00		0.00
Leave for employee		6,567,311.00		0.00
Embezzlement in salary(W/o)		0.00		257,028.00
<b>TOTAL</b>		<b>160,084,293.00</b>		<b>151,636,836.00</b>

**SCHEDULE- O**

**EXAM/ADMISSION EXPENSES**

<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
AICTE and other exam remuneration to staff	228,039.00		840,211.00	
CSV TU Exam Remuneration	766,168.00		524,108.00	
Exam fees to RSU	0.00		161,897.00	
Exam expenses of RSU	0.00		25,000.00	
Exam department Expenses	200,770.00		368,419.00	
Exam revaluation remuneration	0.00		876,880.00	
Exam conduct payments	0.00		99,880.00	
Admission expenses	121,534.00		0.00	
Admission Fees Refund	0.00		311,710.00	
NIMCET 09 expenses	0.00	1,316,511.00	38,590.00	3,246,695.00
<b>TOTAL</b>		<b>1,316,511.00</b>		<b>3,246,695.00</b>

Dy. Registrar (F&A)

Registrar

**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

**SCHEDULE- P**

**ADMINISTRATIVE EXPENSES**

		<b>As on 31.03.2011</b>		<b>Reinstated figures as on 01.04.2010</b>
<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
Testing and Consultancy Remuneration & expenses		3,155,002.00		5,762,448.00
Conveyence expenses		1,155.00		2,660.00
Service Tax		0.00		965,506.00
Income tax on Testing/Consultancy Remunetariion		0.00		821,560.00
Bank Charges		25,815.00		34,609.00
NIT Transit house contribution		150,000.00		150,000.00
Prize Money		200,000.00		10,000.00
Training & placement expenses		297,222.00		231,758.00
BOG/Finance/HODs/Deans/ etc meeting expenses		497,191.00		118,644.00
E-TDS return filling charges		0.00		7,393.00
Functions & activities expenses		1,279,602.00		862,992.00
Other Meeting and Conference expenses		395,226.00		244,783.00
Advertisement		285,816.00		1,298,797.00
Aluminai Expenses		0.00		718,750.00
Audit expenses		57,897.00		83,283.00
Interest on TDS		22,595.00		0.00
Internet charges and Web maintainance		1,977,135.00		1,266,604.00
Inter NIT sports expenses		0.00		149,892.00
Consultancy and Legal Expenses		576,899.00		162,580.00
Miscellaneous expenses		30,607.00		49,092.00
Postage & stamp Expenses		120,386.00		80,000.00
Printing & Stationery charges		1,177,622.00		815,789.00
Travelling and Hotel expenses		549,164.00		581,932.00
Recruitment expenses		40,709.00		128,224.00
TDS 0809		102,442.00		0.00
Library Expenses		52,653.00		86,375.00
Medical grant & expenses		253,498.00		537,796.00
Indian Coffee house expenses		117,011.00		0.00
Water, Electricity & Telephone charges		8,334,808.00		8,218,546.00
Convocation expenses		1,880,334.00		0.00
Ground maintainance		0.00		67,985.00
Student Activity		0.00		232,416.00
Fuel charges		129,781.00		118,266.00
Vehicle Repairs and Maintainance		86,699.00		93,040.00
Insurance charges		75,424.00		90,831.00
Sports,Yoga and other activity		173,646.00		110,111.00
Translation expenses		0.00		20,650.00
Registration fee		0.00		28,550.00
Refreshment expenses		0.00		3,888.00
Professional fees		0.00		50,800.00
Extra amount debited by bank		0.00		17,000.00
Office upkeep expenses		147,655.00		9,346.00
Statutory expenses		9,369.00		0.00
Honorarium		209,000.00		27,000.00
<b>TOTAL</b>		<b>22,472,961.00</b>		<b>24,259,896.00</b>

Dy. Registrar (F&A)

Registrar



**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

**SCHEDULE- Q**

**DEPARTMENTAL OPERATING EXPENSES**

		As on 31.03.2011		Reinstated figures as on 01.04.2010
<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
Computer consumable expenses	724,263.00		679,222.00	
Computer repair and maintainance	0.00		80,190.00	
AC repair and maintainance	0.00		59,564.00	
Lab Consumable	0.00		150,938.00	
Seminar & conference expenses	0.00		241,988.00	
Architecture Council Fees	0.00		26,028.00	
Department Misc Expenses	230,309.00		71,500.00	
Department maintainance expenses	0.00		60,138.00	
Department/lab consumable expenses	471,728.00		153,262.00	
Workshop expenses	14,893.00		296,519.00	
Guest lectures	0.00		5,718.00	
Training programme	0.00		36,034.00	
Photocopy machine repair	0.00		143,680.00	
Project work expenses	0.00		19,953.00	
Repair and maintainance furniture	0.00		28,402.00	
Repair and maintainance instrument/equipments	489,748.00		136,508.00	
Research expenses to faculty	0.00		6,361.00	
Short term course expenses	0.00		113,520.00	
deparmental Technical events	120,948.00		17,883.00	
Department stationary expenses	133,722.00		0.00	
Laptop Reimbursement expenses	0.00	2,185,611.00	1,189,276.00	3,516,684.00
		<b>2,185,611.00</b>		<b>3,516,684.00</b>

**SCHEDULE- R**

**HOSTEL EXPENSES**

<b>PARTICULAR</b>		<b>AMOUNT(IN RS)</b>		<b>AMOUNT(IN RS)</b>
Hostel electric	456,250.00		538,146.00	
Hostel Maintanance	82,302.00		0.00	
Hostel Rent	252,010.00		1,031,761.00	
Hostel Telephone	17,530.00	808,092.00	0.00	1,569,907.00
<b>TOTAL</b>		<b>808,092.00</b>		<b>1,569,907.00</b>

Dy. Registrar (F&A)

Registrar

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

**SCHEDULES FORMING PART OF THE BALANCE SHEET**

SCHEDULE- S

**ESTATE OFFICE EXPENSES (Maintenance Expenses)**

		As on 31.03.2011		Reinstated figures as on 01.04.2010
PARTICULAR		AMOUNT(IN RS)		AMOUNT(IN RS)
Estate maintainance and labour charges	0.00		45,683.00	
Guest house expenses	46,545.00		0.00	
Gardning & Horticulture	25,916.00		96,420.00	
Other Maintainance expenses	0.00		81,524.00	
Electrical maintainance	211,344.00		422,387.00	
Repair & Maintenance to College Building	980,901.00		662,436.00	
Repair & Maintenance to Hostel Building	305,689.00		434,032.00	
Repair & Maintenance to Staff Quarters	547,010.00		520,778.00	
Security service expenses	9,288.00		2,429,195.00	
Sanitary/cleaning Expenses	<u>56,521.00</u>	2,183,214.00	<u>38,482.00</u>	4,730,937.00
<b>TOTAL</b>		<b>2,183,214.00</b>		<b>4,730,937.00</b>

Dy. Registrar (F&A)

Registrar

## **NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**

### **SCHEDULE – “T”**

#### **SIGNIFICANT ACCOUNTING POLICIES AND NOTES TO ACCOUNTS :**

##### **A. INSTITUTE OVERVIEW:**

The National institute of Technology, Raipur is established by an Act of Parliament called “The National Institute of Technology Act 2007” as Institute of National Importance, having status of deemed University to provide for instruction and research in branches of Engineering, Science and Technology and is fully funded by the Government of India, Ministry of Human Resource Development. The Institute prepares its Annual Accounts as per the Common format provided by the Government of India.

##### **B. SIGNIFICANT ACCOUNTING POLICIES:**

###### **1. BASIS OF ACCOUNTING**

The Institute is governed by NIT act 2007. As per Government of India D.O. No. CDN/MF-CGA/98/99 DT 31.08.2000 the accounts of the Institute is prepared in Common accounting format applicable to all Central autonomous bodies. The accounts of the Institute are prepared under Historical Cost convention and in accordance with applicable accounting standards, except where otherwise stated. For recognition of Income & Expenditure accrual basis of accounting is followed. Cash basis of Accounting was being followed by the Institute up to financial year 2009-10. From financial year 2010-11 onwards Accrual system of Accounting is applied.

###### **2. USE OF ESTIMATES:**

The preparation of financial statements requires estimates and assumptions to be made that affect the reported amount of assets and liabilities on the date of the financial statements and the reported amount of revenues & expenses during the reported period. Difference between the actual results and the estimates are recognized in the period in which the results are known / materialized.

### **3. REVENUE RECOGNITION:**

Mercantile method of accounting is employed unless otherwise specifically stated. However, where the amount is immaterial /negligible and/or establishment of accrual/ determination of amount are not possible, no entries are made for the accrual. Following Major recognitions are there-

- (a) Misc. Fees received, rent received, recoveries against electricity and water, settlement of advance etc are accounted through Daily Fees Register. (i.e. DFR) and the DFR is accounted for on daily basis.
- (b) Interest on Deposits is accounted for on accrual basis.
- (c) Grants received for Capital and Revenue purposes are recognized on accrual basis of accounting.
- (d) Student Admission Fees is accounted for on the basis of No. of students.
- (e) All other revenues are recognized on the basis of accrual system of accounting.

### **4. FIXED ASSETS**

- i) Fixed Assets are stated at cost of acquisition inclusive of inward freight, duties and taxes and incidental and direct expenses related to acquisition. All material related cost, labour or contractor charges payable to outsider for work by them in respect of capital jobs are included in the cost of concerned capital assets.
- ii) In respect of projects involving construction, related pre-operational expenses (including interest on loans for specific project prior to its completion), and form part of the cost of the assets capitalized.
- iii) Fixed Assets received by way of non-monetary grants (other than towards the Corpus Fund), are capitalized at values stated, by corresponding credit to Capital Reserve.
- iv) All capital expenditure is accounted for through capital work-in-progress accounts. On commissioning of the assets, the expenditure is transferred to appropriate fixed assets accounts.

## **5. DEPRECIATION**

- i) Cash basis of Accounting was being followed by the Institute up to financial year 2009-10. From financial year 2010-11 onwards mercantile system of Accounting is applied. Necessary adjustments and changes in accounts are incorporated to reflect the change. Details of which w.r.t. depreciation are given in Notes to accounts (2).
- ii) The Govt. of India has recently directed that the Annual Accounts shall be presented in the modified format applicable to “Central Autonomous Bodies (Non-profit organizations and similar Institutions)”. As per this format depreciation is required to be charged on fixed assets on SLM method as prescribed in Income tax act. .At the time of publication of this format IT act prescribe SLM and WDV method for charging of depreciation, but amended IT act thereafter discontinued charging of depreciation on SLM method except for the power generation company, Henceforth in the absence of any specific direction depreciation is charged on the basis of SLM method as per the rate prescribed for the power generation company under the Income Tax act.

## **6. GOVERNMENT GRANTS/SUBSIDIES**

- i) Government grants of the nature of contribution towards capital cost of setting up projects are treated as Capital Reserve.
- ii) Grants in respect of specific fixed assets acquired are shown as a deduction from the cost of the related assets.
- iii) Grants Relatable to depreciable fixed Assets are treated as deferred income and recognized in the Income and Expenditure account over the useful life of such assets i.e. such grants are allocated to income over the periods and in the proportions in which depreciation is charged. Accounting for cost of a capital asset is done in the normal course without considering any contribution, subsidy or grants towards the cost of the asset. Depreciation are been charged in the normal course on the ‘full cost’ of the asset.
- iv) Grants relatable to Non depreciable Assets are treated as "Capital Reserve".

## **7. INVESTMENTS**

- i) Long Term Investments are stated at cost including directly attributable cost. A provision for diminution in the value of long term investments is made only if such is other than temporary, in the opinion of Management.
- ii) The surplus money of the Institute is invested in the fixed deposits in the nationalized banks, keeping in view the directives from the Finance Committee of the Institute and the guidelines provided by the Govt. of India, Ministry of Human Resource Development on the subject.
- iii) Current Investments are stated at lower of cost and fair value.

## **8. INVENTORY**

Items of inventories are measured at cost. Cost comprises of all cost of purchase, cost of conversion and other costs incurred in bringing the inventories to their present location and condition.

Cost of Consumables are charged to income and expenditure account as when purchased, as the total expenditure on Consumables comprises of very minor share i.e. less than 1% of total expenses.

## **9. CONTINGENT LIABILITIES:**

Liabilities which are material and whose future outcome cannot be reasonably ascertained are treated as contingent and not provided for and disclosed by way of notes to the accounts.

## **10. EMPLOYEES RETIREMENT BENEFIT**

- i) Liability towards gratuity payable on death/retirement of employees is accrued based on valuation. The valuation has been done in respect of those persons who have become entitled for the same.

- ii) Provision for accumulated leave encashment benefit to the employees is accrued and computed on the assumption that employees are entitled to receive the benefit as at each year end.
- iii) Short term and other long term employee benefits are recognized as an expense at the undiscounted amount in profit and loss account of the year in which the related service is rendered.

## **11. PROVISIONS**

Provisions are recognized, where the Institute has any legal or constructive obligation or where reliable estimate can be made for the amount of the obligation and as a result of past events, for which it is probable that an outflow of economic benefits will be required to settle the obligation at the balance sheet date. These are reviewed at each balance sheet date and adjusted to reflect the current best estimates.

## **12. FOREIGN CURRENCY TRANSACTIONS**

Foreign currency transactions are recorded in the reporting currency, by applying to the foreign currency amount the exchange rate between the reporting currency and the foreign currency at the date of transaction.

## **13. CASH AND CASH EQUIVALENT**

Cash and Cash equivalents in the balance sheet comprise cash at bank and in hand.

# **C. NOTES TO THE ACCOUNTS**

## **1. BALANCE FUND OF GOVERNMENT ENGG COLLEGE:**

As per Government of India, Notification No. F.20-5/2004-TS.III Dt 29/11/2005 all Liabilities of the Institute up to 30.11.2005 will be borne by Chhattisgarh government. However the Notification is silent regarding transfer of Assets of Govt. Engg. College to National Institute of Technology Raipur.

The list of fixed assets as well as liabilities of the Institute is not prepared as on 01.12.2005, Hence not reflected in the Balance sheet of National Institute of Technology Raipur.

The current assets of the Govt. Engg. college in the form of Bank balances, Loans and Advances etc. are reflected in the books of Accounts of National Institute of Technology Raipur under the head "Fund from Erstwhile Govt. Engg. College" in Schedule "D" **CURRENT LIABILITIES AND PROVISION** amounted to Rs 1395949.89.

## **2. EFFECT OF CHANGE IN ACCOUNTING POLICIES**

As per AS-1 any change in Accounting Policy which has a material effect in current period, the amount by which any item in the financial statements is effected by such change, is required to be disclosed to the extent ascertainable.

Cash basis of Accounting was being followed by the Institute up to financial year 2009-10. From financial year 2010-11 onwards Mercantile system of Accounting is applied. Because of change in Accounting policy from cash basis to Mercantile following changes occurred which has a material effect over the Financial statements-



**I. CHANGES EFFECTING ITEMS OF INCOME AND EXPENDITURE ACCOUNT**

PARTICULARS	FIGURES AS PER FINACIAL STATEMENT ON 31.03.2010	FIGURES REINSTATED IN FINACIAL STATEMENT AS ON 01.04.2010	DIFFERENTIAL
	(A)	(B)	(B-A)
<b><u>INCREASE IN EXPENDITURE</u></b>			
Salary Regular staff	51,053,514.00	56,269,142.00	5215628.00
GPF Contribution	3,108,851.00	3,449,651.00	340800.00
DPF Contribution	174,440.00	190,270.00	15830.00
GIS/FBF Contribution	207,600.00	224,410.00	16810.00
NPS Contribution of NITRR	-	2,384,391.00	2384391.00
NPS Contribution of Employees	-	2,423,144.00	2423144.00
Salary Contract Staff	24,134,030.00	27,458,250.00	3324220.00
Testing and Con remuneration	1,933,613.00	4,702,945.00	2769332.00
Water electricity and Telephone charges	7,443,601.00	8,218,546.00	774945.00
TA & Hotel Expenses	491,767.00	581,932.00	90165.00
Printing & Stationery	806,689.00	815,789.00	9100.00
Consultancy and Legal charges	131,080.00	162,580.00	31500.00
Function and other activity	472,094.00	862,992.00	390898.00
Other Meeting and Conference expenses	239,941.00	244,783.00	4842.00
CPDA Expenses	-	403,680.00	403680.00
Security Expenses	1,992,819.00	2,429,195.00	436376.00
Fuel Charges	109,695.00	118,266.00	8571.00
Repairs & Maintenance to Collage Building	599,509.00	662,436.00	62927.00
Repairs & Maintenance to Vehicle	73,190.00	93,040.00	19850.00
Hostel Rent	944,861.00	1,031,761.00	86900.00
Repairs & Maintenance to Electrical	397,237.00	422,387.00	25150.00
Admission Fees Refund	-	311,710.00	311710.00
Children Education Allowance	486,276.00	1,177,838.00	691562.00
LTC Expenses	836,547.00	885,047.00	48500.00
Medical grant and expenses	401,571.00	537,796.00	136225.00
AICTE and other exam remuneration to staff	197,775.00	840,211.00	642436.00
Training & Placement	212,559.00	231,758.00	19199.00
Computer Consumable & Repairing Expenses	677,922.00	679,222.00	1300.00
Workshop expenses	109,018.00	296,519.00	187501.00
Advertisement Expenses	1,271,711.00	1,298,797.00	27086.00
Less:			
<b><u>INCREASE IN INCOME</u></b>			
Accrued Interest	-	8,227,050.00	8227050.00
<b>NET INCREASE IN EXPENDITURE/DECREASE IN SURPLUS</b>			<b>12,673,528.00</b>

**Corresponding effect in the Reserve and Surplus account**

PARTICULARS	FIGURES AS PER FINACIAL STATEMENT ON 31.03.2010	FIGURES REINSTATED IN FINACIAL STATEMENT AS ON 01.04.2010	DECREASE IN RESERVE
	(A)	(B)	(B-A)
General Reserve	219,575,648.00	206,902,120.00	12,673,528.00
	219,575,648.00	206,902,120.00	12,673,528.00

An Increase in Expenditure/Decrease in Surplus by an amount of Rs 12,673,528.00 caused for decrease in the balance of General reserve by an amount of Rs 12,673,528.00 as well as increase in outstanding liability in the Schedule D "Current Liability and Provision" by the same amount .

## **II. CHANGES EFFECTING BALANCE SHEET**

PARTICULARS	FIGURES AS PER FINACIAL STATEMENT ON 31.03.2010	FIGURES REINSTATED IN FINACIAL STATEMENT AS ON 01.04.2010	INCREASE IN ASSETS
	(A)	(B)	(B-A)
<b><u>Increase in Assets</u></b>			
Cooler	253,162.00	258,976.00	5814.00
Library Books/Journals	8,466,443.00	8,550,520.00	84077.00
Water Purifier	1,387,635.00	1,402,015.00	14380.00
Equipment and Instrument	11790010.00	12,034,171.00	244161.00
Furniture	7737567.00	7,752,302.00	14735.00
Computer Software and Networking	45378675.00	45,495,818.00	117143.00
UPS	993506.00	1,005,556.00	12050.00
	76,006,998	76,499,358	492,360

## **CORRESPONDING EFFECT IN LIABILITY SIDE**

PARTICULARS	FIGURES AS PER FINACIAL STATEMENT ON 31.03.2010	FIGURES REINSTATED IN FINACIAL STATEMENT AS	INCREASE IN LIABILITY
	(A)	(B)	(B-A)
Sundry Creditors(For Capital goods)	0.00	492360.00	492360.00
	-	492,360	492,360

An Increase in Assets by an amount of Rs 492,360.00 increase in outstanding liability i.e. Sundry Creditors (Capital goods) in the Schedule D "Current Liability and Provision" by the same amount .

## **3. TAXATION**

In view of there being no taxable income under Income-tax Act 1961, no provision for Income tax has been considered necessary.

#### 4. DEPRICIATION ON FIXED ASSETS IN LAST FIVE YEARS:

Depreciation on Fixed Asset has not been charged in last 5-6 years i.e. starting from the date of conversion of Govt. Engg College to NIT Raipur. Depreciation on Fixed Assets purchased from 01.12.2005 upto 2010-11 has been calculated as prescribed in common format of Accounting and charged to Income and Expenditure account. The same amount is recognized in Income and expenditure account in Schedule L under the head "**Other Income**" by corresponding debit to Deferred Government Grant.

PARTICULARS	DEPRICIATION FROM 01.12.2005 TO 31.03.2010	DEPRICIATION FROM 01.04.2010 TO 31.03.2011	TOTAL DEPRICIATION
	(A)	(B)	(A+B)
DEPRICIATION	31,820,623.00	14,198,995.00	46,019,618.00
	31,820,623.00	14,198,995.00	46,019,618.00

The value of Fixed Assets decreased by Rs 46,019,618.00 and Deferred Government Grant reduced by the same amount in Balance sheet.

#### 5. GPF (CORPUS) - SCHEDULE C

- i) The Institute has received Rs 44460940.00 (Rupees Four Crore forty four lakh sixty thousand and nine hundred forty) as a corpus of GPF amount deposited with Accountant General in respect of those employees who have opted for the NIT service.
- ii) The GPF corpus fund is invested in Fixed deposits till the statutory formalities are not completed.

#### 6. SCHEDULE E FIXED ASSETS

Correction entry passed for an amount of Rs.13560/- and 201680/-. Since the same has been booked under inappropriate head now rectified.

## 7. CAUTION MONEY

An amount of Rs 11,717.00 children education allowance was booked in Caution Money erroneously in 2009-10. Hence correction entry passed this year to restate the correct balances in the corresponding ledger.

## 8. RETIREMENT BENEFITS

The Disclosures with respect to Accounting Standard (AS -15) (Revised 2005) “Employee Benefits” are as under-

### 1. Defined Contribution Plans

Following amount has been recognized in Profit & Loss Account

PARTICULARS	As on 31.03.2011	As on 31.03.2010
Employers Contribution to New Pension Scheme	4,654,207.00	0.00

### 2. Defined Benefit Plan

- a) Provision for Gratuity is made on the basis of  $\frac{1}{4}$  of the emolument (Pay) last drawn for each completed six monthly period of qualifying service subject to a maximum of  $16\frac{1}{2}$  times of the last emolument drawn and restricted to a maximum limit of Rs.10,00,000=00 {applicable from 01.01.2006. Dearness Allowance is included in ‘emoluments’ for determining the amount of Retirement /Death Gratuity as per rule.
- b) Provision for Leave is made as below:-

Pay as on 31.03.2011+(D.A ) \* Earned leave/Half pay leave balance as on 31.03.2011

30

## 9. FIXED ASSETS MANAGEMENT WORK

As per Government of India, Notification No. F.20-5/2004-TS.III Dated 29/11/2005 the erstwhile Govt. Engg. College upgraded as National Institute of Technology Raipur w.e.f. 01.12.2005.

The list of fixed assets as well as liabilities of the Institute was not prepared as on 01.12.2005. Hence the Balance sheet of National Institute of Technology Raipur reflects the Assets purchased after 01.12.2005 only.

However the work of preparation of Fixed Asset Register purchased prior to conversion is in process and will be incorporated in the Balance sheet in future year.

- 10** Corresponding figures for the previous year have been regrouped/rearranged, wherever necessary.
- 11** In the opinion of management there is no such events occurred after the date of balance sheet of material value which needs disclosure in the accounts.
- 12** Schedules A to T are annexed to and fro an integral part of the Balance Sheet as at 31.03.2011 and the Income and Expenditure account for the year ended on that date.