

INTRODUCTION

1.1 VISION

“TO BE A LEADER IN TECHNICAL AND MANAGEMENT EDUCATION IN INDIA AND TO ESTABLISH A UNIQUE IDENTITY FOR THE DEVELOPMENT OF HIGH QUALITY HUMAN AND KNOWLEDGE RESOURCE IN DIVERSE AREA OF TECHNOLOGY AND MANAGEMENT”

1.2 MISSION

“TO RE-ENGINEER THE ENGINEERING EDUCATION AND TO MOULD YOUNG STUDENTS INTO RATIONAL THINKING ENGINEERS WHO ARE MOTIVATED BY A PASSION FOR PROFESSIONAL EXCELLENCE DRIVEN BY HUMAN VALUES AND PROACTIVELY ENGAGED IN BETTERMENT OF SOCIETY.”

1.3 OBJECTIVES

- *CREATING AN ENVIRONMENT TO MAKE TEACHING MORE LEARNING CENTRIC RATHER THAN CURRICULUM CENTRIC.*
- *TO ATTRACT AND RETAIN HIGHLY QUALIFIED, TALENTED, MOTIVATED STAFF.*
- *TO FOCUS NOT ONLY ON QUALITY EDUCATION BUT ON TOTAL QUALITY MANAGEMENT OF NIT RAIPUR.*
- *TO PROVIDE GOOD ACADEMIC SUPPORT FACILITIES (LAB, LIBRARY, INTERNET) ON CONTINUOUS BASIS.*
- *TO DEVELOP INDUSTRY INSTITUTE INTERFACE FOR COLLABORATIVE RESEARCH, INTERNSHIP AND FELLOWSHIP FOR PG PROGRAM.*

1.4 Historical Background

National Institute of Technology, Raipur, (Formerly 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 14th Sept. 1956 and subsequently inaugurated by our first Prime Minister Hon'ble Pt. Jawaharlal Nehru, the Institute started with two Departments; 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. 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

1.5 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 girls', residential quarters for teaching and non-teaching staff, canteen, bank, and 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.

2. BOG AND OTHER COMMITTEES

2.1 Board of Governors

1	Shri Sudhir Vasudeva CMD, Oil and Natural Gas Corporation Ltd (ONGC)	Chairman
2	Dr. Sudarshan Tiwari Director, NIT Raipur	Member
3	Sp. Secretary/ Add. Secretary / Joint Secretary Ministry of Human Resource Development, Department of Higher Education, New Delhi	Member
4	Financial Adviser, DHE Ministry of Human Resource Development, Department of Higher Education, New Delhi	Member
5	Prof.(Mrs.) Krishna Pramanik Professor, Department of Biotechnology & Biomedical Engineering, NIT Rourkela	Member
6	Dr. C.M.Agarwal Retd.Professor Department of Mechanical Engineering MANIT – Bhopal	Member
7	Shri Kamal Sarda CMD, Sarda Energy & Minerals Ltd. Industrial Growth Center, Phase-I Siltara, Raipur	Member Nominee of Govt. of Chhattisgarh.
8	Shri A K Sharma Retd. Chief Engineer(EC), Raipur	Member Nominee of Govt. of Chhattisgarh
9	Dr. A.S. Thoke Professor & Head, Department of Electrical Engineering, NIT Raipur	Member (From 06/09/2013)
10	Dr. Naresh Kumar Nagwani Head, Department of Computer Science & Engineering, NIT Raipur	Member (From 06/09/2013)
11	Dr. A M Rawani Dean (Academic) & Professor Department of Mechanical Engineering, NIT –Raipur	Member (Till 05/09/2013)
12	Dr. S Sanyal Professor & Head Department of Mechanical Engineering, NIT - Raipur	Member (Till 05/09/2013)
13	Dr. Ravindra Sharma (till 16-12-2014)	Secretary

	Registrar, NIT Raipur Prof. P. Y. Dhekne (from 16-12-2014 to till date) Registrar, NIT Raipur	
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2.2 Finance Committee

1	Shri Sudhir Vasudeva CMD, Oil and Natural Gas Corporation Ltd (ONGC)	Chairman
2	Dr. Sudarshan Tiwari Director, NIT Raipur	Member
3	Financial Adviser Ministry of Human Resource Development, Department of Higher Education, New Delhi	Member
4	Dr. C M Agarwal Retd. Professor, Department of Mechanical Engineering, MANIT - Bhopal	Member
5	Dr. A.S. Thoke Professor & Head, Department of Electrical Engineering, NIT Raipur	Member (From 06/09/2013)
6	Dr. A M Rawani Dean (Academic) & Professor Department of Mechanical Engineering, NIT -Raipur	Member (Till 05/09/2013)
7	Dr. Ravindra Sharma Registrar, NIT Raipur	Member Secretary

2.3 The Senate

1	Dr. Sudarshan Tiwari	Director, NIT Raipur	Chairman
2	Dr. (Ms) R R Bhargava	Professor, Dept of Mathematics, IIT Roorkee	Member (From 11/7/13)
3	Dr. R. P. Singh	Professor, Deptt of E&TC Engg. MNNIT, Bhopal	Member (From 11/7/13)
4	Dr. V. Upadhaya	Professor, Dept. of Humanities, IIT Delhi	Member (From 11/7/13)
5	Dr Shrish Verma	Dean (Faculty Welfare) & Professor(I/c) Examinations	Member
6	Shri A. P Rajimwale	Dean (Students Welfare)	Member
7	Dr. G D Ramtekkar	Dean (Planning & Development)	Member
8	Dr. A M Rawani	Dean (Academics)	Member
9	Dr. S Sanyal	Dean (Research & Consultancy)	Member
10	Dr Prabhat Diwan	Head, Deptt of Applied Geology	Member
11	Dr. Abir Bandyopadhyay	Head, Deptt of Architecture	Member
12	Shri A. K. Poonia	Head, Deptt of Biotech. and Biomedical	Member

13	Dr. R. K. Tripathi	Head, Deptt of Civil Engineering	Member
14	Dr. M K Verma	Professor, Deptt of Civil Engineering	Member
15	Dr. U. K. Dewangan	Professor, Deptt of Civil Engineering	Member
16	Dr. Samir Bajpai	Professor, Deptt of Civil Engineering	Member
17	Dr. (Mrs) A.B. Soni	Head, Deptt. of Chemical Engineering	Member
18	Dr. (Mrs.) F. Khan	Head, Deptt of Chemistry	Member
19	Shri N K Nagwani	Head, Deptt of Computer Science and Engineering	Member (From 9/9/13)
20	Dr. A.S. Thoke	Head, Deptt. Of Electrical Engg.	Member
21	Shri. B. Acharya	Head, Deptt of Electronics and Telecommunication Engg.	Member
22	Dr Sudhakar Pandey	Head, Deptt of Information Technology	Member
23	Dr. S P S Matharu	Head, Deptt of Humanities	Member
24	Dr. Rahul Salhotra	Head, Deptt of Mechanical Engineering	Member
25	Dr. S. L. Sinha	Professor, Deptt of Mechanical Engineering	Member
26	Dr. Anil Kumar Tiwari	Professor, Deptt of Mechanical Engineering	Member
27	Dr. S. D. Patle	Professor, Deptt of Mechanical Engineering	Member
28	Dr. M K Manoj	Head, Deptt of Metallurgical Engineering	Member (From 14/08/2014)
29	Shri M.D.Patel	Head, Deptt of Mining Engineering	Member (From 9/9/13)
30	Shri H Bikrol	Head, Deptt of Computer Applications	Member (From 9/9/13)
31	Dr Arvind Kumar Sinha	Head, Deptt. of Mathematics	Member (From 9/9/13)
32	Dr. R. P Pathak	Professor, Deptt. of Mathematics	Member
33	Dr. (Mrs.) S. Agrawal	Head, Deptt. of Physics	Member
34	Dr. A. K. Srivastava	Professor, Deptt of Physics	Member
35	Dr. Manoj Pradhan	Professor, Deptt of Mining	Member
36	Dr. (Mrs) S Gupta	Professor, Deptt of Electrical	Member
37	Shri Mithlesh Atulkar	Faculty(I/c) Examination	Special-Invitee
38	Dr. Ravindra Sharma	Registrar	Secretary

2.4 Building & Works Committee

1	Dr. Sudarshan Tiwari Director, NIT Raipur	Chairman
2	Director/Deputy Secretary MHRD New Delhi	Member
3	Executive Engineer(Civil) CPWD, Tikarapara, C-D Block, Raipur	Member
4	Asst. Engineer(Electrical) CPWD Near Geological Survey of India Raipur(C.G)	Member
5	Dr. G.D.Ramtekkar Dean P&D NIT Raipur	Member (From 9/9/13)
6	Dr. R. K. Tripathi Head, Deptt of Civil Engineering	Member (Till 8/9/13)
7	Dr. L.K.Mishra Associate Professor Dept. of Civil Engg. Motilal Nehru National Institute of Technology, Allahabad – 211 004	Member (From 02/12/13)
8	Dr. Ravindra Sharma Registrar NIT Raipur	Member - Secretary

3. ADMINISTRATION

3.1 Administrative Officers & Deans

Sl.No.	Name	Qualification	Designation/Section
1	Dr. Sudarshan Tiwari	Ph.D. (IIT Roorkee)	Director
2	Dr. Ravindra Sharma	Ph.D.	Registrar
3	Dr. A M Rawani	M.Tech , Ph.D	Dean (Academic Affairs)
4	Dr. Shrish Verma	B.E,M Tech., Ph.D	Dean (Faculty Welfare)
5	Dr. S. Sanyal	B.E, M.Tech & Ph.D.	Dean (Research & Consultancy)
6	Dr. G. D. Ramtekkar	B.E., M.Tech., Ph.D.	Dean (Planning & Development)
7	Shri A.P. Rajimwale	B.E. M.Tech	Dean (Students Welfare)
8	Shri Ajai Sharma	B.E., M.Tech.	Deputy Registrar (Admin) & Nodal Officer-Legal Cell,
9	Shri P. Y. Dhekne	B.E., M.Tech.	Deputy Registrar (I/c) (F&A)
10	Shri Sunil Pandey	B.E., M.Tech	System Administrator
11	Shri Vijay Singh	M.Com, MBA	Assistant Registrar (S&P)
12	Shri Liju Mathew	MBA, MPBA	Assistant Registrar (Etablissement)
13	Shri Mani Shankar Singh	PGDFM, MBA	Assistant Registrar (F&A)
14	Shri Jitendra Dimri	M.Phil	Assistant Registrar (Student Section)

15	Shri Ravindra Chouhan	B.Sc., MCA	Programmer
16	Shri Suraj Pratap Shrivastav	B.E.	Executive Engineer
17	Shri Astik Kumar	B.E.	Junior Engineer
18	Shri Balram Nayak	BA, MA, MH	Security Officer

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 (Thermal, Machine Design, Indst Engg & Mgmt)
4. Civil Engineering (Structural, Water Resource Develop. & Irrigation Engg)
5. Electrical Engineering (Power System & Control)

(b) Master of Computer Applications

4.2 Admission Procedure

B.Tech. :

The admission to 1st year of B.Tech. Programme is made through the Joint Entrance Examination (JEE) conducted by JoSAA/CSAB 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 B.E./B.Tech./M.Sc. in relevant discipline or any degree recognized as equivalent thereto 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 1st 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 sixty three 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 are also known for their excellence in socio-cultural activities and 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)

Departments	Sanctioned Intake	Admissions
Architecture	62	60
Bio. Medical Engineering	62	54
Bio. Technology	62	55
Chemical Engineering	62	61
Civil Engineering	78	78
Computer Science & Engineering	92	92
Electrical Engineering	92	92
Electronics& Telecommunication Engineering	92	92

Information Technology	92	88
Mechanical Engineering	92	92
Metallurgical Engineering	92	90
Mining Engineering	77	77
Total	955	931

Post Graduate (M.Tech)

Departments	Sanctioned Intake	Admissions
Applied Geology	15	14
Master of Computer Applications	92	86
Civil Engineering	30	22
Chemical Engineering	25	14
Mechanical Engineering	43	37
Electrical Engineering	25	22
Total	230	195

4.4 Scholarship Details

Sr.No	Name of Scholarship	Sponsored by	UG / PG	No of Students	Amount Involved
1	Post Metric Scholarship for SC/ST/OBC	Tribal Welfare Dept. of C.G.	UG/PG	448	23566485
2	Minority Scholarship	Tribal Welfare Dept. ,Other State	UG/PG	3	134800
3	Other State Scholarship for SC/ST/OBC/Gen	Other State	UG/PG	96	3293205
4	ONGC Scholarship	Oil And Natural Gas Corpo. Ltd. ONGC Academy Kaulagarh Road, Dehradun 248195	UG/PG	3	220000
5	NHFDC Scholarship	National Handicapped Finanace and dev. Corpo. Red. Cross. Bhawan Sector-12, Faridabad-121007	UG/PG	4	332800
6	IOCL Scholarship	Indion Oil Education Scholarship-B7, Sector 132 Gautam Budh Nagar Greater Noida Ex. Noida U.P.	UG/PG	11	198000
7	Foundation for	Merit Scholarship	UG	1	27170

	Excellence India Trust Scholarship				
8	Central Scholarship for SC Students	SC Students	UG	12	1736400
9	Other Scholarship	Other	UG	5	90105
9	M.Tech	NIT Raipur	PG	135	17118000
10	Ph.D	NIT Raipur		57	16476000
Total				775	63192965

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

1st Semester					
S. No.	Branch	No. of Students			
		Appeared	Passed	Failed	Pass %
1	Architecture	65	33	32	50.77
2	Bio Medical Engineering	79	20	59	25.32
3	Bio Technology	83	14	69	16.87
4	Chemical Engineering	75	51	24	68.00
5	Civil Engineering	88	47	41	53.41
6	Computer Science & Engineering	95	70	25	73.68
7	Electronics & Telecomm. Engg.	95	76	19	80.00
8	Electrical Engineering	108	69	39	63.89
9	Information Technology	107	60	47	56.07
10	Mechanical Engineering	101	76	25	75.25
11	Metallurgical Engineering	104	68	36	65.38
12	Mining Engineering	93	62	31	66.67
TOTAL		1093	646	447	59.10

2nd Semester					
S. No.	Branch	No. of Students			
		Appeared	Passed	Failed	Pass %
1	Architecture	63	51	12	80.95
2	Bio Medical Engineering	73	44	29	60.27

3	Bio Technology	91	49	42	53.85
4	Chemical Engineering	66	49	17	74.24
5	Civil Engineering	87	66	21	75.86
6	Computer Science & Engineering	112	67	45	59.82
7	Electronics & Telecomm. Engg.	101	85	16	84.16
8	Electrical Engineering	99	84	15	84.85
9	Information Technology	107	73	34	68.22
10	Mechanical Engineering	105	81	24	77.14
11	Metallurgical Engineering	116	78	38	67.24
12	Mining Engineering	98	69	29	70.41
TOTAL		1118	796	322	71.20

3rd Semester					
S. No.	Branch	No. of Students			
		Appeard	Passed	Failed	Pass %
1	Architecture	65	51	14	78.46
2	Bio Medical Engineering	70	28	42	40.00
3	Bio Technology	78	37	41	47.44
4	Chemical Engineering	61	40	21	65.57
5	Civil Engineering	93	73	20	78.49
6	Computer Science & Engineering	114	79	35	69.30
7	Electronics & Telecomm. Engg.	109	87	22	79.82
8	Electrical Engineering	108	89	19	82.41
9	Information Technology	102	62	40	60.78
10	Mechanical Engineering	113	78	35	69.03
11	Metallurgical Engineering	100	77	23	77.00
12	Mining Engineering	101	63	38	62.38
TOTAL		1114	764	350	68.58

4th Semester					
S. No.	Branch	No. of Students			
		Appeard	Passed	Failed	Pass %
1	Architecture	63	45	18	71.43
2	Bio Medical Engineering	45	21	24	46.67
3	Bio Technology	58	28	30	48.28
4	Chemical Engineering	70	54	16	77.14
5	Civil Engineering	90	74	16	82.22
6	Computer Science & Engineering	106	65	41	61.32
7	Electronics & Telecomm. Engg.	106	75	31	70.75
8	Electrical Engineering	105	69	36	65.71
9	Information Technology	95	68	27	71.58
10	Mechanical Engineering	106	83	23	78.30

11	Metallurgical Engineering	103	86	17	83.50
12	Mining Engineering	87	58	29	66.67
TOTAL		1034	726	308	70.21

5th Semester					
S. No.	Branch	No. of Students			
		Appeared	Passed	Failed	Pass %
1	Architecture	55	36	19	65.45
2	Bio Medical Engineering	47	16	31	34.04
3	Bio Technology	55	30	25	54.55
4	Chemical Engineering	75	52	23	69.33
5	Civil Engineering	94	69	25	73.40
6	Computer Science & Engineering	106	54	52	50.94
7	Electronics & Telecomm. Engg.	106	76	30	71.70
8	Electrical Engineering	112	77	35	68.75
9	Information Technology	103	71	32	68.93
10	Mechanical Engineering	104	84	20	80.77
11	Metallurgical Engineering	101	69	32	68.32
12	Mining Engineering	99	61	38	61.62
TOTAL		1057	695	362	65.75

6th Semester					
S. No.	Branch	No. of Students			
		Appeared	Passed	Failed	Pass %
1	Architecture	72	60	12	83.33
2	Bio Medical Engineering	27	19	8	70.37
3	Bio Technology	38	22	16	57.89
4	Chemical Engineering	63	49	14	77.78
5	Civil Engineering	86	72	14	83.72
6	Computer Science & Engineering	98	71	27	72.45
7	Electronics & Telecomm. Engg.	100	78	22	78.00
8	Electrical Engineering	99	63	36	63.64
9	Information Technology	85	63	22	74.12
10	Mechanical Engineering	89	80	9	89.89
11	Metallurgical Engineering	93	85	8	91.40
12	Mining Engineering	65	51	14	78.46
TOTAL		915	713	202	77.92

7th Semester		
S. No.	Branch	No. of Students

		Appeard	Passed	Failed	Pass %
1	Architecture	64	47	17	73.44
2	Bio Medical Engineering	30	25	5	83.33
3	Bio Technology	30	27	3	90.00
4	Chemical Engineering	64	46	18	71.88
5	Civil Engineering	81	69	12	85.19
6	Computer Science & Engineering	90	67	23	74.44
7	Electronics & Telecomm. Engg.	99	75	24	75.76
8	Electrical Engineering	100	83	17	83.00
9	Information Technology	82	66	16	80.49
10	Mechanical Engineering	86	72	14	83.72
11	Metallurgical Engineering	92	72	20	78.26
12	Mining Engineering	65	50	15	76.92
TOTAL		883	699	184	79.16

8th Semester					
S. No.	Branch	No. of Students			
		Appeard	Passed	Failed	Pass %
1	Architecture	48	31	17	64.58
2	Bio Medical Engineering	20	20	0	100.00
3	Bio Technology	31	27	4	87.10
4	Chemical Engineering	47	45	2	95.74
5	Civil Engineering	67	64	3	95.52
6	Computer Science & Engineering	79	77	2	97.47
7	Electronics & Telecomm. Engg.	79	77	2	97.47
8	Electrical Engineering	81	78	3	96.30
9	Information Technology	74	69	5	93.24
10	Mechanical Engineering	86	84	2	97.67
11	Metallurgical Engineering	68	68	0	100.00
12	Mining Engineering	61	55	6	90.16
TOTAL		741	695	46	93.79

10th Semester					
S. No.	Branch	No. of Students			
		Appeard	Passed	Failed	Pass %
1	Architecture	46	42	4	91.30
TOTAL		46	42	4	91.30

Master of Computer Applications					
S. No.	Branch	No. of Students			% of Passing
		Appeared	Passed	Failed	
1	1st Semester	93	68	25	73.12
2	2nd Semester	82	72	10	87.80
3	3rd Semester	83	55	28	66.27
4	4th Semester	82	67	15	81.71
5	5th Semester	82	65	17	79.27
6	6th Semester	38	38	0	100.00
Total		460	365	95	79.35

Master of Computer Applications					
S. No.	Sem	Appeard	Passed	Failed	Pass %
1	1st Semester	87	57	30	65.52
2	2nd Semester	86	57	29	66.28
3	3rd Semester	87	76	11	87.36
4	4th Semester	83	60	23	72.29
5	5th Semester	86	66	20	76.74
6	6th Semester	77	77	0	100.00
TOTAL		506	393	113	77.668

M. Tech, Applied Geology					
S. No.	Sem	Appeard	Passed	Failed	Pass %
1	1st Semester	14	12	2	85.71
2	2nd Semester	14	14	0	100.00
3	3rd Semester	14	14	0	100.00
4	4th Semester	15	13	2	86.67
5	5th Semester	15	11	4	73.33
6	6th Semester	13	13	0	100.00
TOTAL		85	77	8	90.588

M. Tech, Chemical Engineering					
S. No.	Sem and Specialization	Appeard	Passed	Failed	Pass %
1	1st Semester (Chemical Process Design)	14	14	0	100.00
2	2nd Semester (Chemical Process Design)	15	10	5	66.67
3	3rd Semester (Chemical Process Design)	14	14	0	100.00
4	4th Semester (Chemical Process Design)	11	11	0	100.00
TOTAL		54	49	5	90.741

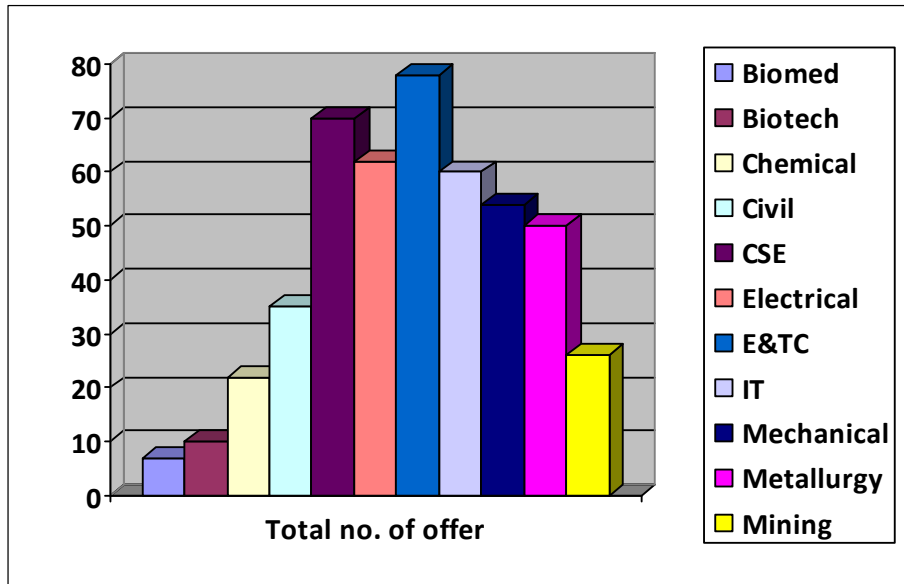
M. Tech, Civil Engineering					
S. No.	Sem and Specialization	Appeard	Passed	Failed	Pass %
1	1st Semester (Structural Engineering)	11	8	3	72.73
2	1st Semester (Water Resource Dev. Irr. Engg.)	11	11	0	100.00
3	2nd Semester (Water Resource Dev. Irr. Engg.)	8	7	1	87.50
4	3rd Semester (Water Resource Dev. Irr. Engg.)	7	7	0	100.00
5	4th Semester (Water Resource Dev. Irr. Engg.)	4	4	0	100.00
TOTAL		41	37	4	90.244

M. Tech, Electrical Engineering					
S. No.	Sem and Specialization	Appeard	Passed	Failed	Pass %
1	1st Semester (Power System & Control)	22	18	4	81.82
2	2nd Semester (Power System & Control)	22	15	7	68.18
3	3rd Semester (Power System & Control)	20	17	3	85.00
4	4th Semester (Computer Technology)	22	22	0	100.00
TOTAL		86	72	14	83.721

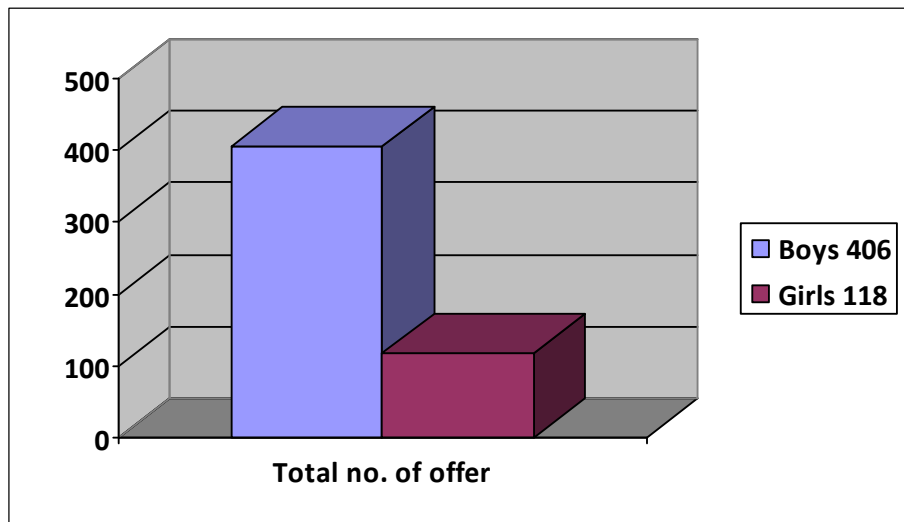
M. Tech, Mechanical Engineering					
S. No.	Sem and Specialization	Appeard	Passed	Failed	Pass %
1	1st Semester (Thermal Engineering)	11	8	3	72.73
2	1st Semester (Industrial Engg. & Mgt.)	11	10	1	90.91
3	1st Semester (Machine Design)	11	7	4	63.64
4	2nd Semester (Thermal Engg.)	14	10	4	71.43
5	3rd Semester (Thermal Engg.)	13	13	0	100.00
6	4th Semester (Thermal Engg.)	11	11	0	100.00
TOTAL		71	59	12	83.10

4.7 Training & Placement Details

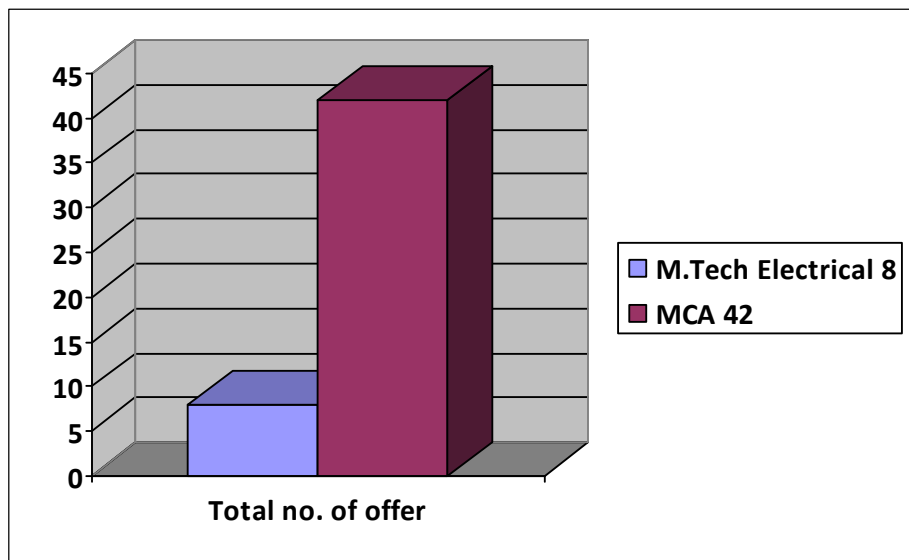
Placement details of B.Tech. (2014-15)

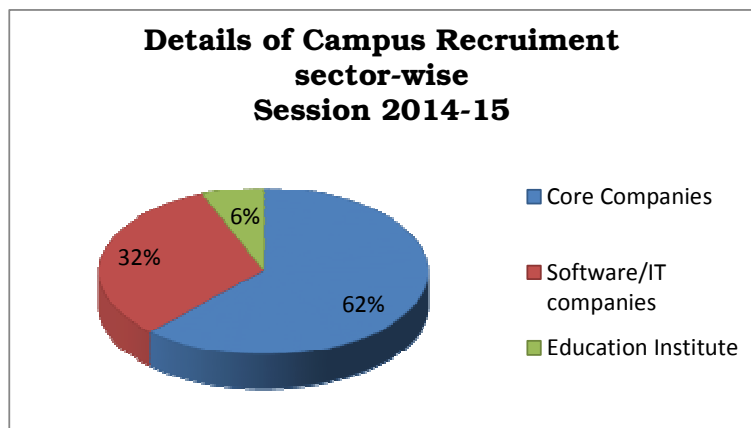


Placement details category-wise (Boys and Girls) (2014-15)



Placement details of MCA/M.Tech. (2014-15)





4.8 FIFTH CONVOCATION PROGRAM OF NIT RAIPUR

The Institute has successfully organised and celebrated its Fifth Convocation Program which was held on 12th December 2014. In Fifth Convocation, degrees were conferred on a total of 756 passing out students, including B.Tech degree on 713 students, B.Arch degree on 43, M.Tech degree on 61 students, MCA to 77 students, and PhD to 4 students in the presence of Padma Vibhushan Professor Man Mohan Sharma, a renowned Chemical Engineer and Scientist who was the chief guest of the convocation. Sudhir Vasudeva, Chairman, Board of Governors, NIT Raipur, Dr Sudarshan Tiwari, Director, NIT Raipur and a host of dignitaries were present on the occasion. The entire ceremony was very well managed. Every passed-out student received good amount of warmth and hospitality from the institute in which they celebrated four years of life.

LIST OF GOLD AND SILVER MEDAL RECIPIENTS

Overall Topper: VIDIT AGRAWAL (Metallurgical Engineering)

B. Tech & B. Arch. Programme 2014

MEDAL RECIPIENTS OF 2014 B. TECH/B. ARCH

RANK	ROLL NO.	ENROL. NO.	NAME OF THE STUDENTS	OBT. MARKS	MAX. MARKS	PERCENT	DIVISION	MEDAL
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OVERALL TOPPERS (B. TECH, METALLURGICAL ENGINEERING)

1	10120083	100743	VIDIT AGRAWAL	5690	6340	89.75	HONOURS	GOLD
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BRANCH WISE TOPPERS

BIO MEDICAL ENGINEERING								
1	10111030	100030	SURABHI BALAGOPAL NAIR	5415	6340	85.41	HONOURS	GOLD
2	10111018	100018	POONAM RATREY	4962	6340	78.26	HONOURS	SILVER
BIO TECHNOLOGY								
1	10112029	100063	PRATEEK NAIR	5487	6340	86.55	HONOURS	GOLD
2	10112022	100056	MUDRABOiena HARSHITHA	5370	6340	84.70	HONOURS	SILVER
CHEMICAL ENGINEERING								
1	10113030	100110	MUGDHA AMBAST	5466	6340	86.21	HONOURS	GOLD
2	10113005	100085	ANIKET JAISWAL	5413	6340	85.38	HONOURS	SILVER
CIVIL ENGINEERING								
1	10114044	100180	NIKHIL R.	5471	6340	86.29	HONOURS	GOLD
2	10114063	100199	SHUBHAM KHEDPANDE	5403	6340	85.22	HONOURS	SILVER
COMPUTER SCIENCE & ENGINEERING								
1	10115013	100226	ANKIT YADU	5310	6340	83.75	HONOURS	GOLD
2	10115004	100217	ACHAL AGRAWAL	5296	6340	83.53	HONOURS	SILVER
ELECTRONICS & TELECOMMUNICATION ENGINEERING								
1	10116031	100333	DISHANT MAHAJAN	5629	6340	88.79	HONOURS	GOLD
2	10116012	100314	ANKIT AGRAWAL	5512	6340	86.94	HONOURS	SILVER
ELECTRICAL ENGINEERING								
1	10117062	100457	RISHABH SHARMA	5287	6340	83.39	HONOURS	GOLD
RANK	ROLL NO.	ENROL. NO.	NAME OF THE STUDENTS	OBT. MARKS	MAX. MARKS	PERCENT	DIVISION	MEDAL
2	10117091	100486	ZEBHA KHAN	5243	6340	82.70	HONOURS	SILVER
INFORMATION TECHNOLOGY								
1	10118042	100528	MALLAPU LAKSHMI SIVA REDDY	5468	6340	86.25	HONOURS	GOLD
2	10118077	100562	SONAM GUPTA	5292	6340	83.47	HONOURS	SILVER
MECHANICAL ENGINEERING								
1	10119036	100605	ABHIJIT JIJABA KALBHOR	5206	6340	82.11	HONOURS	GOLD
2	10119037	100606	KANCHAN BALA SAHU	5177	6340	81.66	HONOURS	SILVER
METALLURGICAL ENGINEERING								
1	10120083	100743	VIDIT AGRAWAL	5690	6340	89.75	HONOURS	GOLD
2	10120070	100730	SHIVENDRA SINHA	5615	6340	88.56	HONOURS	SILVER
MINING ENGINEERING								
1	10121010	100758	ANKIT MALPANI	5559	6340	87.68	HONOURS	GOLD
2	10121038	100786	PIYUSH KUMAR SINHA	5499	6340	86.74	HONOURS	SILVER

ARCHITECTURE								
1	09322035	080970	SUBHRANSHU PANDA	7025	9000	78.06	HONOURS	GOLD
2	09322026	080961	PUSHPENDRA SAHU	6649	9000	73.88	FIRST	SILVER

MEDAL RECIPIENTS OF 2014 M.C.A./M. TECH

MASTER OF COMPUTER APPLICATIONS								
RANK	ROLL NO.	ENROL. NO.	NAME OF THE STUDENTS	OBT. MARKS	MAX. MARKS	PERCENT	DIVISION	MEDAL
1	11223013	110848	ASHISH KUMAR SINGH	4500	3864	85.87	HONOURS	GOLD
2	11223037	110872	NAZIA HASHMI	4500	3725	82.78	HONOURS	SILVER

M. TECH, APPLIED GEOLOGY

RANK	ROLL NO.	ENROL. NO.	NAME OF THE STUDENTS	CPI	DIVISION	MEDAL
1	11225010	110031	SUBHRANSU PANI	8.79	HONOURS	GOLD
2	11225003	110024	JAGRIT GAYAKWAD	8.53	HONOURS	SILVER
M. TECH, CHEMICAL ENGINEERING						
1	12245015	120778	VANDANA GUPTA	8.63	HONOURS	GOLD
2	12245011	120210	SHAIJAL GUPTA	8.61	HONOURS	SILVER
M. TECH, CIVIL ENGINEERING						
1	12244003	120069	MANISH KUMAR SINHA	9.03	HONOURS	GOLD
2	12244005	120001	PREETI RAJPUT	7.87	FIRST	SILVER
M. TECH, ELECTRICAL ENGINEERING						
1	12224016	120772	SATENDRA KUMAR	8.82	HONOURS	GOLD
2	12224009	120010	MRINMOY BHATTACHARJEE	8.44	HONOURS	SILVER
2	12224023	120002	VISHWA DEEPAK	8.44	HONOURS	SILVER
M. TECH, MECHANICAL ENGINEERING						
1	12229012	120006	SHESH NARAYAN DHURANDHAR	8.87	HONOURS	GOLD
2	12229002	120288	AMIT DUBEY	8.84	HONOURS	SILVER

5.0 DETAILS OF DEPARTMENTS & OTHER ACTIVITIES

5.1 DEPARTMENTS

DEPARTMENT OF APPLIED GEOLOGY

Faculty Members Details:-

S. No.	Name of the Faculty	Designation	Qualification
1.	Dr. P. Diwan	Head, Associate Professor	M.Tech., Ph.D.
2.	Dr. N. Vishwakarma	Assistant Professor	M.Tech., Ph.D.
3.	Dr. D.C. Jhariya	Assistant Professor	M.Tech., Ph.D.
4.	Dr. Vikal K. Singh	Lecturer (Temporary)	M.Sc. Ph.D.
5.	Mr. Shashi Bhushan	Lecturer (Temporary)	M.Tech.
6.	Mrs. Chanchal Singh	Lecturer (Temporary)	M.Tech.
7.	Mr. Gaurav Mishra	Teaching Assistant (Temporary)	M. Sc. Tech.

M.Tech. Thesis Completed Only (From 1-4-2014 to 31-3-2015) :-

S. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. P. Diwan	Majulata Diwakar Radha Raman Nayak Subhranshu Pani Umabharti Yadav	Geology, exploration and beneficiation process at Malanjkhhand Copper Project, Hindustan Copper Limited, Malanjkhhand, Dist.- Balaghat (M.P.)
2.	Dr. P. Diwan	Narendra K. Nishad Sujeet K. Shori Yakshay K. Poya	Geology, exploration and Mining at NMDC, Bachel - Kirandul Complex (Deposit 11C) Kirandul Complex, Dist.- Dantewara, South Bastar (C.G.)
3.	Dr. N. Vishwakarma	Dharmendra Sahu Gulab Roi Deharia Jagrit Gayakwad	Mining, Exploration techniques and application of geotechniques at Rampur-Agucha Mine, Vedanta Limited, Dist.- Bhilwara (Rajasthan)
4.	Dr. D.C. Jhariya	Naresh K. Nishad Naveen Nirmalkar Neeraj Bairagi	Manganese deposits of Kandri Mine, Nagpur district (M.H.) with special reference on Geology, Exploration and Mining methods

Seminar/Workshops/Conferences/Short term Courses (National):-

S. No.	Faculty	Attended	Date (From 1-4-2014 to 31-3-2015)
1.	Dr. N. Vishwakarma	Delivered Invited lecture on the Role of Geology in Civil Engineering, in National Conference on Strategic perspectives and Advancements in Civil Engineering, held at Mathura.	14-15 Nov. 2014
2.	Dr. N. Vishwakarma	Presented a paper in National Conference SPACE-2014, held at Mathura, titled Quantitative analysis of a micro-watershed located on the western bank of the Jonk River, near Rajadeori village, Mahasamund district, Chhattisgarh.	14-15 Nov. 2014
3.	Dr. D. C. Jhariya	Attended Training Course on Groundwater Quality Monitoring and Assessment at Rajiv Gandhi National Groundwater Training and Research Institute Raipur	2-7 May 2014

Seminar/Workshops/Conferences/Short term Courses (International):-

S. No.	Faculty	Attended	Date (From 1-4-2014 to 31-3-2015)
1.	Dr. D. C. Jhariya	Attended 4th International Conference and research paper presentation on Advances in Social Sciences (ICASS-2014) which was held at Kuala Lumpur, Malasiya	27-28 Dec. 2014
2.	Dr. D. C. Jhariya	Attended International Conference and Research Paper Presentation during 30 June to 3 July 2014 at Ca' Foscari University, Santa Croce 2161, Venice, Italy	30 June-3 July 2014

Publications (National):-

S. No.	Faculty	Publication Details	Date (From 1-4-2014 to 31-3-2015)
1.	Dr. N. Vishwakarma	Neeraj Vishwakarma and Harel Thomas: Petrography And Geochemistry Of Charnockites From Asind, District - Bhilwara, Rajasthan: Implications For The Evolution; <i>Journal of Applied Geochemistry</i> , Vol. 17, No. 1, pp.10-21.	2015

2.	Dr. N. Vishwakarma	Bhavesh K. Dewangan and Neeraj Vishwakarma: Quantitative analysis of a micro-watershed located on the western bank of the Jonk River, near Rajadeori village, Mahasamund district, Chhattisgarh; in Proceeding volume of SPACE-2014, pp.52-57.	2014
3.	Dr. D.C. Jhariya	Rubia and D. C. Jhariya: A Geological study for the Occurrence of Arsenic in Groundwater in Rajnandgaon District Chhattisgarh, India: A Review. Workshop on "Geogenic contamination of Ground Water in Chhattisgarh with special reference to Arsenic" 28th March'2015, at Raipur organized by CGWB, Ministry of Water Resources Government of India, North Central Region, Raipur	2014

7(b). Publications (International):-

S. No.	Faculty	Publication Details	Date (From 1-4-2014 to 31-3-2015)
1.	Dr. D.C. Jhariya	D. C. Jhariya: Anthropogenic activities and groundwater pollution of Sagar Town in Madhya Pradesh, India. International Journal of Arts and Science, Vol.7, pp. 295-302.	2014

8. Consultancy Projects :-

S. No.	Faculty	Consultancy Details	Date (From 1-4-2014 to 31-3-2015)
1.	Dr. N. Vishwakarma	Petrographic Study of Rock samples M/s Sharda Enterprises, Durg (C.G.)	15.04.2014
2.	Dr. N. Vishwakarma	Petrographic Study of Quarry samples M/s M/s Larsen and Toubro Ltd. Raipur (C.G.)	15.04.2014
3.	Dr. N. Vishwakarma	Petrographic Study of Rock samples Geologist, Exploration Techniques, Bhilai (C.G.)	18.09.2014
4.	Dr. N. Vishwakarma	Petrographic Study of Quarry samples M/s M/s Larsen and Toubro Ltd. Raipur (C.G.)	26.09.2014

9. Research Projects :-

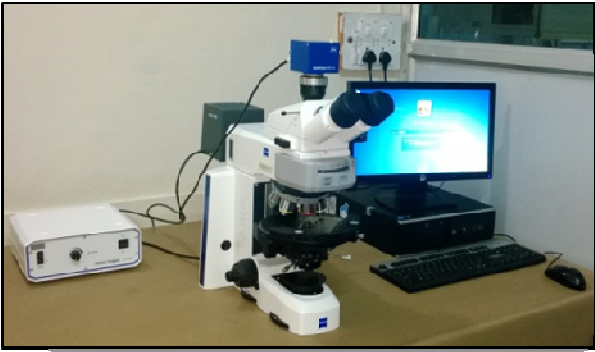

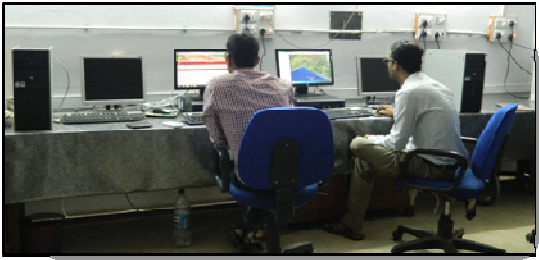

S. No.	Faculty	Research Details	Date (From 1-4-2014 to 31-3-2015)
1.	Dr. N. Vishwakarma	Revised Research proposal titled "Petrology and Geochemistry of Ultramafic Rocks around Basna, District-Mahasamund, (Chhattisgarh)" submitted to CCOST (Under Review)	May 2014
2.	Dr. D.C. Jhariya	Research proposal titled "Identification of Potential Groundwater Artificial Recharge Zones for Rainwater Harvesting Using Geospatial and Geophysical Techniques in Raipur Municipal Corporation Area, Chhattisgarh" submitted to CCOST (Under Review)	Nov. 2014

Awards / Any Other Achievements :-

S. No.	Faculty	Awards / Any other Achievements Details	Date (From 1-4-2014 to 31-3-2015)
1.	Dr. N. Vishwakarma	As member of the National Advisory Committee of SPACE-2014 and Chair the Technical Session in National Conference on Strategic perspectives and Advancements in Civil Engineering, held at Mathura.	14-15 Nov. 2014
2.	Dr. D.C. Jhariya	A research paper entitled " Groundwater Potential Study Using Remote Sensing and GIS Techniques in Durg district of Chhattisgarh, India" presented in an 4th International Conference on Advances in Social Sciences (ICASS-2014) which was held at Kuala Lumpur, Malasiya. Based on effective presentation and excellent works, research paper was adjudged as <i>the best Paper Presentation of the conference.</i>	27-28 Dec. 2014
3.	Dr. D.C. Jhariya	Chaired Technical Session in International Academic Conference which was held at Ca' Foscari University, Santa Croce 2161, Venice, Italy.	30 June - 3 July 2014

10. Brief details of Important Lab with Photographs:-

S. No.	Lab. details	Photographs
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1.	Petrology Lab.- Equipped with Carl Zeiss make Research Microscope with photographic facility for microscopic study of Minerals, Rocks and Ores.	
2.	Optical Lab.- Equipped with 07 nos. of Binocular Polarizing Microscopes and 07 nos. of Binocular Ore Microscopes for microscopic study of Minerals, Rocks and Ores for M. Tech. Applied Geology students.	
3.	Remote Sensing and GIS Lab.- Equipped with advanced software like Erdas Imagine and Arc GIS for geological, geomorphological studies.	
4.	Hydrogeology Lab.- Equipped with Resistivity meters with accessories for ground water development and management studies.	

5.	Photogeology Lab.- Equipped with mirror and Pocket stereoscopes for study of aerial photographs.	
6.	Field Geology Lab.- equipped with all necessary equipments required for geological field work.	
7.	Museum – Museum have ample collections of rocks, minerals, ores, structural specimens, fossils etc.	

8. Institute-Industry Collaboration (2014-2015):-

S. No.	Collaborating Institute/Organization	Area of Collaboration	Collaboration Activities
1.	Bacheli – Kirandul Complex (Deposit 11C), NMDC Ltd. Dist. - Dantewara, South Bastar (C.G.)	Geology, Mineral Exploration and Mining	Industrial training to M. Tech. VI Sem Students of Applied Geology
2.	Malanjkhhand Copper Project, Hindustan Copper Limited, Malanjkhhand, Dist.- Balaghat (M.P.)	Geology, Mineral Exploration and Mining	Industrial training to M. Tech. VI Sem Students of Applied Geology
3.	Kandri Mine, MOIL Ltd. Nagpur district (M.H.)	Geology, Mineral Exploration and Mining	Industrial training to M. Tech. VI Sem Students of Applied Geology
4.	Rampur - Agucha Mine, Vedanta Ltd. Dist.-	Geology, Mineral Exploration and Mining	Industrial training to M. Tech. VI Sem

	Bhilwara (Rajasthan)		Students of Applied Geology
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DEPARTMENT OF ARCHITECTURE

Faculty

Sr.No.	Name of the Faculty	Designation	Qualification
1	Dr. Abir Bandyopadhyay	Professor and Head	B.Arch., M.Urban Planning, Ph.D.
2	DEBASHIS SANYAL	ASSOCIATE PROFESSOR	M. ARCH. (By Research)
3	SWASTIK STHAPAK	ASSOCIATE PROFESSOR	B.Arch, AIIA
4	HIMANSHU POPTANI	ASSISTANT PROFESSOR	B. Arch., M. Arch., Professional Certificate in Environmental Planning & Management

Seminar/Workshop/Conference/Short term Courses (International)

Sr.No.	Faculty	Attended	Date (From 1.04.2014 to 31.03.2015)
1	Dr. Abir Bandyopadhyay	ARCH & LIT: INTER-ARTS DIALOGUE(S), at FOSH- Universidade NOVA, Lisbon, Portugal	04.12. 2014 to 05.12. 2014.

Seminar/Workshop/Conference/Short term Courses(National)

Sr.No.	Faculty	Attended	Date (From 1.04.2014 to 31.03.2015)
1.	Debashis Sanyal	Key Note Speaker, Two Days Workshop on INTELLIGENT BUILDINGS, Department of Architecture, Kavikulguru Institute of Technology & Science, Ramtek.	23 to 24.01.2015
2.	Debashis Sanyal	Key Note Speaker, NEED OF INTELLIGENT STRATEGIES FOR SMART CITIES IN INDIAN CONTEXT, National Conference on Innovation in Engineering, Bilaspur.	28.02.2015
3.	Debashis Sanyal	Special Lecture, ARCHITECTURE AS A CAREER, Department of Architecture, Kavikulguru Institute of Technology & Science, Ramtek.	19.08.2014

4.	Debashis Sanyal	Special Lecture, INTELLIGENT BUILDINGS, Faculty of Architecture, Dr. M.G.R. Educational & Research Institute University, Chennai.	06.09.2014
5.	Debashis Sanyal	Special Lecture, INDOOR AIR POLLUTION FOR USAGE OF CONVENTIONAL BUILDING MATERIALS IN URBAN RESIDENTIAL CONSTRUCTION National Conference on Recent Development, Future Challenges & Opportunities for Rural Development in Globalized Environment, MM College Of Technology, Raipur.	24.09.2014
6.	Debashis Sanyal	Special Lecture, GREEN ARCHITECTURE, Smt. M.M.College of Architecture, LAD College Campus, Nagpur.	16.08.2014
7.	Debashis Sanyal	Special Lecture, NEED OF GREEN BUILDINGS IN CURRENT ARCHITECTURAL PRACTICES AND ITS RELEVANCE IN CHHATTISGARH Awareness Program on GRIHA and Green Buildings GRIHA Raipur.	21.11.14

Seminar/Workshop/Conference/Short term Courses Organized (International)

Sr.No.	Name of the Programme	Name of Key Speaker	Date of the Programme
1	30th International PLEA (Passive and Low Energy Architecture) Conference	Himanshu Poptani presented a research paper entitled: "Extensive Green Roofs: Potential for Thermal and Energy Benefits in Buildings in Central India"	16-18 December 2014
2	Participated in the "Building Energy Simulation Workshop focusing on Natural Ventilation and Mixed Mode Operation" organized by CEPT University Ahmedabad, supported by Ministry of New and Renewable Energy, Govt. of India	Himanshu Poptani attended	12.12.14-14.12.14

Publications (International)

Sr.No.	Faculty	Publication Details	Date (From 1.04.2014 to 31.03.2015)
1	DEBASHIS SANYAL	PRESENT NEED OF DEVELOPING HIGH RISE BUILDINGS: AN ARCHITECTS PERSPECTIVE, National Seminar on High Rise Development, Indian Building Congress, Raipur, pp48-49	12.10.2014

Publications (International)

Sr.No.	Faculty	Publication Details	Date (From 1.04.2014 to 31.03.2015)
1	Abir Bandyopadhyay Swasti Sthapak	Paper on " COURTYARD HOUSES: AN OVERVIEW " in Recent Research in Science and Technology, 2014 -ISSN 2076-5061, vol. 6(1) pages 70-73	16 to 18 December 2014
2	Abir Bandyopadhyay Rinku Parashar	FRACTAL, ARCHITECTURE AND SUSTAINABILITY " in Recent Research in Science and Technology, 2014 -ISSN 2076-5061, vol. 6(1) pages 93-96	16 to 18 December 2014
3	Abir Bandyopadhyay Himanshu Poptani	"EXTENSIVE GREEN ROOFS: POTENTIAL FOR THERMAL AND ENERGY BENEFITS IN BUILDINGS IN CENTRAL INDIA" published in Journal of 30 th International PLEA Conference, CEPT University, Ahmadabad.	16 to 18 December 2014,
4	Abir Bandyopadhyay Upendra Singh	"OPTIMIZATION OF PLUMBING SYSTEMS THROUGH ARCHITECTURAL APPROACHES IN MULTISTORIED MIDDLE INCOME APARTMENT." in ABACUS (A bi-annual internationally refereed journal on Architecture, Conservation and Urban Studies— ISSN 0973-8339 ABACUS of BIT Mesra, Ranchi.), Vol. 9, No. 1, (Spring 2014) pages 26-31.	
5	DEBASHIS SANYAL	ARCHITECTURAL DEVELOPMENT OF INTELLIGENT SUSTAINABLE TALL BUILDINGS IN THE ASIAN CONTEXT, Asian Conference on Sustainability	13.06.2014

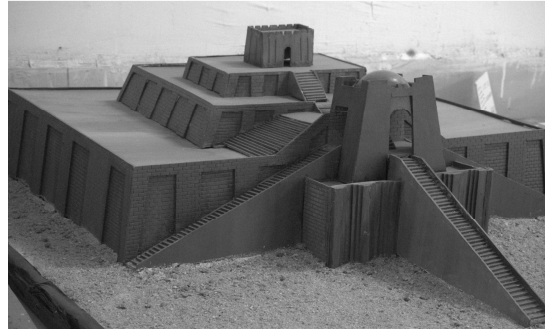
		Environment and Energy 2014, Osaka.	
5.	Abir Bandyopadhyay Swasti Sthpak	Paper on “COURTYARD HOUSES:AN OVERVIEW” in Recent Research in Science and Technology, 2014-ISSN 2076-5061, vol.6(1) pages 70-73	
7	Himanshu Poptani, Dr. Abir Bandyopadhyay	Presented a research paper entitled: “Extensive Green Roofs: Potential for Thermal and Energy Benefits in Buildings in Central India” in the 30th International PLEA (Passive and Low Energy Architecture) Conference	16-18 December 2014

Awards/Any other Achievements

Sr.No.	Faculty	Awards/Any other Achievements	Date (From 1.04.2014 to 31.03.2015)
1	Abir Bandyopadhyay	Expert member of Board of Assessors to evaluate the Technical Bids of participant consultant for the works under WZ-V, CPWD, Raipur.	13.03.2015 26.03.2015
1	DEBASHIS SANYAL	Member, W098 -Customised Industrial Construction, W119 - Intelligent and Responsive Buildings, International Council for Research and Innovation in Building and Construction (CIB), Netherlands	2014-15

Brief details of Important Lab with Photographs.

Taught History of Architecture to students of third and fourth Semester B.Arch. and the students were asked to make models of various historical buildings in the workshop of the Department. A few photographs of the models are given hereunder:



The Department is equipped with the following state of the art laboratories-

ENVIRONMENTAL LABORATORY- With the help of instruments and equipment available in this laboratory, the students get a chance to practically use them, conduct experiments and come to conclusions regarding various climatic data. As compared to using standardized data, they can actually study the method of deriving them. The Instruments in the laboratory are- Hygrometer (Digital and Analogue), Anemometer (cup type, digital, dial type), Wind wane, Inflatable Globe, Sunshine Recorder, Rain Gauge, Whirling Psychrometer, Stevenson's Screen, Lux meter, Non contract IR Thermometer, Velocity stick Anemometer.





BUILDING MATERIAL LABORATORY-

The building material laboratory houses a collection of material samples and models that help the students to understand identify and experience the properties of the materials, their applications and fixing details through practical, hands-on, experience. The laboratory consists of- Catalogue and samples of Laminates, Sanitary Fitting and Appliances, Metal Grill, Glasses, Water supply fixtures with their fittings, Roofing materials like Mangalore tiles, Asbestos sheet, Fiber sheet etc.





COMPUTER LABORATORY-

The computer laboratory, introduces the students to the modern methods of developing 3d models and drawings, with the help of modern software such as AutoCad , 3Ds Max etc. List of Equipment's available are- Computer, UPS, LCD Projector, LED Projector, Book Projector, A0-A4 Colored Plotter. Facility of broadband internet is available for the students.





SURVEY LABORATORY-

The laboratory has the equipment's to give the practical exposure of field survey and leveling to the students. This helps the students to gain knowledge of fieldwork, layout of buildings and preparation of measured drawings. Instruments in the Laboratory are- Digital Theodolite, Magnetic Compass, Measuring Tapes, Measuring Chain, Drawing Board, Plain Table Survey Set, Dumpy Level, Tripod Sand, Leveling Staff, Circular, Square Ranging Rods, Hand held GPS, Laser distance finder etc.





MODEL MAKING WORKSHOP

Students are encouraged to make scaled models of their projects, using various materials like wood, Plaster of Paris, acrylic sheets, etc., which help them in understanding the structural and aesthetic values of their designs. The model making materials are supplied to the students by the department.

The instruments in the Laboratory are- Light duty drill machine, Portable circular sand machine, Circular saw machine, Electric Spray gun, Fret Saw machine, Model making kit, Orbital Sander, Electric wood planer, Pistol grip power drill Machine, Portable Nibbler, Bench Grinder, Angle grinder , Blower, Rotary Hammer, Electric zig saw, Air Compressor painting Machine, Wood turning Lathe, Router and Multi Functional Cutting machine.



ART STUDIO-

The Art Studio of the Department provides an opportunity to develop the artistic acumen of the student by use of forms and colors, thereby developing their Basic Design skills.

Various models are being made by the students to showcase their artistic creativity. It also has a good amount of archives of the students' works. The Studio has an Electric Potters Wheel



DEPARTMENT OF BIOMEDICAL ENGINEERING**Faculty**

Sr. No.	Name of the Faculty	Designation	Qualification
1	Mr. Bikesh Kumar Singh	Head & Assistant Professor	M. Tech, Ph. D Pursuing
2	Mr. Arindam Bit	Assistant Professor (On Contract)	M. Tech, Ph. D Pursuing
3	Dr.R.Periyasamy	Assistant Professor	B.E(ECE), M.Tech(IITM), Ph.D(IITD).,
4	Mrs. Neelamshobha Nirala	Assistant Professor	M.Tech
5	Dr. Saurabh Gupta	Temporary Faculty	PhD
6	Mr. Sandeep Ghritlahare	Temporary Faculty	M. Tech
7	Ms. Kushangi Pathak	Temporary Faculty	B.E, M.Tech
8	Mr. Debabrata Satapathy	Temporary Faculty	M.Tech
9	Mr. Teaching Assistant	Teaching Assistant	B. Tech

Seminar/ Workshops/ Conference/ Short term Courses (National)

Sr. No.	Faculty	Attended	Date (From 1-04-2014 to 31-03-2015)
1	Arindam Bit	COMSOL Training Program, Kolkata	22-23 June 2014
2	Dr.R.Periyasamy	Attended Multiphysics Comsol software training program by COMSOL bangalore at Delhi	12 – 13 th March 2015
3	Dr.R.Periyasamy	Faculty Development Programme under TEQIP-II by IIM Raipur	Oct 13 th – 18 th , 2014
4	Dr.R.Periyasamy	CME Cum Workshop On Autonomic and Vascular Functions Pt.JLN medical college ,Raipur	30 th March 2015
5	Dr.R.Periyasamy	Panel discussion on orthopaedics at IIT Delhi IIT Delhi	31 st October 2014
6	Neelamshobha Nirala	3 days training Programme on Mimics	18-20 sept 2014
7	Neelamshobha Nirala	One day workshop on Medical Physiology	30-03-2015

Seminar/ Workshops/ Conference/ Short term Courses (International)

Sr. No.	Faculty	Attended	Date (From 1-04-2014 to 31-03-2015)
1	Arindam Bit	International Conference on Computer Methods in Biomechanics and Biomedical Engineering, Netherlands	21-23 October 2014
2	Dr.R.Periyasamy	World Congress of Biomechanics 2014 Boston, USA	July 2014
3	Dr.R.Periyasamy	ICoRD'15 - Research into Design Across Boundaries Volume 2 Smart Innovation, Systems and Technologies IISc Bangalore	Jan 2015

Seminar/ Workshops/ Conference/ Short term Courses Organized (National)

Sr. No.	Name of the Programme	Name of Key Speaker	Date of the Programme
1	National Workshop on Recent Trends in Biomechanics: Application to Device Development and Surgery Issues, NIT Raipur under TEQIP II and CGCOST	Dr. Suman Chakraborty Dr. Himadri Chattopadhyay Dr. Anuj Jaun Dr. T Ashokan Dr. Amit Sengupta	11-13 September 2014
2	Hands on Training Program on MIMICS, NIT Raipur under TEQIP II	Vickneswaran Renganathan	18-20 September 2014
3	Self-Sponsored Short term course on "Recent Research methodologies and instrumentation techniques on chemical and biomedical engineering", NIT Raipur -Self sponsored	Dr. K. Wasewar Dr. Jessy Abraham Dr. A. Thirugnanam Dr. Noyel Dr Sumanta Raha	15th Dec 14 to 19th Dec 2014
4	Academic research institution/industry expert lecture 2014, NIT Raipur under TEQIP-II	Dr. Dhurjati Majumdar Dr. Vamsi Krishna Balla	Sept 24 th 2014
5	Academic research institution/industry expert lecture 2015, NIT Raipur under TEQIP-II	Dr. Sanjeev Kumar Dr. Deepak Joshi Shri. Sachin Gaur	27 th March 2015

Publications (National)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1	Arindam Bit	1. Arindam Bit, Himadri Chattopadhyay; "Numerical Investigations of Pulsatile flow in	2014

		<p>stenosed artery”; Acta of Bioengineering and Biomechanics, 16(4), 33-44; 2014.</p> <p>2. Bit A, Chattopadhyay H; Assessment of rheological models for prediction of transport phenomena in stenosed artery; Progres in Computational Fluid Dynamics, An International Journal; 14(6), 363-374; 2014.</p> <p>3. Arindam Bit, Himadri Chattopadhyay; Three Dimensional Numerical Analysis of Hemodynamics of Stenosed Arteries Influencing Outlet Boundary Conditions; International Conference on Computer Methods in Biomechanics and Biomedical Engineering 2014, pp 213, Eindoven Institute of Technology, Netherlands.</p> <p>4. Arindam Bit, Himadri Chattopadhyay; Experimental Analysis of flow variations due to severity of stenosis by LDV, 9th Australian Biomechanics Conference, December 2014, University of Wollongong, Australia.</p>	
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Publications (International)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1	Bikesh Kumar Singh	Bikesh Kumar Singh, Kesari Verma and A. S. Thoke , Objective and Optical Evaluation of Despeckle Filters in Breast Ultrasound Images, IETE Technical Review, 16 pages, 2015. DOI: 10.1080/02564602.2015.1019943. (Taylors and Francis Publication).	2015

2	Bikesh Kumar Singh	Bikesh Kumar Singh, Kesari Verma and A. S. Thoke A Dual Feature Selection Approach for Classification of Breast Tumors in Ultrasound Images Using ANN and SVM, CiiT International Journal of Artificial Intelligent Systems and Machine Learning, Vol. 7, No. 3, pp. 78-84, 2015.	2015
3	Bikesh Kumar Singh	Bikesh Kumar Singh, Kesari Verma and A. S. Thoke Investigations on impact of feature normalization techniques on classifier's performance in breast tumor classification, International Journal of Computer Applications, Vol. 116, No. 19, pp. 11-15, 2015.	2015
4	Bikesh Kumar Singh	Bikesh Kumar Singh, Kesari Verma and A. S. Thoke Adaptive gradient descent backpropagation for classification of breast tumors in ultrasound imaging, Procedia Computer Science (Elsevier Publication), Vol. 46, 2015, pp. 1601-1609, 2015.	2015
5	Bikesh Kumar Singh	Kesari Verma, Bikesh Kumar Singh, Priyanka Tripathi, A. S. Thoke Review of Feature Selection Algorithms for Breast Cancer Ultrasound Image, New Trends in Intelligent Information and Database Systems, Studies in Computational Intelligence Volume 598, 2015, pp 23-32	2015
6	Arindam Bit	I. Jyotsana Priyadarshni, Himadri Chattopadhyay, Arindam Bit; Hemorheology: The current status; National Conference on Present Scenario and Future Trends in Biomedical Engineering and Healthcare Technologies 2014, October 2014, IIT BHU.	2015
7	Periyasamy R, Joshi D, Anand S	'A robust system for foot arch type classification from static foot pressure distribution data using linear discriminant analysis' World Academy of Science, Engineering and Technology, International Science Index, Biomedical and Biological Engineering 2014, 1(9), 131(only Abstract published) .	2014
8	M. Manivannan, R. Periyasamy, Devasahayam Suresh	'Handheld Isobaric Aesthesiometer for Measuring Two-Point Discrimination', ICoRD'15 – Research into Design Across Boundaries Volume 2 Smart Innovation, Systems and Technologies, Volume 35, 2015, pp 675-685	2015

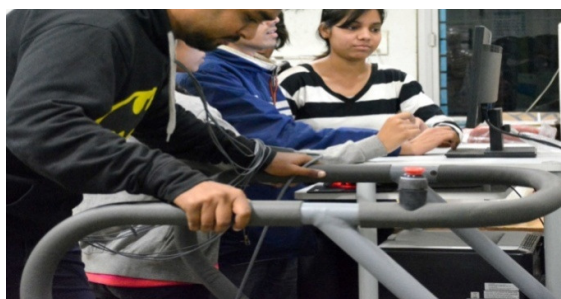
Books Publications

Sr. No.	Faculty	Books Details	Date (From 1-04-2014 to 31-03-2015)
1	Bikesh Kumar Singh	Kesari Verma, Bikesh Kumar Singh, Priyanka Tripathi, A. S. Thoke Review of Feature Selection Algorithms for Breast Cancer Ultrasound Image, New Trends in Intelligent Information and Database Systems, Studies in Computational Intelligence Volume 598, 2015, pp 23-32 (Book Chapter)	2015

Brief details of Important Lab with Photographs

- **Biomedical Instrumentation and Equipment Laboratory**
 - Tread Mill Test machine(TMT)
 - Ultrasound sonography machine
 - Four Channel Biosignal (EEG, EMG, ECG,PPG) Data Acquisition system
 - 16 channel Biosignal (EEG, EMG, ECG,PPG,EGG) data acquisition system
 - Electro-surgical unit
 - Hemodialysis trainer
 - Patient monitoring unit
 - Computerized Tomography trainer
 - Ophthalmoscope
 - Audiometer
 - Blood viscometer

Students testing various parameters of heart arrhythmia using **TMT machine**



Students analysing various functioning principle of parts used in haemodialysis process using **Haemodialysis trainer**



Students performing functional ability of ear by audiometry test using

Students performing experiment to visualizing the various internal soft tissues using **Ultrasound Trainer**

● **Bio-Signal, Medical Image processing and Bioinformatics Laboratory**

- MATLAB, LABVIEW
- Statistical and data mining software (SPSS)
- National Instrument Multisim Software
- NI LabView Hardware Platform for Design & Prototyping



Students performing experiment to monitor various physiological signals of human body using **16 channel Biosignal data acquisition system**



Students performing experiment to monitor various physiological signals of human body using **4 channel Biosignal data acquisition system**



Students performing experiment to analyze the Biosignal and Medical images using **MATLAB & LabView**



Students performing computational analysis and simulation using **NI Multisim and Data mining softwares**

● **Biochemistry and Microbiology Laboratory**

- Auto Semi Biochemistry Analyser
- Microscopes
- Blood cell counter

● **Anatomy and Physiology Laboratory**

- Haemometer
- Haemocytometer
- Anatomical models
- Skeletal system models



Students analysing various biochemical elements and compounds using **Biochemistry**



Students observing various human anatomical parts using **Skeletal system**



Students examining various anatomical parts of human using **Anatomical**

Optical Fibre and laser in medicine Laboratory
 ○ Fiber Optics trainer kit



Students performing experiment to measure numerical aperture using **Fiber Optics trainer kit**

- Microprocessor & Microcontroller Laboratory
 - Microprocessor Trainer Kit
 - Microcontroller Trainer Board



Students performing Pulse amplitude modulation / and Demodulation using **DSB-SC Transmitter and receiver Kit**



Students study the basic logic gates using **Digital gates kit**

- Telemedicine and Principle of Communication system Laboratory
 - National Instrument - Remote stand-alone Physiological Transmission platform
 - National Instrument – Telemedicine student project platform
 - Pulse amplitude modulation / PPM / PWM and Demodulation Kit
 - Sampling and reconstruction trainer Kit
 - DSB-SC Transmitter and receiver Kit

- Frequency division multiplexing and de-multiplexing
- Analog, Digital, Microelectronics and Integrated circuits Laboratory
 - Transistor characteristic, Diode Clipping Kit
 - Digital Gates Kit
 - Shift Register Kit
 - CMOS, UJT Kit

**DEPARTMENT OF BIOTECHNOLOGY ENGINEERING
Faculty**

1. Name of the Department : Biotechnology

Faculty:

Sr. No.	Name of the Faculty	Designation	Qualification
1	Dr Lata S B Upadhyay	Assistant Professor and Head	PhD
2	Dr. Pratima Gupta	Assistant Professor	PhD
3	Dr. Awanish Kumar	Assistant Professor	PhD
4	J. Satya Eswari	Assistant Professor	M.Tech , Ph.D. Pursuing
5	C.M. Nisha	Temporary Faculty	M.Tech
6	Sheela yadav	Temporary Faculty	M.Tech
7	Neeraj babu	Temporary Faculty	M.Tech
8	Santosh Karn	Temporary Faculty	PhD
9	Ashutosh Kumar	Temporary Faculty	M.Tech

Seminar/Workshops/Conferences / Short term Courses (National)

Sr. No.	Faculty	Attended	Date (From 01-04-2014 to 31-03-2015)
1	Dr Lata S B Upadhyay	1-Week hands on Workshop on Human/Cancer Cell Culture Tech and MTT Assay	5-11 Oct 2014
		Training on Management Capacity Enhancement for Administrators	8-13 Sep 2014
2	Dr. Pratima Gupta	Collection of e-books, NIT Raipur	14 - 15 November 2014
3	Dr. Awanish Kumar	Flow Cytometry, JNC SAR, Bangalore	11-12 March 2015
		Collection of e-books, NIT Raipur	14-15 Nov, 2014
		Nanoscience & Nanotechnology, Bhillai	08-11-2014
		Drug Discovery, AIIMS New Delhi	20-21 Sept, 2014
		Use of E-resources, NIT Raipur	10-09-2014
		IEEE Authorship workshop, IIT Delhi	11-08-2014

4	J.Satya Eswari	Undergone training which was conducted by National institute of technical teachers' training and research, Bhopal.National institute of Technology Raipur sponsored by TEQIP -II	2-6-14 to 13-06-14
		Attended in the workshop "collection Development of E-books in libraries "as participant organized by central library, NIT, Raipur during.	From 14-11-2014 -to 15-11-2014
		Attended short term course on "International Centre for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune, training programme in animal cell culture and molecular techniques using the human/cancer cell"	5-10-2014 to 11-10-2014

Seminar/Workshops/Conferences / Short term Courses (Intenational)

Sr. No.	Faculty	Attended	Date (From 01-04-2014 to 31-03-2015)
1	Dr. Awanish Kumar	3rd International Conference on Advances in Engineering & Technology (Kuala Lumpur), Malasiya	26-27 December, 2014
2	J.Satya Eswari	ICAAE 2015 : XIII International Conference on Aeronautical and Astronautical Engineering	From 12-02-2015 to 13-02-2015
		International conference on Genome Architecture and cell fate regulation, School of life sciences , University of Hyderabad	From 01-12-2014 to 4-12-2014

Seminar/Workshops/Conferences / Short term Courses Organized (National)

Sr. No.	Name of the Programme	Name of Key Speaker	Date of the Programme
1	BARC Outreach program	Dr. B.N. Jagatap	23-Sep-14
2	Bioentrepreneurship: From Ideas to services	Dr. S. Shivaji	14th -18th July 2014

Publications (National)

Sr. No.	Faculty	Publication Details	Date (From 01-04-2014 to 31-03-2015)
1	Dr. Awanish Kumar	Nanotechnology and Insulin: A Perfect Marriage. Int J Nanomater Nanotechnol, Nanomed S: 198. Peertechz, India	Mar-15

Publications (International)

Sr. No.	Faculty	Publication Details	Date (From 01-04-2014 to 31-03-2015)
1	Dr Lata S B Upadhyay	A Three Step Approach for the Purification of Alkaline Phosphatase from Non-Pasteurized Milk Journal of Food Science and Technology, DOI 10.1007/s13197-014-1578-1. (Impact Factor:2.02, ISSN No: 0022-1155 (print version), 0975-8402 , Springer)	Sept 2014
		Alkaline Phosphatase: Inhibition based Conductometric Biosensor for Phosphate estimation in Biological Fluid, Bioelectronics and Biosensor, (2015), 68, 611-616. (Impact Factor:6.45, ISSN No: 0956-5663, Elsevier)	Jan-15
		Recent advances in phosphate biosensors, <i>Biotechnology Letters</i> , (2015), DOI 10.1007/s10529-015-1823-3. (Impact Factor:1.73, ISSN No: 0141-5492 (Print) 1573-6776 (Online), Springer)	Mar-15
2	Dr. Pratima Gupta	A two-step process for efficient enzymatic saccharification of rice straw. <i>Bioresource Technology</i> (2014), doi:10.1016/j.biortech.2014.09.101, Impact factor 5.03.	Dec-14
		Design of a single chambered microbial electrolytic cell reactor for production of biohydrogen from rice straw hydrolysate, <i>Biotechnology Letters</i> June 2015, Volume 37, Issue 6, pp 1213-1219, DOI 10.1007/s10529-015-1780-x	Feb-15
3	Dr. Awanish Kumar	Proteomic analyses of membrane enriched proteins of <i>Leishmania donovani</i> Indian clinical isolate by mass spectrometry. <i>Parasitology International</i> 64(4) 36-42	Mar-15

		Mechanism-based anti-diabetic activity of Fructo- and isomalto-oligosaccharides: Validation by in vivo, in silico and in vitro interaction potential. Process Biochem ; 50, 317-327. Elsevier, Clare, IRELAND	Feb-15
		C-terminal domain of CagX is responsible for its interaction with CagT protein of Helicobacter pylori type IV secretion system. Biochem Biophys Res Commun 464(1):98-103. Elsevier, San Diego, USA	Jan-15
		A Computational Modelling for the Detection of Diabetic Retinopathy Severity. Bioinformatics ; 30;10(9):556-561. Biomedical Informatics, INDIA	Sep-14
		Type 2 Diabetes Mellitus: The Concerned Complications and Target Organs. Apollo Med; 1(9) 161-166. Elsevier, Science Direct, USA	Sep-14
		Studies on characterization of Proliferating Cell Nuclear Antigen of <i>Leishmania donovani</i> clinical isolate and its association with antimony resistance. Antimicrob Agent & Chemother ; 58(6):2997-3007. American Society for Microbiology, Washington, USA	Jun-14
		Detection of new therapeutic targets against Leishmaniasis using proteomic approach. Proceedings of International Journal of Arts and Science; 1:9. / 1943-6114 Int J of Arts and Science, Italy	Dec-14
4	J. Satya Esvari	Dynamic Modelling and Metabolic Flux Analysis for Optimized Production of Rhamnolipids. Chemical engineering communications, in press, 2014	01-12-2014
5	C.M. Nisha	Current and Novel Therapeutic, Molecules and Targets in Alzheimer's, Journal of the Formosan Medical Association, Ref. No.: JFMA-D-14-00236R3, SCI; 1.6 impact	01-08-2014
6	Dr. Santosh Karn	Arsenic (As) contamination: A major risk factor in Xinjiang Uyghur Autonomous Region of China Environmental Pollution IF- 4.1 http://dx.doi.org/10.1016/j.envpol..05.005 ISSN: 0269-7491	2015
		Hydrolytic enzyme protease in sludge: Recovery and its application, Biotechnology and Bioprocess Engineering (Accepted) IF-1.3	2015

Research Projects

Sr. No.	Faculty	Research Details	Date (From 01-04-2014 to 31-03-2015)
1	Dr Lata S B Upadhyay	Chemical and enzymatic modification of NSAID to overcome	July 2012 to June 2015

		their side effect, CCOST	
2		Lipase catalyzed biodiesel production from nonedible oil by lipolytic bacteria, SERB (DST)	Aug 2012 to July 2015
3	Dr Pratima Gupta	Enzymatic hydrolysis of rice husk and straw and its conversion into biohydrogen by dark fermentation, CCOST	Nov- 2013-Nov 2015
4		Design of Microbial Electrolytic Cell for economic and energy efficient biohydrogen production from leafy biomass by electrohydrogenesis, (MNRE)	March 2015-March 2018
5	Dr. Awanish Kumar	CCOST Project (4.49 Lac) "In vitro screening of Chhattisgarh based herbs for countering diarrhea with special emphasis on cholera"	September 2014 to August 2016



Biotechnology Lab 1 (Research Lab)



Biotechnology Lab 2



Biotechnology Lab 3



Biotechnology Computer Lab

DEPARTMENT OF CHEMICAL ENGINEERING**Faculty**

Sr. No.	Name of the Faculty	Designation	Qualification
1	Dr. (Mrs.) A.B. Soni	Professor & HoD	Ph.D
2	Dr. B. Mazumdar	Associate Professor	Ph.D
3	Dr. Parmesh Kumar Chaudhari	Associate Professor	Ph.D
4	Mr. A.K. Poonia	Assistant Professor	M.Tech
5	Mr. V. K. Singh	Assistant Professor	M.Tech
6	Dr. Amit Keshav	Assistant Professor	Ph.D
7	Mr. Dharam Pal	Assistant Professor	M.Tech
8	Dr. Prabir Ghosh	Assistant Professor	Ph.D
9	Dr. J Anand Kumar	Assistant Professor	Ph.D
10	Dr. R. Manivannan	Assistant Professor	Ph.D

Doctoral Thesis Completed Only (PhD) (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1	Dr. (Mrs.) A.B. Soni	Mrs. Pooja V. Shrivastava	Hydrodynamics Aspects o three phase semifluidized Bedi.

M.Tech Thesis Completed Only (From 01-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1	Dr. (Mrs.) A.B. Soni	Shaijal Gupta	Behaviour of coal water slurry and its modelling
2	Dr. B. Mazumdar	Roshan Sahu	Design of Multiayer Pressure Vessel
3	Dr. Parmesh Kumar Chaudhari	Vandana Gupta	Reduction in COD and color of sugar industry effluent
4	Dr. Amit Keshav	Ankita Jain	Influence of heat treatment on quality of vegetables: Change in visual green color
5	Mr. Dharam Pal	Mr. Niraj Thakre	Modelling & optimisation of citric acid recovery from aqueous solutions
6	Dr. J Anand Kumar	Somendu Dasgupta	Synthesis and Characterisation of Low-Cost Porous Membranes
7	Dr. R. Manivannan	Ms. Kavita Yadav	Murraya koenigii as a green corrosion inhibitor for mild steel in nitric acid medium

Seminar/Workshops/Conferences/Short term Courses (National)

Sr. No.	Faculty	Organised	Date (From 1-04-2014 to 31-03-2015)
1	Dr. (Mrs.) A.B. Soni	"Achieving the Excellence in Education" at IIM-Raipur	8 th Sept. 14 to 13 th Sept. 14.
2	Dr. B. Mazumdar	Short Term Course on Nano materials: Characterization and Applications	1-5 th March 2014
3	Dr. Parmesh Kumar Chaudhari	Short Term Course Chemical Process Modelling and Simulation	June 23-27, 2014

4	Dr. Amit Keshav	1. <i>Indian Chemical Engineering Congress (CHEMCON)-2014</i> "Chemical Engineering-Emerging Dimensions and Challenges Ahead" CHEMCON 2014 , December 27-30, 2014 2. Harnessing Engineering, Technology, and Innovation for sustainable Development (HETIS-2014). 19-20 September 2014, Chandigarh, India	December 27-30, 2014 19-20 September 2014
5	Mr. Dharam Pal	(1) Workshop on "Academic Ethics and IPR" at NIT Raipur (2) Training Program on "Uses of E-resources" at NIT Raipur	April 04-05, 2014 Sep. 10, 2014
6	Dr. R. Manivannan	(3) Fundamental Electrochemical Principles Applied to Problems in Science and Engineering, IIT Madras	10th – 14th August 2014
		(4) Short Term Course on Thermodynamic Analysis of Modern Separation Processes	23rd - 29th November 2014

Seminar/Workshops/Conferences/Short term Courses (international)

Sr. No.	Faculty	Attended	Date (From 1-04-2014 to 31-03-2015)
1	Dr. B. Mazumdar	(1) International conference on Energy, Environment, Materials and Safety held at Kochi, Kerala, India (2) International conference on IJAS held at country: Malta	10-12 th Dec 2014 1-5 th March 2015
2	Dr. Parmesh Kumar Chaudhari	International Journal of Art and Sciences, International conference, Valleta, Malta	March 1-5, 2015
3	Dr. Amit Keshav	International Conference on Advances in Chemical Engineering and Technology (ICACE TKMCE, 14), 16-18 Oct 2014.	16-18 Oct 2014., Kolam
5	Mr. Dharam Pal	"3rd International Conference on Advances in Engineering & Technology (ICAET) at Kuala Lumpur (Malaysia)	Dec. 26-27, 2014

Seminar/Workshops/Conferences/Short term Courses organized (National)

Sr. No.	Faculty	Name of programme	Name of key speaker	Date
1	Dr. (Mrs.) A.B. Soni	Chairperson of all the following programmes	-	02-06, June, 2014 at NIT Raipur
2	Dr. B. Mazumdar	Short Term Course on Simulation of flow processes using computational fluid dynamics (SFPCFD)	Dr. S Mahapatra and Ansys team	02-06, June, 2014 at NIT Raipur
3	Dr. Amit Keshav	short term course on Simulation of flow processes using computational fluid dynamics (SFPCFD)	Dr. S Mahapatra and Ansys team	June 02-06, 2014 at NIT Raipur
4	Mr. Dharam Pal	Workshop on "Academic		April 04-05, 2014

		Ethics and IPR", at NIT Raipur.		
		Short term course on Simulation of flow processes using computational fluid dynamics (SFPCFD)	Dr. S Mahapatra and Ansys team	June 02-06, 2014 at NIT Raipur
		Workshop on "Renewable Energy and Environment", at NIT Raipur.	Mr. S K Shukla (CREDA)	12-13 July, 2014
5	Dr. R. Manivannan	Renewable Energy & Environment (REE-14)	Mr. Dharm Pal & Dr. R. Manivannan	12th & 13th June 2014
		Chemical Process Modelling & Simulation (CPMS-14)	Dr. P.K. Chaudhari & Dr. R. Manivannan	23rd -27th June 2014

6. b. Seminar/Workshops/Conferences/Short term Courses organized (international)

Sr. No.	Faculty	Name of programme	Name of key speaker	Date
1	Dr. Parmesh Kumar Chaudhari	International Conference in Advances on Chemical Engineering-2013	Prof. G. D. Yadav, Prof. V. G. Gaikar, Prof. I. M. Mishra	Raipur, March 8-9, 2013.

Publications (National)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1	Dr. (Mrs.) A.B. Soni	Synthesis & characterization of copper nanoparticles using chemical reduction technique	2014
2	Dr. R. Manivannan	Ankita Verma, Ankur Pandey and R. Manivannan, "Corrosion inhibition of mild steel in nitric acid using glycine (gly) as green corrosion inhibitor, CHEMCON-2014, Chandigarh.	Dec, 27-30, 2014.
		Apeksha Gupta and R. Manivannan "Removal of nanoparticles from Cu/low-k surfaces using hybrid cleaning technology", National Conference on Nanoscience and Nanotechnology 2014, Bhillai	8th November 2014
		Ankur Pandey and R. Manivannan "A study on synthesis of nickel nanoparticles using chemical reduction technique", National Conference on Nanoscience and Nanotechnology 2014, Bhillai	8th November 2014
		Zeenat Arif, A. B. Soni and R. Manivannan "Synthesis and characterization of copper nanoparticles using chemical reduction technique", National Conference on Nanoscience and Nanotechnology 2014, Bhillai.	8th November 2014

Publications (international) From 1-04-2014 to 31-03-2015

No	Name of Author(s)	Topic	Journal's Name	Details
1	Dr. (Mrs.) A.B. Soni	(1) Zeenat Arif, A.B. Soni & R. Manivannan synthesis and characterization of oleic Acid capped metallic copper nanoparticle via Chemical Reaction Technique, 2nd Int. Cont. .. on Nanotechnology (ICNT-2015) Haldia, Proceedirgs pg. no. 220-226, ISBN: 978-81-927756-2-3. (2) C. Verma, K. Tapadia, A.B. Soni, Colorimetric Determination of Bismuth in Coal Mines Water of Chhattisgarh, INDIA , International seminar on Non-Conventional Energy Sources for Sustainable Development of Rural Areas	Feb-19-22, 2015 21st & 22nd march-2015.	
2	Dr. B. Mazumdar	Journal (1) Biosorption Studies for Chromium(VI) Removal using Sweetlime Fruit Skin & Bagasse in IJRAT (2) Treatment of biodigester effluent of a maize based starch industry by coagulation (3) Electrochemical treatment of biodigester effluent of maize-based starch industry: COD and colour removal	(1) April 2014 (2) May 2014 (3) June 2014	
		(1) Electrochemical treatment of sugar Industry wastewater (2) Study of the effect of zinc salts on degreening of Ipomoea Aquatica leave puree	Dec, 2014 1-5 th March 2015	
3	Dr. Parmesh Kumar Chaudhari	Physicochemical treatment of distillery wastewater- A Review	Chemical Engineering Communications (Taylor and Francis)	202 (2015) 1098-1117
		Electrochemical treatment of actual sugar industry wastewater using aluminum electrode	International Journal of Environmental Science and Technology (Springer)	DOI:10.1007/s13762-015-0774-5 (2015)
		Electrochemical treatment of sugar industry wastewater: COD and color removal	Journal of Electroanalytical Chemistry (Elsevier)	739 (2015)12 2-129
		Catalytic thermal treatment (catalytic thermolysis) of a rice grain based biodigester effluent of an alcohol distillery plant	Environmental Technology (Taylor and Francis)	DOI:10.1080/09593330.2015.1036787

		Electrochemical treatment of biodigester effluent of maize-based starch industry: COD and color removal	Desalination and Water Treatment (Taylor and Francis)	55 (7) (2015)1972-1980
		Decolorization and removal of chemical oxygen demand (COD) of rice grain-based biodigester distillery effluent (BDE) using inorganic coagulants	Desalination and Water Treatment (Taylor and Francis)	53(2015)2204-2215
		Electrochemical treatment of biodigester effluent of maize-based starch industry using iron electrode”	Indian Journal of Chemical Technology (NISCAIR)	Accepted (2014)
		Electrochemical treatment of rice grain-based distillery effluent: chemical oxygen demand and colour removal	Environmental Technology (Taylor and Francis)	35, (2014) 242-249

		Treatment of wastewater by electrocoagulation: A review	<u>Environmental Science and Pollution Research</u> (Springer)	21(2014)2397-2413
		Removal of color and chemical oxygen demand from sugar industry wastewater using thermolysis processes	Desalination and Water Treatment (Taylor and Francis)	DOI: 10.1080/19443994.2014.956797
		Electrochemical treatment of rice grain based distillery biodigester effluent	Chemical Engineering and Technology (Willey)	37 (2014) 1-9
4	Dr. Amit Keshav	Extraction equilibria of pyruvic acid using tri-n-butyl phosphate: Influence of diluents, Journal of Chemical and Engineering Data, 59(9), 2709-2716, 2014 (Impact factor 2.045; ISSN No. 0021-9568) Kinetics of Reactive Extraction of Pyruvic Acid Using Tributylamine Dissolved in n-Butyl Acetate. Int. J. Chem. React. Eng. 2015 Reactive extraction of pyruvic acid using tri-n-octyl amine diluted in decanol/kerosene: Equilibrium and effect of temperature. Journal of Chemical and Engineering Data, 60 (3), 860-869, 2015 (Impact factor 2.045; ISSN No. 0021-9568) Modeling of the recovery of citric acid using Aliquat 336 in natural diluents. International Journal of Scientific Engineering and Research (IJSER). Vol (2), Issue 11, Nov 2014.	From 1-04-2014 to 31-03-2015	
5	Mr. Dharmpal	Dharm Pal , Amit Keshav, Extraction Equilibria of Pyruvic Acid Using Tri-n-butyl Phosphate: Influence of Diluents. <i>Journal of Chemical & Engineering Data</i> .2014, 59, 2709-2716.	From 1-04-2014 to 31-03-2015	

		<p>Dharm Pal, Amit Keshav, Kinetics of Reactive Extraction of Pyruvic Acid Using Tributylamine Dissolved in n-Butyl Acetate. <i>International Journal of Chemical reactor Engineering</i>. DOI 10.1515/ijcre-2014-0117</p> <p>Dharm Pal, Ayush Tripathi, Arushi Shukla, Kush R. Gupta, and Amit Keshav, Reactive Extraction of Pyruvic Acid Using Tri-n-octylamine Diluted in Decanol /Kerosene: Equilibrium and Effect of Temperature, <i>Journal of Chemical & Engineering Data</i>. DOI:10.1021je 500964e</p> <p>Dharm Pal, Amit Keshav, Separation of Pyruvic Acid Using Reactive Extraction: Back Extraction and Effect of PH, <i>International Journal of Chem Tech Research</i>, Vol.7, No.4, pp 1889-1894, 2014-2015.</p> <p>Dharm Pal and Amit Keshav, In Situ Extraction of Pyruvic Acid using Natural Non-Toxic Diluent, 3rd International Conference on Advances in Engineering & Technology, 26th and 27th December, 2014, Dynasty Hotel , Kuala Lumpur, Malaysia. <u>(best paper award)</u></p> <p>Dharm Pal, Niraj Thakre and Amit Keshav, Extraction of Pyruvic Acid: LSER Modeling, International Conference on New Frontiers in Chemical, Energy and Environmental Engineering to be held during 20-21March, 2015, NIT Warangal.</p>		
6	Dr. R. Manivannan	S. Noyel Victoria, Rohith Prasad, R. Manivannan, Psidium guajava leaf extract as green corrosion inhibitor for mild steel in phosphoric acid, <i>Int. J. Electrochem. Sci.</i> , 10 (2015) 2220-2238	19 th January 2015	
		Alok Singh, R. Manivannan, S. Noyel Victoria, Simple one-pot sonochemical synthesis of copper sulphide nanoparticles for solar cell applications, <i>Arabian Journal of Chemistry</i>	27 th March 2015	
		Kavita Yadav, Apeksha Gupta and R. Manivannan, "Glycine as a corrosion inhibitor for mild steel in nitric acid", International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2015), NIT Warangal.	March 20-21, 2015	
		Apeksha Gupta, Dushyant Patel, Sunil Meena and R. Manivannan, "Adsorption	March 20-21, 2015	

		of hexavalent chromium on activated rice husk carbon", International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2015), NIT Warangal.		
		Zeenat Arif, A. B. Soni and R. Manivannan "Synthesis and Characterization of Oleic Acid Capped Metallic Copper Nanoparticle via Chemical Reduction Technique" 2nd International Conference on Nanotechnology (ICNT-2015), Haldia.	Feb 19-22, 2015	
		Ankur Pandey and R. Manivannan "Synthesis of Nickel Nanoparticles using Chemical Reduction Technique" 2nd International Conference on Nanotechnology (ICNT-2015), Haldia.	Feb 19-22, 2015	

Research Projects

Sr. No.	Faculty	Research Details	Date
1	Dr. B. Mazumdar	Shelf Life of species	(From 1-04-2014)
2	Dr. Parmesh Kumar Chaudhari	Treatment of biodigester effluent of rice grain based industry, 1.05 lakhs	Date of release January 2013 completed in feb 2015
3	Dr. Amit Keshav	Kinetic of thermal degradation of chlorophyll in green leafy vegetables and increasing the shelf life of the vegetables, SERB/MFPI, New Delhi, India,	Date of release January 2013 completed in feb 2015
		Studies on a membrane reactor for the esterification of mono-carboxylic acids with ethanol. DST, New Delhi	Second year completed in 2015
		Organic acid from sugar cane industry's by products, CCOST	Project started in 2014
4	Mr. Dharam Pal	Organic acid from sugar cane industry's by products, CCOST	Project started in 2014
5	Dr. R. Manivannan	DST SERB funded "Slurry Formulation for Ruthenium Chemical Mechanical Planarization" INR 20.87 lacs	Project Start Date : 01/09/2014

Awards / Any other Achievements

Sr. No.	Faculty	Awards / Any other Achievements Details	Date
1	Dr. B. Mazumdar	Awarded PhD degree from NIT Raipur	Sep, 2014
2	Mr. Dharam Pal	Award for "Best Paper Presentation" in "3rd International Conference on Advances in Engineering & Technology (ICAET), at Kuala Lumpur (Malaysia).	Dec. 26-27, 2014

		Received certificate of merit for outstanding research & presentation in an international conference at Ca' Foscari University Venice, Italy.	30th June to 3rd July 2014
		Chaired a technical research presentation session in an international conference of academic discipline at Ca' Foscari University Venice, Italy.	30th June to 3rd July 2014

DEPARTMENT OF CHEMISTRY

Faculty:-

Sr. No.	Name of the Faculty	Designation	Qualification
1.	Dr.(Mrs.) Fahmida Khan	Professor	M.Sc., Ph.D.
2.	Dr.(Mrs.) Kavita Tapadia	Assistant Professor	M.Sc., Ph.D.
3.	Dr. Shyama Prasad Mahapatra	Assistant Professor	M. Sc., Ph. D.
4	Dr.(Mrs.) Tungabidya Maharana	Assistant Professor	M.Sc., M.Phil., Ph.D.
5.	Dr. SANTHOSH PENTA	Assistant Professor	M. Sc., Ph. D.

Doctoral Thesis Completed Only (PhD) (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1	DR. SHYAMA PRASAD MAHAPATRA	Mr. Shashi Kant Tiwari	Preparation and Characterizations of Chlorobutyl Elastomer Nanocomposites: Effects of Multiwalled Carbon Nanotube and Nano-graphite Loadings

M.Tech Thesis Completed Only (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1	DR. SHYAMA PRASAD MAHAPATRA, CO-SUPERVISOR	Mr. Govind Sahu	Thermal Properties of Silicon Elastomer Nanocomposites

Seminar/Workshops/Conferences/Short term Courses (National)

Sr. No.	Faculty	Attended	Date (From 1-04-2014 to 31-03-2015)
1.	DR.(MRS.) FAHMIDA KHAN	05	<ol style="list-style-type: none"> 1. <i>Workshop on Academic Ethics and IPR, NIT Raipur, 04 to 05 April 2014</i> 2. <i>National Level Short Term Training Programme on Recent Trends in Heterocyclic Compounds and Material Science. NIT Raipur, 26 to 30 April 2014</i> 3. <i>4th batch of training on management Capacity Enhancement for the administrators of TEQIP Institutions, IIM Raipur, 10 to 15 Nov. 2014</i> 4. <i>National Level Short Term Training Programme on Nano-Materials: Characterizations and Applications (NCA-2014), 1 to 5 Dec 2014</i> 5. <i>National Conference on polymer</i>

			<i>science, Faculty of pharmaceutical sciences, Shri Shankaracharya Technical Campus, Bilai, C. G., 21 March 2015</i>
2.	DR.(MRS.) KAVITA TAPADIA	04	<ol style="list-style-type: none"> 1. Chemical process modelling and simulation, Department of Chemical Engg.NIT, Raipur,23-27,June,2014 2. Mathematical Modeling in Science and Engineering, Department of Mathematics.NIT, Raipur, 02-06, July, 2014. 3. Bio-entrepreneurship: from ideas to service, Department of Biotechnology, NIT, Raipur, 14-18, July, 2014. 4. National Level Short Term Training Programme on Nano-Materials: Characterizations and Applications (NCA-2014), 1 to 5 Dec 2014
3.	DR. SHYAMA PRASAD MAHAPATRA	03	<ol style="list-style-type: none"> 1. STTP on Recent Trends in Heterocyclic Compounds and Material Science, 26-30 May 2014. 2. STTP on Nanomaterials: Characterizations and Applications, 1-5 December 2014 3. National Conference on Polymer Science, 21st March 2015.
4.	DR.(MRS.) TUNGABIDYA MAHARANA	02	<ol style="list-style-type: none"> 1. Recent Research Methodologies and Instrumentation Techniques on Chemical and Bio-Medical Engineering NIT Raipur, 15-19 Dec 2014. 2. STTP on Recent Trends in Heterocyclic Compounds and Material Science NIT Raipur,26-30 May 2014
5	Dr. SANTHOSH PENTA	02	<ol style="list-style-type: none"> 1. 13th Chhattisgarh young scientists congress-2015 organized by Indiragandhi Krishi Vishwavidhyalaya, Raipur Sponsored by Chhattisgarh Council of Science & Technology, on Feb 18 & March 1st, 2015. 2. STTP on Computational Drug Design using Molecular Docking and Virtual Screening at department of chemistry, VNIT Nagpur during March 12-14, 2015

Seminar/Workshops/Conferences/Short term Courses (International)

Sr. No.	Faculty	Attended	Date (From 1-04-2014 to 31-03-2015)
1.	DR.(MRS.) FAHMIDA KHAN	02	<ol style="list-style-type: none"> 1. <i>International Conference "ERA12: An International Symposium on Nuclear & Environmental Radiochemical Analysis, Bath, England, UK, 17 to 19 sep 2014</i> 2. <i>5th International Conference on Luminescence and its Applications, PES University, Bengaluru, INDIA, 09 to 02 Feb 2015.</i>
2.	DR.(MRS.) KAVITA TAPADIA	04	<ol style="list-style-type: none"> 1. International conference on Status of Science and Technology in Chhattisgarh State, Spectrophotometric determination of GSH by using silver nanoparticles, on 19-20 March, 2015, Bhilai Institute of Technology, Durg. 2. International conference on Status of Science and Technology in Chhattisgarh State, Determination of bismuth in pharmaceuticals products, on 19-20 March, 2015, Bhilai Institute of Technology, Durg. 3. International conference on Status of Science and Technology in Chhattisgarh State, Micro extraction a miniaturized green technique of sample preparation, on 19-20 March, 2015, Bhilai Institute of Technology, Durg. 4. International seminar, on utilization of non-conventional energy sources for sustainable development of rural areas, Colorimetric determination of bismuth in coal mines water of Chhattisgarh, India 21-22 March, 2015, Parthivi College of Engg. And Management, Bhilai.
3	DR. SHYAMA PRASAD MAHAPATRA	01	3 rd International Conference on Innovative Approach in Applied Physical, Mathematical/Statistical, Chemical Sciences for Sustainable Development, Jawaharlal Nehru University, New Delhi, 27-28 September 2014
4	DR.(MRS.) TUNGABIDYA MAHARANA	02	<ol style="list-style-type: none"> 1. International Conference MG University, Kerala, India, 10-12, April, 2015 2. International Conference on Innovative Applications of Chemistry in Pharmacology & Technology (IC-IACPT-2015), at Berhampur, Odisha,

			6 th Feb, 2015 to 8 th Feb, 2015
5	Dr. SANTHOSH PENTA	02	1. International Conference On Status of Science & Technology in Chhattisgarh State, held during March 19-20, 2015, Bhilai Institute of Technology, Durg. 2. 2nd Annual International Conference & Industry-CCRS Congress 2014, held at Andhra University, Vishakhapatnam on December 13th - 14th 2014

Seminar/Workshops/Conferences/Short term Courses Organized (National)

Sr. No.	Name of the Programme	Name of Key Speaker	Date of the Programme
	Dr.(Mrs.) F. Khan		
1.	National Level Short Term Training Program me on Recent Trends in Heterocyclic Compounds and Material Science.	Dr. Kamaludddin	26 to 30 May 2014 organized by (Dr.(Mrs.) F. Khan)
2.	National Level Short Term Training Programme on Nano-Materials: Characterizations and Applications (NCA-2014),	Prof. (Dr.) D. K. Tripathy	1 to 5 Dec 2014 organized)
	Dr.(Mrs.) K. Tapadia		
1	BARC Outreach Programme	Dr BN Jagatap	23 rd September 2014
	Dr. S. P. Mahapatra		
1	STTP on Recent Trends in Heterocyclic Compounds and Material Science	Prof. (Dr.) Kamaludddin	26 to 30 May 2014 organized by, Dr. S. P. Mahapatra (Co-Ordinator)
2	STTP on Nanomaterials: Characterizations and Applications	Prof. (Dr.) D. K. Tripathy	1-5 December 2015, organized by, Dr. S. P. Mahapatra (Co-Ordinator)
	Dr.(Mrs.) T. Maharana		
1	BARC Outreach Programme	Dr BN Jagatap	23 rd September 2014
2	STTP on Recent Trends in Heterocyclic Compounds and Material Science NIT Raipur	Dr Kamallauddin	26-30 May 2014
	Dr. SANTHOSH PENTA		

1.	National Level Short Term Training Program me on Recent Trends in Heterocyclic Compounds and Material Science.	Dr. Kamaludddin	26 to 30 May 2014 organized by (Dr.(Mrs.) F. Khan)
2.	National Level Short Term Training Programme on Nano-Materials: Characterizations and Applications (NCA-2014),	Prof. (Dr.) D. K. Tripathy	1 to 5 Dec 2014 organized)
3.	BARC Outreach Programme	Dr B.N Jagatap	23 rd September 2014

Publications (National)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. SANTHOSH PENTA	1. Tewodros. B. A, Santhosh Penta and Rajeswar Rao Vedula One pot synthesis of 4-(arylidene)-2-[5-(4-hydroxy-6-methyl-2-oxo-2H-pyran-3-yl)-thiazol-2-yl]-5-methyl-2,4-dihydro-pyrazol-3-ones via multi-component approach. Indian Journal of Chemistry-2014, 53B, 1242-1246	August 2014

Publications (International)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1.	DR.(MRS.) FAHMIDA KHAN	1.Amarpreet Kour Bhatia and Fahmida Khan. "PH-Dependent Interactions between Copper (II) and Biomass in the Biosorption Process for removal of copper (II) from water", International Proceedings of economics Development and Research, DOI: 10.7763/IPEDR.2014. V75.2, pp 6.ISSN NO- 2010-4626 2.Kajal Sao, F. Khan, Piyush Kant Pandey and Madhurima Pandey, "A Review on Heavy Metals Uptake by Plants through Biosorption", International Proceedings of economics Development and Research, DOI: 10.7763/IPEDR.2014. V75.2, pp 78. March 2014 ISSN NO- 2010-4626. 3.Kajal Sao, Madhurima Pandey , Piyush Kant	March 2014 March 2014 October 2014

		<p>Pandey and F. Khan ,” Biosorption of Ni(II) ions from Electroplating Industrial Effluent Using <i>Tinospora Cardifloia</i> Biomass.” <i>Journal of civil and Environmental Research</i>, Vol. 6, 10 (2014) Oct. pages 91-100, ISSN NO - 2224-5790.</p> <p>4. Amarpreet Kour Bhatia and Fahmida Khan. “Kinetic and Isothermal Studies for Removal of Zn (II) Ions from Aqueous Solutions by Using <i>Lawsonia inermis</i> as a Novel Biosorbent”. <i>Advances in Research</i>, 2(12): Dec 2014, Article no. AIR.2014.12.025. PP1003-1016. NO – 2348-0394</p> <p>5. Amarpreet Kour Bhatia and Fahmida Khan. “Biosorptive removal of Copper (II) ion from aqueous solution using <i>Lawsonia Inermis</i> plant leaf biomass” <i>Journal of Environment and Earth Science</i> 5(5), 2015, March.</p>	
2.	DR.(MRS.) KAVITA TAPADIA	<p>1.Ashima Sharma, Kavita Tapadia, Rubina Sahin, Sufactant assisted nanodrop spectrophotometer determination of iron (III) in a single drop of food, biological and environmental samples <i>J of A. Spectro</i>, Vol, 82, No-6,-2015)</p> <p>2. Rubina Sahin, Kavita Tapadia, Hydrochemistry and Groundwater Quality Assessment of Dantewada District, Chhattisgarh, India, <i>J of Envir. And Earth Sci.</i>,39-44,Vol.4, No. 16, 2014.</p>	
3	DR. SHYAMA PRASAD MAHAPATRA	<p>S. K. Tiwari, B. P. Sahoo and S. P. Mahapatra (Corresponding Author) Physico-mechanical and dynamic mechanical studies of nano-graphite reinforced chlorobutyl nanocomposites, Plastics, Rubber and Composites: Macromolecular Engineering, 43 (5), 145-153, June 2014. DOI 10.1179/1743289814Y.0000000076.</p> <p>S. K. Tiwari, R. N. P. Choudhary, S. P. Mahapatra (Corresponding Author), Dynamic mechanical and dielectric relaxation studies of chlorobutyl elastomer nanocomposites: effect of nano-graphite loading and temperature, High Performance Polymers Journal, (Published Online) 1-14, August 2014, DOI: 10.1177/0954008314545137.</p> <p>Morphology, Mechanical and Dynamic Mechanical Studies of Silicon Elastomer Nanocomposites, Journal of Basic and Applied Engineering Research, 1(9), October 2014, 33-38. (ISSN: 2350-0255).</p>	<p>June 2014</p> <p>August 2014</p> <p>October 2014</p> <p>February 2015</p> <p>March 2015</p>

		<p>J. Saji, A. Khare and S. P. Mahapatra (Corresponding Author) Relaxation behavior of nano-graphite reinforced silicon elastomer nanocomposites, High Performance Polymers Journal, (Published Online), 1-11, February 2015.</p> <p>J. Saji, A. Khare and S. P. Mahapatra (Corresponding Author) Impedance and dielectric spectroscopy of nano-graphite reinforced silicon elastomer nanocomposites, Fibers and Polymers, 16 (4) 883-893, 2015. DOI 10.1007/s12221-015-0883-2</p>	
4	DR (MRS) TUNGABIDYA MAHARANA	<p>1. Anita Routaray, Nibedita Nath, Tungabidya Maharana & Alekha kumar Sutar (2015) Synthesis and Immortal ROP of L-Lactide Using Copper Complex, Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, 52:6, 444-453.</p> <p>2. Anita Routaray, Nibedita Nath, Somanath Mantri, Tungabidya Maharana, Alekha Kumar Sutar; Synthesis and structural studies of copper(II) complex supported by –ONNO–tetradentate ligand: Efficient catalyst for the ring-opening polymerization of lactide; Chinese Journal of Catalysis; 36(2015)0–0.</p>	
5	Dr. SANTHOSH PENTA	<p>A facile synthesis of aryl substituted hydrazonopyrazolyl[1,2,4]triazolo[3,4-b][1,3,4][thiadiazol]coumarin Derivatives , Archi Sharma, Gudala Satish and Santhosh Penta, Journal of Heterocyclic Chemistry-2014 (Accepted)</p>	

Consultancy Projects

Sr. No.	Faculty	Consultancy Details	Date (From 1-04-2014 to 31-03-2015)
1.	DR (MRS) TUNGABIDYA MAHARANA	DrG Welness Pvt. Ltd. Delhi	1 st Dec 2013 to 31 st Nov 2014

Research Projects

Sr. No.	Faculty	Research Details	Date (From 1-04-2014 to 31-03-2015)
1	DR. (MRS.) FAHMIDA KHAN	Oxalaohydroxamic acid as a partitioning agent in PUREX process of Nuclear fuel Reprocessing, Chhattisgarh Council of Science & Technology	22/12/2012 To 22/12/2015
2	DR.(MRS.) KAVITA TAPADIA	(a) Project entitled “Analytical studies of fluoride concentration and its removal from groundwater of Bastar region, INDIA”	(2014-16

		for a period of three years (2014-16) Funding by WSSO, (Rs.18.56 Lacs) as Principle Investigator. (b) Project entitled "Micro extraction analysis of toxicants in a single drop of environmental and biological sample. for a period of two years (2012-15), Funding by Chhattisgarh Council of Science and Technology (Rs. 1.84 Lacs), as Principle Investigator.	(2012-15),
3	DR. SHYAMA PRASAD MAHAPATRA	Preparation and Characterization of Microcellular Elastomer Nanocomposites for Packaging and Semi-Conducting Application	2011-2014
4	DR (MRS) TUNGABIDYA MAHARANA	1 DST sponsored project	2014 & 2017
		1 CSIR sponsored project	2012 & 2015
		1 CSIR sponsored project	2013 & 2016
5	Dr. SANTHOSH PENTA	Design and synthesis of novel potent heterocyclic compounds and their biological evaluation-Sponsored by C Cost, CG	2014-2017

Books Publications

Sr. No.	Faculty	Books Details	Date (From 1-04-2014 to 31-03-2015)
1	DR (MRS) TUNGABIDYA MAHARANA	3 Book chapters in Advanced Materials Book Series published by WILEY- Scrivener, USA	Accepted in 2014

Brief details of Important Lab with Photographs

a. I and II semester B. Tech Lab Environment ecology and Applied Chemistry



B. Research Laboratory



Millipore water purifier system



UV-Visible Spectrophotometer



Atomic absorption spectroscopy

14. Institute-Industry Collaboration (2014-2015): Nil

Sr. No.	Collaborating Institute/Organization	Area of Collaboration	Collaboration Activities
1	Agilent Technologies & Netzsch Technologies	To conduct Short Term Training Program	STTP on Nanomaterials: Characterizations and Applications, 1-5 December 2014, NIT Raipur

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Faculty

Sr. No.	Name of Faculty	Designation	Qualification
1.	Dr. N K Nagwani	Assistant Professor	PhD
2.	Mr. D S Sisodia	Assistant Professor	M.Tech. ,PhD(Pursuing)
3.	Dr. Pradeep Singh	Assistant Professor	M.Tech.,PhD
4.	Dr. Manu Vardhan	Assistant Professor	PhD
5.	Miss. Aakanksha Sharaff	Assistant Professor (on contract)	M. Tech., PhD(Pursuing)
6.	Miss. Veena Anand	Assistant Professor (on contract)	M. Tech., PhD(Pursuing)
7.	Mr. Jasraj Meena	Assistant Professor (on contract)	M. Tech., PhD(Pursuing)

Doctoral Thesis Completed Only (PhD) (From 1-04-2014 to 31-03-2015)

Sr.No.	Name of Supervisor	Name of Scholar	Title of Thesis
01	Dr. Shrish Verma	Mr. Pradeep Singh	Investigation of data mining techniques on software repositories for fault prediction.

Seminar/workshop/Conferences/Short term Courses (National)

Sr. No	Faculty	Attendant	Date (From 1-04-2014 to 31-03-2015)
1.	Mr. Pradeep Singh	<ul style="list-style-type: none"> SERB Sponsored 1st summer school on robotics 	7 th June 2014 to 13 June 2014
2.	Miss. Aakanksha Sharaff	<ul style="list-style-type: none"> Faculty Induction Training Phase-I (UNDER TEQIP-II) at NIT Raipur. 	2- 13 June 2014
3.	Miss. Veena Anand	<ul style="list-style-type: none"> Faculty Induction Training Phase-I (UNDER TEQIP-II) at NIT Raipur. 	2- 13 June 2014
4.	Mr. Jasraj Meena	<ul style="list-style-type: none"> MATLAB & Simulink for Engineering Education, Taj Gateway Raipur 24 Feb. 2015 Short Term Training Programme on Cloud Computing, MANIT Bhopal 28-29, March 2015 Architecting Software for the Cloud, an online course on Building Cloud based Applications, Knowledge Incubation for Technical Education Quality Improvement Program IIT, Kanpur Aug.-Sept. 2014 	24 Feb. 2015 28-29, March 2015 Aug.- Sept. 2014

Seminar/Workshops/Conferences/Short term Courses (International)

Sr. No.	Faculty	Attendant	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. N K Nagwani	<ul style="list-style-type: none"> Mridu Sahu, N.K.Nagwani, ShrishVerma, Saransh Shirke, "Finding Non Dominant Electrodes Placed in Electroencephalography for Eye State Classification using Rule Mining", International Conference on Knowledge Engineering, Singapore, Singapore, 2015. Naresh Kumar Nagwani and Shrish Verma, "Discussing Possible Scenarios for Discovering Association Rules in Distributed Environment", Presented at University of London Union, London, UK, the same paper is also published in Academic Journal of Science, 04(01):271-276 (2015). 	<p>3-Nov-2014 to 7-Nov 2014</p> <p>Feb 2015</p>
2	Miss Aakanksha Sharaff and Dr. N K Nagwani	<ul style="list-style-type: none"> Aakanksha Sharaff, Naresh Kumar Nagwani and Kunal Swami, "Impact of Feature Selection Technique on Email Classification", International Conference on Knowledge Engineering, Singapore, Singapore, 2015. 	2-3 Feb 2015
3.	Mr. D S Sisodia	<ul style="list-style-type: none"> International conference on Computer, Software Engineering and Applications (ICCSEA 2015), Madrid, Spain 	26-27 March 2015
4.	Mr. Pradeep Singh	<ul style="list-style-type: none"> XIII International Conference on Computer Science, Engineering and Applications, 26-27 March 2015(ICCSEA 2015 Madrid, Spain) 	26-27 March 2015
5.	Dr. Manu Vardhan	<ul style="list-style-type: none"> ACCN 2015, Bangkok Thailand 	19-02-15 to 23-02-15
6.	Miss. Aakanksha Sharaff	<ul style="list-style-type: none"> International Conference on Knowledge Engineering (ICKE 2015) at Singapore. 	2-3 Feb 2015
7.	Miss. Veena Anand	<ul style="list-style-type: none"> Veena Anand , "Evaluating the Performance of Manet Protocols considering various parameters", Proceedings of Fourteenth TheIIER International Conference, Paris, France, 	8th March 2015
8.	Dr. Manu Vardhan and Mr. Jasraj Meena	<ul style="list-style-type: none"> Jasraj Meena, Malay Kumar and Manu vardhan, "Efficient Utilization of Commodity Computers in Academic Institutes: A Cloud Computing Approach", XIII International Conference on Computer Science, Information System and Communication Technologies London, Vol 9, no 2, 16-17 Feb., 2015. 	16-17 Feb., 2015.

Publications (National)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1.	Mr. Pradeep Singh	<ul style="list-style-type: none"> SERB Sponsored 1st Summer School on Robotics 	7 th June 2014 to 13 June 2014
2.	Miss. Veena Anand	<ul style="list-style-type: none"> Faculty Induction Training Program Phase-I , NIT Raipur. 	02-13 June 2014
3.	Mr. Jasraj Meena	<ul style="list-style-type: none"> Architecting Software for the Cloud, an online course on Building Cloud based Applications, Knowledge Incubation for Technical Education Quality Improvement Program IIT, Kanpur Aug.-Sept. 2014 	Aug.- Sept. 2014

Publications (International)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. N K Nagwani	<ul style="list-style-type: none"> Naresh Kumar Nagwani, Shrish Verma, and Kesari Verma,"On Visualizing the Price Distribution Information of Rice and Wheat across India", IJERST, 2015. Naresh Kumar Nagwani and Shrish Verma, "Discussing Possible Scenarios for Discovering Association Rules in Distributed Environment", Presented at University of London Union, London, UK, the same paper is also published in Academic Journal of Science, 04(01):271-276 (2015). 	Feb 2015 Nov 2014
2.	Mr. D S Sisodia	<ul style="list-style-type: none"> Dilip Singh Sisodia, Shrish Verma, Om Prakash Vyas. A Comparative Analysis of Browsing Behavior of Human Visitors and Automatic Software Agents. American Journal of Systems and Software. 2015; 3(2):31-35. doi: 10.12691/ajss-3-2-1. Sisodia, D.S, Verma, S. and Vyas, O. (2015) Agglomerative Approach for Identification and Elimination of Web Robots from Web Server Logs to Extract Knowledge about Actual Visitors. Journal of Data Analysis and Information Processing, 3, 1-10. doi: 10.4236/jdaip.2015.31001 	30 March 2015 Feb 2015

3.	Mr. Pradeep Singh	<ul style="list-style-type: none"> Singh pradeep , shrish verma and O.P. Vyas “Software fault prediction at design phase” journal of electrical engineering and technology 9.5(2014):1739-1745 	28 March 2014
4.	Miss Aakanksha Sharaff	<ul style="list-style-type: none"> Aakanksha Sharaff and Dr. N.K. Nagwani, Impact of Feature Selection Technique on Email Classification, International Conference on Knowledge Engineering (ICKE 2015), Singapore, February, 2015. Swati Soni and Aakanksha Sharaff, “Sentiment Analysis of Customer Reviews based on Hidden Markov Model”, Proceedings of the 2015 ACM International Conference on Advanced Research in Computer Science Engineering & Technology (ICARCSET 2015)ACM New York, NY, USA, March, 2015. 	2-3 Feb 2015 March 2015
5.	Miss. Veena Anand	<ul style="list-style-type: none"> Suyash Kandle, Veena Anand,” A Novel Cyclic-Lower-Upper-Rectangular (CLUR) Cryptography Method”, International Journal of Engineering Research & Technology, Vol. 3 (November - 2014), 329- 335. Suyash Kandle, Veena Anand,” A Novel Square-Expanded-Matrix-Rotation (SEMR) Cryptography Method”, International Journal of Engineering Research & Technology, Vol. 4 (April - 2015), 1366-1378. 	Nov 2014 April-2015

Research Projects

Sr. No.	Faculty	Research Details	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. N K Nagwani	<ul style="list-style-type: none"> “Predictive and Visual Analysis of the Price Distribution Information of Rice and Wheat across India” for Rs. 4.5 Lakhs, sponsored by CCOST, Raipur, Chhattisgarh. 	December, 2013-present on going

2.	Mr. Pradeep Singh	<ul style="list-style-type: none"> “Development of a comprehensive model for software fault prediction” (5 Lakhs) 	December, 2013-present on going
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Brief details of important lab with photographs.

C-Programming Lab	Visual Basic Programming Lab
Data structure Lab	Object Oriented Programming Lab
Operating System Lab	Data Base Management System Lab
Analysis & Design of Algorithms Lab	Computer Network & Network Programming Lab
Computer Graphics & Multimedia Lab	Unix & Shell Programming Lab
Data Mining & Ware Housing Lab	Software Technology Lab



DEPARTMENT OF CIVIL ENGINEERING**Faculty**

Sr. No.	Name of the Faculty	Designation	Qualification
1	Dr. R. K. Tripathi	Professor and Head	B. E., M. Tech., Ph. D.
2	Dr. M. K. Verma	Professor	B. E., M. Tech., Ph. D.
3	Dr. U. K. Dewangan	Professor	B. E., M. E., Ph. D.
4	Dr. Gangadhar Ramtekkar	Professor	B. E., M. E., Ph. D.
5	Dr. Samir Bajpai	Professor	B. E., M. E., Ph D
6	Prof. Ajay Vikram Ahirwar	Assistant Professor	B. E., M Tech. PhD (Pursuing)
7	Dr. Shirish V Deo	Assistant Professor	B. E., M. E., Ph. D.
8	Dr. Laxmikant Yadu	Assistant Professor	B. E., M Tech. PhD
9	Prof. Ishtiyag Ahmad	Assistant Professor	B.E., M.Tech., Ph. D. (Pursuing)
10	Prof. Mani Kant Verma	Assistant Professor	M.E. (WREE), PhD (Pursuing)
11	Prof. Mohit Jaiswal	Assistant Professor	B. Tech., M Tech. PhD (Pursuing)
12	Dr. Meena Murmu	Assistant Professor	B. E., M Tech. PhD
13	Dr. Govardhan Bhat	Assistant Professor	B. E., M Tech.PhD
14	Prof. Sunny Deol G	Assistant Professor	B. Tech., M Tech. PhD (Pursuing)
15	Prof. Ansu Thomas	Assistant Professor	B. Tech., M Tech. PhD (Pursuing)
16	Prof. Kamal Sankar Patel	Assistant Professor	B. E., M Tech.
17	Prof. Bahuguna Dalaie	Assistant Professor	B. E., M Tech.
18	Prof. Prenana Agrawal	Assistant Professor	B. E.
19	Prof. Tripti Singh Rajput	Assistant Professor	B. E.
20	Prof. Kamlesh kumar Ratre	Assistant Professor	B. E., M Tech.
21	Prof. Bajrang Panigrahi	Assistant Professor	B. E.
22	Prof. Manju Sahu	Assistant Professor	B. E.
23	Prof. Nupur Kesharwani	Assistant Professor	B. E.

24	Prof.Samit Bhattacharya	Assistant Professor	B. E.
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Doctoral Thesis Completed Only (PhD) (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1	Dr. R.K. Tripathi	Laxmikant Yadu	Behaviour of Reinforced Granular Fill-Soft Soil System under Transverse Loading on Rigid Foundation: An Experimental and Numerical Study

4 M.Tech Thesis Completed Only (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1	Dr. (Prof.)M.K. Verma & Prof. Ishtiyag Ahmad	Manish Kumar Sinha	Vulnerability Assessment of Groundwater Contamination Using Drastic Model
2	Dr. (Prof.)M.K. Verma & Prof. Ishtiyag Ahmad	Neeraj Motlani	HydroPower Potential Computation For Reservoirs of Mahanadi Reservoir Project Complex Using "NIH_ReSyP"
3	Dr. (Prof.)M.K. Verma & Dr. (Prof.) R. K. Tripathi	Preeti Rajput	A standardized Precipitation Index Based Drought Analyss in Upper Sheonath Sub-Basin Using GIS
4	Dr. (Prof.)M.K. Verma & Prof. Ishtiyag Ahmad	Rajesh Dabral	Estimation of Crop and Irrigation Water Requirement using Water Evaluation and Planning Model For Raipur District
5	Dr. (Prof.)M.K. Verma & Prof. Ishtiyag Ahmad	Sanjeev Kumar Bhraria	Application of HEC-RAS with Geographical Information System for Flood Plain Mapping in Shivnath River of Chhattisgarh State

Seminar/ Workshops /Conferences/ Short term Courses (National)

Sr. No.	Faculty	Attended	Date (from 1-04-2014 to 31-03-2015)
1	Prof. Ajay Vikram Ahirwar	Workshop on "Collection Development of E-books in Libraries" Organized by Central Library, National Institute of Technology Raipur.	14th and 15th November 2014
2	Prof. Mani Kant Verma	Workshop on TSAA at NIT Patna	02-06-2014 to 06-06-2014
3	Prof. Mani Kant Verma	Workshop on Urban Flooding at IISC Bangalore	04-08-2014 to 09-08-2014
4	Prof. Mani Kant Verma	Workshop at NIH Roorkee	09-02-2015 to 13-02-2015
5	Dr. Govardhan	FDP at NITRaipur	02-06-2014 to 13-06-2014
6	Dr. Govardhan	TEQIP Training at IIM Raipur	23-03-2015 to 28-03-2015
7	Dr. Govardhan	Session Chair at NCKITE Raipur	10-04-2015 and 11-04-2015
8	Mohit Jaiswal	FDP at NITRaipur	02-06-2014 to 13-06-2014

Seminar/ Workshops /Conferences/ Short term Courses (International)

Sr. No.	Faculty	Attended	Date (from 1-04-2014 to 31-03-2015)
1	Prof. Ajay Vikram Ahirwar	Application of Curve Number Method for Estimation of Runoff Potential in GIS Environment", 2nd International Conference on Geological and Civil Engineering (ICGCE 2015), Dubai UAE,	10-11 Jan, 2015.
2	Prof. Ajay Vikram Ahirwar	HYDRO 2014 INTERNATIONAL, 19th International Conference on Hydraulics, Water Resources and Environmental Engineering,, MANIT, Bhopal, India.	Dec. 18th-20th, 2014
3	Prof. Ajay Vikram Ahirwar	International conference on Chemical, Biological and Environmental Engineering; "CEBS-2015", Dubai (UAE).	March 18-19, 2015
4	Prof. Ajay Vikram Ahirwar	International conference on Sustainable Development Organized by Tomorrow People Organization at Bangkok Thailand -	5th July to 7th July 2014.

5	Prof. Ajay Vikram Ahirwar	Workshop on "Academic Ethics and IPR" on Organized by National Institute of Technology Raipur and Chhattisgarh Council of Science and Technology, held at National Institute of Technology Raipur.	4th and 5th April 2014
6	Dr Shirish V. Deo	Internatinal conference on management, social Sciences, biology and pharmaceutical sciences, pattaya	15-12-2014 and 16-12-2014
7	Dr. L.K. Yadu	5th International Conference on Key Engineering Materials 2015 (ICKEM 2015), Singapore.	March 21-23, 2015
8	Ansu Thomas	Fourteenth theiier international conference, paris, france	8th march 2015

Publications (National)

	Faculty	Publication Details	Date (from 1-04-2014 to 31-03-2015)
	Dr. U. K. Dewangan	A Review on Structural Health Monitoring, BITCON 2015, Proceedings of national Conference, PP 640-645.	from 1-04-2014 to 31-03-2015
	Prof. Mani Kant Verma	National Conference BITCON 2015	from 1-04-2014 to 31-03-2015
	Dr. Govardhan, and Dr MeenaMurmu	Development of a Program for the Design of Steel Structure in Visual Basic, Journal of Structural Engineering and Management, 2014, 1(2), 11-16.	from 1-04-2014 to 31-03-2015

Publications(International)

Sr. No.	Faculty	Publication Details	Date (from 1-04-2014 to 31-03-2015)
1	Dr. Tripathi R.K	A study on Environmental impact of coal mining in Korba region of Chattishgarh State of India , in International conference on Chemical biological and environmental Sciences(ICCBES-2014) on 15-16 December 2014,Pattaya Thailand.	from 1-04-2014 to 31-03-2015
		"Non linear Vibration Analysis of Isotropic plate with Perpendicular Surface Cracks" , Advances in Structural Engineering, 2015,	from 1-04-2014

2	Dr. G.D. Gangadhar	pp-77-94.	to 31-03-2015
3	Dr. G.D. Gangadhar	Review Paper: Problem Identification in Concrete & proposed Model for producing Concrete, International Journal of Research in Advent Technology, Vol.2, No.5, May 2014 E-ISSN: 2321-9637. Impact Factor 0.765	from 1-04-2014 to 31-03-2015
4	Dr. G.D. Gangadhar	Analytical Modelling for vibration Analysis of partially cracked orthotropic rectangular plates. European journal of Mechanics A/Solids 50(2015) pp-100-11.	from 1-04-2014 to 31-03-2015
5	Dr. G.D. Gangadhar	Analytical Modelling for vibration analysis of thin rectangular orthotropic/functionally graded plates with an internal crack, Journal of sound and Vibration.3(2015)34, pp.377-398.	from 1-04-2014 to 31-03-2015
6	Dr. G.D. Gangadhar	Effect of thermal environment on free vibration of cracked rectangular plate:an analytical approach, Thin walled structures (2015),91, pp.38-49.	from 1-04-2014 to 31-03-2015
7	Dr. G.D. Gangadhar	Reducing the life cycle cost of reinforced concrete structures by using fiber in concrete	from 1-04-2014 to 31-03-2015
8	Dr. G.D. Gangadhar	Analytical modeling and vibration analysis of internally cracked rectangular plates, Journal of sound and Vibration.33, pp.5831-5864.	from 1-04-2014 to 31-03-2015
9	Dr. G.D. Gangadhar	Non linear vibration analysis of isotropic plate with perpendicular surface crack, SEC-2014,IIT Delhi.	from 1-04-2014 to 31-03-2015
9	Dr. Bajpai S.	A Reduction in Environmental Degradation and Disaster Vulnerability through Sustainable Urban Planning" Proceedings of international conference, Sustainable Development Conference 2014" Tomorrow People Organization, pp 16-23. (ISSN: 978-86-87043-23-7)	from 1-04-2014 to 31-03-2015

10	Dr. Bajpai S. and Prof. Ahirwar A. V.	Valuation of Buildings with Greenness Perspective". The XXV FIG International Congress 2014 "Engaging the Challenges, Enhancing the Relevance, Kuala Lumpur, Malaysia 16-21 June, 2014.	from 1-04-2014 to 31-03-2015
11	Dr. Bajpai S.	Modeling Sustainable Building Construction for Optimal Use of Natural Resources, Seventh International Conference on Environmental Science and Technology 2014 , (June 9-13, 2014). American Academy of Sciences, Houston, Texas 77036, USA.	from 1-04-2014 to 31-03-2015
12	Dr. Bajpai S. and Prof. Ahirwar A. V.	Assessment of Noise Pollution during Deepawali Festival in Raipur City of Chhattisgarh, India" Proceedings of international conference, "CEBS-2015" International Institute of Chemical, Biological and Environmental Engineering - IICBE, pp 105-107. (ISBN: 978-93-84422-11-0)	from 1-04-2014 to 31-03-2015
13	Dr. L.K. Yadu	Response of circular footing by varying the vertical spacing of reinforcement resting on structural fill, International Journal of Innovative Research in Science Engineering and Technology, Volume-3, Issue-9, pp 16294-16299	from 1-04-2014 to 31-03-2015
14	Dr .Shirish Deo	"Mix design approach for high 28 days' strength, high volume, low lime fly ash concrete" Road Materials and Pavement Design, DOI: 10.1080/14680629.2015.1026381, pp-1-9.	from 1-04-2014 to 31-03-2015
15	Dr .Shirish Deo	Parametric Study for Replacement of Sand by Fly Ash for Better Packing and Internal Curing" Open Journal of Civil Engineering, Vol-5, pp-118-130, 2015.	from 1-04-2014 to 31-03-2015
16	Dr .Shirish Deo	Estimating the concrete compressive strength using hard clustering and fuzzy clustering based regression techniques", The Scientific world journal, vol 2014, Article ID 381549, 16 pages, 2014. Doi:10.1155/2014/381549	from 1-04-2014 to 31-03-2015
17	Dr .Shirish Deo	Earthquake risk reduction development and disaster management programme in India", International journal for scientific research and development, Vol-2, Issue-11, Jan 2015, pp-258-272	from 1-04-2014 to 31-03-2015

18	Dr .Shirish Deo	Reducing the Life Cycle Cost of Reinforced Concrete Structures by Using Fiber in Concrete", i-manager's Journal on Civil Engineering, Volume: 4 No. 3 Issue : Jun-Aug 2014 pp- 1-9	from 1-04-2014 to 31-03-2015
19	Dr .Shirish Deo	A Review on Seismic Performance and Design of High Rise Building" Proceedings of International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014) December 12-14, 2014, MNNIT Allahabad, India, papar id- RTCCE-14/57	from 1-04-2014 to 31-03-2015
20	Dr .Shirish Deo	Parametric Study of Glass Fibre Reinforced Concrete", Proceedings of the International Conference on Chemical, Biological and Environmental Sciences (ICCBSE 2014), 15-16 December 2014, Pattaya, pp-70-72	from 1-04-2014 to 31-03-2015
21	Dr. L.K. Yadu	Response of Circular Footing on New Key Engineering Material - Granulated Blast Furnace Slag as Structural Fill, 5th International Conference on Key Engineering Materials 2015 (ICKEM 2015), March 21-23, 2015, Singapore	from 1-04-2014 to 31-03-2015
22	Prof. Ishtiyag Ahmad	DEM Development using Geographic Information System for Topographic Assessment", Journal of Water Resource Engineering and Management ISSN: 2349-4336 (online) Volume 1, Issue 3, 2014.	from 1-04-2014 to 31-03-2015
23	Prof. Ishtiyag Ahmad	VivekVerma&Ishtiyag Ahmad, "Application of GIS in Developing Digital Elevation Model", International Journal of Scientific Research & Progress (IJSPR) ISSN: 2349-4689 (online) Volume 05, Number 01, 2014.	from 1-04-2014 to 31-03-2015
24	Prof. Ishtiyag Ahmad	JainendraVishwakarma, M.K. Verma&Ishtiyag Ahmad, "Application of Remote Sensing and GIS in Groundwater Prospect Mapping", International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Volume 03, Issue 10, October - 2014.	from 1-04-2014 to 31-03-2015
25	Dr. M. Murmu	Influence of mineral admixtures on strength and hydration products of lime-activated slag cement, Advances in Cement Research, 2014, 26(1), 1-10.	from 1-04-2014 to 31-03-2015
26	Dr. M. Murmu	Strength Characteristics of Lime Activated Slag Cement, Advances in Cement Research,	from 1-04-2014 to 31-03-2015

		DOI: http://dx.doi.org/10.1608/adcr.13.00097 (2014).	
27	Dr. M. Murmu	Hydration Products, Morphology and Microstructure of Activated Slag Cement, International Journal of Concrete Structures and Materials, 2014, 8(1) , 61-68	from 1-04-2014 to 31-03-2015
28	Prof. Sunny Deol G	Prediction of 2D-Structural Deformation of Flexible Pavement using Artificial Neural Networks”, International Conference on Recent Trends and Challenges in Civil Engineering, December 12-14, 2014, MNNIT Allahabad, India.	from 1-04-2014 to 31-03-2015
29	Prof. Sunny Deol G	A Novel Freight Traffic Forecasting Algorithm using Econometric Modeling as per IRC Guidelines”, International Conference on Recent Trends and Challenges in Civil Engineering, December 12-14, 2014, MNNIT Allahabad, India.	from 1-04-2014 to 31-03-2015
30	Prof. Sunny Deol G	Accelerated Safety Evaluation Technique for Road Intersection in Indian Scenario”, International Conference on Recent Trends and Challenges in Civil Engineering, December 12-14, 2014, MNNIT Allahabad, India.	from 1-04-2014 to 31-03-2015
31	Ansu Thomas	Dynamic soil-structure interaction studies on 275m tall RC chimneywith openings, "Earthquakes and Structures, An International Journal."Technopress publications. , July 2014	from 1-04-2014 to 31-03-2015
32	Ansu Thomas	Effect of flyash on the engineering properties of soil, Proceedings of fourteenth Theiier international conference, paris, france, 8th march 2015, ISBN: 978-93-82702-72-6, pp 38-40	from 1-04-2014 to 31-03-2015

Research Projects

Sr. No.	Faculty	Research Details	Date (from 1-04-2014 to 31-03-2015)
	Dr. Tripathi R.K &	Construction of Low Volume Roads on Soft Subgrade Soil Imporved by Locally Available Marginal Materials” Funded by Human Settlement Managment Institute - Housing and Urban Development Corporation (HSMI-HUDCO), New	

1	Dr L K Yadu	Delhi for two year of Amount 25.0 Lakhs	2/1/2014 to till date
2	Dr. Tripathi R.K & Dr L K Yadu	“Improving soft subgrade for the construction of low volume roads using locally available materials” Sponsored by Chhattisgarh Council of Science and Technology, Government of Chhattisgarh for two years of Amount 2.0 Lacs	(on going - Awarded in March 2012)

13 Brief details of Important Lab with Photographs

Following laboratories, well equipped with conventional and state of art instruments, are available for academic, research, testing and consultancy.

CONCRETE LABORATORY

Concrete laboratory of the Civil Engineering Department is state of the art and advanced concrete testing and mix designing facility. Our lab follows unbiased rigorous quality assurance / quality control policies and procedures to ensure the integrity of the scientific data on which decisions are based. Department provide professional recommendations based on their experience and knowledge of the properties and composition of the different materials used in construction.

Scope of Services

Material Sampling, Testing & Analysis

Aggregates	Bricks	Concrete	Cements testing
<ul style="list-style-type: none"> • Particle Size • Analysis • Specific gravity • Shape of • aggregate • Crushing • Strength • Impact strength <p>Absorption</p>	<ul style="list-style-type: none"> • Strength • Absorption • Dimensions 	<ul style="list-style-type: none"> • Mix Design & • Verification • Compressive & Flexural Strength • testing • Concrete Core • Samples & Testing • Rheology, Shrinkage <p>and Durability test</p>	<ul style="list-style-type: none"> • Standard • consistency • Initial & Final • setting time • Strength • fineness



Major facilities:

- Concrete Rheology Meter (First in the region): For better understanding of fresh concrete properties.
- Early Shrinkage Meter (First in the region): For better understanding Shrinkage of various cementitious materials and concrete under local hot conditions.
- Electrical resistivity Meter (First in the region): For better understanding of concrete durability under various conditions.

Carbonation Chamber (First in the region): For understanding behavior of concrete in local industrial region.

Ultrasonic Pulse velocity meter, Rebar Locator, Rebound Hammer and many more

ENVIRONMENTAL ENGINEERING LABORATORY

Testing and consultancy services provided in the distinct areas of

- Measurement of various parameters for water, wastewater, soil, sludge, and air samples
- Ambient air monitoring
- Environmental management
- Wastewater treatment plant performance monitoring
- Design and monitoring of water and wastewater treatment plants
- Solid waste management
- Design of water distribution system
- Design of sewerage system
- Design of decentralized wastewater treatment systems
- EIA Studies

For more information: please refer to: <http://www.nitr.ac.in/dept-civil.php?dept=Laboratories>

The Environmental Engineering Laboratory in the Department of Civil Engineering is established to provide the needed resources to enhance the research activities of Environmental Engineering Group. The laboratory is equipped with modern equipment to carry out the research related to Water quality, Noise and Air Pollution.

State of Art Equipment

Water/Waste Water/ Soil/sludge
Analysis

- Atomic Absorption Spectrophotometer
- UV-VIS Spectrophotometer
- BOD Incubator
- COD Reactor
- Kjeldahl Digestion Unit
- Soxhelt Extraction Unit

Noise Pollution Monitoring



- ✚ Sound Level Meter



Air Pollution Monitoring

- ✚ OC/EC Analyzer (RT-4)
- ✚ Aethalometer (AE-33-7)
- ✚ Respirable Dust Sampler
- ✚ PM2.5 and PM10 Sampler
- ✚ High Volume Sampler
- ✚ Stack Monitoring Kit
- ✚ Air Sampler (Personal Sampler for Workers Exposure.
- ✚ Digital Anaemometer

✚ Fluid Mechanics Engineering Laboratory

Testing and consultancy services provided in the following areas:

- ✚ Pipe pressure and leakage testing
- ✚ Pumping system Performance
- ✚ Turbines Performance
- ✚ Risk Assessment
- ✚ Analysis and Design of Water Distribution Network
- ✚ Design of Storm water drainage system
- ✚ Urban Planning for sewerage system of a city
- ✚ Reservoir operation
- ✚ Statistical Hydrology



List of Equipment in Fluid Mechanics Engineering Laboratory

- ✚ Metacentric Height Apparatus
- ✚ Hydrostatic Pressure Apparatus
- ✚ Energy Losses In Pipes
- ✚ Reynolds No. Apparatus
- ✚ Energy Losses In Bends
- ✚ Cavitation Apparatus
- ✚ Dead Weight Pressure Gauge Tester
- ✚ Free And Force Vortex Apparatus
- ✚ Centrifugal Pump Test Rig
- ✚ Centrifugal Pump Test Rig(Variable Speed)
- ✚ Bernoulli's Apparatus
- ✚ Pitot Static Tube Apparatus
- ✚ Reciprocating Pump Rig
- ✚ Francis Turbine
- ✚ Pelton Wheel



Tilting Flume



Notches & Weirs

Fixed Bed Channel

GEOTECHNICAL ENGINEERING LABORATORY

Testing and consultancy services provided in the distinct areas of

Material characterization: Soil, Rock, Geosynthetics etc. Soil exploration and investigation

Foundation recommendation based on bearing capacity and site investigation report

Shallow and deep foundation design.

Geotechnology for roads, railways and runways

Slope stability analysis and design.

Field plate and pile load test

Field standard and cone penetration test

Strengthening of existing foundations

Improvement of expansive/compressible soils

Dam foundations

Underground structures

Landfills

Stability of reinforced slopes

Seepage analysis

Design of filters











Design of ash dykes

For more information: please refer to:

<http://www.nitr.ac.in/department/civil/lab/geotec>
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State of Art Equipment

Soil Testing Equipment

-  Cyclic triaxial test with analysis software
-  Universal triaxial test with analysis software
-  Electronic direct shear test with analysis software
-  Unconfined compression test
-  Consolidation test equipment
-  Falling and constant head permeameter
-  Relative density test apparatus
-  Standard/modified Proctor compaction test apparatus
-  CBR Apparatus
-  Index and physical properties of soil



Geosynthetic Lab Testing Equipment

- ✚ Universal testing system for geotextiles
- ✚ Thickness Gauge for Geotextile/ Geosynthetic
- ✚ Dry Sieve test Apparatus
- ✚ Hydrodynamic Sieve Test Apparatus
- ✚ Interface Friction Measurement Apparatus
- ✚ Cone drop test Apparatus
- ✚ Cross permeability test apparatus In-Plane permeability test apparatus
- ✚ Long term Flow test apparatus
- ✚ Gradient Ratio test Apparatus
- ✚ Geotextile permeameter



Field Testing Equipment

- ✚ Plate Load Test
- ✚ Standard Penetration test
- ✚ Cone penetration test
- ✚ Field CBR Test



✚ STRUCTURAL LABORATORY

Testing and consultancy services provided in the distinct areas of

Analysis and design of various structures,
application of structural mechanics,

finite element analysis,

For more information: please refer to:

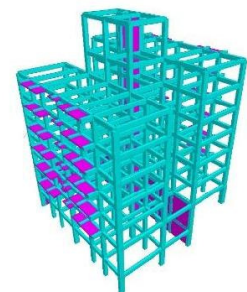
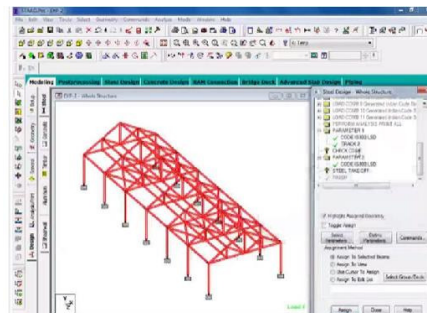
<http://www.nitr.ac.in/department/civil/laboratorie>
s

State of Art Equipment

STAAD Pro: Analysis and Design Software

Static Analysis

- ✚ Dynamic / Seismic Analysis
- ✚ Steel Design
- ✚ Concrete Design
- ✚ Model Generation



SURVEYING LABORATORY

Consultancy services provided in the distinct areas of

- Field Measurements
- Topographical Survey
- Route and Construction Survey
- Preparation of Contour Map
- Curve Setting

For more information: please refer to:

<http://www.nitr.ac.in/departement/civil/lab/survey>

The Surveying Laboratory is equipped with the instruments and tools that students use throughout the surveying course. Students learn techniques for gathering field data with both traditional and modern instruments and demonstrate their proficiency on weekly lab exercises and final exam. Each lab group - typically ten students - has a dedicated set of instruments to use, including Auto level, Digital Theodolite, Total station, Plane Table Surveying and other minor instruments.

State of Art Equipment

Total Station



 Digital Theodolite



Theodolite



Auto Level



Distance Meter



 Transportation Engineering Laboratory

Testing and consultancy services provided in the distinct areas of
Pavement material characterization: Aggregate, Bitumen etc.,
Bituminous mix design, Concrete Pavement design.

DEPARTMENT OF ELECTRICAL ENGINEERING**Faculty**

Sr. No.	Name of the Faculty	Designation	Qualification
1.	Dr. Shubhrata Gupta	Professor	Ph.D (Power Quality)
2.	Dr. A. S. Thoke	Visiting Faculty	Ph.D
3.	SUBHOJIT GHOSH	ASSISTANT PROFESSOR	PHD
4.	NARENDRA DIGAMBAR LONDHE	ASSISTANT PROFESSOR	PHD
5.	Dr. Vinay Pratap Singh	Asst. Prof.	Ph.D.
6.	P.D.Dewangan	Associate Professor, Electrical Engg.	B.E. (Electrical Engg.), M.Tech. (Integrated Power System)
7.	Varsha Singh	Assistant Professor	B.E, M.Tech.
8.	EBHA KOLEY	ASSISTANT PROFESSOR	Ph.D
9.	DR. (Mrs.) Monalisa Biswal	Assistant Professor	Ph.D
10.	LALIT KUMAR	ASSISTANT PROFESSOR	M. TECH (PHD PURSUING)

Doctoral Thesis Completed Only (PhD) (From 1-04-2014 to 31-03-2015) :-

Sr. No.	Name of the Supervisor	Name of the scholar	Title of the Thesis
1.	Dr. A. S. Thoke & Dr. A Yadav	Ms. Ebha Koley	Application of fSoft Computing techniques to fault detection, classification and distance location of six phase transmission lines.

M.Tech Thesis Completed Only (From 1-04-2014 to 31-03-2015) :-

Sr. No.	Name of the Supervisor	Name of the scholar	Title of the Thesis
1.	S. Gupta	Mrinmoy Bhattacharjee	Wireless sensor networks (paper attached)
2.	Dr. (Mrs.) Monalisa Biswal	Ritu Sori	Intrusion Detection System for Black hole Attack in Wireless Sensor Network using AODV Protocol
3.	Mr. LALIT KUMAR Mr. PAWAN KUMAR MISHRA	SUNIL KUMAR SAHU	REMOVING TRIANGLE ROUTING PROBLEM IN MOBILE IN BY USING ANT COLONY ALGORITHM.
4.	Varsha Singh	Mahendra Tyagi	A grid connected multilevel inverter topology with reduced number of switches to improve power quality using genetic algorithm, ANFIS and fuzzy techniques.
5.	Varsha Singh	Revendra	Dynamic Voltage Restorer with

		Kr.Dewangan	New Symmetrical Hybrid Cascade Multilevel Inverter using Fuzzy controller.
6.	Dr. Ebha Koley	Arvind Surya	Artificial Neural Network Based Versatile Relay Fault Distance Locator for Phase to Ground Faults
7.	Dr.EBHA KOLEY	Sunil ku. Gupta	Support Vector Machine Based Fault Classifier for Line to Line Fault in six phase transmission line.
8.	DR. SUBHOJIT GHOSH	Purnendu Srivastave	
9.	DR. SUBHOJIT GHOSH	Vishwadeepak Goyel	
10.	DR. NARENDRA D LONDHE	UMESH KUMAR VERMA	OFF LINE HANDWRITTEN CHARACTER RECOGNITION BASED ON MULTIPLE FEATURE EXTRACTION
11.	DR. NARENDRA D LONDHE	ABHINAV KUMAR VERMA	DIGITIZATION OF MEDICAL PRESCRIPTION USING OFFLINE HANDWRITTEN CHARACTER RECOGNITION
12.	DR. NARENDRA D LONDHE	YOGI KAPSE	ISOLATED HINDI WORD RECOGNITION USING HYBRID HMM-ANN MODEL
13.	Dr. Vinay Pratap Singh	Praveen Varshney	Tunneling based vertical handoff in wireless heterogeneous networks
14.	Dr. Vinay Pratap Singh	Rajesh Tiwari	IPM, An integrated prevention methodology for route request flooding attack in MANET
15.	Dr. Vinay Pratap Singh	Virendra Ahirwar	Efficient geographic routing by mobility based forwarding node selection and APU

Seminar Workshops Conferences Short term Courses (National) :-

Sr. No.	Faculty	Attended	Date (From 1.04.2014 to 31.03.2015)
1.	Mr. LALIT KUMAR	ONE WEEK SHORT TERM COURSE ON MODELING AND SIMULATION USING MATLAB	5/5/2014 TO 9/5/2014 AT MANIT, BHOPAL
2.	DR. SUBHOJIT GHOSH	Two days workshop on recent developments in power transmission & protection	18-19 September 2014

Seminar Workshops Conferences Short term Courses (International) :-

Sr. No.	Faculty	Attended	Date (From 1.04.2014 to 31.03.2015)
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1	Varsha Singh	IEEE conference(PIICON-2014) 2014, Delhi Technical University, New Delhi	5-7 dec 2014
2	Ebha Koley	Two days workshop on recent developments in power transmission & protection	18-19 September 2014

Seminar Workshops Conferences Short term Courses Organized (National) :-

Sr. No.	Name of the Programme	Name of Key Speaker	Date of Programme
1.	APPLICATION OF ADVANCED POWER ELECTRONIC AND ELECTRICAL DRIVES IN AC LOCOMOTIVES	Dr. Subhojit Ghosh Dr. shubrata Gupta Dr. N D LONDHE Dr. ANAMIKA YADAV Dr. EBHA KOLEY Mr. LALIT KUMAR	16/02/2015 TO 21/02/2015 AT ELECTRIC LOCOSHED BHILAI
2.	Railway	Dr. shubrata Gupta	16/02/2015 to 21/02/2015
3.	Applicaton of advanced power electronics to AC locomotives(SECR)	All Faculties of Electrical	16/02/2015 to 21/02/2015
4.	MATLAB and LabVIEW	DR. NARENDRA D LONDHE DR. MRS. ANAMIKA YADAV DR. SUBHOJIT GHOSH	28-30 th March 2014
5.	One week on “Applications of Advance Power Electronics and Electrical Drives in AC locomotives” Organized by Deptt. of Electrical Engg., NIT, Raipur at Electric Loco Shed, SECR, Bhilai (course coordinator)	Dr. S Ghosh Dr. L Kumar Dr. S. Gupta Dr. N D Londhe Dr. E Koley Dr. A Yadav	16-21 Feb, 2015
6.	MATLAB and LabVIEW	DR. NARENDRA D LONDHE DR. MRS. ANAMIKA YADAV DR. SUBHOJIT GHOSH	28-30 th March 2014
7.	National Ethical Hacking	TECH BHARAT CONSULTING	7 th and 8 th Oct 2014
8.	Basic Programmable Logic Circuits (PLC)	MS. RUHI KHAN (SIEMENS)	15th and 26th Dec 2014

Publications (International) :-

Sr. No.	Faculty	Publication Details	Date (From 1.04.2014 to 31.03.2015)
1.	Mr. Lalit Kumar	Multilevel Inverter Topologies with Reduced Device Count: A Review, IEEE TRANS. ON POWER ELECTRONICS	EARLY ACCESS
2.	Dr. A. S. Thoke et.al	(i) Dr. A. S. Thoke et.al Objective and Optical Evaluation of Despeckle Filters in Breast Ultrasound Images IETE . Technical Review, 16 pages,2015.DOI:1080/02564602.2015.1019943. (Taylors and Francis publication). (ii) A Dual Feature Selection Approach for Classification of Breast Tumors in Ultrasound Images Using ANN and SVM, CiiT International Journal of Artificial Intelligent Systems and Machine Learning, Vol, 7 No. 3, pp. 78-84, 2015 (iii) Investigations on impact of feature normalization techniques on classifier's performance in breast tumor classification, International Journal of Computer Applications, Vol. 116, No. 19, pp. 11-15,2015. (iv) Adaptive gradient descent back propagation for classification of breast tumors in ultrasound imaging, Procedia Computer Science (Elsevier Publication), Vol. 46, 2015, pp. 1601-1609, 2015. (v) Dr. A. S. Thoke et.al Review of Feature Selection Algorithms for Breast Cancer Ultrasound Image, New Trends in Intelligent Information and Database Systems, Studies in Computational Intelligence Volume 598, 2015. Pp 23-32. (vi) Ebha Koley, Anamika Yadav, Dr. A. S. Thoke, A New single ended), A new single – ended artificial neural network based protection scheme for shunt faults in six – phase transmission line. International Transaction on Electrical Energy Systems. 2014 (wiley) (vii) Artificial Neural Network Based Protection Scheme for one conductor open fault in six phase transmission line. International Journal of Computer Application 101 – No. 4 Sept 2014.	
3.	Varsha Singh	Topology Of Multilevel Inverter: A New Concept for Arrangement of DC Sources with Less Number of IGBT's pp.128-136, , 2014 ,Pune, INDIA.	Apr.01-02, 2014
4.	Varsha Singh	Voltage Level Increment by Proposed Sub-Cell for Existing Topologies,IEEE inovatives Smart Grid technology,ISGT-ASIA, Maleshia 548-553.	May11-13 , 2014
5.	Varsha Singh	New hybrid cascade multilevel inverter with less number of switches, IEEE conference-PIICON, New Delhi	Dec 5-7, 2014
6.	Varsha Singh	Dynamic Voltage Restorer with New Hybrid Cascade Multilevel Inverter using Fuzzy Controller, International Journal of Computer Applications (0975 – 8887) Volume 111 – No 7,	February 2015
7.	DR. SUBHOJIT	S. Kumar, S .Ghosh, S. Tetarway and R.K. Sinha, "Support vector machine and fuzzy C-	

	GHOSH	mean clustering-based comparative evaluation of changes in motor cortex electroencephalogram under chronic alcoholism”, Medical and Biological Engineering and Computing ,(DOI 10.1007/s11517-015-1264-0).	
8.	DR. SUBHOJIT GHOSH	Suraj, P. Tiwari, S. Ghosh and R. K. Sinha, Classification of Two Class Motor Imagery Tasks Using Hybrid GA-PSO Based K-Means Clustering, Computational Intelligence and Neuroscience (<i>in press</i>).	
9.	DR. SUBHOJIT GHOSH	R. K. Chaurasia, Narendra D Londhe, Subhojit Ghosh, "Statistical Wavelet Features, PCA and SVM based Approach for EEG Signals Classification," International Journal of Electrical, Computer, Electronics and Communication Engineering (WASET), Vol. 9(2), pp164-168, 2015.	
10.	DR. NARENDRA D LONDHE	Vinita Thawrani, Narendra D Londhe , Randeep Singh, "Crowdsourcing of Medical Data" IETE Technical Review, Vol. 31, No. 3, pp. 249-253, 2014.	
11.	DR. NARENDRA D LONDHE	R. K. Chaurasia, Narendra D Londhe, Subhojit Ghosh, "Statistical Wavelet Features, PCA and SVM based Approach for EEG Signals Classification," International Journal of Electrical, Computer, Electronics and Communication Engineering (WASET), Vol. 9(2), pp164-168, 2015.	
12.	Dr. Vinay Pratap Singh	Virendra Ahirwar, D. K. Kumar, and V. P. Singh, "Efficient Geographic Routing by Mobility Based Forwarding Node Selection and APU," IEEE 2nd INTERANTIONAL CONFERENCE ON KNOWLEDGE COLLABORATION IN ENGINEERING 2015, 27-28 March, 2015.	
13.	Dr. Vinay Pratap Singh	Rajesh Tiwari, D. K. Kumar, P. K. Mishra, and V. P. Singh, "Tunneling Based Vertical Handoff in Wireless Heterogeneous Networks," International Conference on Latest Trends in Engineering & Technology in Global R&D Sector 2015, 27-28 March, 2015.	
14.	Dr. Vinay Pratap Singh	Praveen Varshney, P. K. Mishra, Ashish Mishra, and V. P. Singh, "Tunneling Based Vertical Handoff in Wireless Heterogeneous Networks," IEEE International Conference on Devices, Circuits and Communications (ICDCCom), 12-13 Sept. 2014, pp. 1-5, 2014.	

Publications (National) :-

Sr. No.	Faculty	Publication Details	Date (From 1.04.2014 to 31.03.2015)
1.	Dr. (Mrs.) Monalisa Biswal	A Study on CCVT Subsidence Transients (Conference)	RAREC-2015 April 11th-12 th
2.	DR. SUBHOJIT GHOSH	Kumar, Lalitesh , Ghosh, Subhojit, Kumar, Mano Ranjan, "A Multiobjective Based Optimization Approach	06/01/2015

		for Robustness Recovery of a LQG Compensator”, in ICC 2015 held at IIT Madras.	
3.	DR. NARENDRA D LONDHE	Harish Guggilla, Narendra D Londhe , Dilip Kumar Sethi, "Study of Coded Ultrasound Imaging Using FIELD-II, " <i>J. Pure Appl. Ultrason.</i> 41(2), pp. 98-104, April 2014.	

Consultancy Projects:-

Sr. No.	Faculty	Consultancy Details	Date (From 1.04.2014 to 31.03.2015)
1	Dr. A. S. Thoke, Dr. S. Ghosh	Testing of Genertor (uprated) M/S Real Ispat & Power Ltd. Urla - Raipur	Sept 2014

Research Projects:-

Sr. No.	Faculty	Research Details	Date (From 1.04.2014 to 31.03.2015)
1	DR. SUBHOJIT GHOSH	Microcontroller based implementation of mathematical model of insulin secretion for automated glucose regulation (funding agency: CCOST)	19/11/2014

Awards/Any other Achievements:-

Sr. No.	Faculty	Awards/ Any other Achievements Details	Date (From 1.04.2014 to 31.03.2015)
1	DR. NARENDRA D LONDHE	Best Paper Award for a published research article in Journal of Medical Ultrasound (Elsevier). The award included a Visiting Scholarship to attend the 30th Annual Convention of Taiwan Society of Medical Ultrasound on 18-19 Oct 2014 at Taiwan International Convention Centre, Taipei, Taiwan.	---

Institute industry collaboration (2014-15) :-

Sr. No.	Collaborating Institute/Organization	Area of Collaboration	Collaboration Activities
1	PGCIL	Training, Workshops	Power system related aspects
2	CREDA	Non Conventional Energy	Energy efficient lighting, testing consultancy, solar PV
3	South Eastern Central Railway	Coordinated short term course	One week on "Applications of Advance Power Electronics and Electrical Drives in AC locomotives" Organized by Deptt. of Electrical Engg., NIT, Raipur at Electric Loco Shed, SECR, Bhilai (course coordinator)
4	CHHATTISGARH RENEWABLE ENERGY DEVELOPMENT AGENCY (CREDA)	ENERGY EFFICIENT LIGHTING AND RENEWABLE ENERGY	1. TESTING OF EQUIPMENTS 2. CONSULTANCY 3. VETTING OF ELECTRICAL DESIGNS 4. ONSITE TECHNICAL SUPPORT

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Faculty

S.No	Name of the Faculty	Designation	Qualification
1	Dr. Shrish Verma	Professor	Ph.D
2	B. Acharya	Assistant Professor	M. Tech, PhD – Thesis Submitted
3	Saikat Majumder	Assistant Professor	M. Tech, PhD -pursuing
4	Sujay Chakraborty	Assistant Professor	ME
5	Dr. Ajay Singh	Assistant Professor	Ph.D.
6	Toshanlal Meenpal	Assistant Professor	M. Tech, PhD – Thesis Submitted
7	Anshul Gupta	Assistant Professor	M. Tech, PhD -pursuing
8	Rahul Kumar Chaurasiya	Assistant Professor	M. E., PhD -pursuing

Doctoral Thesis Completed Only (PhD) (From 1-04-2014 to 31-03-2015)

S.No	Name of the Supervisor	Name of the Scholar	Title of Thesis
1	Dr. Shrish Verma	Pradeep singh	Investigation of data mining technique on software repository for fault prediction.

Seminar/Workshops/Conferences/Short term Courses (National)

S.No.	Faculty	Attendant	Date (From 1-04-2014 to 31-03-2015)
1	S. Majumder	1. Short term course on Microcontrollers and embedded systems 2. National Communication Conference, NCC 2015	30-06-2014 to 05-07-2014 27th February - 1st March, 2015
2.	Anshul Gupta	Faculty Induction Training Phase-1 (Under TEQIP II) National institute of Technical Teachers Training and Research, Bhopal	02-13 June 2014 [2 weeks]

Seminar/Workshops/Conferences/Short term Courses (International)

S.No.	Faculty	Organized	Date (From 1-04-2014 to 31-03-2015)
1.	B. Acharya	1. IJAS International Conference Proceedings, Anglo-American Conference for Academic Disciplines, University of London, UK. 2 A Novel Data Place Encryption Algorithm," International Conference on Devices, Circuits and Communications (ICDCCom). BITs, Meshra .	4 to 7 November 2014 12-13 Sept. 2014
2.	Anshul Gupta	1. Indian Antenna week (IAW 2014) Educational Television Centre of NITTTR, Chandigarh in association with PTU Jalandhar, IETE and IEEE AP-MTT joint chapter of Kolkata section	26-30 May 2014 [5 days]
3.	S. Majumder	1. International conference on Emerging Research in Computing, Information, Communication, and Applications, 2014.	1-2 August, 2014.

Publications (International)

S.No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1.	S. Majumder, S. Verma	1. Iterative soft decoding of multiple description image over wireless channel 2. <i>Improved decoding of multiple description codes over wireless broadcast channels</i> 3. <i>Iterative network-channel decoding with cooperative space-time transmission</i>	Journal of computer and communications, 2014,2,43-53 ERCICA, 14 International journal of Ad hoc, Sensor and Ubiquitous computing, vol.5, no.

			6, Dec 2014.
2.	Dr. Ajay Singh	<ol style="list-style-type: none"> 1. A. Singh, M. R. Bhatnagar, and R. K. Mallik," Performance of an Improved Energy Detector in Multi-Hop Cognitive Radio Networks," IEEE Transactions on Vehicular Technology, Volume PP,number 99, pages 1-12,January2015,DOI:10.1109/TVT.2015.2401332 (Impact Factor=2.642) 2. A. Singh, M. R. Bhatnagar, and R. K. Mallik, "Dual-Hop and Multi-Hop Cooperative Spectrum Sensing with an Improved Energy Detector and Multiple Antennae-Based Secondary Users." Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management. IGI Global, 2015. Pages 618-652. doi:10.4018/978-1-4666-6571-2.ch024. 	<p>January 2015</p> <p>October 2014</p>
3.	B. Acharya	<ol style="list-style-type: none"> 1. Onika Parmar, D.K. Mishra and B. Acharya "Design of a CMOS Current Controlled Variable Gain Amplifier", IJAS International Conference Proceedings, Anglo-American Conference for Academic Disciplines, University of London, UK. 2. Bhushan, R.; Acharya, B.; Dwivedi, A., "A Novel Data Place Encryption Algorithm," International Conference on Devices, Circuits and Communications (ICDCCom), 2014, vol., no., pp.1,6, 12-13 Sept. 2014doi: 10.1109/ICDCCom.2014.7024691 	<p>4 to 7 November 2014.</p> <p>12-13 Sept. 2014</p>
4	T. Meenpal	<i>Scrambling based robust image watermarking in DWT-DCT fused domain. Presented in 2015 IEEE International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO), Visakhapatnam, India</i>	24 – 25 January 2015
4.	Rahul Kumar Chaurasiya	<ol style="list-style-type: none"> 1. <i>High Dynamic Range Imaging for Dynamic Scenes.</i> CSNT-2014, Published in IEEEXplore, DOI : 10.1109/CSNT.2014.172 2. <i>A Novel Pattern Recognition Model for Real-Time Voice Data Input.</i> Confluence-2014, Published in IEEEXplore, DOI: 10.1109/CONFLUENCE.2014.6949338 3. <i>Statistical Wavelet Features, PCA</i> 	<p>7-9 April 2014</p> <p>25-26 September 2014</p> <p>16-17 February 2015</p>

		<p><i>and SVM Based Approach for EEG Signals Classification. Proceedings of The XIII International Conference on Data Mining and Computational Intelligence, held in London, United Kingdom 2015. Online Link: http://waset.org/Publication/statistical-wavelet-features-pca-and-svm-based-approach-for-ee-g-signals-classification/10000595</i></p> <p>4. <i>Epileptic Seizure Detection using HHT and SVM Presented in 2015 IEEE International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO), Visakhapatnam, India</i></p> <p>5. <i>Voice Recognition using Statistical Features, PCA and K-Nearest Neighbor Classifier. Presented in International Conference on Latest Trends in Engineering & Technology in Global R&D Sector, Goa, India. To be published in an international journal with ISSN.</i></p>	<p>24 – 25 January 2015</p> <p>27-28 March, 2015</p>
5.	Anshul Gupta	<p>1. APSYM 2014 [Cochin, INDIA] FDTD Analysis of Conformal Strip Excited Rectangular Dielectric Resonator Antenna Array</p> <p>2. ICCEM 2015 [Hong Kong] ANALYSIS OF TRIANGULAR SHAPE DIELECTRIC RESONATOR ANTENNA USING FDTD METHOD</p> <p>1. DOI: 10.1109/COMPEN.2015.7052567</p>	<p>December 17 - 19, 2014</p> <p>[3 days]</p> <p>February 02-05, 2015</p> <p>[4 days]</p>

Consultancy Projects

S.No.	Faculty	Consultancy Projects	Date (From 1-04-2014 to 31-03-2015)
1.	B. Acharya	Inspection of Desktop Computers & Printers	8-12-2014
2.	T. Meenpal		

Books Publications

S.No.	Faculty	Books Details	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. Ajay Singh	A. Singh, "Performance Analysis of Cognitive Radios in Satellite Communications," LAMBERT Academic Publishing, Germany, 2015, ISBN 978-3-659-39734-9.	February 2015

Achievement -Final year student Ms. Jaya Jha of 2015 batch is ranked as 1st in Electronics GATE-2015.

Humanities & Social Sciences (HSS)**Faculty**

Sr. No.	Name of the Faculty	Designation	Qualification
01.	Dr. Jaya Dwivedi	Assistant Professor	M.A., Ph.d.
02.	Dr. Anoop Kumar Tiwari	Assistant Professor.	M.A., Ph.d.

Seminar/Workshops/Conferences/Short term Courses (National)

Sr. No.	Faculty	Attended	Date (From 01-04-2014 to 31-03-2015)
01.	Dr. Jaya Dwivedi	01	14-15 NOVEMBER 14
02.	Dr. Anoop Kumar Tiwari	01	NOVEMBER 14

Seminar/Workshops/Conferences/Short term Courses (International)

Sr. No.	Faculty	Attended	Date (From 01-04-2014 to 31-03-2015)
01.	Dr. Jaya Dwivedi		
02.	Dr. Anoop Kumar Tiwari	INTEERNATIONAL SEMINAR HELD IN LONDON	INDO AMERICAN INTERNATIONAL CONFERENCE (04 TO 07 NOV 2014)

Publications (International)

Sr. No.	Faculty	Publication Details	Date (From 01-04-2014 to 31-03-2015)
1.	Dr. Jaya Dwivedi	1. Conference of the International Journal of Arts & Sciences Paper presented & published in Venice Italy June 30-July 3, 2014 CD -ROM ISSN :1943 -6114::07 (03):291 -294 (2014). 2. Conference ICHS 2015 :XIII Conference on Social Sciences & Humanities paper presented & published in Madrid Spain March 26-27,2015 in eISSN:1307-6892.	Winter 2014 March 2015.
02.	Dr. Anoop Kumar Tiwari	02 RESEARCH PAPERS IN INTERNATIONAL JOURNALS THEMATICS JOURNAL OF ENGLISH CRTIICISM ISSN 2320-5075VOL2 ISSUE 4 THEMATICS SAHITYA ANAND ISSN 2249-5959 VIL 3 ISSUE 3 AUG 14	JULY 14

Books Publications

Sr. No.	Faculty	Books Details	Date (From 01-04-2014 to 31-03-2015)
01.	Dr. Jaya Dwivedi	NIL	NIL
02.	Dr. Anoop Kumar Tiwari	A PRACTICAL APPROACH TO TECHNICAL WRITING AND COMMUNICATION SKILLS	THEMATICS PUBLICATIONS SEP 14

DEPARTMENT OF INFORMATION TECHNOLOGY**Faculty**

I. Professor	-	NIL
II. Associate Professor	-	NIL
III. Assistant Professors	-	
(i) Dr. SUDHAKAR PANDEY		Ph.D
(ii) SATYA PRAKASH SAHU		M.Tech (C.S.E)
(iii) RAKESH TRIPATHI		M.Tech (I.T.)
(iv) SANJAY KUMAR		M.Tech (C.S.E)
(v) MRIDU SAHU		M.Tech (C.S.E)
(vi) PAVAN KUMAR MISHRA		M.Tech (I.T.)
(vii) RAJESH DORIYA		M.Tech (I.T.)
(viii) TIRATH PRASAD SAHU		M.Tech (C.S.E)

M. Tech Thesis Completed only (From 01/04/2014 to 31/03/2015) -

- 1) Dr. Sudhakar Pandey** Scholar- Chandan Kumar Title- **“An Energy Efficient Routing Protocol in Wireless Sensor Networks”**.
- 2) Pavan Kumar Mishra** Scholar- Mr. Sunil Sahu Title- **“Reasoning Triangle Routing Problem in Mobile IP by Using Ant Colony Algorithm”**.

Seminar/Workshops/Conferences/Short term Courses (National)- Attend

- 1) Dr. Sudhakar Pandey** - 2 - Day workshop titled **“CALDAM 2015 school on Discrete Mathematics”** held in IIT Kanpur - **05-02-2015 to 06-02-2015**.
- 2) Satya Prakash Sahu** -
 - Workshop on **“Academic Ethics & IPR”**, organized by NIT Raipur & Chattisgarh Council of Science & Technology - **04-04-2014 to 05-04-2014**
 - STTP on **“Faculty Induction Training Phase”**, organized by NITTTR Bhopal (MP) India at NIT Raipur - **01-06-2014 to 13-06-2014**
 - STTP on **“Video & Image Processing (WVIP - 2014)”**, organized by IIT Bhubaneswar (Odisha) India. - **23-06-2014 to 27-06-2014**

3) Mridu Sahu –

- (i) **Faculty Induction Training** Phase-I (Under TEQIP II) at NIT, Raipur – **02-06-2014 to 13-06-2014**
- (ii) Uses of E- Resources, NIT Raipur – **10-09-2014 (One day)**
- (iii) Workshop on “ **Considering Industry Stake – Holding in Lab Research** ”, IIT Roorkee, MHRD - IPR CHAIR – **11-12-2014 to 12-12-2014**
- (iv) “ **Faculty Development Programme under TEQIP-II**” IIM, Raipur – **03-03-2015 to 28-03-2015**

4) Rajesh Doriya - LINUX Server Administration Bhopal, NITTTR – 22-09-2014 to 26-09-2014

Seminar/Workshops/Conferences/Short term courses (International)- Attend

- 1) Dr. Sudhakar Pandey –** ANGLO – AMERICAN CONFERENCE FOR ACADEMIC DISCIPLINES University of London, UK – **04-11-2014 to 07-11-2014**
- 2) Satya Prakash Sahu –** Presented a research paper titled “**Automated System for the Detection of Lung Cancer in Early Stages: Challenges and Methodologies**” in *International Journal of Arts and Sciences IJAS*, an *International Conference held at University of London Union (ULU)*, in Malet Street, London – **04-11-2014 to 07-11-2014**
- 3) Sanjay Kumar – International Conference for Science & Technology** organized by IJAS, at University of London U.K. – **01-11-2014 to 07-11-2014**
- 4) Mridu Sahu –** International Conference in ICKE 2015, Singapore – **02-02-2015 to 03-02-2015**
- 5) Pavan Kumar Mishra –**
 - (i) LTE Radio frequency planning & optimization– **03-11-2014 to 07-11-2014**
 - (ii) IEEE ANTS 2014 Delhi – **14-12-2014 to 17-12-2014**
 - (iii) Infosys Limited Pune – **10-09-2014 to 12-09-2014**
- 6) Rajesh Doriya –** Symposium cum Workshop on IT innovations for Smart City Allahabad, IIT – **14-03-2015 to 15-03-2015**

Publications (National):

- 1) **Rajesh Doriya** – “**A C2DM Based Framework for Detection and Notification of Terrorist Activities on Android Platform** ” Lecture Notes on Software Engineering. Vol. 3, No. 4, November 2015.

Publications (International):

- 1) **Dr. Sudhakar Pandey** – “**IRF - NMB : Intelligent Route Formation Technique in Ad-hoc Network using Node Mobility Behavior** ” accepted for publication in National Academy Science Letters. **Date of Acceptance - 21-11-2014**

- 2) **Sanjay Kumar** – “**Applied Cryptography Using Chaos Function for Fast Digital Logic Based Systems in Ubiquitous Computing**”- Entropy 2015,17(3), 1387-1410

- 3) **Mridu Sahu** –
 - (i) “**Performance Evaluation of Different Classifier for Eye Sate Prediction Using EEG Signal**” ICKE, 2015 Published in International Journals of Knowledge Engineering, Singapore (Paper Presented & accepted for publication)- **02-02-2015 to 03-02-2015**

 - (ii) “**An Incremental Feature Recording (IFR) Algorithm to in Classify Eye State Identification Using EEG**”, AISC (Advance in Intelligent Systems and Computing 339) - DOI 10.1007/978-81-322-2250-7-80 Book chapter.

 - (iii) “**Study and Analysis of Electrocardiography Signal for Computation of R- Peak Value for Sleep Apnea Patient.**” In Springer, 2nd International conference on computer and communication technology . (IC3T, 2015) India. (Paper Accepted for presentation and for publication in AISC Springer series as a book chapter).

 - (iv) “**Performance Evaluation of Different Classifier on Breast Cancer**”, published in International journal of technical research and application e-ISSN:2320-8163, May - June 2015, PP. 130-133.

4) Rajesh Doriya –

- (i) **“A Review on Cloud Robotics Based Frameworks to Solve Simultaneous Localization and Mapping (SLAM) Problem,”** in First International Conference on Recent Advances in Engineering and Technology (ICRAET-2015), Thailand, 2015.
- (ii) **“A Brief Survey and Analysis of Multi - Robot Communication and Coordination,”**
In IEEE International Conference on Computing, communication and Automation (ICCA2015), India, 2015. (Paper Accepted)
- (iii) **“An Architecture for Detection of Land Mines using Swarm Robotics”,** in
International Conference on Emerging Research in Computing, Information, Communication and Application (ERCICA2015), India. (Paper Accepted)

5) Tirath Prasad Sahu- ICNIT 2015 “ Improved Signified Novel Method for Edge Detection in Gray Scale Using Adaptive Thresh Holding “ – 21-11-2014 to 23-11-2014

12. Awards/ Any other Achievements:

- 1) **Tirath Prasad Sahu – Paper Award at ICNIT 2014
21-11-2014 to 23-11-2014**

DEPARTMENT OF MATHEMATICS

Faculty

S.No	Name of Faculty	Designation	Qualification
1	Dr. Arvind Kumar Sinha	HOD & Assistant Professor	Ph. D
2	Dr. R. P. Pathak	Professor	Ph. D
3	Dr. Debasisha Mishra	Assistant Professor	Ph. D
4	Dr. Sujit Kumar Samanta	Assistant Professor	Ph. D
5	Dr. Nilish Kumar Thakur	Assistant Professor	Ph. D
6	Dr. M. Krishna Prasad	Assistant Professor	Ph. D
7.	Dr. Deepmala Sharma	Assistant Professor	Ph. D
8	Dr. Sharada Nandan Raw	Assistant Professor	Ph. D

Seminar/Workshops/Conferences/ Short term Courses Attended:

S.No	Faculty	Attendant	Date (From 01-04-14 to 31-03-15)	International/National

1	Dr. Arvind Kumar Sinha	Participated in the Two days workshop on Academic Ethics and IPR from 04 April 2014 to 05 April 2014 organized by NIT Raipur and Chhattisgarh Council of Science & Technology, Raipur at NIT Raipur.	04 April 2014 to 05 April 2014	National
		Participated in Two Weeks AICTE recognized Short Term Course on Faculty Induction Training Phase -I (Under TEQIP II) from 2 June 2014 to 13 June 2014 at NIT Raipur organized by National Institute of Technical Teachers' Training and Research, Bhopal (NITTTR), Ministry of Human Resources Development, Govt. of India in NIT Raipur.	2 June 2014 to 13 June 2014	National
		Participated in Pravartana 2014 workshop on Applied Mathematics organized by Knowledge Incubation for TEQIP during 19 th to 25 th July-2014 at IIT Kanpur.	19 th to 25 th July-2014	National
2	Dr. R. P. Pathak	Participated in Pravartana 2014 workshop on Applied Mathematics organized by Knowledge Incubation for TEQIP during 19 th to 25 th July-2014 at IIT Kanpur.	19 th to 25 th July-2014	National
3	Dr. Debasisha Mishra	International Conference on Linear Algebra and its Applications	18-12-2014 to 20-12-2014	International
4	Dr. Sujit Kumar Samanta	Delivered invited talk in National level short term training program on "Mathematical modeling in Science and Engineering" organized by Department of Mathematics, NIT Raipur	2-6 July 2014	National
5	Dr. Nilish Kumar Thakur	Delivered invited talk in National level short term training program on "Mathematical modeling in Science and Engineering" organized by Department of Mathematics, NIT Raipur	2-6 July 2014	National
6	Dr. M. Krishna Prasad	59 th Congress of ISTAM Alliance University	17-20 December 2014	International
		STTP on mathematical modeling in science and engineering	2-6 July 2014	National
7	Dr. Deepmala Sharma	Nil	Nil	Nil
8	Dr. Sharada Nandan Raw	Invited Talks in National Level Short Term Training Programme "Mathematical Modeling in Science and Engineering" conducted by Department of Mathematics NIT Raipur.	02-07-2014 to 06-07-2014	National

Seminar/Workshops/Conferences/ Short term Courses Organized:

S.No	Faculty	Organized	Date (From 01-04-14 to 31-03-15)	International/National
1	Dr. Arvind Kumar Sinha	Conducted the 5 Days National Level Short Term Training Program (STTP) as a Principal Coordinator on "Mathematical modeling in Science and Engineering" organized by Department of Mathematics, NIT Raipur from 02 July 2014 to 06 July 2014 in NIT Raipur	02 July 2014-06 July 2014	National
2	Dr. Sharada Nandan Raw	Conducted the 5 Days National Level Short Term Training Program (STTP) as a Coordinator on "Mathematical modeling in Science and Engineering" organized by Department of Mathematics, NIT Raipur from 02 July 2014 to 06 July 2014 in NIT Raipur	02 July 2014-06 July 2014	National

7. Publications:

S.No	Faculty	Publication Details	Date (From 01-04-14 to 31-03-15)
1.	Dr. Arvind Kumar Sinha	On Intuitionistic (S, T) – Fuzzy Hv – subgroups , European International Journal of Applied Science and Technology", Vol. 1 no. 2 ,April 2014. Page 19-24. [ISSN: 2372-8385]	April 2014
		On Weakly Pure Submodules of Multiplication Modules, International Journal of Research in Advent Technology, Vol. 2, No. 5, May 2014 page 377- 378. [E-ISSN:2321-9637]	May 2014
		Intuitionistic (α, β) ---Fuzzy H -Fuzzy Hv--- Ideals, IJCSN International Journal of Computer Science and Network, May 2014, Conference Proceeding – RDFCORDGE – 2014, page 100-105 ,[ISSN (Online) : 2277-5420.]	May 2014
		Intuitionistic Fuzzy Hv-subgroups, IJAERS International Journal of Advanced Engineering Research and Science, Vol. 1 , Issue- 3 , August 2014, Page 30-37[ISSN: 2349-6495.]	August 2014
		Weakly Pure and Weakly Copure Submodule of Multiplication Modules , International Journal of Innovative Research in Science ,Engineering and Technology, Vol. 3, Issue 10, October 2014, Page 16649- 16653 [ISSN: 2319-8753]	October 2014
		On (α, β) -Fuzzy Hv-Submodules of Hv-Modules, International Journal of Engineering Research And Management (IJERM), Volume-01, Issue-09, December 2014, pg: 196-203 [ISSN : 2349- 2058]	December 2014
		Interval Valued (α, β) -Fuzzy Hv -Ideals Of Hv Rings, Global Journal of Advanced Engineering Technologies and Sciences, 2(1): January, 2015, pg: 1-11 [ISSN 2349-0292]	January, 2015
		On Interval Valued Intuitionistic (S, T) Fuzzy Hv ideals, International Journal of Scientific	Feb 2015

		Research in Science, Engineering and Technology, JSRSET Volume 1 Issue 2, Feb 2015, pg: 43-48 Themed Section: Engineering and Technology [ISSN: 2394-4099]	
		Rough Projective Module, Proc. of the Second Intl. Conf. on Advances in Applied Science and Environmental Engineering - ASEE 2014., Institute of Research Engineers and Doctors, USA, pg: 35-38, [ISBN: 978-1-63248-033-0].	Dec 2014
		Roughness In Free Module, Proc, of the 1st International Conference on Rough Sets and Knowledge Technologies – 2014, ELSEVIER, pg: 19-22, [ISBN: 9789351072980].	Dec 2014
		Some Results on Weak Multiplication Modules, <i>International Journal of Innovative Research in Technology & Science</i> , <i>IJIRTS</i> , March 2015, pg: 43-45 [ISSN:2321-1156]	March 2015
		On Intuitionistic – (S ,T) Fuzzy Hv-Ideals INTERNATIONAL JOURNAL FOR RESEARCH IN EMERGING SCIENCE AND TECHNOLOGY, VOLUME-2, ISSUE-3, MARCH-2015, pg: 22-27 [E-ISSN: 2349-7610]	March 2015
2	Dr. R.P.Pathak	Basic Concepts and Some Application of Fractional Calculus, Acta Ciencia Indica, Vol. XL M, No. -3 , 265 (2014)	2014
		Existence of solution of anti periodic boundary value problems of fractional order, IOSR Journal of Mathematics(IOSR-JM), Vol.-10, Issue 5, Ver V.	Sep- Oct 2014
		Fixed point approximation of generalized no expensive mapping in hyperbolic spaces, Hindawai Publishing Corporation, International J of Mathematics and Mathematical Sciences, Vol: 2015.	25 Feb 2015
		Approximation Results on generalized q-Baskakov type operators, Wulfenia Journal, Vol. 21, No. 7.	July 2014
		A common fixed point theorem for a class of non compatible mappings, Acta Ciencia Indica, Vol XL M , No. 3 403 (2014)	24 May 2014
3	Dr. Debasisha Mishra	Title: MATRIX GROUP MONOTONICITY USING A DOMINANCE NOTION, Journal: Numerical Algebra, Control and Optimization (NACO)	Accepted at September 28, 2014)
4	Dr. Sujit Kumar Samanta	R El-Azouzi, E Sabir, M Raiss-El-Fenni, SK Samanta– A unified NET-MAC-PHY cross-layer framework.	Accepted 14th May 2014
		S.K. Samanta, M.L. Chaudhry, A. Pacheco, U.C. Gupta - Analytic and computational analysis of the discrete-time GI/D-MSP/1 queue using roots. Computers & Operations Research, 56, (2015), 33–40.	Available online 5 November 2014
		S.K.Samanta, M.L. Chaudhry, A. Pacheco - Analysis of BMAP/MSP/1 queue. Methodology and Computing in Applied Probability, (2014) (In Press).	Accepted: 9 November 2014
		S.K. Samanta - Sojourn-time distribution of the GI/MSP/1 queueing system. OPSEARCH, (2015) (In Press)	Accepted: 6 February 2015

5	Dr. Nilish Kumar Thakur	Nil Rnjit Kumar Upadhyay, Atasi Patra, B. Dubey and N. K. Thakur, A predator-prey interaction model with Self and cross diffusion in aquatic systems, Journal of Biological Systems, Vol. 22, No. 4 (2014), pp. 1-22.	2014
		N. K. Thakur, R. Gupta and R. K. Upadhyay, Turing and Non-Turing patterns in diffusive plankton model, Computational Ecology and Software, Vol. 5, No. 1 (2015), 16-27.	2015
6	Dr. M. Krishna Prasad	Nil	Nil
7	Dr. Deepmala Sharma	Gangopadhyay Sugata, Sharma Deepmala. A note on the structure of 6-variable bent functions. The IPSI BGD Transactions on Advanced Research, Vol. 11, No. 1:20-24, January 2015.	January 2015
8	Dr. Sharada Nandan Raw	Thakur S, Sharma R, Raw SN (2015) Incidence of Thalassemia and Sickle Cell Disease in Chhattisgarh, Central India: Using Hardy-Weinberg Equations. Journal of Molecular and Genetic Medicine 9: 155. doi:10.4172/1747-0862.1000155	January 23, 2015

Research Projects:

S.No	Faculty	Research Details	Date (From 01-04-14 to 31-03-15)
1	Dr. Arvind Kumar Sinha	One research project is ongoing from CGCOST Raipur of rupees five lacks, (Principal Investigator: Dr. Arvind Kumar Sinha, Assistant Professor, Department of Mathematics, NIT Raipur).	Ongoing
2	Dr. R. P. Pathak	One research project is ongoing from CGCOST Raipur of rupees five lacks , (Principal Investigator: Dr. R. P. Pathak, Professor, Department of Mathematics, NIT Raipur).	Ongoing

DEPARTMENT OF M. C. A.

Faculty

1. Details of Faculty Members:

Sr. No.	Name of the Faculty	Designation	Qualification
01.	Mr. Harendra Bikrol	Associate Professor	M.Tech., B.E.
02.	Mr. Mithilesh Atulkar		M.Tech., B.E.
03.	Dr. (Mrs.) Kesari Verma	Assistant Professor	MCA, Ph.D
04.	Dr. Manju Pandey		MCA, Ph.D
05.	Dr. Mou Dasgupta		MCA, Ph.D
06.	Dr. Shyam Sundar		MCA, Ph.D

07.	Mr. Deepak Agnihotri	Contract Lecturer	MCA
08.	Mr. Giridhar Urkude		MCA
09	Mrs. Deepa Rungta		MCA

Seminar/Workshops/Conferences/Short Term Courses (National)

S. No	Faculty	Attended	Date (From 01/04/2013 to 31/03/2014)
01.	Mr. Harendra Bikrol	Workshop on "Academic Ethics & IPR" organized by NIT Raipur & CGCOST Raipur	04/04/2014 - 05/04/2014
		Training Programme on "Uses of E-Resources" organized by Central Library, NIT Raipur	10/09/2014
		Workshop on 'Collection, Development of E-Books in Libraries' organized by Central Library, NIT Raipur	14/11/2014 - 15/11/2014
		Conference on 'Recent Advances in Statistics and Applications' organized by Pt. Ravishankar Shukla University, Raipur	15/11/2014 - 17/11/2015
02	Prof. Mithilesh Atulkar	Workshop on "Academic Ethics & IPR" organized by NIT Raipur & CGCOST Raipur	04/04/2014 - 05/04/2014
		v[khy Hkkjrh; jktHkk"kk la?kks"Bh] fo'kk[kkiV~ue	22.05.2014-23.05.2014
03	Dr. (Mrs.) Kesari Verma	Workshop on "Academic Ethics & IPR" organized by NIT Raipur & CGCOST Raipur	04/04/2014 - 05/04/2014
		Machine Learning Algorithm and Data Analytics	3-13, June,2014
		Intelligent Computing , Communication and Convergence	27-28,Dec,2014
04	Dr. Shyam Sundar	Faculty Induction Training Phase-I	02-06-2014 to 13-06-2014
05	Dr. Mou Dasgupta	Teachers' Training Programme, NIT Raipur	02/06/2014-13/06/2014

Seminar/Workshops/Conferences/Short Term Courses (International)

S. No	Faculty	Attended	Date (From 01/04/2014 to 31/03/2015)
.			

01	Dr. Shyam Sundar	The Tenth International Conference on Simulated Evolution And Learning (Dunedin, New Zealand)	15-12-2014 to 18-12-2014
02	Dr. Mou Das Gupta	International Conference for Academic Disciplines, Ca'Foscari University, Italy	30/06/2014-03/07/2014
03	Dr. Manju Pandey	IJAS International Conference for Academic Disciplines, Ca' Foscari University, Venice, Italy	30/06/2014-03/07/2014
		ICCSEA 2015: XIII International Conference on Computer Science, Engineering and Applications, Waset, Madrid, Spain	26/03/2015-27/03/2015

Publications [a](National) :

S. No.	Faculty	Publications	Date (From 01/04/2014 to 31/03/2015)
01	Prof. Harendra Bikrol	H.Bikrol, S.L. Sinha, A. Sinha "Practical Applications of Operation Research in Indian Health Care Units" Proceedings of Conference on 'Recent Advances in Statistics and Applications' organized by Pt. Ravishankar Shukla University, Raipur	15/11/2014 - 17/11/2015

Publications (International):

S. No.	Faculty	Publications	Date (From 01/04/2014 to 31/03/2015)
01	Dr. Shyam Sundar	Shyam Sundar and Alok Singh. <i>Metaheuristic Approaches for the Blockmodel Problem</i> . IEEE Systems Journal (Accepted)	2014
		<i>Sachchidanand Chaurasia, Shyam Sundar</i>	2014

		<i>and Alok Singh. A Hybrid Evolutionary Approach for Set Packing Problem. OPSEARCH, Springer-Verlag</i>	
		Shyam Sundar. A Steady-State Genetic Algorithm for the Dominating Tree Problem. <i>Proceedings of The Tenth International Conference on Simulated Evolution And Learning (SEAL 2014), LNCS 8886</i> , 48-57, Springer-Verlag, Dunedin, New Zealand	15-12-2014 – 18-12-2014

02	Dr. (Mrs.) Kesari Verma	N Nirupama, R Sharma, K Verma, S Panigrahi . A multi-tier hazard-part I: description of the event Natural Hazards, 1-11, Volume 76, Issue 1 , pp 259-269 11 doi 0.1007/s11069-014-1487-7 http://link.springer.com/article/10.1007/s11069-014-1487-7	
		R Sharma, K Verma, S Panigrahi, N Nirupama. A multi-tier hazard: Part II—meteorological analysis Natural Hazards, 1-11, Volume 76, Issue 1 , pp 271-281. 10.1007/s11069-014-1486-8, http://link.springer.com/article/10.1007%2Fs11069-014-1486-8	
		Kesari Verma, BK Singh,, AS Thoke. An Enhancement in Edge preservation algorithm. An Enhancement in Adaptive Median filter for Edge Preservation will be published in Procedia Computer Science. Procedia Computer Science (2015) pp. 29-36, International Conference	
		Adaptive Gradient Descent Backpropagation for Classification of Breast Tumors in Ultrasound Imaging Procedia Computer Science 46, 1601-1609, 2015	
		BK Singh, K Verma, AS Thoke. Objective and Optical Evaluation of Despeckle Filters in Breast Ultrasound Images. IETE Technical Review, 1-15, 2015	
		BK Singh, K Verma, AS Thoke. A Dual Feature Selection Approach for Classification of Breast Tumors in Ultrasound Images Using ANN and SVM. Artificial Intelligent	
		K Verma, BK Singh, P Tripathi, AS Thoke. Review of Feature Selection Algorithms for Breast Cancer Ultrasound Image. New Trends in Intelligent Information and	

		NK Nagwani, K Verma, S Verma . ON VISUALIZING THE PRICE DISTRIBUTION INFORMATION OF RICE AND WHEAT ACROSS INDIA. International Journal of Engineering Science and Technology, Vol 4, No. 1, February, 2015, ISSN number 2319-5991.
		S Shantaiya, K Verma, K Mehta . Multiple Object Tracking using Kalman Filter and Optical Flow .European Journal of Advances in Engineering and Technology
		V Mirge, S Gupta, K Verma. A Novel Approach for Mining Trajectory Patterns of Moving Vehicles International Journal of Computer Applications 104 (4), 4-8
		S Panigrahi, K Verma, P Tripathi, R Sharma. Knowledge Discovery from Earth Science Data. International Conference in Communication Systems and Network Technologies
		D Agnihotri, K Verma, P Tripathi. Pattern and Cluster Mining on Text Data. International Conference in Communication Systems and Network Technologies (CSN

Research Projects

S. No.	Faculty	Research Details	Date (From 01/04/2014 to 31/03/2015)
01.	Dr. (Mrs.) Kesari Verma	Predictive and Visual Analysis of the Price Distribution Information of Rice and Wheat across India	2013-2015

DEPARTMENT OF MECHANICAL ENGINEERING

Faculty

Sr.n.	Faculty Name	Designations	Qualifications'
1	Dr. A. M. Rawani	Professor & Dean(Academic)	Ph.D.
2	Dr. S. Sanyal	Professor & Dean(R&C)	Ph.D.
3	Dr.(Miss) S. L. Sinha	Professor	Ph.D.
4	(Dr.) R. Salhotra	Professor & HOD(Mech. Engg)	Ph.D.
5	Dr. S. D. Patle	Professor	Ph.D.
6	Dr. S. P. S. Matharu	Professor & HOD(Humanities)	Ph.D.
7	Dr. A. K. Tiwari	Professor	Ph.D.
8	Prof. G. K. Sahu	Associate Professor	M.Tech.
9	Prof. R. K. Yadav	Associate Professor	M.Tech.
10	Prof. S.K. Dewangan	Assistant Professor	M.Tech.
11	Dr. Nitin Jain	Assistant Professor	Ph.D.

12	Prof. S. K. Mukti	Assistant Professor	M.Tech.
13	Prof. V. K. Gaba	Assistant Professor	M.Tech.
14	Dr. S. Bhowmick	Assistant Professor	Ph.D.
15	Dr. Amit Raj Singh	Assistant Professor	Ph.D.
16	Dr. G. Srinivasu	Assistant Professor	Ph.D.
17	Dr. H. K. Narang	Assistant Professor	Ph.D.
18	Prof. Nisha Netam	Assistant Professor	M.Tech.
19	Dr. S. Bhattacharya	Assistant Professor	Ph.D.
20	Dr.R.K.Sahu	Assistant Professor	Ph.D.
21	Dr. M.S. Rajput	Assistant Professor	Ph.D.
22	Dr.R.S. Kumar	Assistant Professor	Ph.D.

Doctoral Thesis Completed only (PhD) (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. A.M. Rawani	Jeetendra Tiwari	Environmental Management in Thermal Power Plants- A Study in Indian Context.
2.	Dr. S. Sanyal & Dr. N.K. Jain Dr. S. Sanyal & Dr. N.K. Jain	Mrs. Shubrata Nagpal Moon Banerjee	Analytical and Experimental Investigation of Mitigation of Stress Concentration Factor in Isotropic and Orthotropic Plates with Different Discontinuities subjected to Various loading conditions "Three dimensional analysis of stress concentration factor in isotropic, orthotropic and laminated composite plate with central circular hole under various loadings".
3.	Dr (Ms) S L Sinha	Mr Tikendra Nath Verma	Numerical Simulation Of Contaminant Control in Intensive Care Unit(ICU) of Hospitals

M. Tech. Thesis Completed Only (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name Of The Scholar	Title of The Thesis
1	Dr. S. Sanyal & Dr. S. Bhowmick	Partha Sarthi Das	A Parametric Investigation of Stress Distribution due to Reinforced Nozzles in Cylindrical Pressure Vessels under Thermo – Mechanical Loading
2	Dr (Ms) S L Sinha Mr S K Dewangan	Mr Srinivas Tripathy	Fabrication And Testing of Pilot Plant Test Loop For Flyash-Water Slurry Transportation

3	Dr. Anil Kumar Tiwari	<p>1. Amit Dubey</p> <p>2. Somesh Murarka</p> <p>3. Lakhvinder sing ajji</p> <p>4. Prafull Hishikar</p>	<p>Techno-Economic analysis of transpired solar wall assisted with indirect evaporative cooling :creating heating& cooling effect.</p> <p>Solar mapping & passive solar strategies for india</p> <p>Feasibility of using trombe wall for cooling & heating : in different climatic condition.</p> <p>Heat Loss coefficient for different cover & time for blockage of the tubes of solar water flat plate collector in india.</p>
4	Satish Kumar Dewangan, Asstt. Prof. (Mech. Engg.)	Hemant Kumar Dewangan, M. Tech (Thermal), Mech Engg	Prediction of Pipe Wear with Slurry Flow Using the Fabricated Pot Wear Tester
5	Satish Kumar Dewangan, Asstt. Prof. (Mech. Engg.) & Dr. (Ku.) Shobha Lata Sinha, Prof. (Mech Engg.)	Srinibas Tripathi, M. Tech (Thermal), Mech Engg	Fabrication and Testing of Pilot Plant Test Loop for Fly ash – Water Slurry Transportation
6	V.K. Gaba and Dr. S. Bhowmick	<p>1. Shashi Chichkede</p> <p>2. Shesh Narayan Dhurandhar</p>	<p>A parametric Study of performance of Banki turbine.</p> <p>Investigation of temperature distribution over the pressure tube of nuclear reactor.</p>
7	Dr. Srinivasu Gangi Setti	George V Samson	Thermal behaviour of Titanium alloy during Turning using FEM

Seminar/Workshops/Conferences/Short term Courses (National)

S.N.	Faculty	Atte nded	Date (From 1-04-2014 to 31-03-2015)
1.	Dr.(Miss) S.L. Sinha	01 02	Faculty Development Program on “Achieving Academic Excellence” (organized by Indian Institute of Management, Raipur, CG) From Aug 4-9, 2014. “Energy Conservation: A New Frontier” in Seminar on “Innovations in Energy Conservation”, Raipur on (organized by The New Management Association of Chhattisgarh & National Institute of Technology), From July 27, 2014.
2.	Dr. S. Bhattacharya	01	IIT KANPUR, PRAVARTANA 2014, TEQIP WORKSHOP ON APPLIED MECHANICS, From 19/07/2014 to 25/07/2014
3.	Dr.A.R.Singh	01. 02.	I Faculty Induction Training Phase, NIT Raipur, NITTR under TEQIP II From 02/06/2014 to 13/06/2014 Advanced Engineering Optimization Through Intelligent Techniques, NIT, SURAT, From 22 Sep 2014 to 26 September 2014
4.	Dr.G.Srinivasu	01	Faculty Induction Training Phase-I, At NIT Raipur 02-06-2014 to 16-06-2014
5.	Miss. N.Netam	01 02	MANIT Bhopal (Workshop) from 24-25 Dec, 2014 Faculty Induction Programe NIT Raipur from 2-14 June, 2014
6.	Dr. R.K. Sahu	01	Faculty Induction Training Phase-I At NIT Raipur from 02-06-2014 to 16-06-2014.

Seminar/Workshops/Conferences/Short term Courses (International)

Sr. No.	Faculty	Atte nded	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. A.M. Rawani	01	Attended International Conference on Management Science and Innovation at Geneva & delivered keynote speech. From 10-11 th October 2014
2.	Dr. (Ms) S L Sinha	01	5 th International Conference on Computational Systems – Biology and Bio-informatics (CSBIO 2014) (organized by Nanyang Technological University, Singapore) from Nov 10-12, 2014.

3	Dr. Anil Kumar Tiwari	01	10 th International conference on Heat Transfer, Fluid Mechanics and Thermodynamics [HEFAT214], Orlando, Florida, USA, 14-16July2014
		02	International Conference on quality management, NIT Raipur& South Asia Institute of Science and Engineering, 22-23March-2014
4	V.K. Gaba	01	10 th International conference on Heat Transfer, Fluid Mechanics and Thermodynamics [HEFAT214], Orlando, Florida, USA, 14-16July2014
5	Dr.G.Srinivasu	01	International Conference on Mechanical Properties of Materials At SPAIN From 18-12-2014 to 20-12-2014
6	Dr.R.K.Sahu	01	International Conference on Mechanical Properties of Materials At SPAIN From 18-12-2014 to 20-12-2014
7	Dr. S. Bhattacharya	01	1 st International Conference on Advent Trends in Engineering, Science and Technology , Mr. G. Pammani ,08 March 2015
8	Satish Kumar Dewangan	01	International Seminar, Paras-2015 from 21 st march 2015 to 22 nd March 2015

Seminar/Workshops/Conferences/Short term Courses Organized (National)

S.N.	Name of Key Speaker	Name of the Programme	Date of the Programme
1	Dr. A.M. Rawani	Organized workshop on "Academic ethics and IPR"	4-5 th April 2014
2.	V.K. Gaba	Workshop on Academic Ethics and IPR on NIT Raipur and CGCOST,	04-05, April-2014

Publications (National)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. (Ms) S L Sinha	<p>Journal Devendra Kumar Sakhare, Shobha Lata Sinha & Sripal Singh, DeNOx Catalytic Activity of some transition metal oxides Catalysts, Research Journal of Chemistry & Environment, Volume 18(9), September 2014, pp 11-16.</p> <p>Conference Proceeding S L Sinha, Energy Conservation: A New Frontier, Conference on Innovations in Energy Conservation by The New Management Association of Chhattisgarh in collaboration of National Institute of Technology, Raipur, CG on July 27, 2014 at Raipur, CG.</p>	<p>September 2014</p> <p>July 27, 2014</p>

2.	V.K. Gaba	Thermal performance of functionally graded parabolic annular fins having constant weight, Journal of Mechanical Science and Technology Volume 28, Issue 10, pp 4309-4318.	October-2014
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Publications (International)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1	Dr.A.M. Rawani	<ol style="list-style-type: none"> 1. 'Identification of Factors and Indicators for Success Measurement of ERP System' at 'International Proceedings of Economics Development and Research' ISSN: 2010-4626; Vol.75, 2014. 2. 'Motivators for Implementing Environmental Management in Thermal Power Plants: An Empirical Study in India" <i>International Journal of Innovative Research in Science, Engineering and Technology</i>, 3(3), 2014. 3. 'Fly Ash Utilization Forecast for its Key Applications' <i>International Journal of Application or Innovation in Engineering & Management</i>, 3(5), 2014 4. 'Promising Applications for Utilization of Fly Ash : A Review' <i>International Journal of Advanced Technology in Engineering and Science</i> 2(7), 2014 	2014-15
2	Dr (Ms) S. L. Sinha	<p>Journal</p> <ol style="list-style-type: none"> 1. T N Verma & S L Sinha, Trajectory of Contaminated Particle In Intensive Care Unit of Hospitals Using Numerical Modeling, <i>International Journal on Design and Manufacturing Technologies</i>, Vol9, No 1, Jan 2015, pp 43-47 (ISSN-0973-9106). 2. R K Yadav & S L Sinha, Performance and emission characteristics of a direct injection diesel engine using biodiesel produced from Karanja oil, <i>International Journal of Enhanced Research in Science Technology & Engineering</i>, Volume 4, Issue 2, Feb 15, pp 151-158 (ISSN 2319-7463). 3. R K Yadav & S L Sinha, Performance of diesel engine using blends of conventional diesel and jatropha biodiesel as alternative fuel for clean environment, <i>International Journal for Research In Emerging Science And Technology</i>, Volume 2, Issue 2, Feb 15, 	<p>Jan 2015</p> <p>Feb 15</p> <p>Feb 15</p>

		pp 8-15 (E-ISSN 2349-7610).	
		4. R K Yadav & S L Sinha, Performance and emission characteristics of a direct injection diesel engine using biodiesel produced from waste cooking oil, International Journal of Enhanced Research in Science Technology & Engineering, Volume 4, Issue 2, Feb 15, pp 45-52 (ISSN 2319-7463).	Feb 15
		5. D K Sakhare, S L Sinha, S P Singh, Study of Velocity and Pressure Distribution Characteristics Inside of Catalytic Converter Geometry With Fluent 2-D Modeling & Simulation, International Journal of Computational Engineering Research ISSN:2250-3005 , Volume 4, Issue 12, Dec 2014, pp28-33.	Dec 2014
		6. Tikendra Nath Verma & Shobha Lata Sinha, Contaminant Control in Intensive Care Unit of Hospital, International Journal of Applied Mechanics and Material, Volume 592-594, 2014, pp 2486-2490, doi:10.4028/www.scientific.net/AMM 592-594 2486.	2014
		7. Sanjeev B Thool & Shobha Lata Sinha, Computational Fluid Dynamics Modeling and Investigation of Horizontal Airflow Ventilation System in Surgical Site in Hospital, IOSR, Journal of Mechanical & Civil Engineering (IOSR-JMCE), e ISSN:2278-1684, p ISSN:2320-334X, Volume 11, Issue 2, Ver. VIII, March-April 2014, pp 40-46.	March-April 2014
		8. S B Thool & S L Sinha, Performance Evaluation of Conventional Mixing Ventilation Systems for Operating room in the view of Infection Control by Numerical Simulation in International Journal of Bio-Science & Bio-technology , ISSN:2233-7849 , Volume 6, No 4 (2014), pp 87-98.	2014
		9. S B Thool & S L Sinha, Simulation of Room Airflow using CFD and validation with Experimental Results in International Journal of Engineering Science & Technology , ISSN:0975-5462 , Volume 6, No 5, May 2014, pp 192-202.	

		<p>10. S B Thool & S L Sinha, Modeling and Investigation of Vertical Laminar Airflow with Perimeter Air Curtain Ventilation system in Surgical Site of Hospital using CFD in International Journal of Scientific Engineering Research (ISSN:2229-5518), Volume 5, Issue 5, May 2014, pp 781-788.</p>	<p>May 2014</p>
		<p>11. Sanjeev B Thool & Shobha Lata Sinha, Investigation of Performance of Mixing Ventilation Systems for Operating Room in the view of Infection Control in International Journal of Advancements in Research & Technology (ISSN:2278-7763) (IJoART) Volume 3, Issue 4, April 2014.</p>	<p>May 2014</p>
		<p>Conference Proceeding</p>	<p>April 2014</p>
		<p>1. Tikendra Nath Verma & Shobha Lata Sinha, Numerical Simulation of Contaminant Control in Multi Patient Intensive Care Unit of Hospital Using Computational Fluid Dynamics, 5th International Conference on Computational Systems –Biology and Bio-informatics held on Nov 10-12, 2014 in Nanyang Technological University, Singapore.</p>	<p>Nov 10-12, 2014</p>
		<p>2. Disha Dewangan, S L Sinha & Jasinta Poonam Ekka, Biogas Power System: A Step Towards Utilization Of Clean Renewable Energy Resource For Providing Optimum Energy Needs Of Rural Areas In India, International Mechanical Engineering Congress (IMEC)-2014, Sponsored by TEQUIP in National Institute of Technology, Trichy on June 13-15, 2014.</p>	<p>June 13-15, 2014</p>
		<p>3. Tikendra Nath Verma & Shobha Lata Sinha, Contaminant Control in Intensive Care Unit of Hospital, International Mechanical Engineering Congress (IMEC)-2014, Sponsored by TEQUIP in National Institute of Technology, Trichy on June 13-15, 2014.</p>	<p>June 13-15, 2014</p>
		<p>4. Tikendra Nath Verma & Shobha Lata Sinha, Numerical Simulation of Contaminant Control in Intensive Care Unit, TEQUIP Sponsored 3rd International Conference on Biomedical Engineering, Organized by Institute of Engineering and Technology, Punjab University,</p>	<p>June 13-15, 2014</p>

		Chandigarh, India on Nov 14-15, 2014.	Nov 14-15, 2014
3	Dr.S. Bhattacharya	Fatigue Crack Growth Simulations of FGM Plate under Cyclic Thermal Load by XFEM, by, S. Bhattacharya & K. Sharma Procedia Engineering , Vol. 86 (2014), pp. 727 - 731	Vol. 86 (2014)
4	Dr. A.K. Tiwari	<p>1. Aneesh Somwanshi, Anil kumar Tiwari, "Performance enhancement of a single basin solar still with flow of water from an air cooler on the cover", Desalination, 352, (2014), pp 92-102.</p> <p>2. Mahendra Singh Sodha, Dhananjay R Mishra and Anil K Tiwari, "Solar Earth Water Still for Highly Wet Ground. Journal of Fundamentals of Renewable Energy and Applications, Volume 4, Issue 1 (February 20-2014), e103.</p> <p>3. Vivek Kumar Gaba, Anil Kumar Tiwari and Shubhanker Bhowmick, "Thermal performance of functionally graded parabolic annular fins having constant weight". Journal of Mechanical Science and Technology, October 2014, Volume 28, Issue 10, pp 4309-4318.</p>	2014 February-2014 October-2014
5	Raj Kumar Sahu, Karali Patra and Jerzy A. Szpuner	"Experimental study and numerical modeling of creep and stress relaxation of dielectric elastomers" Strain, Vol 51, 43-54, 2015	2015
6	Karali Patra, Raj Kumar Sahu	A visco-hyperelastic approach to modelling rate-dependent large deformation of a dielectric acrylic elastomers, International Journal of Mechanics and Materials in Design, vol. 10, 2014	August 2014
7	Raj Kumar Sahu, Karali Patra	Characterization of tensile behavior of a dielectric elastomer at large deformations, Journal of The Institution of Engineers (India): Series C, vol. 95, 1-6, 2014.	05-07-2014
8	R. K. Sahu, K.Patra, S. Bhaumik, A.	Stress-strain behaviour of dielectric elastomer for actuators , NAME and Place OF SEMINAR MISSING	18-12-2014 to 20-12-2014

	K. Pandey and D. K. Setua		
9	Satish Kumar Dewangan (as Co- Authour)	Analysis of Effect of Particle Size on Pressure Drop & Phase Distribution in a slurry Pipeline, Paras- 2015, CCOST sponsored, 21 st March 2015 to 22 nd March 2015	2015

9. Research Projects

Sr.No.	Faculty	Research Details	Date (From 1-04-2014 to 31-03- 2015)
1	Dr. A.M. Rawani And Jeetendra Tiwari	Title - Strategies for Effective Environmental Management in Thermal Power Plants in Chhattisgarh Sponsored by CCOST, Raipur Financial Outlay - 05.00 Lacs	Continuing
2	Dr (Ms) S L Sinha	Title of Research Project: Determination of Operating Conditions for hydro- transport of mineral slurry based on wall shear stress and head loss measurement for mineral industries of Chhattisgarh State	Funding Agency: Chhattisgarh Council of Science & Technology, Raipur, CG. Funding Amount: Rs 5 lacs Period: 2014-2016 Principal Investigator Dr S L Sinha Co-investigator Mr S K Dewangan

Awards/Any other Achievements

S.N.	Faculty	Awards/Any other Achievements Details	Date (From 1-04- 2014 to 31-03- 2015)
1	Dr. A.M. Rawani	1."Star of Asia Award for educational excellence" from Economic Growth Society of India. 2. International Corporate Leadership Award in field of education from Economic Growth Society of India.	April 2014. January 2015.

2	Dr. S.Sanyal	Facilitated as Outstanding Engineering Teacher by Institution of Engineers(India) C.G. State Centre	5 th September 2014
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Institute – Industry Collaboration (2014-15)

Sr. No.	Collaboration Institute / Organization	Area of Collaboration	Collaboration Activities
1	Chhattisgarh Council of Science & Technology, Raipur	Collaborated for Workshop on Academic ethics and IPR.	

DEPARTMENT OF METALLURGICAL ENGINEERING

Faculty

Sr. No.	Name of the Faculty	Designation	Qualification
1.	Prof. A.P. Rajimwale	Associate Professor and Dean (Student Welfare)	M. Tech
2.	Dr. M K. Manoj	HOD, Assistant Professor	PhD
3.	Dr. Manoj Chopkar	Assistant Professor	PhD
4.	Mr. Manwendra Tripathi	Assistant Professor	PhD (Pursuing)
5.	Dr. Akhilesh K. Swarnakar (till January 2015)	Assistant Professor	PhD

Seminar/Workshops/Conferences/Short term Courses/Awards

Sr. No.	Faculty	Attendant	Date (From 1-04-2013 to 31-03-2014)	International/National
1.	Mr. M. K. Tripathi	<p>1. Workshop on Academic Ethics and IPR at National Institute of Technology Raipur.</p> <p>2. Presented paper in International Conference on Advanced Materials and Energy Technologies, Indian Institute of Engineering Science and Technology, Shibpur, Howrah</p>	<p>April 04-05, 2014</p> <p>,17-19 Dec, 2014.</p>	<p>National</p> <p>International</p>
2.	Dr. M. K. Manoj	Short Term Training Programme on NANO-MATERIALS: CHARACTERIZATION AND at National Institute of Technology Raipur.	December 01-05, 2014	National
3.	Dr. Akhilesh K. Swarnakar	1. Best poster award in Symposium X [Materials Research for Group IV Semiconductors: Growth, Characterization, and Technological Developments] at EMRS 2014 Spring Meeting, Lille, France	2. May 26-30, 2014, Lille, France	International

Seminar/Workshops/Conferences/Short term Courses organized

Sr. No.	Faculty	Organized	Date (From 1-04-2013 to 31-03-2014)	International/National
1	Dr. Manoj Chopkar (As Coordinator and Chairman)	Workshop on "X-Ray Diffraction and Its Application in Materials Engineering"	1 st -3 rd August 2014	National

Publications

Sr. No.	Faculty	Publication Details	Date (From 1-04-2013 to 31-03-2014)
1.	Prof M K Tripathi	1. "Multivariate Analysis and Classification of Bulk Metallic Glasses using Principal Component Analysis" in Journal of Computational Materials Science 2. "An optimal Glass Forming Ability Criterion for Bulk Metallic Glasses developed through Genetic Programming" by is under review in journal of Applied Soft Computing.	2014 Submitted
2.	Dr. Akhilesh K. Swarnakar	1. Determination of the Si Young's modulus between room and melt temperature using the impulse excitation technique, Akhilesh K. Swarnakar , Omer Van der Biest, Jan Vanhellefont, <i>Phys. Status Solidi C</i> , 11(1), (2014) pp. 150-155 2. Eutectoid decomposition of aluminum titanate (Al ₂ TiO ₅) ceramics under Spark Plasma (SPS) and Conventional (CRH) thermal treatments, R. Papitha, M. Buchi Suresh, D. Chakravarty, A. Swarnakar , Dibakar Das, Roy Johnson, <i>Ceramics International</i> , 40 (1) 2014 pp. 659-666	2014

Research Projects

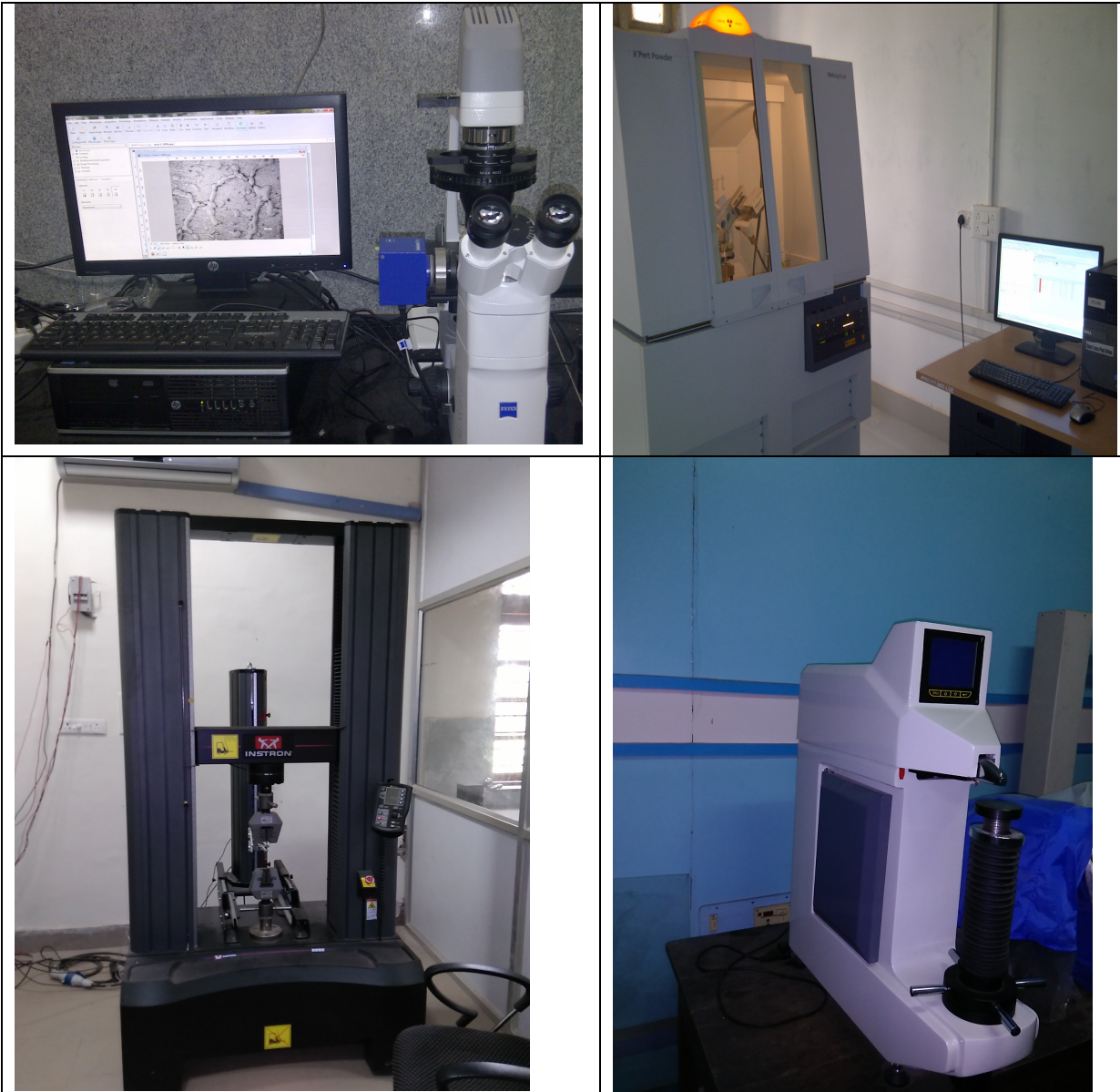
Sr. No.	Faculty	Research Details	Date (From 1-04-2013 to 31-03-2014)
1.	Dr. Manoj Chopkar	Study of high rate torsional behavior of Aluminum Zinc alloy (Al 7075) of Rs. 23,27,000 By SERB	Ongoing
2.	Dr. Manoj Chopkar	Study of ageing behaviour of copper added austenitic grade stainless steel and modeling the ageing characteristics (UG2014039)	Ongoing

Awards/Any other Achievements

Sr. No.	Faculty	Awards/Any Other Achievements Details	Date (From 1-04-2013 to 31-03-2014)
1.	Dr. Manoj Kumar Chopkar	Sir Dorabji Tata- TR Ananthraman faculty Fellowship (STD-TRA-FF) 2013	Visited center for Materials Processing and Tribology, School of Industrial Engineering, Purdue University, USA in Fall 2014 (August-December 2014).

Department has very important lab like XRD, SEM , Physical Metallurgy , Heat Treatment and Project Lab.





DEPARTMENT OF MINING ENGINEERING

Faculty

Sr. No.	Name of the Faculty	Designation	Qualification
1.	Prof. M. D. Patel	Associate Prof.	B.E., M.Tech
2.	Prof. Dr. Manoj Pradhan	Professor	B.E., M.Tech, PhD.
3.	Prof. P. Y. Dhekne	Associate Prof.	B.E., M.Tech, PhD (pursuing)
4.	Prof. B. R. Parate	Associate Prof.	B.E., M.Tech
5.	Prof. P. Dewangan	Associate Prof.	B.E., M.Tech, PhD (pursuing)
6.	Dr. Nawal Kishore	Assistant Prof.	B.E., M.Tech, PhD.
7.	Dr. R. K. Jade	Assistant Prof.	B.E., M.Tech, PhD.
8.	Dr. R. D. Lokhande	Assistant Prof.	B.E., PhD.

Seminar/ Workshops/Conferences/short term Courses (National) :-

S. No.	Faculty	Attended	Date (From 01-04-2014 to 31-03-2015)
1.	Prof. P. Dewangan	SDMinEr'14, New Delhi	21 – 22 June 2014
2.	Dr. R. K. Jade	National Conference on “Environment Management in Coal Mining - sustainable way forward”, MoEFCC, New Delhi	21-22 March 2015
3.	Dr. R. K. Jade	National Seminar on Sustainable development in mineral and earth resources,SDMinER” , IMEJ, N. Delhi	21-22 June 2014
4.	Dr. R. K. Jade	RS & GIS Applications in Geosciences, IIRS Dehradun	05 May-27 June 2014
5.	Dr. R. K. Jade	Academic Ethics and IPR, NIT Raipur	04-05 April 2014
6.	Dr. R. K. Jade	National Conference on Emerging Trends of RS & GIS in Modern Engineering, Raipur	14-15 Sept 2014
7.	Dr. Ritesh D. Lokhande	FDP at NIT Raipur	-

Seminar/ Workshops/Conferences/short term Courses (International) :-

Sr. No.	Faculty	Attended	Date (From 01-04-2014 to 31-03-2015)
1.	Prof. P. Dewangan	MICTM-2015, Dubai (UAE)	25.03.2015 to 26.03.2015
2.	Dr. Nawal Kishore	MICTM-2015, Dubai (UAE)	25.03.2015 to 26.03.2015
3.	Dr. R. D. Lokhande	MICTM-2015, Dubai (UAE)	25.03.2015 to 26.03.2015
4.	Prof. Manoj Pradhan	Dubai	
5.	Prof. P. Y. Dhekne	Dubai	

Publications (National) :-

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. Nawal Kishore	One paper under Review	-
3.	Prof. P. Y., Dhekne Prof. M. Pradhan , Dr. R. K. Jade	Kuz-Ram Model : Limitations and Their Riddance	National Seminar on Sustainable development in mineral and earth resources, SDMinER”, Organized by The Indian Mining & Engineering Journal, N.Delhi, 21-22 June 2014.
4.	Dr. R. K. Jade	Temporal Changes due to Mining in Khetri Copper Complex	National Conference on Emerging Trends of RS & GIS in Modern Engineering, Organized by Central College of Engineering and Management, Raipur on 14-15 Sept 2014

Publications (International) :-

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1	Dr. R D Lokhande	Lokhande R D, Murthy V M S R and Singh K B, "Predictive models for pot-hole depth in underground coal mining- Some Indian Experiences" Arabian Journal of Geosciences (Springer), Vol. 07, No.11, pp. 4697-4705, November, 2014.	
2	Dr. R D Lokhande	Lokhande R D, Murthy V M S R, Venkateswarlu V and Singh K B, "Assessment of Pot-hole Subsidence Risk for Indian Coal Mines " International Journal of Mining Science and Technology (Elsevier), Published Online on 20 th March, 2015.	
3	Dr. R D Lokhande	Sahu P & Lokhande R D, "Risk Assessment of Sinkhole Subsidence in underground coal mining" International Conference MICTM 15 Organized by Manipal University at Dubai, March 25-26, 2015, Dubai.	

Consultancy Projects :-

Sr. No.	Faculty	Consultancy Details	Date (From 1-04-2014 to 31-03-2015)
1.	Dr. R. K. Jade, Prof. P. Dewangan & Dr. Nawal Kishore	Establishment of charge pattern and charge per delay near high tension line for deep hole blasting	2014
2.	Prof. Manoj Pradhan, Dr. R. K. Jade	Preparation of drainage pattern of Ganga River basin for Chhattisgarh State	Awarded on January 2015 (ongoing)
3.	Prof. Manoj Pradhan, Prof. P. Y. Dhekne, Dr. R. K. Jade	Study on controlled blasting to control fly rock and ground vibrations.	2014

DEPARTMENT OF PHYSICS**Faculty**

Sr. No.	Name of the Faculty	Designation	Qualification
1	Dr. (Mrs.) Sadhana Agrawal	Professor & Head	M.SC., M. Phil, Ph.D.
2	Dr. A.K. Shrivastav	Professor	M.Sc., Ph.D.
3	Dr. Ayush Khare	Assistant Professor	PhD
4	Dr. B. K. Sahoo	Assistant Professor	Ph.D
5	Dr. S.M. Saini	Assistant Professor	Ph.D

Doctoral Thesis Completed Only (PhD) (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1	Dr. (Mrs.) Sadhana Agrawal	Vikas Dubey	Synthesis and characterization of Eu ³⁺ doped phosphors for display devices applications
2	Dr. Ayush Khare	D.S. Kshatri	Characterization and Luminescent Studies of SrAl ₂ O ₄ :

			Eu, Dy Phosphor
3	Dr. B. K. Sahoo	Mr. Sushanta K Sahoo	Macroscopic polarization effect on thermal conductivity of wurtzite binary nitrides

M.Tech Thesis Completed Only (From 1-04-2014 to 31-03-2015)

Sr. No.	Name of the Supervisor	Name of the Scholar	Title of the Thesis
1	Dr. B. K. Sahoo	Mr. Anindya Bose	Macroscopic polarization effect in III-V nitride Heterostructure Field Effect Transistor(HFET)

Seminar/Workshops/Conferences/Short term Courses (National)

Sr. No.	Faculty	Attended	Date (From 1-04-2014 to 31-03-2015)
1	Dr. (Mrs.) Sadhana Agrawal	vf[ky Hkkjrh; jktHkk'kk laxks'Bh fo"kk[kkiV~Vue] ¼ekuo lalk/ku fodkl ea=ky;½	22&23 ebZ 2014
2	Dr. Ayush Khare	Delivered Expert Lecture in ISTE sponsored Short Term Training Programme (STTP) organized by R.S.R. Rungta College of Engineering and Technology, Bhilai.	Aug. - 2014
		Delivered lecture as Key Note Speaker in National Conference on Nanoscience and Nanotechnology (NCNN-2014) organized by Faculty of Pharmaceutical Sciences of Shri Shankaracharya Group of Institutes, Bhilai in November 2014.	Nov. - 2014
3	Dr. B. K. Sahoo	V.I.T., Vellore, India	19-12-2014

Seminar/Workshops/Conferences/Short term Courses (International)

Sr. No.	Faculty	Attended	Date (From 1-04-2014 to 31-03-2015)
1	Dr. (Mrs.) Sadhana Agrawal	ICFAS 2014 Kuala Lumpur, Malaysia	3-5 June 2014
		ICONSEA 2014 JNTU Hyderabad	26-28 June 2014
		IEEE Authorship workshop IIT Delhi	11 Aug 2014
		ICLA 2015 Bangalore	9-12 Feb 2015
2	Dr. Ayush Khare	International Conference on Luminescence and Optical Spectroscopy of Condensed Matter (ICL-2014) organized by Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland (Received travelling allowance grant from SERB, DST)	13.07.2014 – 18.07.2014
		International Conference on Emerging Materials: Characterization and Applications (ICEM-2014) organized by NIT Durgapur at CGCRI, Kolkata	04.12.2014 – 06.12.2014

	2nd Edition Nanotech Dubai 2015 International Conference & Exhibition (NANOTECH DUBAI 2015) organized by SECTOR, Conferences & Events at Dubai	16.03.2015 – 18.03.2015
3 Dr. B. K. Sahoo	ICFAS 2014 Kuala Lumpur, Malaysia	3-5 June 2014
4 Dr. S. M. Saini	ICFAS 2014 Kuala Lumpur, Malaysia	3-5 June 2014

Seminar/Workshops/Conferences/Short term Courses Organized (National)

Sr. No.	Name of the Programme	Name of Key Speaker	Date of the Programme
1.	fgUnh laxks'Bh ¼jktHkk'kk½	---	15.09.2014
2.	Short term Course on Advanced Material Physics	Dr. Manoranjan Kar, IIT, Patna Dr. B.K. Sahoo Dr. S.M. Saini	19.05.2014 – 23.05.2014

Publications (National)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1	Dr. (Mrs.) Sadhana Agrawal	Applied Physics Letter: Effect of Reinforced Conductiove Multiwall Carbon Nanotube on the Dynamic Mechanical Properties of Closed Microcellular silicone elastomer nanocomposites	Vol. 01 (2014)
2	Dr. B. K. Sahoo	Ind. J. of Physics: DOI :10.1007/s12648-015- 0688-6. (2015)	9 March 2015

Publications (International)

Sr. No.	Faculty	Publication Details	Date (From 1-04-2014 to 31-03-2015)
1	Dr. (Mrs.) Sadhana Agrawal	Material Science in Semiconductor processing : Effect of europium doping levels on photoluminescence and themoluminesence of strontium yttrium oxide Phosphor, Vol. 31 (2015)	2015
		Journal of Radiation Research and Applied Sciences : Down Conversion luminescence behavior of Er and Yb doped Y ₂ O ₃ Phosphor, Vol. 7 (2014)	2015
		Optik : Photoluminescence and thermoluminescence behavior of Gd doped Y ₂ O ₃ Phosphor, 126(2015) 1-5	2015
		AIP Proceeding: Synthesis and Characterization of Rare Earth Doped ZrO ₂ Nanophosphors	2014
		ICLA 2015 Proceeding: Thermoluminescence behavior of UV, beta gamma induced Eu ⁺³ doped different host matrix	2015
2	Dr. Ayush Khare	Journal of Luminescence : Comparative study of optical and structural properties of micro and nanocrystalline SrAl ₂ O ₄ : Eu ²⁺ , Dy ³⁺ phosphors, 155 (2014) 257-268	2015

		Fibers and Polymers : Dielectric and impedance spectroscopy of nano-graphite reinforced silicon elastomer nanocomposites, 16 (4) 2015	2015
		High Performance Polymers : Relaxation behavior of nano-graphite reinforced silicon elastomer nanocomposites, 2, (2015) 0954008314568729	2015
		International Journal of Luminescence and its Applications : , Effect of UV Irradiation on Thermoluminescence Properties of Perovskite Structured Pure and Europium Doped Barium Zirconium Titanate, 5 (1) (2015) 115-117	2015
		International Journal Nanomaterials, Nanotechnology and Nanomedicine : Carbon Nanotubes: Past, Present and Future Trends , (2015) 101	2015
3	Dr. B. K. Sahoo	Physica B , 456(2015)66	2015
		J. Phys. Chem. Solids. , 78(2015)59	2015
		Opt. and Quantum Electronics , DOI 10.1007/s11082-014-0057-2, (2015)	2015
		J. Electronic Materials , 44 (2015) 1035	2015
4	Dr. S. M. Saini	Journal of Electronic Materials : Full potential study of the electronic and optical properties of the transparent oxide ZnCo ₂ O ₄ by use of PBE and TB-mBJ potentials.	Vol 43, Issue 9, pp. 3659-3665

Research Projects

Sr. No.	Faculty	Research Details	Date (From 1-04-2014 to 31-03-2015)
1	Dr. (Mrs.) Sadhana Agrawal	Preparation and characterization of Microcellular silicon elastomer nanocomposites for packaging and semiconducting applications.	Completed (2011-2014)
2	Dr. Ayush Khare	Title: An investigation on the Optical and Structural Characteristics of Some Ferroelectric Materials.	2013-1015 (towards completion)
3	Dr. B. K. Sahoo	Role of sponstaneous and piezoelectric on thermal properties of wurtzite nitrides	Ongoing (2013-2016)
4	Dr. S. M. Saini	Electric, optical and magneto properties of rare earth compounds	Ongoing (2013-2016)

Awards / Any other Achievements

Sr. No.	Faculty	Awards / Any other Achievements Details	Date (From 1-04-2014 to 31-03-2015)
1	Dr. (Mrs.) Sadhana Agrawal	Second Best Poster award for research paper titled "TL behavior of UV, beta and gamma induced Eu ³⁺ doped different host matrix"	Feb 2015
2	Dr. Ayush Khare	Won First Prize in PRASHNA MANCH in Hindi Pakhwada-2014.	Sept. - 2014

DEPARTMENT OF SUB-DIC BIOINFORMATICS

Faculty

Dr. M. K. Verma	Coordinator/PI	PhD
Shri Ashish Patel	Information Officer	M.Sc.

M. Tech Thesis Completed

Name of the Supervisor	:	Dr.M.K.Verma
Name of the Scholar	:	Shimul Shukla
Title of the thesis	:	GIDB: Gene Database of Gastro Intestinal System Cancer

Seminar/ Workshop/Conferences/Short term courses:

Dr. M. K. Verma, Mr. Ashish Patel Mrs. Jyotsna Choubey, Mr. Kunal waldekar

1. Guest Lecture on 'Introduction of Lab Facility' in CGCOST Raipur and IPR' (15th January 2014).
2. Guest Lecture on "India Data Portal – A Government of India Initiative and Status" (22nd July 2013)
3. Workshop on 'Support Vector Machine in Pattern Recognition and its applications in Biological Sciences' (Jan. 23 -27, 2014).

Awards / Any other Achievements:

Dr. M. K. Verma, Mr. Ashish Patel, Mrs. Jyotsna Choubey Mr. Jyotikant Choudhary

1. Developed SVM Based Tool for diagnosis of Asthma (February 2014).
2. Developed GCDB: Gynaecological Cancer Gene Database on March 2014.
3. Developed GIDB: Gastrointestinal Cancer Gene Database on March 2014.
4. Developed RIDB: Respiratory Cancer Gene Database on March 2014.

6 CENTRAL FACILITIES

6.1 LABORATORIES

Departments wise details of Laboratories

Name of Department	Name of Laboratories and other facilities available
Applied Geology	Optical Lab, Geological Museum, Remote Sensing & GIS Lab, ROCK/ORE Cutting Polishing Lab, Field Geology Lab, Hydrogeology Lab
Architecture	Climatology, Model Making Workshop, Building Material Museum, Computer, Architecture
Biomedical Engineering / Biotech	Computer Lab, Anatomy & Physiology Lab, Bio Chemistry Lab
Chemical Engineering	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
Chemistry	UG Lab, PG Lab, Research Lab
Civil Engineering	Computer Centre, Concrete Technology, Environmental Engineering, Geotech Engineering, Hydraulics, Structural Engineering, Survey Laboratory, Transportation Engineering, Water Resources Engineering
Computer Science and Engineering	Advanced Software Engg. Lab, Computer Programming Lab, Advanced Computer Network, Linux Unix Lab
Electrical Engineering	High Voltage, Research Lab, Workshop, Instrumentation, Electronics Lab, M.Tech Lab
Electronics & Telecommunication Engineering	Electronics Devices and Electronic Workshop, Instrumentation, Microwave and Optical Communication, Computer Programming, Digital Signal Processing, Microprocessor, Electronic and Tele Communication, Digital Electronics, Analog Electronics
Information Technology	Computer Networking, Data Base Management, Electronic and Tele Communication, Operating System (Unix/Linux), Graphics, Image & Multimedia
Mechanical Engineering	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
Metallurgical Engineering	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
Mining Engineering	Mine Environment Lab, Rock Mech. Lab, General Mining Lab, Computer Lab, Mine Survey Lab, Mineral Dressing Lab
Physics	General Lab, Laser and Fiber Optics Lab, Research Lab

6.2 CENTRAL LIBRARY

Dr Sunil Kumar Satpathy	Dy. Librarian	MLIS, Ph.D(LIS),M.A(Pol sc) DCA,PGDLAN
Mrs. Mridula Mahant	Asst. Librarian	MLIS
Shri Ajay Kumar Sharma	Asst. Librarian	M.A,MLIS
Mrs. Neelam Soni	Asst. Librarian	M.A,MLIS
Shri Vipin sahu	Asst.Librainan	MLIS,NET

6.3 DISPENSARY

The Institute has a dispensary with following staff:

Dr. Sanjeev Pandey	Medical Officer	M.B.B.S.
Dr. Subha Koshley	Lady Medical Officer	M.B.B.S. & (DOMS)
Dr. Sameer Sonkar	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.

1. Total No. of patient treated at NIT Dispensary during the year 2014-15 – 10118 (Allopathic) & 3425 (Homeophy)
1. Centre for PPI (Pulse Polio Immunisation) Programme 2014-15 (100% Target chievement within the campus)
2. Centre for National Filariasis Programme. (100% Target achievement within the campus)

6.4 GAMES & SPORTS

Dr. Alok Kumar Dubey SAS Officer MPh., Ph.D

1. Chhattisgarh State Level Inter Collegiate/Institute Navbharat Trophy Football Competition-

This competition was organised from 06/09/2014 to 20/09/2014 by the Shera Sports Committee. 18 teams from the state have participated and National Institute of Technology, Raipur won the trophy.

2. "SPARDHA" Sports competition organized by IIT Banaras Hindu University Banaras-

This competition was organised from 31/10/2014 to 02/11/2014 by IIT BHU. NIT Raipur participated in Handball, Volleyball, Kho-Kho, Badminton and table tennis (Boys Team). Our performance was very good in all games and we were the runner up team in Handball.

3. All India Inter NIT Football Competition-

The team of NIT Raipur participated in this competition held at NIT Warangal and defeated in quarter final by the hosts.

4. All India Inter NIT Cricket Competition-

This competition was organised from 13/02/2015 to 15/02/2015 by MNNIT Allahabad. NIT Raipur defeated NIT Durgapur, NIT Delhi and NIT Rourkela but defeated by MNNIT Allahabad in semi final.

5. All India Inter NIT Volleyball Competition-

This competition was organised from 28/03/2015 to 31/03/2015 by NIT Kurukshetra. Our team performed well but could not secure special position.

6. All India Inter NIT Table Tennis Competition-

This competition was organised from 23/03/2015 to 25/03/2015 by MANIT Bhopal. Boys and Girls teams of NIT Raipur participated in this competition.

7. All India Inter NIT Basketball, Badminton and Chess Competition-

These competitions were organised by SVNIT Surat from 02/04/2015 to 05/05/2015. Our teams participated in these competitions and performed very well.

8. "SAMMAR" 2015-

NIT Raipur organises Annual Sports meet "SAMMAR" every year with the joint efforts of Sports Department and all students. The Sports Committee organised Inter Collegiate/Institute Competition in Cricket, Volleyball, Football, Basketball etc. with "SAMMAR" for the first time. Other Universities/Colleges participated enthusiastically. It was organised from 23/01/2015 to 26/01/2015. The Director of the Institute Dr. Sudershan Tiwari encouraged the students in the closing ceremony and distributed prizes.

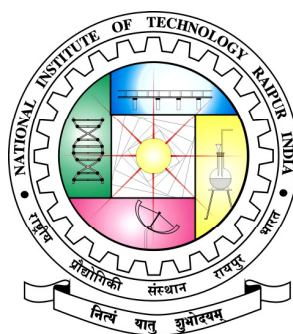
6.5 HOSTELS & STAFF QUARTERS

- Maintenance work of Hostels- A, B, D and F completed.
 - 300 students were admitted against the intake of 800 seats last year whereas 765 students have been admitted this year in Hostel-H.
 - To provide Internet connection facility in the hostels, the work is in progress.
 - Sports facilities have been increased in all the hostels. Badminton courts have been provided in Hostel-A, B, D,F and H.
 - Badminton and carom competitions were organised in various hostels during the annual sports fest "SAMMAR".
 - New dammar road has been constructed which links all the hostels.
 - A garden has been prepared in the middle of hostel campus.
 - A guest house has been maintained in Hostel-H which is available to the guardians of the students of all hostels.
 - Fire fighting facility has been provided in all hostels.
 - LED Televisions have been installed in all hostels.
- Basic equipments of exercise are being provided in all hostels.

ANNUAL FINACIAL SATEMENTS

FOR THE YEAR

2014-2015



NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR,

RAIPUR

FINANCIAL STATEMENT AS ON 31st MARCH ,2015
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR



FINANCIAL STATEMENT AS ON 31ST MARCH ,2015

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

BALANCE SHEET AS ON 31.03.2015

SOURCES OF FUNDS	Schedule	As on 31.03.2015	As on 31.03.2014
		(Amount in Rs)	(Amount in Rs)
<u>CORPUS/CAPITAL FUND AND LIABILITY</u>			
-			
CAPITAL/CORPUS FUND	1	15036,64,862.34	13854,42,077.21
PROVIDENT FUND	2	677,48,247.00	622,79,984.00
CURRENT LIABILITIES AND PROVISION	3	2528,09,285.83	2604,18,919.59
-			
TOTAL		18242,22,395.17	17081,40,980.80

APPLICATION OF FUNDS			
FIXED ASSETS	4		
TANGIBLE ASSETS		2518,45,303.21	1655,98,871.70
INTANGIBLE ASSETS		93,41,467.50	172,50,497.50
CAPITAL WORK IN PROGRESS		10153,61,532.00	8856,60,084.00
INVESTMENT- FROM EARMARKED/ENDOWMENT FUND	5	1463,49,367.90	3409,95,977.50
INVESTMENT(OTHERS)	6	2250,00,000.00	2250,00,000.00
CURRENT ASSETS	7	351,28,802.61	190,75,583.10
LOANS, ADVANCES & DEPOSITS	8	1411,95,921.95	545,59,967.00
TOTAL		18242,22,395.17	17081,40,980.80
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS	23		

Dy. Registrar (F&A)

Registrar

Director

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD ENDED 31st MARCH,2013

CURRENT LIABILITIES AND NOTES TO ACCOUNTS



FINANCIAL STATEMENT AS ON 31ST MARCH ,2015

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

INCOME & EXPENDITURE A/C FOR THE YEAR ENDING 31.03.2015

Particulars	Schedule	For the period ended on 31st March,2015	For the period ended on 31st March,2014
		(Amount in Rs)	(Amount in Rs)
<u>INCOME</u>			
ACADEMIC RECEIPTS	9	2076,27,300.91	1668,85,740.00
GRANTS/SUBSIDIES	10	400,00,000.00	1250,00,000.00
INCOME FROM INVESTMENTS	11	338,67,811.49	547,08,838.00
INTEREST EARNED	12	6,70,156.00	7,77,838.00

OTHER INCOME	13	795,93,656.25	497,43,509.00
PRIOR PERIOD INCOME	14	0.00	0.00
TOTAL(A)		3617,58,924.65	3971,15,925.00
<u>EXPENDITURE</u>			
STAFF & PAYMENTS (ESTABLISHMENT EXPENSES)	15	2916,33,742.00	2711,76,493.00
ACADEMIC EXPENSES	16	357,34,654.00	241,44,763.00
ADMINISTRATIVE EXPENSES	17	544,07,687.90	390,47,995.00
TRANSPORTATION EXPENSES	18	16,51,247.52	11,66,956.00
REPAIR & MAINTENANCE	19	31,92,341.61	76,53,965.00
FINANCE COSTS	20	48,378.00	92,186.01
DEPRICIATION		628,30,784.00	369,15,376.00
OTHER EXPENSES	21	0.00	0.00
PRIOR PERIOD EXPENSES	22	0.00	0.00
TOTAL(B)		4494,98,835.03	3801,97,734.01

BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE(A-B)		-877,39,910.38	169,18,190.99
TRANSFER TO/FROM DESIGNATED FUND		0.00	0.00
BUILDING FUND			
OTHERS			
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CAPITAL FUND		-877,39,910.38	169,18,190.99
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS			
		23	

Dy. Registrar(F&A)

Registrar

Director

**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
SCHEDULES FORMING PART OF THE BALANCE SHEET**

SCHEDULE- 1

CORPUS/CAPITAL FUND

AMOUNT(IN RS)

PARTICULAR	As on 31.03.2015		As on 31.03.2014	
	Current Year		Previous Year	
Balance at the beginning of the year	12935,09,453.20		9777,59,068.13	
Add: Contribution towards Corpus/Capital Fund	0.00		0.00	
Add: Grants from UGC, CG, SG to the extent utilized towards				
Capital Expenditure	2713,02,207.51		3526,65,761.07	
Add: Assets purchased out of Earmaked Funds	0.00		0.00	
Add: Assets purchased out of Sponsored Projects, where				
Ownership vests with the institute	0.00		0.00	
Add: Assets Donated/ Received as Gifts				
Add: Other Additions	63326.00		0.00	
Less: Trf to Deffered Income	-628,30,784.00		-369,15,376.00	
Less: Trf to Reserve and surplus	<u>0.00</u>	15020,44,202.71	<u>0.00</u>	12935,09,453.20
Corpus Fund created out of Capitalization of old Assets	72.00	72.00	0.00	0.00
Opening Balance	919,32,624.01		750,14,433.02	
Less: Transfer to KK Sugandhi Memorial Award Fund	1,53,044.00			
Less: Transfer to KK Sugandhi Memorial Scholarship Fund	1,44,082.00			
Less: Transfer to Project Fund Teqip	22,75,000.00			

Add/deduct Balance of Net Income transferred from Income & Expenditure Account (As Per Schedule 10)	-877,39,910.38	16,20,587.63	169,18,190.99	919,32,624.01
CLOSING BALANCE		15036,64,862.34		13854,42,077.21

CORPUS/CAPITAL FUND				
Opening	2250,00,000.00		2250,00,000.00	
Add: Additon	0.00		0.00	
Less: Deduction	0.00		0.00	
Closing	2250,00,000.00	225000000.00	2250,00,000.00	225000000.00
DEFERRED GOVERNMENT GRANT				
Opening	10685,09,453.20		7527,59,068.13	
Add: utilisation of Grant	2713,02,207.51		3526,65,761.07	
Less: transfer to Deffered Income	628,30,784.00		369,15,376.00	
Closing	12769,80,876.71	1276980876.71	10685,09,453.20	1068509453.20

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR				
SCHEDULES FORMING PART OF THE BALANCE SHEET				
SCHEDULE- 3				
CURRENT LIABILITIES AND PROVISION				
A CURRENT LIBILITIES	As on 31.03.2015		As on 31.03.2014	
PARTICULAR	Current Year		Previous Year	
Deposit from Staff				
Security Deposit(Employee)	<u>36,79,640.00</u>	36,79,640.00	<u>30,33,738.00</u>	30,33,738.00

<u>Deposit from Students</u>				
Net Caution money	112,59,000.00		95,73,500.00	
Admission fess refundable	<u>8,92,276.00</u>	121,51,276.00	<u>9,38,777.00</u>	105,12,277.00
<u>Sundry Creditors</u>				
Sundry Creditors	209,42,591.00		39,10,748.00	
Sundry Creditors(Capital goods)	<u>227,95,180.60</u>	437,37,771.60	<u>123,87,229.00</u>	162,97,977.00
<u>Deposits - Others</u>				
Earnest money Deposit with NIT	28,21,234.90		38,98,115.00	
Performance bank Guarantee	<u>5,31,468.00</u>	33,52,702.90	<u>2,82,546.00</u>	41,80,661.00
<u>Statutory Liabilities</u>				
Overdue :	<u>0.00</u>	0.00	<u>0.00</u>	0.00
Others :				
TDS payable	13,91,224.00		13,29,371.00	
DPF Contribution payable	4,050.00		4,050.00	
GIS/FBF contribution payable	14,350.00		14,590.00	
GLIS payable	33,400.00		30,100.00	
GPF Contribution Payable	30,000.00		30,000.00	
NPS Contribution of Employees payable	8,81,127.00		7,44,253.00	
NPS Contribution of NITRR payable	8,81,127.00		7,44,253.00	
PF Payable	<u>2,51,200.00</u>	34,86,478.00	<u>2,22,500.00</u>	31,19,117.00
<u>Other Current Liabilities</u>				
Unutilized Grant (Schedule 3C)	133,45,358.29		221,47,565.80	
Scholarships to Students(Other state) Schedule 3B	65,26,805.00		59,70,674.00	
Bridge loan	14,400.00		14,400.00	
Fund from erstwhile govt. college	53,41,016.89		53,41,016.89	
Amalgamated fund	36,750.00		36,750.00	

Alumini Fund	10,83,250.00		8,09,250.00	
Project Development Fund	10,000.00		0.00	
Project Fund(Unutilised) Schedule 3A	186,61,754.40		597,16,584.40	
Other Fund	12,06,696.00		7,90,446.00	
Student aid fund	9,04,750.00		7,06,100.00	
Student Loan Refundable	3,85,610.00		0.00	
Interest(GPF)	<u>2,82,342.00</u>	477,98,732.58	<u>2,49,995.00</u>	957,82,782.09
TOTAL (A)		1142,06,601.08		1329,26,552.09
B PROVISIONS				
Gratuity				
Provision for Gratuity	484,49,187.00		460,91,235.00	
Leave encashment				
Provision for leave Encashment	535,01,692.00		472,51,709.00	
Leave encashment payable	3,38,086.00		51,040.00	
Others				
Advertisement exp payable	0.00		1,33,384.00	
Children Education payable	30,438.00		54,375.00	
Computer Consumable & Repairing payable	0.00		25,011.00	
Consultancy and Legal charges payable	0.00		90,000.00	
CPDA Expenses payable	8,50,231.00		6,63,961.00	
DA arrear payable	8,40,993.00		19,08,538.00	
Department consumable payable	0.00		2,21,482.00	
Electricity Expenses payable	0.00		11,52,950.00	
Exam Expenses and remuneration payable	8,898.00		46,575.00	

Faculty Association payable	6,900.00		7,200.00	
Fuel Charges payable	0.00		40,013.00	
Function and other activity payable	44,400.00		86,522.00	
Gardening expenses payable	0.00		11,472.00	
Internet and Website maintainance payable	3,27,500.00		3,27,500.00	
Medical Reimbursement Payable	0.00		1,01,944.00	
Meeting and conference exp payable	30,882.00		93,995.00	
News paper exp payable	0.00		3,605.00	
Office expenses payable	0.00		950.00	
Printing & Stationery payable	1,72,797.00		3,42,382.00	
Repair Maint equipment payable	0.00		20,210.00	
Repairs & Maintenance to Collage Building payable	6,730.00		3,25,418.00	
Salary Daily wages payable	16,02,791.00		19,44,821.00	
Salary Contract Staff payable	47,68,026.00		41,05,233.00	
Salary Regular staff Payable	129,69,792.00		115,38,209.00	
Scholorship to M tech/phd Payable	45,75,600.00		12,57,780.00	
Telephone Charges payable	20,000.00		25,010.00	
Testing and Con remuneration payable	99,98,443.75		95,21,402.50	
Training & Placement payable	0.00		4,743.00	
Travelling & Hotel Expenses payable	59,298.00	<u>1386,02,684.75</u>	43,698.00	<u>1274,92,367.50</u>
TOTAL B		1386,02,684.75		1274,92,367.50
TOTAL (A+B)		2528,09,285.83		2604,18,919.59

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
SCHEDULES FORMING PART OF THE BALANCE SHEET

SCHEDULE- 5
INVESTMENT(FROM EARMARKED/ENDOWMENT
FUND)

AMOUNT(IN RS)

PARTICULAR	Current Year		Previous Year	
FDR/Flexi(GPF)	572,02,705.00		516,55,199.00	
FDR/Flexi With SBI GCET Branch	715,81,963.90		728,01,244.50	
FDR with SBI (Poor Boys Fund)	9,84,945.00		0.00	
FDR with PNB	0.00		1000,00,000.00	
FDR/Flexi with Canara Bank	<u>165,79,754.00</u>	1463,49,367.90	<u>1165,39,534.00</u>	3409,95,977.50
TOTAL		1463,49,367.90		3409,95,977.50

SCHEDULE- 6
INVESTMENT(OTHERS)

PARTICULAR	Current Year		Previous Year	
FDR with Canara Bank	2250,00,000.00	2250,00,000.00	2250,00,000.00	2250,00,000.00
TOTAL		2250,00,000.00		2250,00,000.00

SCHEDULE- 7
CURRENT ASSETS

PARTICULAR	As on 31.03.2015		As on 31.03.2014	
	Current Year		Previous Year	
CASH BALANCE	<u>1,34,025.00</u>	1,34,025.00	<u>81,140.00</u>	81,140.00
BANK BALANCE				
Canera Bank A/C No. 20996	21,02,353.02		152,32,319.42	
Non-Plan (saving) 30054181310	307,64,796.00		77,920.00	
SBI Bank A/c 30042955244	10,55,473.28		12,34,561.28	
SBI Bank A/c 31794300805	5,79,936.91		64,029.00	
GPF Banl A/c 31255750394	-3,01,649.00		3,40,064.00	
SBI Bank A/c 30007211525	<u>7,93,867.40</u>	349,94,777.61	<u>20,45,549.40</u>	189,94,443.10
TOTAL		351,28,802.61		190,75,583.10

SCHEDULE- 8
LOANS ADVANCES AND OTHER ASSETS

PARTICULAR	Current Year		Previous Year	
Advances to Employees				
Festival Advances	66,859.00		83,734.00	
Advance to Staff	7,99,582.00		11,21,171.00	
T A Adnances	25,000.00		25,000.00	
LTC Advances	2,87,202.00		1,98,972.00	
GPF Advances	3,40,589.00		4,94,163.00	
Akhilesh Swarnkar	6,040.00	15,25,272.00	0.00	19,23,040.00
Prepaid Expenses				
Deffered Library expenses	92,32,357.00	92,32,357.00	79,98,160.00	79,98,160.00

<u>Deposits</u>	-	-	-	-
Earnest money deposited by NIT	13,54,835.00	13,54,835.00	13,53,455.00	13,53,455.00
<u>Income Accrued</u>	-	-	-	-
Interest Accrued	222,60,744.85		402,82,135.00	
Rent receivable	75,513.00		20,922.00	
Electricity and water ch receivable	5,125.00		6,185.00	
Testing Fees receivable	37,650.00		37,650.00	
Admission Fees Receivable	620.00	223,79,652.85	620.00	403,47,512.00
<u>Other Current Assets</u>	-	-	-	-
MHRD Grant receivable	1000,00,000.00	1000,00,000.00	0.00	0.00
<u>Claims Receivables</u>				
TDS Receivable	3,63,069.00		3,06,221.00	
FDR received from party	50,44,967.00		25,94,909.00	
Service Tax(Cenvat Credit) Including Cess	12,54,949.10		36,670.00	
Service Tax(Cenvat Credit on Capital Goods) Including Cess	40,820.00	67,03,805.10	0.00	29,37,800.00
TOTAL		1411,95,921.95		545,59,967.00

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
SCHEDULES FORMING PART OF THE BALANCE SHEET
SCHEDULE- 2
PROVIDENT/EARMARKED/ENDOWMENT FUND

PARTICULAR	K K Sughandhi Memorial Scholarship Fund	K K Sughandhi Memorial Award Fund	POOR BOY FUND	PROVIDENT FUND	Current Year	Previous Year
(i) Opening Balance of Funds	0.00	0.00	9,50,195.00	613,29,789.00	622,79,984.00	564,64,386.00
Addition During the Year	1,44,082.00	1,62,625.00	34,750.00	28,48,592.00	31,90,049.00	
Income from investments made of the funds	0.00	0.00	0.00	0.00	0.00	
Accrued Income from the Investments/Advances	13,568.00	8,565.00	23,021.00	0.00	45,154.00	
Interest on Saving Banks A/c	0.00	0.00	0.00	0.00	0.00	
Other Additions - Interest	0.00	0.00	0.00	53,49,932.00	53,49,932.00	58,15,598.00
TOTAL (A)	1,57,650.00	1,71,190.00	10,07,966.00	695,28,313.00	708,65,119.00	622,79,984.00
Utilisation / Expenditure towards objective of Funds	-	-	-	-	-	
Capital Expenditure	0.00	0.00	0.00	0.00	0.00	
Revenue Expenditure	0.00	0.00	0.00	0.00	0.00	
Other - Withdrawals	0.00	0.00	0.00	31,16,872.00	31,16,872.00	0.00
TOTAL (B)	0.00	0.00	0.00	31,16,872.00	31,16,872.00	0.00
	-	-	-	-	-	
Closing Balance at the Year End (A-B)	1,57,650.00	1,71,190.00	10,07,966.00	664,11,441.00	677,48,247.00	622,79,984.00

**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS**

SCHEDULE- 9

FEES/SUBSCRIPTION FROM STUDENTS

AMOUNT(IN RS)

PARTICULAR	Current Year		Previous Year	
ACADEMICS				

Tuition Fees	1749,02,801.00		1374,23,980.00	
Library Fees	19,86,500.00		19,47,000.00	
Registration Fee	<u>9,93,250.00</u>	1778,82,551.00	<u>9,73,500.00</u>	1403,44,480.00
EXAMINATIONS				
Annual Exam Fees	73,52,900.00		73,00,700.00	
Exam fees	<u>23,71,983.00</u>	97,24,883.00	<u>35,23,350.00</u>	108,24,050.00
OTHER FEES				
Identity card Fee	1,09,600.00		1,09,800.00	
Misc and other late Fees	33,80,784.91		6,27,174.00	
Hostel Fees	76,99,055.00		61,90,775.00	
Fine	<u>1,19,392.00</u>	113,08,831.91	<u>54,055.00</u>	69,81,804.00
SALE OF PUBLICATIONS				
Magazine fees	<u>3,97,300.00</u>	3,97,300.00	<u>3,89,400.00</u>	3,89,400.00
OTHER ACADEMICS RECEIPTS				
Sports fees	9,93,250.00		9,73,500.00	
Internet Fee	11,91,900.00		11,68,200.00	
Insurance Fee	17,87,850.00		17,51,850.00	
Application and Registration Fee	6,78,850.00		9,23,900.00	
Phd fees	15,47,400.00		11,66,100.00	
Admission Fees Refund(Cancellation)	0.00		2,22,350.00	
Convocation Fee	11,21,235.00		11,66,606.00	
Training & placement fees	<u>9,93,250.00</u>	83,13,735.00	<u>9,73,500.00</u>	83,46,006.00
TOTAL		2076,27,300.91		1668,85,740.00

SCHEDULE- 10

GRANT/ SUBSIDIES (IRRECOVABLE GRANTS RECEIVED)

PARTICULAR	AMOUNT(IN RS)						
	Plan			Total Plan	Non Plan MHRD, GOI	Current Year Total	Previous Year Total
	Govt. Of India	UGC					
		Plan	Specific Schemes				
Balance B/F	0.00	0.00	0.00	0.00	-	-	-
Add: Receipt during the year	0.00	0.00	0.00	0.00	400,00,000.00	400,00,000.00	1250,00,000.00
TOTAL	0.00	0.00	0.00	0.00	400,00,000.00	400,00,000.00	1250,00,000.00
Less: Refund to UGC	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Balance	0.00	0.00	0.00	0.00	400,00,000.00	400,00,000.00	1250,00,000.00
Less: Utilised for Capital Expenditure	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Balance	0.00	0.00	0.00	0.00	400,00,000.00	400,00,000.00	1250,00,000.00
Less: Utilised for Revenue Expenditure	0.00	0.00	0.00	0.00	400,00,000.00	400,00,000.00	1250,00,000.00
Balance C/F	0.00	0.00	0.00	0.00	-	-	-

SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS

SCHEDULE- 11

INCOME FROM INVESTMENTS

PARTICULARS	EARMARKED/ENDOWMENT FUND		OTHER INVESTMENTS	
	Current Year	Previous Year	Current Year	Previous Year
INTEREST				
On Government Securities	0.00	0.00	0.00	0.00
Other Bonds/Debentures	0.00	0.00	0.00	0.00
INTEREST ON TERM DEPOSITS				

Interest on FDR	0.00	0.00	294,29,145.85	511,13,843.00
Interest on flexi deposit	0.00	0.00	43,61,045.00	35,93,340.00
INTEREST ACCRUED BUT NOT DUE ON TERM DEPOSITS/				
INTEREST BEARINGS ADVANCES TO EMPLOYEES	0.00	0.00	0.00	0.00
INTEREST ON SAVING BANK ACCOUNT				
Interest on Savings	0.00	0.00	0.00	0.00
OTHER INCOME				
Interest on Security deposit	0.00	0.00	73,057.64	1,655.00
Other Recd from Bank	0.00	0.00	4,563.00	0.00
TOTAL	0.00	0.00	338,67,811.49	547,08,838.00
SCHEDULE- 12				
INTEREST EARNED			AMOUNT(IN RS)	
PARTICULAR	Current Year		Previous Year	
Interest on Savings	6,70,156.00	6,70,156.00	7,77,838.00	7,77,838.00
ON LOANS				
Employees/Staff	0.00		0.00	
Others	0.00	0.00	0.00	0.00
ON DEBTORS				
	0.00	0.00	0.00	0.00
TOTAL		6,70,156.00		7,77,838.00
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR				
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS				
			-	
			-	
SCHEDULE- 13				
OTHER INCOME			AMOUNT(IN RS)	

PARTICULAR	Current Year		Previous Year	
<u>Income From Land & Building</u>				
Electric & water charges received	6,49,340.00		4,20,771.00	
House and other rent	4,86,618.00		2,98,593.00	
Guest house charges	30,500.00	11,66,458.00	41,900.00	7,61,264.00
<u>Other Charges</u>				
Tendor Form Sale	1,47,500.00		1,53,500.00	
Consultancy Fee	92,69,021.75		81,43,038.00	
Testing Fee	31,84,388.50		18,25,277.00	
RTI Fees	1,483.00		2,052.00	
Misc received	4,39,130.00		5,09,323.00	
Recruitment Fees	6,63,656.00		0.00	
Interest on Income Tax Refund	63.00		0.00	
Sponsorship	18,61,804.00		3,02,473.00	
Expenses reimbursed from Testing/Consultancy	0.00		52,169.00	
Project account	0.00		8,748.00	
Penalty Charges	29,368.00		0.00	
Consultancy charges reversed	0.00		10,70,289.00	
Deferred Income charged on account of Depreciation	<u>628,30,784.00</u>	784,27,198.25	<u>369,15,376.00</u>	489,82,245.00
TOTAL		795,93,656.25		497,43,509.00
SCHEDULE- 14				
PRIOR PERIOD INCOME			AMOUNT(IN RS)	
PARTICULAR	Current Year		Previous Year	
Academic Receipts	0.00		0.00	
Income from Investments	0.00		0.00	
Interest Earned	0.00		0.00	

Other Income	0.00	0.00	0.00	0.00
TOTAL		0.00		0.00

**SCHEDULE- 15
STAFF & PAYMENTS (ESTABLISHMENT EXPENSES)**

PARTICULAR	AMOUNT(IN RS)					
	As on 31.03.2015			As on 31.03.2014		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Contract Salary and Daily wages	0.00	719,60,036.00	719,60,036.00	0.00	652,52,405.00	652,52,405.00
Salary-regular staff	0.00	1624,57,279.00	1624,57,279.00	0.00	1373,45,159.00	1373,45,159.00
DA Arrears	0.00	17,77,713.00	17,77,713.00	0.00	43,11,880.00	43,11,880.00
Pay Arrears	0.00	5,77,441.00	5,77,441.00	0.00	34,77,128.00	34,77,128.00
Children education Reimbursement	0.00	19,52,078.00	19,52,078.00	0.00	12,76,847.00	12,76,847.00
Director Leave salary remittance	0.00	99,000.00	99,000.00	0.00	90,750.00	90,750.00
Director Pension remittance	0.00	1,85,808.00	1,85,808.00	0.00	1,70,324.00	1,70,324.00
PF	0.00	28,36,292.00	28,36,292.00	0.00	26,74,151.00	26,74,151.00
LTC expenses	0.00	24,68,108.00	24,68,108.00	0.00	29,20,674.00	29,20,674.00
DPF	0.00	48,600.00	48,600.00	0.00	74,999.00	74,999.00
Faculty association raipur	0.00	85,700.00	85,700.00	0.00	87,900.00	87,900.00
Medical Reimbursement/Expenses	0.00	21,77,575.00	21,77,575.00	0.00	10,18,380.00	10,18,380.00
Bonus	0.00	7,53,094.00	7,53,094.00	0.00	6,80,109.00	6,80,109.00
FBF and GIS	0.00	1,74,840.00	1,74,840.00	0.00	1,75,620.00	1,75,620.00
Pension	0.00	61,97,356.00	61,97,356.00	0.00	55,17,324.00	55,17,324.00
NPS Contribution of Employee	0.00	76,37,354.00	76,37,354.00	0.00	62,27,988.00	62,27,988.00
Leave Encashment	0.00	8,40,169.00	8,40,169.00	0.00	8,46,943.00	8,46,943.00

CPDA expenses	0.00	114,06,110.00	114,06,110.00	0.00	41,55,489.00	41,55,489.00
CPF	0.00	0.00	0.00	0.00	25,160.00	25,160.00
GLIS	0.00	3,93,900.00	3,93,900.00	0.00	2,77,200.00	2,77,200.00
Retirement Benefits (Schedule 15A)	0.00	176,05,289.00	176,05,289.00			
NPS Contribution by NIT				0.00	62,27,988.00	62,27,988.00
GPF/GIS Director salary				0.00	3,60,000.00	3,60,000.00
Gratuity for employees				0.00	121,64,686.00	121,64,686.00
Leave for employee				0.00	158,17,389.00	158,17,389.00
TOTAL	0.00	2916,33,742.00	2916,33,742.00	0.00	2711,76,493.00	2711,76,493.00

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS

SCHEDULE- 16

ACADEMIC EXPENSES

AMOUNT(IN RS)

PARTICULAR	Plan	Non Plan	Total	Plan	Non Plan	Total
AICTE and other exam remuneration to staff	0.00	24,74,341.00	24,74,341.00	0.00	21,84,584.00	21,84,584.00
Exam department Expenses	0.00	14,72,264.00	14,72,264.00	0.00	11,79,182.00	11,79,182.00
Scholarship expenses	0.00	239,07,622.00	239,07,622.00	0.00	146,49,713.00	146,49,713.00
Hostel electricity	0.00	6,61,340.00	6,61,340.00	0.00	11,41,300.00	11,41,300.00
Hostel Maintanance	0.00	29,768.00	29,768.00	0.00	2,44,762.00	2,44,762.00
Computer consumable expenses	0.00	11,50,444.00	11,50,444.00	0.00	6,83,371.00	6,83,371.00
Department/lab consumable expenses	0.00	35,92,377.00	35,92,377.00	0.00	30,33,880.00	30,33,880.00
Departmental Academic Audit Expenses	0.00	7,80,124.00	7,80,124.00	0.00	0.00	0.00
Workshop expenses	0.00	2,40,136.00	2,40,136.00	0.00	3,33,980.00	3,33,980.00
Repair and maintainance instrument/equipments	0.00	6,77,428.00	6,77,428.00	0.00	2,98,000.00	2,98,000.00
Departmental Misc. Exps.	0.00	33,674.00	33,674.00	0.00	0.00	0.00
Department stationary expenses	0.00	7,15,136.00	7,15,136.00	0.00	3,95,991.00	3,95,991.00

	0.00	357,34,654.00	357,34,654.00	0.00	241,44,763.00	241,44,763.00
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR						
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS						
SCHEDULE- 17						
ADMINISTRATIVE EXPENSES						AMOUNT(IN RS)
	As on 31.03.2015			As on 31.03.2014		
PARTICULAR	Plan	Non Plan	Total	Plan	Non Plan	Total
INFRASTRUCTURE						
Water, Electricity & Telephone charges	0.00	157,17,638.64	157,17,638.64	0.00	118,51,983.00	118,51,983.00
COMMUNICATION						
Postage & stamp Expenses	0.00	2,10,000.00	2,10,000.00	0.00	1,60,000.00	1,60,000.00
OTHERS						
Advertisement	0.00	5,01,910.00	5,01,910.00	0.00	12,71,875.00	12,71,875.00
Audit expenses	0.00	62,930.00	62,930.00	0.00	79,955.00	79,955.00
BOG/Finance/HODs/Deans/ etc meeting expenses	0.00	10,97,877.00	10,97,877.00	0.00	8,12,773.00	8,12,773.00
Computer consumable expenses	0.00	2,80,665.00	2,80,665.00	0.00	4,18,100.00	4,18,100.00
Consultancy and Legal Expenses	0.00	5,82,500.00	5,82,500.00	0.00	6,83,500.00	6,83,500.00
Conveyance expenses	0.00	5,885.00	5,885.00	0.00	4,025.00	4,025.00
Convocation expenses	0.00	20,53,118.00	20,53,118.00	0.00	21,86,407.00	21,86,407.00
Functions & activities expenses	0.00	37,49,375.26	37,49,375.26	0.00	29,20,430.00	41,79,458.00
Honorarium expenses	0.00	2,62,986.00	2,62,986.00	0.00	64,250.00	64,250.00
Internet charges and Web maintainance	0.00	13,10,000.00	13,10,000.00	0.00	14,56,922.00	14,56,922.00
Library Expenses	0.00	110,80,502.00	110,80,502.00	0.00	100,91,096.00	100,91,096.00
Miscellaneous expenses	0.00	67,558.00	67,558.00	0.00	8,480.00	8,480.00
Newspaper & Periodicals	0.00	30,777.00	30,777.00	0.00	0.00	0.00

NIT Transit house contribution	0.00	2,50,000.00	2,50,000.00	0.00	2,50,000.00	2,50,000.00
Office upkeep expenses	0.00	2,01,263.00	2,01,263.00	0.00	1,06,953.00	1,06,953.00
Printing & Stationery charges	0.00	11,76,022.00	11,76,022.00	0.00	11,05,241.00	11,05,241.00
Prize Money	0.00	13,000.00	13,000.00	0.00	54,400.00	54,400.00
Project CEC Exp	0.00	2,39,943.00	2,39,943.00	0.00	0.00	0.00
Recruitment expenses	0.00	12,77,036.00	12,77,036.00	0.00	10,04,138.00	10,04,138.00
Registration Charges	0.00	15,000.00	15,000.00	0.00	0.00	0.00
Security Charges	0.00	109,05,373.00	109,05,373.00	0.00	0.00	0.00
Sports,Yoga and other activity	0.00	8,54,651.00	8,54,651.00	0.00	4,92,822.00	4,92,822.00
Statutory expenses	0.00	30,620.00	30,620.00	0.00	35,002.00	35,002.00
Student safety insurance	0.00	18,27,900.00	18,27,900.00	0.00	17,51,850.00	17,51,850.00
TDS 0809	0.00	54,850.00	54,850.00	0.00	0.00	0.00
Testing and Consultancy Remuneration & expenses	0.00	1,08,781.00	1,08,781.00	0.00	700.00	700.00
Training & placement expenses	0.00	4,38,816.00	4,38,816.00	0.00	5,26,885.00	5,26,885.00
Virtual classroom expenses	0.00	711.00	711.00	0.00	4,51,180.00	4,51,180.00
TOTAL	0.00	544,07,687.90	544,07,687.90	0.00	377,88,967.00	390,47,995.00

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS

SCHEDULE- 18

TRANSPORTATION EXPENSES

PARTICULAR	Plan	Non Plan	Total	Plan	Non Plan	Total
VEHICLE OWNED BY INSTITUTIONS						
Vehicle Repairs and Maintainance	0.00	1,57,826.00	1,57,826.00	0.00	88,317.00	88,317.00
Insurance charges	0.00	94,117.00	94,117.00	0.00	1,05,712.00	1,05,712.00
Fuel charges	0.00	3,41,732.00	3,41,732.00	0.00	2,98,710.00	2,98,710.00
VEHICLE TAKEN ON RENT/LEASE						

Rent/Lease Expenses	0.00	0.00	0.00	0.00	0.00	0.00
VEHICLE (TAXI) HIRING EXPENSES						
Travelling and Hotel expenses	0.00	10,57,572.52	10,57,572.52	0.00	6,74,217.00	6,74,217.00
TOTAL	0.00	16,51,247.52	16,51,247.52	0.00	11,66,956.00	11,66,956.00

SCHEDULE- 19

REPAIR & MAINTENANCE

AMOUNT(IN RS)

PARTICULAR	Plan	Non Plan	Total	Plan	Non Plan	Total
Guest house expenses	0.00	1,57,258.00	1,57,258.00	0.00	9,47,546.00	9,47,546.00
Gardning & Horticulture	0.00	44,292.00	44,292.00	0.00	17,572.00	17,572.00
Electrical maintainance	0.00	9,16,612.00	9,16,612.00	0.00	9,06,762.00	9,06,762.00
Repair & Maintenance to College Building	0.00	11,08,201.00	11,08,201.00	0.00	50,73,854.00	50,73,854.00
Repair & Maintenance to Furniture	0.00	24,300.00	24,300.00	0.00	0.00	0.00
Repair & Maintenance to Hostel Building	0.00	3,96,475.00	3,96,475.00	0.00	1,82,794.00	1,82,794.00
Repair & Maintenance to Staff Quarters	0.00	3,33,320.00	3,33,320.00	0.00	4,75,987.00	4,75,987.00
Sanitary/cleaning Expenses	0.00	2,11,883.61	2,11,883.61	0.00	49,450.00	49,450.00
TOTAL	0.00	31,92,341.61	31,92,341.61	0.00	76,53,965.00	76,53,965.00

SCHEDULE- 20

FINANCE COSTS

AMOUNT(IN RS)

PARTICULAR	Plan	Non Plan	Total	Plan	Non Plan	Total
Bank Charges	0.00	48,378.00	48,378.00	0.00	92,186.01	92,186.01
Others	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	48,378.00	48,378.00	0.00	92,186.01	92,186.01

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS

SCHEDULE- 21**OTHER EXPENSES****AMOUNT(IN RS)**

PARTICULAR	Plan	Non Plan	Total	Plan	Non Plan	Total
Provision for Bad & Doubtful Debts/Advances	0.00	0.00	0.00	0.00	0.00	0.00
Irrecoverable Balance Write off	0.00	0.00	0.00	0.00	0.00	0.00
Grants/Subsidies to Other Institutes	0.00	0.00	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00

SCHEDULE- 22**PRIOR PERIOD EXPENSES****AMOUNT(IN RS)**

PARTICULAR	Plan	Non Plan	Total	Plan	Non Plan	Total
Establishment Expenses	0.00	0.00	0.00	0.00	0.00	0.00
Academic Expenses	0.00	0.00	0.00	0.00	0.00	0.00
Administrative Expenses	0.00	0.00	0.00	0.00	0.00	0.00
Transportation Expenses	0.00	0.00	0.00	0.00	0.00	0.00
Repair & Maintances	0.00	0.00	0.00	0.00	0.00	0.00
Others Expenses	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00

SCHEDULE- 3A**SPONSORED PROJECTS**

Sr.No	Name of the Project	Opening Balance		Receipts During the Year	Total	Expenditure	Closing Balance	
		Dr	Cr				Dr	Cr

1	Project Fund - CCOST (A.K.Sinha)	0.00	105091.00	78788.00	183879.00	116732.00	0.00	67147.00
2	Project Fund- CCOST (Amit Keshav)	0.00	3824.00	709.00	4533.00	0.00	0.00	4533.00
3	Project Fund - CCOST (A.M. Rawani)	0.00	245728.00	40053.00	285781.00	72599.00	0.00	213182.00
4	Project Fund CCOST - Awanish Kumar	0.00	0.00	74304.00	74304.00	0.00	0.00	74304.00
5	Project Fund- C Cost (Ayush Khare)	0.00	46441.00	299097.00	345538.00	181011.00	0.00	164527.00
6	Project Fund- CCOST (B.K. Sahoo)	0.00	118387.00	132567.00	250954.00	216218.00	0.00	34736.00
7	Project Fund - CCOST (B.Majumdar)	0.00	0.00	195617.00	195617.00	149386.00	0.00	46231.00
8	Project Fund- CCOST (Dharm Pal)	0.00	0.00	275423.00	275423.00	37316.00	0.00	238107.00
9	Project Fund - CCOST (Dr.Anamika Yadav)	0.00	170000.00	129235.00	299235.00	225637.00	0.00	73598.00
10	Project Fund- CCOST (Dr. R.K. Tripathi)	0.00	116547.00	65829.00	182376.00	146637.00	0.00	35739.00
11	Project Fund - C Cost (Fahmida Khan)	0.00	70000.00	40310.00	110310.00	24996.00	0.00	85314.00
12	Project Fund - C Cost (Kavita Thapadia)	0.00	92000.00	11172.00	103172.00	49772.00	0.00	53400.00
13	Project Fund - CCOST (Kesari Verma)	0.00	22425.00	0.00	22425.00	22425.00	0.00	0.00
14	Project Fund- CCOST (N.D.Londhe)	0.00	181466.00	84617.00	266083.00	191862.00	0.00	74221.00
15	Project Fund - CCOST (N.K.Nagwani)	0.00	160000.00	191392.00	351392.00	198970.00	0.00	152422.00
16	Project Fund - C Cost (P.K.Choudhary)	0.00	68306.00	0.00	68306.00	68306.00	0.00	0.00
17	Project Fund - CCOST (Pradeep Singh)	0.00	130000.00	256285.00	386285.00	114481.00	0.00	271804.00
18	Project Fund- CCOST (Pratima Gupta)	0.00	142021.00	165925.00	307946.00	253854.00	0.00	54092.00
19	Project Fund - CCOST (R.P.Pathak)	0.00	0.00	170866.00	170866.00	18065.00	0.00	152801.00
20	Project Fund - C Cost (Sadhana Agrawal)	0.00	95932.00	0.00	95932.00	95932.00	0.00	0.00
21	Project Fund - CCOST (Santosh Penta)	0.00	0.00	229778.00	229778.00	34667.00	0.00	195111.00
22	Project Fund- CCOST (SB Upadhyay)	0.00	70000.00	9874.00	79874.00	44422.00	0.00	35452.00
23	Project Fund - CCOST (Shobha Lata Sinha)	0.00	0.00	171592.00	171592.00	72580.00	0.00	99012.00
24	Project Fund - CCOST (S.M. Saini)	0.00	130000.00	115389.00	245389.00	209060.00	0.00	36329.00
25	Project Fund-C.G.Water & Sanitation (K.Tapadia)	0.00	662000.00	104313.00	766313.00	304589.00	0.00	461724.00
26	Project Fund-DST (Shrish Verma)	0.00	1210843.00	221623.00	1432466.00	16512.00	0.00	1415954.00
27	Project Fund - Flood Damage Mitigation(M.K.	0.00	423607.00	71879.00	495486.00	103990.00	0.00	391496.00

	Verma)							
28	Project Fund - HUDCO (M.K.VermaGreen City Index)	0.00	939620.00	132091.00	1071711.00	473715.00	0.00	597996.00
29	Project Fund Hudco(Rajesh Tripathi Low Volume Roa)	0.00	999880.00	154406.00	1154286.00	510989.00	0.00	643297.00
30	Project Fund - IELR&D (M.K.Chopkar)	0.00	0.00	57953.00	57953.00	0.00	0.00	57953.00
31	Project Fund- PMGSY	0.00	136458.00	542378.00	678836.00	355807.00	0.00	323029.00
32	Project Fund - SERB Kinetics Thermal(Amit Kesav)	0.00	30663.00	157380.00	188043.00	168553.00	0.00	19490.00
33	Project Fund - SERB Membrane Reactor(Amit Kesav)	0.00	1542806.00	209017.00	1751823.00	564380.00	0.00	1187443.00
34	Project Fund - SERB (M.K.Chopkar)	0.00	0.00	2210012.00	2210012.00	394584.00	0.00	1815428.00
35	Project Fund SERB - Raj Kumar Sahu	0.00	0.00	175803.00	175803.00	0.00	0.00	175803.00
36	Project Fund - SERB (R. Manivannan)	0.00	0.00	1470927.00	1470927.00	237592.00	0.00	1233335.00
37	Project Fund - SERB (T.Maharana)	0.00	0.00	1711755.00	1711755.00	71194.00	0.00	1640561.00
38	Project Fund- SERBT (SB Upadhyay)	0.00	467599.00	373557.00	841156.00	769784.00	0.00	71372.00
39	Project Fund-SUB DIC	0.00	858636.40	1022236.00	1880872.40	1527862.00	0.00	353010.40
40	Project Fund(SUB DIC Workshop)SVMPRABS	0.00	127500.00	0.00	127500.00	127500.00	0.00	0.00
41	Project Fund - TEQIP	0.00	49391900.0	5036091.00	54427991.0	49434079.00	0.00	4993912.00
42	Project MNRES - Pratima Gupta	0.00	0.00	1117889.00	1117889.00	0.00	0.00	1117889.00
	Grand Total	0.00	58759680.4	17508132.00	76267812.4	57606058.00	0.00	18661754.40
			0		0			

SCHEDULE- 3B							
SPONSORED FELLOWSHIP & SCHOLARSHIP							
Sr.No.	Name of the Project	Opening Balance		Transaction During the Year		Closing Balance	
		Cr	Dr	Cr	Dr	Cr	Dr

1	Scholarships to Students(Other state)	5970674.00	0.00	6821355.00	6265224.00	6526805.00	0.00
	Grand Total	5970674.00	0.00	6821355.00	6265224.00	6526805.00	0.00

SCHEDULE- 3C		
UNUTILIZED GRANT FROM UGC, CG, SG		
PARTICULAR	Current Year	Previous Year
A.Plan Grants: MHRD, GOI		
(i) Opening Balance	221,47,565.80	1248,13,326.87
Addition During the Year	2625,00,000.00	2500,00,000.00
Income from investments made of the funds	0.00	0.00
Accrued Income from the Investments/Advances	0.00	0.00
Interest on Saving Banks A/c	0.00	0.00
Other Additions - Interest Provided by institute	0.00	0.00
TOTAL (A)	2846,47,565.80	3748,13,326.87
Utilisation / Expenditure towards objective of Funds	-	
Capital Expenditure	2713,02,207.51	3526,65,761.07
Revenue Expenditure	0.00	
Other Deductions	0.00	
TOTAL (B)	2713,02,207.51	3526,65,761.07
	-	
Closing Balance at the Year End (A-B)	133,45,358.29	221,47,565.80
B.Non-Plan Grants: MHRD, GOI		
(i) Opening Balance	0.00	0.00
Addition During the Year	400,00,000.00	1250,00,000.00

Income from investments made of the funds	0.00	0.00
Accrued Income from the Investments/Advances	0.00	0.00
Interest on Saving Banks A/c	0.00	0.00
Other Additions - Interest Provided by institute	0.00	0.00
TOTAL (A)	400,00,000.00	1250,00,000.00
Utilisation / Expenditure towards objective of Funds	-	
Capital Expenditure	0.00	0.00
Revenue Expenditure	400,00,000.00	1250,00,000.00
Other Deductions	0.00	0.00
TOTAL (B)	400,00,000.00	1250,00,000.00
	-	
Closing Balance at the Year End (A-B)	0.00	0.00
Grand Total(A+B)	133,45,358.29	221,47,565.80

SCHEDULE- 15 A			
EMPLOYEES RETIREMENT AND TERMINAL BENEFITS			
PARTICULAR	GRATUITY	LEAVE ENCASHMENT	TOTAL
Opening Balance as on 01.04.2014	460,91,235.00	472,51,709.00	933,42,944.00
Add: Capitalize value of Contributions received from other organizations	0.00	0.00	0.00
Total (A)	460,91,235.00	472,51,709.00	933,42,944.00
Less: Actual Payment During the Year (B)	10,00,000.00	0.00	10,00,000.00
Balance Available of 31.03.2015 (C=A-B)	450,91,235.00	472,51,709.00	923,42,944.00

Provision Required on 31.03.2015(D)	484,49,187.00	535,01,692.00	1019,50,879.00
1. Provision to be made in Current Year(D-C)	33,57,952.00	62,49,983.00	96,07,935.00
2. Contribution to NPS			76,37,354.00
3. Medical Reimbursements to Retired Employees			0.00
4. Travel to Home Town on Retirement			0.00
5. Deposit linked Insurance Payment			3,60,000.00
TOTAL (1+2+3+4+5)			176,05,289.00

Schedule- 4 :												
(A) Fixed Assets:												
S.No.	Description of assets	Rate of Dep	GROSS BLOCK				ACCUMULATED DEPRICIATION				NET BLOCK	
			Cost of Assets as on 01.04.2014	Addition During the year 2014-15	Disposal / Transfer of Assets	Closing Balance as on 31.03.2015	Depriciation upto 31.03.2014	Depriciation for 2014-15	Deductions/Adjustments	Depriciation as on 31.03.2015	As on 31.03.2014	As on 31.03.2015
1	Land	0.00 %	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	Site Development	0.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Building	2.00 %	39,23,110.00	58,89,222.00	0.00	98,12,332.00	11,33,335.00	1,82,346.00	0.00	13,15,681.00	27,89,775.00	84,96,651.00
4	Roads & Bridges	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5	Tubewells & Water Supply	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Sewrage & Drainage	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Electrical Installation & Equipments	5.00%	35,37,086.00	6,40,319.00	0.00	41,77,405.00	28,61,798.00	2,08,870.00	0.00	30,70,668.00	6,75,288.00	11,06,737.00
8	Plant & Machinery	5.00%	108,83,007.00	6,57,681.00	0.00	115,40,688.00	44,73,890.00	5,77,034.00	0.00	50,50,924.00	64,09,117.00	64,89,764.00
9	Scientific & Laboratory Equipment	8.00%	1009,97,807.00	637,04,115.51	#####	1642,69,348.58	289,88,361.00	131,41,548.00	0.00	421,29,909.00	720,09,446.07	1221,39,439.58
10	Office Equipment	7.50%	37,07,738.00	3,83,546.00	0.00	40,91,284.00	20,54,558.50	3,06,846.00	0.00	23,61,404.50	16,53,179.50	17,29,879.50
11	Audio Visual Equipment	7.50%	59,56,137.00	11,77,474.00	0.00	71,33,611.00	29,32,127.50	5,35,022.00	0.00	34,67,149.50	30,24,009.50	36,66,461.50
12	Computer & Pheripharals	20.00%	911,80,972.00	532,10,463.00	0.00	1443,91,435.00	493,68,677.50	288,78,287.00	0.00	782,46,964.50	418,12,294.50	661,44,470.50
13	Furniture Fixtures & Fittings	7.50%	212,69,078.00	40,60,511.00	0.00	253,29,589.00	117,90,592.00	18,99,719.00	0.00	136,90,311.00	94,78,486.00	116,39,278.00
14	Vehicles	10.00%	37,61,834.13	1.00	0.00	37,61,835.13	17,16,696.00	3,76,183.00	0.00	20,92,879.00	20,45,138.13	16,68,956.13
15	Library Books & Journals	10.00%	332,31,930.00	71,46,625.00	0.00	403,78,555.00	79,28,546.00	40,37,855.00	0.00	119,66,401.00	253,03,384.00	284,12,154.00
16	Sports Equipments	5.00%	9,44,875.00	1.00	0.00	9,44,876.00	5,46,121.00	47,244.00	0.00	5,93,365.00	3,98,754.00	3,51,511.00
	TOTAL (A)		2793,93,574.20	1368,69,959.51	4,32,574.00	4158,30,959.71	1137,94,702.50	501,90,954.00	0.00	1639,85,656.50	1655,98,871.70	2518,45,303.21
(B) Capital Work in Progress			8856,60,084.00	1297,01,448.00	0.00	10153,61,532.00	0.00	0.00	0.00	0.00	8856,60,084.00	10153,61,532.00
(C) Intangible Assets:												
			GROSS BLOCK				ACCUMULATED DEPRICIATION				NET BLOCK	
S.N o.	Description of assets	Rate of Dep	Cost of Assets as on	Addition During the year 2014-	Disposal / Transfe	Closing Balance as on	Depriciatio n upto 31.03.2014	Depre ciation for 2014-15	Deductions/Adj ustments	Depriciati on as on 31.03.2015	As on 31.03.2014	As on 31.03.2015

			01.04.2014	15	r of Assets	31.03.2015						
1	Computer Softwares	40.0	268,68,776			270,20,153.0		108,08,061.		204,26,339.	172,50,497.	
2		0%	.00	1,51,377.00	0.00	0	96,18,278.50	00	0.00	50	50	65,93,813.50
3												
	E-Journals	40.0	0.00	45,79,423.00	-	45,79,423.00	-	18,31,769.0	-	18,31,769.0	-	27,47,654.00
	Patents	11.1	0.00	-	-	-	-	-	-	-	-	-
	TOTAL (C)		26868776.00	4730800.00	0.00	31599576.00	9618278.50	12639830.00	0.00	22258108.50	17250497.50	9341467.50
	GRAND TOTAL (A+B+C)		11919,22,434.20	2713,02,207.51	4,32,574.00	14627,92,067.71	1234,12,981.00	628,30,784.00	0.00	1862,43,765.00	10685,09,453.20	12765,48,302.71

SCHEDULES FORMING PART OF THE BALANCE SHEET

Schedule- 4 A : PLAN

(A)Fixed Assets:

S.No.	Description of assets	Rate of Dep	GROSS BLOCK				ACCUMULATED DEPRICIATION				NET BLOCK	
			Cost of Assets as on 01.04.2014	Addition During the year 2014-15	Disposal / Transfer of Assets	Closing Balance as on 31.03.2015	Depriciation upto 31.03.2014	Depriciation for 2014-15	Deductions/Adjustments	Depriciation as on 31.03.2015	As on 31.03.2014	As on 31.03.2015
1	Land	0.00%	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00
2	Site Development	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Building	2.00%	39,23,110.00	58,89,222.00	0.00	98,12,332.00	11,33,335.00	1,82,346.00	0.00	13,15,681.00	27,89,775.00	84,96,651.00
4	Roads & Bridges	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Tubewells & Water Supply	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Sewrage & Drainage	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Electrical Installation & Equipments	5.00%	35,37,086.00	6,40,319.00	0.00	41,77,405.00	28,61,798.00	2,08,870.00	0.00	30,70,668.00	6,75,288.00	11,06,737.00
8	Plant & Machinery	5.00%	108,83,007.00	6,57,681.00	0.00	115,40,688.00	44,73,890.00	5,77,034.00	0.00	50,50,924.00	64,09,117.00	64,89,764.00
9	Scientific & Laboratory	8.00%	1009,97,80	637,04,115.5	#####	1642,69,348.	289,88,361.0	131,41,548.	0.00	421,29,909.	720,09,446.	1221,39,439.

10	Equipment	%	7.07	1	###	58	0	00		00	07	58
		7.50	37,07,738.	3,83,546.00	0.00	40,91,284.00	20,54,558.50	3,06,846.00	0.00	23,61,404.50	16,53,179.50	17,29,879.50
	Office Equipment	%	00							0	0	
11		7.50	59,56,137.	11,77,474.00	0.00	71,33,611.00	29,32,127.50	5,35,022.00	0.00	34,67,149.50	30,24,009.50	36,66,461.50
	Audio Visual Equipment	%	00							0	0	
12	Computer & Pheripharals	20.0	911,80,972	532,10,463.0	0.00	1443,91,435.	493,68,677.5	288,78,287.	0.00	782,46,964.	418,12,294.	661,44,470.5
		0%	.00	0		00	0	00		50	50	0
13	Furniture Fixtures & Fittings	7.50	212,69,078	40,60,511.00	0.00	253,29,589.0	117,90,592.0	18,99,719.0	0.00	136,90,311.	94,78,486.0	116,39,278.0
		%	.00			0	0	0		00	0	0
14	Vehicles	10.0	37,61,834.	1.00	0.00	37,61,835.13	17,16,696.00	3,76,183.00	0.00	20,92,879.0	20,45,138.1	16,68,956.13
		0%	13							0	3	
15	Library Books & Journals	10.0	332,31,930	71,46,625.00	0.00	403,78,555.0	79,28,546.00	40,37,855.0	0.00	119,66,401.	253,03,384.	284,12,154.0
		0%	.00			0	0	0		00	00	0
16	Sports Equipments	5.00	9,44,875.0	1.00	0.00	9,44,876.00	5,46,121.00	47,244.00	0.00	5,93,365.00	3,98,754.00	3,51,511.00
		%	0									
	TOTAL (A)		2793,93,57	1368,69,959.	4,32,57	4158,30,959.	1137,94,702.	501,90,954.		1639,85,65	1655,98,871	2518,45,303.
			4.20	51	4.00	71	50	00	0.00	6.50	.70	21
(B) Capital Work in Progress												
			8856,60,08	1297,01,448.	0.00	10153,61,53	0.00	0.00	0.00	0.00	8856,60,084	10153,61,532
			4.00	00	0.00	2.00	0.00	0.00	0.00	0.00	.00	.00
(C)Intangible Assets:												
			GROSS BLOCK				ACCUMULATED DEPRICIATION				NET BLOCK	
S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2014	Addition During the year 2014-15	Disposal / Transfer of Assets	Closing Balance as on 31.03.2015	Depriciation upto 31.03.2014	Depriciation for 2014-15	Deductions/Adjustments	Depriciation as on 31.03.2015	As on 31.03.2014	As on 31.03.2015
1	Computer Softwares	40.0	26868776.	151377.00	0.00	27020153.00	9618278.50	10808061.0	0.00	20426339.5	17250497.5	6593813.50
		0%	00					0		0	0	
2	E-Journals	40.0	0.00	4579423.00	0.00	4579423.00	0.00	1831769.00	0.00	1831769.00	0.00	2747654.00
		0%										
3	Patents	11.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1%										
	TOTAL (C)		268,68,776	47,30,800.00	0.00	315,99,576.0	96,18,278.50	126,39,830.	0.00	222,58,108.	172,50,497.	93,41,467.50
			.00			0		00	0.00	50	50	

GRAND TOTAL (A+B+C)			11919,22,4 34.20	2713,02,207. 51	4,32,57 4.00	14627,92,06 7.71	1234,12,981. 00	628,30,784. 00		0.00	1862,43,76 5.00	10685,09,45 3.20	12765,48,302 .71
SCHEDULES FORMING PART OF THE BALANCE SHEET													
Schedule- 4 B : NON PLAN													
(A)Fixed Assets:													
			GROSS BLOCK				ACCUMULATED DEPRICIATION				NET BLOCK		
S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2014	Addition During the year 2014-15	Disposal / Transfer of Assets	Closing Balance as on 31.03.2015	Depriciation upto 31.03.2014	Depre ciation for 2014-15	Deductions/Adj ustments	Depriciati on as on 31.03.2015	As on 31.03.2014	As on 31.03.2015	
1	Land	0.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	Site Development	0.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3		2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	Building	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	Roads & Bridges	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	Tubewells & Water Supply	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	Sewrage & Drainage	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	Electrical Installation & Equipments	5.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	Plant & Machinery	5.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	Scientific & Laboratory Equipment	8.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	Office Equipment	7.50 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	Audio Visual Equipment	7.50 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	Computer & Pheripharals	20.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	Furniture Fixtures & Fittings	7.50 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	Vehicles	10.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

15	Library Books & Journals	10.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Sports Equipments	5.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL (A)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(B) Capital Work in Progress		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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(C) Intangible Assets:

			GROSS BLOCK				ACCUMULATED DEPRICIATION				NET BLOCK	
S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2014	Addition During the year 2014-15	Disposal / Transfer of Assets	Closing Balance as on 31.03.2015	Depriciation upto 31.03.2014	Depriciation for 2014-15	Deductions/Adjustments	Depriciation as on 31.03.2015	As on 31.03.2014	As on 31.03.2015
1	Computer Softwares	40.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	E-Journals	40.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Patents	11.11%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL (C)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GRAND TOTAL (A+B+C)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SCHEDULES FORMING PART OF THE BALANCE SHEET

Schedule- 4 C : INTANGIBLE ASSETS

S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2014	Addition During the year 2014-15	Disposal / Transfer of Assets	Closing Balance as on 31.03.2015	Depriciation upto 31.03.2014	Depriciation for 2014-15	Deductions/Adjustments	Depriciation as on 31.03.2015	As on 31.03.2014	As on 31.03.2015
1	Computer Softwares	40.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	E-Journals	40.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Patents	11.11%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SCHEDULES FORMING PART OF THE BALANCE SHEET												
Schedule- 4 C (i) : PATIENTS & COPYRIGHTS												
S.No.	Particulars		Opening Balance	Addition	Gross		Amortization	NET BLOCK as on 31.03.2014		NET BLOCK as on 31.03.2015		
A	Patients Granted											
1	Balance as on 31.03.2014 of Patients		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	Patents Granted during the year		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	TOTAL (A)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
B	Patients Pending in respect of Patients Applied for											
1	Expenditure incurred during 2013-14		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	Expenditure incurred during 2014-15		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	TOTAL (B)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	GRAND TOTAL (A+B)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SCHEDULES FORMING PART OF THE BALANCE SHEET												
Schedule- 4 D : OTHERS												
(A)Fixed Assets:												
			GROSS BLOCK				ACCUMULATED DEPRICIATION				NET BLOCK	
S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2014	Addition During the year 2014-15	Disposal / Transfer of Assets	Closing Balance as on 31.03.2015	Depriciation upto 31.03.2014	Depre ciation for 2014-15	Deductions/Adj ustments	Depriciation as on 31.03.2015	As on 31.03.2014	As on 31.03.2015
1	Land	0.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Site Development	0.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Building	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Roads & Bridges	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Tubewells & Water Supply	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Sewrage & Drainage	2.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

7	Electrical Installation & Equipments	5.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Plant & Machinery	5.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Scientific & Laboratory Equipment	8.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Office Equipment	7.50 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Audio Visual Equipment	7.50 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Computer & Pheriparals	20.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Furniture Fixtures & Fittings	7.50 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Vehicles	10.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Library Books & Journals	10.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Sports Equipments	5.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(B) Capital Work in Progress			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GRAND TOTAL (A+B)			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

RECEIPTS & PAYMENTS A/C FOR THE YEAR ENDING 31.03.2015

Receipts	Current Year	Previous Year	Payments	Current Year	Previous Year

<u>Opening Balance</u>			Expenses	3507,46,374.87	3140,29,963.00
CASH BALANCE	81,140.00	1,17,750.00	Establishment expenses	2668,81,951.00	2488,52,218.00
BANK BALANCE	189,94,443.10	314,03,348.28	Academic expenses	257,78,125.00	223,78,790.00
Canara Bank A/C No. 20996 Non-Plan (Saving) 30054181310	152,32,319.42	7,05,633.00	Administrative expenses	536,76,851.26	361,66,448.00
SBI Bank A/c. No. 30042955244	77,920.00	238,21,238.00	Transportation expenses	13,66,342.00	9,76,698.00
SBI Bank A/c. No. 31794300805	12,34,561.28	28,82,966.28	Repairs & Maintenance expenses	30,43,105.61	56,55,809.00
GPF Banl A/c. No. 31255750394	64,029.00	26,86,630.00	Prior Period expenses	<u>0.00</u>	<u>0.00</u>
	3,40,064.00	6,44,192.00			
SBI Bank A/c. No. 30007211525	<u>20,45,549.40</u>	<u>6,62,689.00</u>	Payments against Earmarked/Endowment Fund	75,01,817.00	25,34,594.00
	2025,00,000.0	3750,00,000.0			
Grant Received	0	0	Payments Against Sponsored Projects/ Schemes	505,84,043.00	62,26,320.00
		1250,00,000.0			
Non Plan From MHRD, GOI	400,00,000.00	0			
	1625,00,000.0	2500,00,000.0			
Plan From MHRD, GOI	0	0			
	2070,81,936.9	1660,72,371.0	Payments Against Sponsered Fellowship & Scholarships	62,65,224.00	91,00,398.00
Academics Receipts	1	0			
			Investments & Deposits made : Out of Earmarked/Endowment Funds	4269,70,000.00	3001,10,000.00
				0.00	0.00
			Out of Own Funds (Investments- Others)	4269,70,000.00	3001,10,000.00
Receipts against Earmarked/Endowment Fund	56,242.00	8,45,000.00			

			Term Deposits with Scheduled Banks	1500,00,000.00	2409,89,197.00
Receipts Against Sponsored Projects/ Schemes	120,59,293.00	600,75,933.40			
			Expenditure on Fixed Assets & Capital WIP	2646,23,620.00	3326,38,869.00
Receipts Against Sponsered Fellowship & Scholarships	68,21,355.00	81,11,866.00	Fixed Assets	1375,16,025.00	810,41,436.00
			Capital WIP	<u>1271,07,595.00</u>	<u>2515,97,433.00</u>
Income on Investments	24,30,797.00	21,14,020.00			
Earmarked/Endowment Funds	24,30,797.00	21,14,020.00	Other Payments Including Statutory Payments	268,80,544.13	228,60,764.00
Other Investments	<u>0.00</u>	<u>0.00</u>			
			Refund of Grants	0.00	0.00
Interest Received	470,27,705.00	326,12,783.00			
Bank Deposits	462,35,034.00	313,61,918.00	Deposits & Advances	232,65,824.00	138,67,065.00
Saving Bank Accounts	<u>7,92,671.00</u>	<u>12,50,865.00</u>			
			Other Payments	29,27,313.00	25,44,431.00
Investments Encashed	4388,95,695.60	2851,82,487.00			
			<u>Closing Balances</u>		
Term Deposits with Scheduled Banks Encashed	3542,37,514.00	2600,00,000.00	CASH BALANCE	1,34,025.00	81,140.00
			BANK BALANCE	349,94,777.61	189,94,443.10
Other Income (Including prior period income)	250,74,468.50	213,65,170.50	Canara Bank A/c. No. 20996	21,02,353.02	152,32,319.42
			Non-Plan (Saving) 30054181310	307,64,796.00	77,920.00
Deposits & Advances	133,37,044.90	64,01,755.00	SBI Bank A/c. No. 30042955244	10,55,473.28	12,34,561.28

Misc. Receipts Including Statutory Receipts	84,57,560.00	70,01,566.00	SBI Bank A/c. No. 31794300805	5,79,936.91	64,029.00
			GPF Banl A/c. No. 31255750394	-3,01,649.00	3,40,064.00
Other Receipts	78,38,367.60	76,73,133.92	SBI Bank A/c. No. 30007211525	<u>7,93,867.40</u>	<u>20,45,549.40</u>
TOTAL	13448,93,562. 61	12639,77,184. 10	TOTAL	13448,93,562.61	12639,77,184.10

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

SCHEDULE - "23" SIGNIFICANT ACCOUNTING POLICIES AND NOTES TO ACCOUNTS :

A. INSTITUTE OVERVIEW :

The National Institute of Technology, Raipur was established by an Act of Parliament called "The National Institute of Technology Act 2007", now known as "The National Institute of Technology, Science, Education & Research Act 2007" as an 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 "The National Institute of Technology, Science, Education & Research Act 2007". As per MHRD, GOI Letter No. 29-4/2012-IFD DT 17.04.2015 the accounts of the Institute is prepared in Revised formats of accounts of Central Educational Institutions. The accounts of the Institute are prepared under Historical Cost convention and in accordance with applicable accounting standards, except where otherwise stated.

2. 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 and Hostel fees are accounted for on Academic Session basis i.e. July to June.

(e) All other revenues are recognized on the basis of accrual system of accounting.

3. FIXED ASSETS & DEPRECIATION

- 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 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.
- v)The MHRD, GOI has recently directed that the Annual Accounts shall be presented in the modified format applicable to Central Educational Institutions. As per this format depreciation is required to be charged on fixed assets on SLM(Straight line method) method as prescribed in the said format (Letter No. 29-4/2012-IFD DT 17.04.2015). The Prescribed Rate of Depreciation are as under:

S.No	Particulars	Rate of Depreciation
1	Land	0.00%
2	Site Development	0.00%
3	Building	2.00%
4	Roads & Bridges	2.00%
5	Tubewells & Water Supply	2.00%
6	Sewrage & Drainage	2.00%
7	Electrical Installation & Equipments	5.00%
8	Plant & Machinery	5.00%
9	Scientific & Laboratory Equipment	8.00%
10	Office Equipment	7.50%
11	Audio Visual Equipment	7.50%
12	Computer & Pheripharals	20.00%
13	Furniture Fixtures & Fittings	7.50%

14	Vehicles	10.00%
15	Library Books & Journals	10.00%
16	Sports Equipments	5.00%
17	Computer Softwares	40.00%
18	E- Journals	40.00%
19	Patents	9 Years

vi) Full cost of all small and low value assets, each costing Rs.5000/- or less under Fixed assets are taken as assets and fully depreciated in the year in which the assets are put to use.

4. INTANGIBLE ASSETS

E Journals & Computer softwares are grouped under Intangible assets.

- i) Electronic Journals (E-Journals) are separated from Library Books in view of the limited benefit that could be derived from the on-line access provided. E-Journals are not in tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge acquired by the academic & research staff.
- ii) Expenditure on acquisition of software has been separated from computers & peripherals, as part from being intangible assets.

5. INVENTORY

Cost of Consumables are charged to income and expenditure account as when purchased, as the total expenditure on Consumables comprises of very minor share. 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.

6. 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.

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. 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 recognised 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".

v) Grants from MHRD, GOI are accounted on realisation basis. However, where a sanction for release of grants pertaining to the F.Y. is received before 31st March & the grant is actually received in the next F.Y., the grant is accounted on accrual basis & equal amount is shown as MHRD Grant Receivable.

9. INCOME TAX

The income of the institute is exempt from income tax under section 10(23c) of the Income Tax Act. No provision for tax is therefore made in the books of accounts.

10. 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.

11 . 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.

12. CASH AND CASH EQUIVALENT

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

13. 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 recognised in the period in which the results are known / materialised.

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. 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 5341016.89.

2. DEPRICIATION ON FIXED ASSETS IN 2014-

15:

Depreciation on Fixed Assets purchased in 2014-15 has been calculated as prescribed in common format of Accounting and charged to Income and Expenditure account by Rs 62830784.00. The same amount is recognized in Income and expenditure account in Schedule 13 under the head "**Other Income**" by corresponding debit to Deffered Government Grant .

Due to change in rate of Depreciation as per revised format is as follows

PARTICULARS	DEPRICIATION FROM 01.04.2014 TO 31.03.2015
DEPRICIATION as per Revised Rates	628,30,784.00

DEPRICIATION as Per Old Rates		531,86,457.00
Additional Depreciation due to change in Prescribed Rates		96,44,327.00

4. GPF (CORPUS) - SCHEDULE

C

- i) The Institute has provided interest on GPF fund balance for the year 2014-15.
- ii) The GPF corpus fund is invested in Fixed deposits till the statutory formalities are not completed.

5. RETIREMENT BENEFITS

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

1. Defined Contribution Plans

- a. Employers Contribution to New Pension Scheme

Following amount has been recognized in Profit & Loss Account

PARTICULARS	As on 31.03.2015	As on 31.03.2014
Employers Contribution to New Pension Scheme	76,37,354 .00	62,27,988.00

2. Defined Benefit Plan

- a) Provision for Gratuity is made on the basis of calculations made as per the rules.and restricted to a maximum limit of Rs.10,00,000=00 {applicable from 01.01.2006.
- b) Provision for Leave is made as per rules.

6. FIXED ASSETS MANAGEMENT WORK

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

During the year 2014-15, the fixed assets received from GEC has been identified and account for in the books of accounts on nominal value except Hostel "C" since the same has been approved for dismantling vide resolution no. 29.4 of BOG dated 19.02.2015 approved on 24.04.2015.

7 Other Notes

1. An Amount of Rs.22,75,000.00 has been provided as interest in the project fund teqip from general reserve in the year 2014-15,since the bank account of teqip project were maintained with NIT. As per the guidelines of TEQIP separate bank account has been opened & Books of accounts for the teqip project is being maintained separately.

2. During the Year, liability fund has been created out of Gernerall Reserve as the same was recognised as income in the year of receipt from the Grantee. The details of fund created are as under:

a. K K Sughandhi Memorial Award Fund

b. K K Sughandhi Memorial Scholarship Fund

- 8** Corresponding figures for the previous year have been regrouped/rearranged as per new format provided by MHRD, GOI Letter No. 29-4/2012-IFD DT 17.04.2015, wherever necessary.
- 9** 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.
- 1** Schedules 1 to 22 are annexed to and form an integral part of the Balance Sheet as at
- 0** 31.03.2015 and the Income and Expenditure account for the year ended on that date.