

ANNUAL REPORT

(Including Audited Accounts)

2017-2018

(April 01, 2017 – March 31, 2018)



NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR,

G.E. ROAD, RAIPUR 492 010

CHHATTISGARH, INDIA.

An Institute of National Importance Under

Ministry of Human Resource Development,

Government of India

PAPERS TO BE LAID ON THE TABLE OF LOK/RAJYA SABHA

ANNUAL REPORT & ANNUAL ACCOUNTS

2017-2018

(AUTHENTICATED)

(SHRI Prakash Javadekar)

HON'BLE MINISTER OF HUMAN RESOURCE DEVELOPMENT

NEW DELHI

DATED :



NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR,

RAIPUR

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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 Bilai.

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 PhD 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	Director, Acting Chairman (As per Statute No. 17(15) read with Section 16 of NITSER Act 2012)	Chairman
2	Dr. S. Tiwari Director, NIT Raipur	Member (up to 24.07.2017)
	Dr. A. M. Rawani Director, NIT Raipur	Member (from 25.07.2017)
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	Shri Kamal Sarda CMD, Sarda Enegy & Minerals Ltd Industrial Growth Center, Phase-I Siltara, Raipur	Member Nominee of Govt. of Chhattisgarh (up to 28.09.2017)
6	Ms. Sulochana Gadgil Fellow of National Academic of Sciences Allahabad	Member
7	Ms. Geeta Varadan Director, ADRIN, Department of Space, Hyderabad	Member
8	Dr. (Mrs) A. B. Soni Professor, Department of Chemical Engineering NIT Raipur	Member (up to 27.09.2017)
	Dr. (Mrs) F. Khan Professor, Department of Chemistry, NIT Raipur	Member (from 28.09.2017)
9	Prof. A. P. Rajimwale Associate Professor, Department of Metallurgical Engineering, NIT Raipur	Member (up to 06.09.2017)
	Dr. Manoj Chopkar Assistant Professor, Department of Metallurgical Engineering, NIT Raipur	Member (from 07.09.2017)
10	Dr. Neelesh Kumar Jain Professor, Department of Mechanical Engineering IIT Indore	Member
11	Dr. P. Y. Dhekne Registrar (I/c), NIT Raipur	Secretary

2.2 Finance Committee

1	Director, Acting Chairman (As per Statute No. 17(15) read with Section 16 of NITSER Act 2012)	Chairman
2	Dr. S. Tiwari Director, NIT Raipur	Member (up to 24.07.2017)
	Dr. A. M. Rawani Director, NIT Raipur	Member (from 25.07.2017)
3	Joint Secretary Ministry of Human Resource Development, Department of Higher Education, New Delhi	Member
4	Financial Adviser Ministry of Human Resource Development, Department of Higher Education, New Delhi	Member
5	Ms. Geeta Varadan Director, ADRIN, Department of Space, Hyderabad	Member
6	Dr. (Mrs) A. B. Soni Professor, Department of Chemical Engineering NIT Raipur	Member (up to 27.09.2017)
	Dr. (Mrs) F. Khan Professor, Department of Chemistry NIT Raipur	Member (from 28.09.2017)
7	Dr. P. Y. Dhekne Registrar (I/c), NIT Raipur	Member Secretary

2.3 The Senate

1	Dr. S. Tiwari	Director, NIT Raipur	Chairman (up to 24.07.2017)
	Dr. A. M. Rawani	Director, NIT Raipur	Chairman (from 25.07.2017)
2	Dr. Bani Chatterjee	Professor, Dept. of Humanities & Social Science, IIT Kharagpur	Member
3	Dr. K. D. Kulat	Professor, VNIT Nagpur	Member
4	Dr. (Mrs.) G. Ambika	Professor, IISER Pune	Member
5	Dr. Shrish Verma	Dean (Academics)	Member
6	Dr. A.M. Rawani	Dean (Faculty Welfare)	Member
	Prof. A. P. Rajimwale	Dean (Faculty Welfare)	Member

			(from 01.08.2017)
7	Dr. G.D. Ramtekkar	Dean (Planning & Development)	Member
8	Dr. S. Sanyal	Dean (Research & Consultancy)	Member
9	Dr. P. Diwan	Dean (Students Welfare) & Head, Applied Geology	Member
10	Dr. A. Bandyopadhyay	Head, Dept. of Architecture	Member
11	Dr. B.K. Singh	Head, Dept. of Biomedical Engineering	Member
12	Dr. L. S. B. Upadhyay	Head, Dept. of Biotechnology	Member
13	Dr. U.K. Dewangan	Head, Dept. of Civil Engineering	Member
14	Dr. A. K. Poonia	Head, Dept. of Chemical Engineering	Member
15	Dr. S. P. Mahapatra	Head, Dept. of Chemistry	Member
16	Dr. Subhojit Ghosh	Head, Dept. of Electrical Engineering	Member
17	Dr. A. S. Raghuvanshi	Head, Dept. of Electronics & Telecomm. Engineering	Member
18	Dr. Sudhakar Pandey	Head, Dept. of Information Technology	Member
19	Dr. R. P. Pathak	Head, Dept. of Mathematics	Member
20	Dr. A.K. Tiwari	Head, Dept. of Mechanical Engineering	Member
21	Dr. Pankaj Dewangan	Head, Dept. of Mining Engineering	Member
22	Dr. Manoj Chopkar	Head, Dept. of Metallurgical Engineering	Member
23	Dr. A. K. Srivastava	Head, Dept. of Physics	Member
24	Dr. (Mrs) A. B. Soni	Professor, Dept. of Chemical Engineering	Member
25	Dr. (Mrs.) F. Khan	Professor, Dept. of Chemistry	Member
26	Dr. (Mrs) S. Gupta	Professor, Dept. of Electrical	Member

		Engineering	
27	Dr. S. D. Patle	Professor, Dept. of Mechanical Engineering	Member
28	Dr. S. P. S. Matharu	Professor, Dept. of Mechanical Engineering	Member
29	Dr. S. Agrawal	Professor, Dept. of Physics	Member
30	Dr. M. Atulkar	Professor I/c (Examinations)	Special-Invitee
31	Dr. D. S. Sisodia	Head, Dept. of Computer Science & Engineering	Member
32	Dr. Samir Bajpai	Head, Dept. of Humanities	Member
33	Shri H. Bikrol	Head, Dept. of Computer Applications	Member
34	Dr. (Mrs.) S. L. Sinha	Professor, Dept. of Mechanical	Member
35	Dr. Rahul Salhotra	Professor, Dept. of Mechanical	Member
36	Dr. Manoj Pradhan	Professor, Dept. of Mining	Member
37	Dr. Pradeep Singh	Assistant Professor, Dept. of Computer Science & Engineering	Member
38	Dr. P. Y. Dhekne	Registrar (I/c)	Secretary

2.4 Building & Works Committee

1	Dr. S. Tiwari, Director, NIT Raipur	Chairman
	Dr. A. M. Rawani, Director, NIT Raipur	Chairman
2	Mr. Salil Shrivastava, Chief Engineer, Naya Raipur Development Authority, Naya Raipur (Chhattisgarh)	Member
3	Executive Engineer,	Member

	(Civil) CPWD Raipur	
4	Executive Engineer, (Electrical), CPWD Raipur	Member
5	Dr. G. D. Ramtekkar, Dean (Planning & Development), NIT Raipur	Member
6	Dr. P.Y. Dhekne, Registrar (I/c). NIT Raipur	Member Secretary

3. ADMINISTRATION

3.1 Administrative Officers & Deans

S.No.	Name	Qualification	Designation/Section
1.	Dr. S. Tiwari	PhD	Director (up to 24.07.2017)
	Dr. A. M. Rawani	PhD	Director (from 25.07.2017)
2	Dr. P. Y. Dhekne	PhD	Registrar (I/c)
2	Dr. Shrish Verma	PhD	Dean (Academics)
4	Dr. S. Sanyal	PhD	Dean (Research & Consultancy)
5	Dr. G. D. Ramtekkar	PhD	Dean (Planning & Development)
7	Dr. A. M. Rawani	PhD	Dean (Faculty Welfare)
	Shri A.P. Rajimwale	MTech	Dean (Faculty Welfare) (from 01.08.2017)
8	Dr. P. Diwan	PhD	Dean (Students Welfare)
9	Shri Ajaii Sharma	MTech	Deputy Registrar (Admin) & Nodal Officer-Legal Cell
10	Shri Sunil Pandey	MTech	Senior Technical Officer (IT)
11	Shri Mani Shankar Singh	MBA	Assistant Registrar (F&A) & Deputy Registrar (I/c) (F&A)
12	Shri Shailesh Vaidya	ME (IE&M)	Senior Technical Officer (Workshop)

13	Shri Vijay Singh	MBA	Assistant Registrar (S&P)& Public Information Officer
14	Shri Liju Mathew	MBA	Assistant Registrar (Establishment)
15	Shri Sudarshan Bhadra	MBA	Assistant Registrar (Student Section)
16	Shri Ravindra Chouhan	MCA	Technical Officer
17	Shri Suraj Pratap Shrivastav	BE	Executive Engineer
18	Shri Astik Kumar	BE	Junior Engineer
19	Shri Balram Nayak	MA	Security Officer

4. ACADEMIC AND OTHER DETAILS

4.1 Courses Offered

Under Graduate courses are offered in following disciplines:

S.No.	Programme	Department
1.	B.Tech	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
2.	B.Arch	1. Architecture

Post Graduate courses are offered in following disciplines:

S.No.	Programme	Department	Specialization
1.	M.Tech	Applied Geology	Applied Geology

2.	M.Tech	Chemical Engineering	Chemical Engineering
3.	M.Tech	Civil Engineering	1. Structural Engineering 2. Water Resource Develop. & Irrigation Engineering
4.	M.Tech	Electrical Engineering	Power System & Control
5.	M.Tech	Information Technology	Information Technology
6.	M.Tech	Mechanical Engineering	1. Thermal Engineering 2. Machine Design 3. Industrial Engineering and Management
7.	M.Tech	Electronics & Telecommunication Engineering	VLSI & Embedded Systems
8.	MCA	Master of Computer Applications	Master of Computer Applications

4.2 Admission Procedure

B.Tech./B.Arch :

The admission to 1st year of B.Tech./B.Arch Programme is made through the Joint Entrance Examination (Main) counselling 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 admission to 1st year of M.Tech (2 Yr) Programme is made by CCMT and as per the guidelines framed by Ministry of Human Resource Development, Govt. of India, Department of Higher Education.

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 ,counselling conducted by NIMCET and as per the guidelines framed by Ministry of Human Resource Development, Government of India.

PhD Courses:

The Institute Provides facilities for research including that for the degree of Doctor of Philosophy (PhD) in Engineering, Science, Humanities and Social Sciences. Total One Hundred Thirty Nine students (85 Full time & 54 Part time) have been registered (1st year) for perusing PhD 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 (2017-2018)
Under Graduate (B.Tech/B.Arch)**

Departments	Sanctioned Intake	Admissions
Architecture	62	58
Bio. Medical Engineering	62	56
Bio. Technology	62	56
Chemical Engineering	62	61
Civil Engineering	78	77
Computer Science & Engineering	92	92+1DASA
Electrical Engineering	92	89

Electronics& Telecommunication Engineering	92	91
Information Technology	92	91
Mechanical Engineering	92	91+1 DASA
Metallurgical Engineering	92	86
Mining Engineering	77	74
Total	955	924

Post Graduate (M.Tech/MCA)

Departments	Sanctioned Intake	Admissions
Applied Geology	15	13
Master of Computer Applications	92	86
Civil Engineering (Water Resource Develop.)	17	15
Civil Engineering (Structural)	13	13
Chemical Engineering	25	05
Mechanical Engineering (Thermal)	17	14
Mechanical Engineering (Machine Design)	13	11
Mechanical Engineering (Indst. Engg. & Mgmt)	13	11
Electrical Engineering	25	19
Information Technology	25	18
Electronics & Telecommunication Engineering (VLSI & Embedded Systems)	20	18
Total	275	223

Scholarship Details

Sr.No	Name of Scholarship	Sponsored by	UG / PG/PhD	No of Students	Amount Involved
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1	Post Metric Scholarship for SC	Tribal Welfare Dept. of C.G.	UG/PG	90	49,58,250
2	Post Metric Scholarship for ST	Tribal Welfare Dept. of C.G.	UG/PG	51	24,37,900
3	Post Metric Scholarship for OBC	Tribal Welfare Dept. of C.G.	UG/PG	204	94,17,330
4	Other State Scholarship for SC/ST/OBC/Gen	Other State	UG/PG	70	38,50,564
5	Central Scholarship for SC Students	Ministry of Social Justice & Empowerment, Govt.of India	UG	22	16,55,450
6	Central Scholarship for ST Students	Ministry of Tribal Affairs	UG	34	7,08,750
7	Swami Dayanand Education Foundation Scholarship	Swami Dayanand Education Foundation, New Delhi	UG	5	1,12,500
8	ONGC Scholarship	Oil And Natural Gas Corpo. Ltd. ONGC Academy Kaulagarh Road, Dehradun 248195	UG/PG	2	1,20,000
9	MTech	NIT Raipur	PG	187	2,52,75,943
10	PhD	NIT Raipur	PhD	172	5,51,19,211
Total				837	10,36,55,898

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.

UNDER GRADUATE PROGRAMME
(Spring 2017 & Autumn 2017)

FIRST SEMESTER

S. NO.	COURSE	BRANCH	SEM	APPEARED	PASSED	FAIL	PASS%
1	B. ARCH	ARCHITECTURE	I	57	41	16	71.93
2	B. TECH	BIO MEDICAL ENGINEERING	I	60	29	31	48.33
3	B. TECH	BIO TECHNOLOGY	I	59	28	31	47.46
4	B. TECH	CHEMICAL ENGINEERING	I	60	47	13	78.33
5	B. TECH	CIVIL ENGINEERING	I	84	60	24	71.43
6	B. TECH	COMP. SC. & ENGINEERING	I	95	71	24	74.74
7	B. TECH	ELECTRICAL ENGINEERING	I	94	67	27	71.28
8	B. TECH	ELEX. & TELE. ENGINEERING	I	96	59	37	61.46
9	B. TECH	INFORMATION TECHNOLOGY	I	95	71	24	74.74
10	B. TECH	MECHANICAL ENGINEERING	I	95	65	30	68.42
11	B. TECH	METALLURGICAL ENGINEERING	I	85	55	30	64.71
12	B. TECH	MINING ENGINEERING	I	73	58	15	79.45
TOTAL				953	651	302	68.31

SECOND SEMESTER

1	B. ARCH	ARCHITECTURE	II	46	37	9	80.43
2	B. TECH	BIO MEDICAL ENGINEERING	II	46	33	13	71.74
3	B. TECH	BIO TECHNOLOGY	II	42	35	7	83.33
4	B. TECH	CHEMICAL ENGINEERING	II	61	52	9	85.25
5	B. TECH	CIVIL ENGINEERING	II	79	70	9	88.61
6	B. TECH	COMP. SC. & ENGINEERING	II	97	79	18	81.44
7	B. TECH	ELECTRICAL ENGINEERING	II	93	82	11	88.17
8	B. TECH	ELEX. & TELE. ENGINEERING	II	95	78	17	82.11
9	B. TECH	INFORMATION TECHNOLOGY	II	90	82	8	91.11
10	B. TECH	MECHANICAL ENGINEERING	II	89	82	7	92.13
11	B. TECH	METALLURGICAL ENGINEERING	II	82	76	6	92.68
12	B. TECH	MINING ENGINEERING	II	83	56	27	67.47
TOTAL				903	762	141	84.39

THIRD SEMESTER

1	B. ARCH	ARCHITECTURE	III	44	35	9	79.55
2	B. TECH	BIO MEDICAL ENGINEERING	III	30	16	14	53.33
3	B. TECH	BIO TECHNOLOGY	III	34	22	12	64.71
4	B. TECH	CHEMICAL ENGINEERING	III	51	43	8	84.31
5	B. TECH	CIVIL ENGINEERING	III	82	73	9	89.02
6	B. TECH	COMP. SC. & ENGINEERING	III	102	89	13	87.25
7	B. TECH	ELECTRICAL ENGINEERING	III	96	75	21	78.13
8	B. TECH	ELEX. & TELE. ENGINEERING	III	101	78	23	77.23
9	B. TECH	INFORMATION TECHNOLOGY	III	106	87	19	82.08
10	B. TECH	MECHANICAL ENGINEERING	III	96	70	26	72.92
11	B. TECH	METALLURGICAL ENGINEERING	III	64	41	23	64.06
12	B. TECH	MINING ENGINEERING	III	76	64	12	84.21
TOTAL				882	693	189	78.57

FOURTH SEMESTER

1	B. ARCH	ARCHITECTURE	IV	55	42	13	76.36
2	B. TECH	BIO MEDICAL ENGINEERING	IV	46	19	27	41.30
3	B. TECH	BIO TECHNOLOGY	IV	44	17	27	38.64
4	B. TECH	CHEMICAL ENGINEERING	IV	56	37	19	66.07
5	B. TECH	CIVIL ENGINEERING	IV	83	76	7	91.57
6	B. TECH	COMP. SC. & ENGINEERING	IV	107	90	17	84.11
7	B. TECH	ELECTRICAL ENGINEERING	IV	106	70	36	66.04
8	B. TECH	ELEX. & TELE. ENGINEERING	IV	103	71	32	68.93
9	B. TECH	INFORMATION TECHNOLOGY	IV	103	85	18	82.52
10	B. TECH	MECHANICAL ENGINEERING	IV	99	88	11	88.89
11	B. TECH	METALLURGICAL ENGINEERING	IV	78	70	8	89.74
12	B. TECH	MINING ENGINEERING	IV	84	65	19	77.38
TOTAL				964	730	234	75.73

FIFTH SEMESTER

1	B. ARCH	ARCHITECTURE	V	55	34	21	61.82
2	B. TECH	BIO MEDICAL ENGINEERING	V	41	22	19	53.66
3	B. TECH	BIO TECHNOLOGY	V	44	24	20	54.55
4	B. TECH	CHEMICAL ENGINEERING	V	57	31	26	54.39
5	B. TECH	CIVIL ENGINEERING	V	90	70	20	77.78
6	B. TECH	COMP. SC. & ENGINEERING	V	100	90	10	90.00
7	B. TECH	ELECTRICAL ENGINEERING	V	103	74	29	71.84
8	B. TECH	ELEX. & TELE. ENGINEERING	V	101	70	31	69.31
9	B. TECH	INFORMATION TECHNOLOGY	V	100	77	23	77.00
10	B. TECH	MECHANICAL ENGINEERING	V	99	81	18	81.82

11	B. TECH	METALLURGICAL ENGINEERING	V	80	70	10	87.50
12	B. TECH	MINING ENGINEERING	V	78	69	9	88.46
TOTAL				948	712	236	75.11

SIXTH SEMESTER

1	B. ARCH	ARCHITECTURE	VI	55	45	10	81.82
2	B. TECH	BIO MEDICAL ENGINEERING	VI	44	35	9	79.55
3	B. TECH	BIO TECHNOLOGY	VI	45	37	8	82.22
4	B. TECH	CHEMICAL ENGINEERING	VI	59	42	17	71.19
5	B. TECH	CIVIL ENGINEERING	VI	86	71	15	82.56
6	B. TECH	COMP. SC. & ENGINEERING	VI	104	94	10	90.38
7	B. TECH	ELECTRICAL ENGINEERING	VI	98	76	22	77.55
8	B. TECH	ELEX. & TELE. ENGINEERING	VI	96	83	13	86.46
9	B. TECH	INFORMATION TECHNOLOGY	VI	94	88	6	93.62
10	B. TECH	MECHANICAL ENGINEERING	VI	97	86	11	88.66
11	B. TECH	METALLURGICAL ENGINEERING	VI	97	82	15	84.54
12	B. TECH	MINING ENGINEERING	VI	75	57	18	76.00
TOTAL				950	796	154	83.79

SEVENTH SEMESTER

1	B. ARCH	ARCHITECTURE	VII	53	50	3	94.34
2	B. TECH	BIO MEDICAL ENGINEERING	VII	39	26	13	66.67
3	B. TECH	BIO TECHNOLOGY	VII	40	33	7	82.50
4	B. TECH	CHEMICAL ENGINEERING	VII	56	43	13	76.79
5	B. TECH	CIVIL ENGINEERING	VII	83	75	8	90.36
6	B. TECH	COMP. SC. & ENGINEERING	VII	97	93	4	95.88
7	B. TECH	ELECTRICAL ENGINEERING	VII	88	79	9	89.77
8	B. TECH	ELEX. & TELE. ENGINEERING	VII	89	83	6	93.26
9	B. TECH	INFORMATION TECHNOLOGY	VII	90	89	1	98.89
10	B. TECH	MECHANICAL ENGINEERING	VII	98	90	8	91.84
11	B. TECH	METALLURGICAL ENGINEERING	VII	91	85	6	93.41
12	B. TECH	MINING ENGINEERING	VII	77	69	8	89.61
TOTAL				901	815	86	90.46

EIGHT SEMESTER

1	B. ARCH	ARCHITECTURE	VIII	57	56	1	98.25
2	B. TECH	BIO MEDICAL ENGINEERING	VIII	35	31	4	88.57
3	B. TECH	BIO TECHNOLOGY	VIII	40	37	3	92.50
4	B. TECH	CHEMICAL ENGINEERING	VIII	44	35	9	79.55

5	B. TECH	CIVIL ENGINEERING	VIII	81	76	5	93.83
6	B. TECH	COMP. SC. & ENGINEERING	VIII	86	82	4	95.35
7	B. TECH	ELECTRICAL ENGINEERING	VIII	94	92	2	97.87
8	B. TECH	ELEX. & TELE. ENGINEERING	VIII	97	94	3	96.91
9	B. TECH	INFORMATION TECHNOLOGY	VIII	71	70	1	98.59
10	B. TECH	MECHANICAL ENGINEERING	VIII	95	90	5	94.74
11	B. TECH	METALLURGICAL ENGINEERING	VIII	86	83	3	96.51
12	B. TECH	MINING ENGINEERING	VIII	76	70	6	92.11
TOTAL				862	816	46	94.66

TENTH SEMESTER

1	B. ARCH	ARCHITECTURE	X	49	49	0	100.00
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POST GRADUATE PROGRAMME (Spring 2017 & Autumn 2017)

MASTER OF COMPUTER APPLICATION

S. NO.	COURSE	BRANCH	SEM	APPEARED	PASSED	FAIL	PASS%
1	MCA	MCA	I	84	67	17	79.76
2	MCA	MCA	II	108	73	35	67.59
3	MCA	MCA	III	95	61	34	64.21
4	MCA	MCA	IV	91	54	37	59.34
5	MCA	MCA	V	90	79	11	87.78
6	MCA	MCA	VI	78	78	0	100.00
TOTAL				546	412	134	75.46

MASTER OF TECHNOLOGY IN APPLIED GEOLOGY

1	M. TECH	APPLIED GEOLOGY	I	13	12	1	92.31
2	M. TECH	APPLIED GEOLOGY	II	14	14	0	100.00
3	M. TECH	APPLIED GEOLOGY	III	14	14	0	100.00
4	M. TECH	APPLIED GEOLOGY	IV	13	13	0	100.00
5	M. TECH	APPLIED GEOLOGY	V	13	13	0	100.00
6	M. TECH	APPLIED GEOLOGY	VI	14	13	1	92.86
TOTAL				81	79	2	97.53

MASTER OF TECHNOLOGY IN CHEMICAL ENGINEERING

1	M. TECH	CHEMICAL PROCESS DESIGN	I	5	4	1	80.00
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2	M. TECH	CHEMICAL PROCESS DESIGN	II	5	2	3	40.00
3	M. TECH	CHEMICAL PROCESS DESIGN	III	5	5	0	100.00
4	M. TECH	CHEMICAL PROCESS DESIGN	IV	4	4	0	100.00
TOTAL				19	15	4	78.95

MASTER OF TECHNOLOGY IN CIVIL ENGINEERING

1	M. TECH	STRUCTURAL ENGG.	I	13	10	3	76.92
2	M. TECH	WATER RES. DEV. & IRR. ENGG.	I	15	13	2	86.67
3	M. TECH	WATER RES. DEV. & IRR. ENGG.	II	15	15	0	100.00
4	M. TECH	STRUCTURAL ENGG.	II	11	10	1	90.91
5	M. TECH	WATER RES. DEV. & IRR. ENGG.	III	15	15	0	100.00
6	M. TECH	STRUCTURAL ENGG.	III	11	11	0	100.00
7	M. TECH	STRUCTURAL ENGG.	IV	7	7	0	100.00
8	M. TECH	WATER RES. DEV. & IRR. ENGG.	IV	10	10	0	100.00
TOTAL				97	91	6	93.81

MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING

1	M. TECH	POWER SYSTEM & CONTROL	I	18	13	5	72.22
2	M. TECH	POWER SYSTEM & CONTROL	II	21	17	4	80.95
3	M. TECH	POWER SYSTEM & CONTROL	III	19	19	0	100.00
4	M. TECH	POWER SYSTEM & CONTROL	IV	17	17	0	100.00
TOTAL				75	66	9	88.00

MASTER OF TECHNOLOGY IN ELECTRONICS & TELECOMMUNICATION ENGG.

1	M. TECH	ELEX & TELE. ENGG.	I	18	16	2	88.89
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MASTER OF TECHNOLOGY IN MECHANICAL ENGINEERING

1	M. TECH	THERMAL ENGINEERING	I	13	12	1	92.31
2	M. TECH	INDUSTRIAL ENGG. & MGT.	I	11	9	2	81.82
3	M. TECH	MACHINE DESIGN	I	11	10	1	90.91
4	M. TECH	THERMAL ENGINEERING	II	10	9	1	90.00
6	M. TECH	INDUSTRIAL ENGG. & MGT.	II	9	8	1	88.89
5	M. TECH	MACHINE DESIGN	II	8	6	2	75.00
7	M. TECH	THERMAL ENGINEERING	III	9	9	0	100.00
8	M. TECH	INDUSTRIAL ENGG. & MGT.	III	8	8	0	100.00
9	M. TECH	MACHINE DESIGN	III	8	8	0	100.00
10	M. TECH	THERMAL ENGINEERING	IV	11	11	0	100.00

12	M. TECH	INDUSTRIAL ENGG. & MGT.	IV	8	8	0	100.00
11	M. TECH	MACHINE DESIGN	IV	10	10	0	100.00
TOTAL				116	108	8	93.10

MASTER OF TECHNOLOGY IN INFORMATION TECHNOLOGY

1	M. TECH	INFORMATION TECHNOLOGY	I	18	14	4	77.78
2	M. TECH	INFORMATION TECHNOLOGY	II	17	14	3	82.35
3	M. TECH	INFORMATION TECHNOLOGY	III	17	17	0	100.00
4	M. TECH	INFORMATION TECHNOLOGY	IV	17	17	0	100.00
TOTAL				69	62	7	89.86

PhD PROGRAMME **SPRING 2017**

S. NO.	COURSE	BRANCH	SEM	APPEARED
1	PhD	APPLIED GEOLOGY	II	4
2	PhD	BIO MEDICAL ENGINEERING	II	2
3	PhD	BIO TECHNOLOGY	II	3
4	PhD	CHEMICAL ENGINEERING	II	4
5	PhD	CIVIL ENGINEERING	II	6
6	PhD	COMPUTER SCIENCE & ENGINEERING	II	1
7	PhD	ELECTRICAL ENGINEERING	II	14
8	PhD	ELECTRONICS & TELECOMMUNICATION ENGG.	II	9
9	PhD	INFORMATION TECHNOLOGY	II	3
10	PhD	MECHANICAL ENGINEERING	II	3
11	PhD	METALLURGICAL ENGINEERING	II	2
12	PhD	MINING ENGINEERING	I	2
13	PhD		II	5
14	PhD	PHYSICS	II	2
15	PhD	CHEMISTRY	II	3
16	PhD	MATHEMATICS	II	4
17	PhD	ENGLISH	II	2
Total				69

AUTUMN 2017

S. NO.	COURSE	BRANCH	SEM	APPEARED
1	PhD	APPLIED GEOLOGY	I	3
2			II	3
3			III	2

4	PhD	BIO MEDICAL ENGINEERING	I	3
5	PhD	BIO TECHNOLOGY	I	4
6	PhD	CHEMICAL ENGINEERING	I	11
7	PhD	CIVIL ENGINEERING	I	9
8	PhD	COMPUTER SCIENCE & ENGINEERING	I	5
9	PhD	ELECTRICAL ENGINEERING	I	13
10	PhD	ELECTRONICS & TELECOMMUNICATION ENGG.	I	12
11	PhD	INFORMATION TECHNOLOGY	I	9
12	PhD	MECHANICAL ENGINEERING	I	15
13	PhD	METALLURGICAL ENGINEERING	I	10
14	PhD	MINING ENGINEERING	I	7
15	PhD		II	2
16	PhD	COMPUTER APPLICATIONS	I	10
17	PhD	PHYSICS	I	4
18	PhD	CHEMISTRY	I	10
19	PhD	MATHEMATICS	I	5
20	PhD	ENGLISH	I	7
Total				144

4.7 DEPARTMENT OF TRAINING AND PLACEMENT – ANNUAL REPORT 2017-18

1. Department of Training & Placement endeavours to provide good career opportunities to the students. The department keeps close contact with potential employers and organises campus placements for the students. The rapid technological advancement in industry has made the present-day campus placement of students challenging and competitive. Thus, the Department of Training and Placement also prepares the students to successfully overcome these challenges and grab the career opportunities. It also facilitates an effective industry–institute interaction and organises various training programmes, workshops, expert lectures and seminars to make students employable and industry ready.

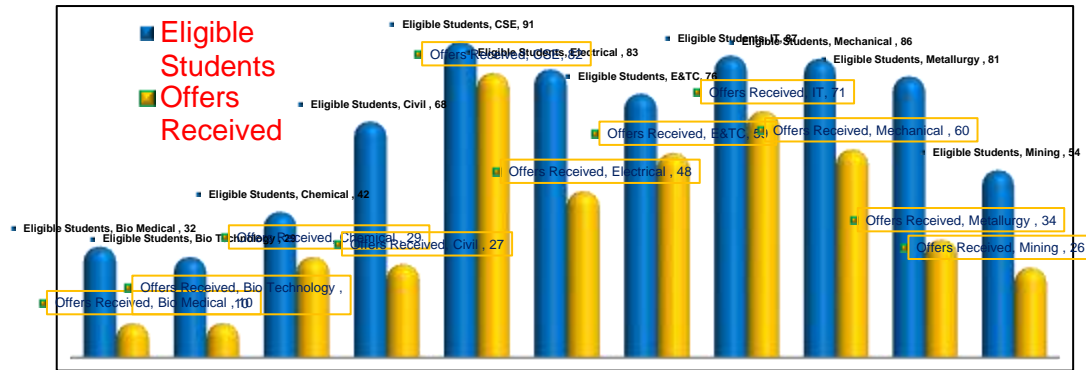
2. The department is headed by Prof. Samir Bajpai. He is assisted by a ‘Placement Cell’ which is a team of students’ representatives from all the branches of final year and pre-final year. These students’ representatives are called ‘Placement Conveners’ and ‘Placement Coordinators’ respectively.

Placement Statistics.

3. **Placement Offers:** A total of 517 placement offers from 70 companies have been received by the eligible and interested students of 2017-18 batch. These include placement offers for both, the undergraduate and the post-graduate courses i.e. B.Arch., B.Tech., M.Tech., MCA and PhD scholars. The total placement offers include the placement offers for B.Tech.- 455, B.Arch.- 05, M.Tech.- 11, MCA- 41, and PhD- 04. The highest and average salary packages (CTC) for the batch were 17.30 LPA and 6.55 LPA respectively. The details of placement offers received by the various courses are tabulated below.

COGNITE INTELLECTUALS	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Name of the Company	D I S C I P L I N E																			Total No. of Offers
	B. Arch.	Bio-Medical	Bio-Technology	Chemical	Civil	CSE	Electrical	E & TC	IT	Mechanical	Metallurgical	Mining	MCA	M.Tech. IT	M.Tech. Mech.	M Tech. - Civil	App. Geology	PhD (Elect.)	PhD (E&TC)	
HSBC	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
IRCON INTERNATIONAL	-	-	-	-	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5
FIITJEE	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
JSW STEEL	-	-	-	1	-	-	3	-	-	3	5	-	-	-	-	-	-	-	-	12
CAPTIAL AIM	-	4	4	1	-	1	-	-	-	1	2	2	-	-	-	-	-	-	-	15
INDIAN NAVY	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2
ADORE WELDING	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	2
TALENT LABS	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
APCO INFRATECH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	4
LATITUDE FINTECH	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	2
ALLEN INST.	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2
SK SAMANTA	-	-	-	-	2	-	1	-	-	1	-	-	-	-	-	-	-	-	-	4
PALVAGA	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	2
PKF PROSERVE	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	5
APCOM TECH.	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
JSPL	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
BES CONSULT.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
RAISONI GROUP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4
TOTAL OFFERS	5	10	10	29	27	81	48	59	72	60	30	26	41	4	2	1	4	3	1	517

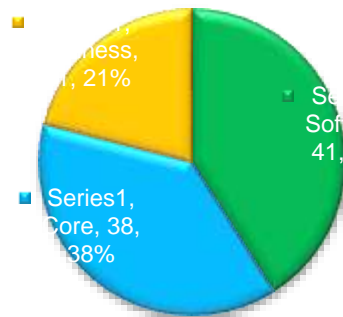
4. **Placement of UG Students:** The details of placement offers received by the eligible and willing undergraduate (B.Tech.) students are depicted below. The eligibility criteria have been considered as 60% in 10th and 12th and current CPI 6 and above with no standing backlog.



Eligible Students & Placement Offers – B.Tech.

5. **Sector-wise Placement:** Students of 2017-18 batch have received placement opportunities from almost all the sectors i.e. core engineering (including PSUs), software (IT industry) and business (analytics and consulting). The highest placement opportunities were received from software sector (41%) followed by core (38%) and business sector (21%). In the previous placement session, the contribution of business sector was about 8% which has increased to 21% in the ongoing session. It indicates a strong demand of analytics profile.

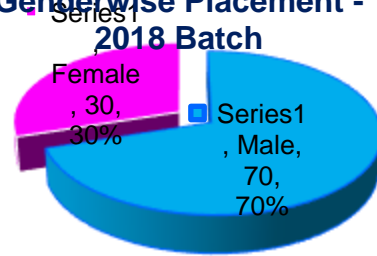
Sectorwise Placement %



Sector-wise Students' Placement (%)

6. **Gender-wise Placement.** The gender-wise placement of 2017-18 batch students is depicted below.

Genderwise Placement - 2018 Batch



Gender-wise Students' Placement (%)

7. Prime Recruiters. Some of our prime recruiters for 2017-18 placement session are:

 Mu Sigma	 HMEL	 FIAT	 ADITYA BIRLA GROUP	 Reliance Jio Infocomm
 FICO	 virtusa Accelerating Business Outcomes	 infoedge	 POWER2SME	 Tricon Infotech Partnering with Success
 JSW	 apco INFRA TECH PVT. LTD.	 NUVOCO	 Pradan	 IRCON IRCON INTERNATIONAL LIMITED (A Government of India Undertaking)
 intellect	 PRISM CEMENT	 FIITJEE	 JINDAL STEEL & POWER	 TVS

Steps to Improve Campus Placement.

8. **Increase in Numbers of Recruiters.** In order to increase the placement opportunities to the students, the department prepared a comprehensive list of companies that can organise the placement drives for our students. These companies were consistently followed and convinced to extend the placement opportunities to our students either in campus or in pooled campus. As a result, the department was successful in providing placement opportunities to students in many considerably reputed companies. Some of these companies are JP Morgan Chase & Co. (JPMC), General Electric (GE), Oracle Financial Services (OFSS), Ircon International, Aditya Birla Group, Commscope, Yodlee, Itron, Reliance Sasan Power etc.

9. **Additional Classes for Weak Students:** Based on the feedback from the companies' HRs and their technical experts and analysing the performance of students in various on-going campus placement processes, it was observed that many students from the circuit branches are at the border line of success. These students can be successful in placement drives if some additional efforts can be put in by and for them. Accordingly, the department of training & placement through the concerned HoDs and departmental T&P faculty coordinators organised some additional classes / practice session / practical session for these students.

10. **Career in Indian Armed Forces:** In collaboration with the Indian Navy, a Motivational-cum-awareness talk was organised for students to make them aware of various career options available in the Indian Armed Forces viz. Indian Army, Indian Navy, Indian Air Force for the technical / engineering

graduates (through University Entry Schemes). Students were benefited from the programme. Some students have been selected as commissioned officer in Indian Navy.

11. **Career Prospects in DAE:** With an aim to apprise students with the various career prospects of engineering graduates available in the Department of Atomic Energy (DAE), a workshop was organised for the students on 19th January 2018 in collaboration with BARC. Senior scientists from BARC conducted the session.

12. **Participation of Students in Competitive Events of Companies:** The Department of Training & Placement requests the companies' representatives to extend opportunities to our students to enable them participate in their events, competitions, quizzes etc. so as to keep them abreast of latest development in the industry and corporate world. The department has received very encouraging response from its recruiting partners / industry. Students have received several such opportunities from leading companies to participate in their both offline and online events. Some of these events, competitions, programmes are tabulated below.

S. No.	Name of the Company	Programme / Events
1.	Google	Code Jam 'Kickstart'
2.	Adobe Systems	Women in Technology Scholarship
3.	Deloitte Consulting	TechnoUtsav : TechE – Working Prototype
4.	Wipro	Campus Engagement Programme
5.	Tata Steel	Mind Over Matter
6.	Tata Steel	Women of Mettle Scholarship
7.	Tata Motors	Mind Rover Matter
8.	Cognizant	Technology Premier League (TPL)
9.	Cognizant	Compe10cy Test
10.	Bajaj Electrical	Navachar
11.	Schnieder Electric	Go Green in the City – Business case challenge
12.	Hero Moto Corp	The Hero Campus Challenge
13.	Reliance Industries	Quiz-A-Thon
14.	L&T	TECHgium- – Engineering Innovation for Tomorrow
15.	Mahindra & Mahindra	BAJA and Mobility Design

16.	Siemens Healthcare	Innovation Think Tank
17.	KPIT Technologies	Sparkle : Next Gen energy & transportation solutions
18.	TCS	EnQuode – quality engineering contest
19.	TCS	CodeVita – Coding contest
20.	TCS	EngiNX

13. Through these competitive and skills-enlivening events, students get ample opportunities to showcase their talent against the various challenges thrown up by the companies / industries. Students are encouraged to participate in these events and come out triumphant with flying colours by bringing out best in them. These events not only help students to make them industry ready but also provide career opportunity to good performing students in the form of Pre-Placement Interview (PPI).

14. **Feedback from Recruiters.** The department takes feedbacks from the recruiters about the strength and weakness of the students with respect to the current demand and trends in the industry and corporate world. Based on these feedbacks and inputs from the students, the department organises various training programs, workshops, expert lectures and seminars to assist the students overcome their weakness and get success in the placement drive.

Workshop & Seminars.

15. With an aim to make the students industry ready and enhance their chances of success in the corporate world, the department organises several workshops and seminars in coordination with the industry leaders and experts in the fields. Some of the workshop and seminars organised for the students during the academic year 2017-18 are as follows:-

S. No.	Topic of the Programme	Delivered by	Date
1.	Career in Indian Navy	Capt. J.K. Choudhary CRO, WNC, Indian Navy	July 18, 2017
2.	Open session on UPSC – Challenges and how to overcome them	Mr. S. Kumar, an alumnus of IIT Delhi, IIT Kharagpur, JNU. A seasoned professional with experience of over 15 years.	July 28, 2017
3.	Engineering Ethics	Dr. Mukund Madhava Das Director, CHOICE	August 21, 2017
4.	How to set and achieve goals	Mr. Ashish Singh, Motivational Speaker	September 4, 2017
5.	Tech Talk – New Edge Learning	Dassault Systems [Mr. Xavier Fouer, Industrial Engineer]	October 12, 2017

6.	Tech - Talk	Experts from Tata Motors.	November 6, 2017
7.	Knowledge Session – Data Analytics and Machine Learning	Mr. Vasant Rao, AVP (A&IMP), Cognizant	November 7, 2017
8.	Career prospects of engineering graduates in department of atomic energy (DEA)	Sr. Scientists from BARC	January 19, 2018
9.	Successful corporate career	Mr. Rajendra Awasthi, Co-founder EPIK Indifi. Industry veteran with over 30 years of experience.	February 8, 2018
10.	Expert talk on astrophysics and invisible universe	Dr. Jennifer Gupta, University of Portsmouth, UK (in collaboration with British Council's Kolkata Office)	February 19, 2018
11.	Mock Placement	Alumni of NIT Raipur and Sahyog- the mentorship club, NIT Raipur	April 7 – 8, 2018
12.	How to secure success in MBA-CAT	Mr. Shyam Verma, Director PT Raipur and some experts and alumni of NIT Raipur	April 11, 2018

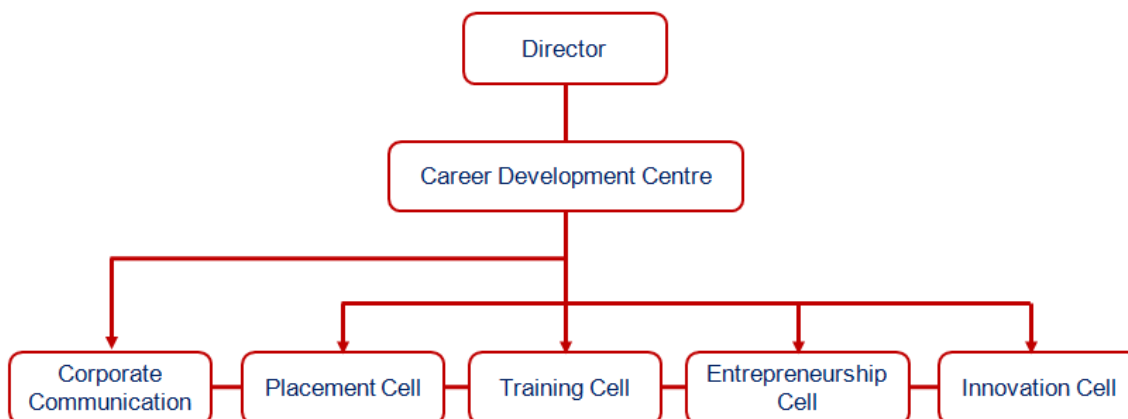
Training / Internship

16. The department in coordination with various engineering departments of the institute arranges industrial training / internship in leading industries/companies, PSU, premier higher technical institution (IITs, IISc) for the students of 4th semester and 6th semester. The training/internship which is an important part of the curriculum not only supplements the academic knowledge with practical experience but also provides an employment opportunity for the students. Many of these host companies / industries offer pre-placement offer (PPO) to the interning students of 6th semester. Some of the prominent companies offering PPOs to interning students are JP Morgan Chase & Co, Optum, Wipro, Power2SME, TVS Motors, FICO, Intellect Design Arena etc.

Career Development Centre (CDC)

17. NIT Raipur is always committed to career development of students and making them employable. For career development and making students employable in the prevailing technological advancement

era, industrial training and grooming of students with soft skills becoming more important. Career is not merely limited to placement of students through campus selection but in the present scenario, motivating and nurturing their entrepreneurial and innovation skills are equally important. With these objectives, 'Career Development Centre (CDC)' has been constituted in the institute vide Circular No./NITRR/DIR/S-1/2018/1707 dated 18th May 2018. It has various verticals (Cells) under it. The structure of Career Development Centre (CDC) is depicted below:-



Organogram of Career Development Centre (CDC)

18. The Career Development Centre (CDC) is headed by Prof. Samir Bajpai. In order to ensure that Career Development Centre (CDC) attains its objectives, each vertical has a dedicated, dynamic and subject expert Faculty-in-charge and a team of students under him.

4.8 SIXTH CONVOCATION PROGRAM OF NIT RAIPUR

The Institute has successfully organised and celebrated its Seventh Convocation Program which was held on 2nd February, 2017. Total 1062 degrees for various disciplines (including 802 B. Tech, 65 B. Arch, 80 MCA, 93 M. Tech and 22 Phd) were awarded on the occasion and 44 gold and silver medals were awarded to the meritorious students of 2015 batch. The ceremony was blessed with the benign presence of Dr. Vijay Kumar Saraswat (former Director General of DRDO, at present member of NITI Ayog) who has kindly consented to deliver the Convocation address as Chief Guest. 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.

MEDAL RECIPIENTS IN 7TH CONVOCATION

RANK	COURSE	DEPARTMENT	ROLL NO.	NAME OF STUDENTS	MEDAL
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OVERALL TOPPER

1	B. TECH	MINING ENGINEERING	12121021	HIMANSHU WADHWANI	GOLD
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BACHELOR OF ARCHITECTURE

1	B. ARCH	ARCHITECTURE	11122025	KRISHNA KUMAR	GOLD
2	B. ARCH	ARCHITECTURE	11122049	SHREYA AGRAWAL	SILVER

BACHELOR OF TECHNOLOGY

1	B. TECH	BIO MEDICAL ENGINEERING	12111043	SNEHA GUPTA	GOLD
2	B. TECH	BIO MEDICAL ENGINEERING	12111052	VINOD PRASAD	SILVER
1	B. TECH	BIO TECHNOLOGY	12112007	ANUJA JAIN	GOLD
2	B. TECH	BIO TECHNOLOGY	12112047	SHABDA GAJBHIYE	SILVER
1	B. TECH	CHEMICAL ENGINEERING	12113049	SHRISHTI DEWANGAN	GOLD
2	B. TECH	CHEMICAL ENGINEERING	12113048	SHREYA CHOWDHURY	SILVER
1	B. TECH	CIVIL ENGINEERING	12114032	KUNWAR ROMENDRA P SINGH	GOLD
2	B. TECH	CIVIL ENGINEERING	12114035	MANAS TRIPATHI	SILVER
1	B. TECH	COMP. SC. & ENGG.	12115070	RIYA SINGHAL	GOLD
2	B. TECH	COMP. SC. & ENGG.	12115055	NITI JAIN	SILVER
1	B. TECH	ELEX. & TELE. ENGG.	12116083	VINITA SHADANGI	GOLD
2	B. TECH	ELEX. & TELE. ENGG.	12116067	SEJAL AGRAWAL	SILVER
1	B. TECH	ELECTRICAL ENGINEERING	12117076	SHOBHIT SINGH	GOLD
2	B. TECH	ELECTRICAL ENGINEERING	12117049	P AMRITANSH NAIDU	SILVER
1	B. TECH	INFORMATION TECH.	12118906	U DIVYA	GOLD
2	B. TECH	INFORMATION TECH.	12118054	PRERNAMAYEE TRIPATHY	SILVER
1	B. TECH	MECHANICAL ENGG.	12119901	OJASE JAIN	GOLD
2	B. TECH	MECHANICAL ENGG.	12119004	AKASH AGRAWAL	SILVER
1	B. TECH	METALLURGICAL ENGG.	12120058	PUSHKAR PRAKASH DHEKNE	GOLD
2	B. TECH	METALLURGICAL ENGG.	12120002	ABHILASH VERMA	SILVER
1	B. TECH	MINING ENGINEERING	12121021	HIMANSHU WADHWANI	GOLD
2	B. TECH	MINING ENGINEERING	12121025	JASMEET SALUJA	SILVER

MASTER OF COMPUTER APPLICATION

1	MCA	MASTER OF COMP. APPLICATION	13223041	PRACHI SHARMA	GOLD
2	MCA	MASTER OF COMP. APPLICATION	13223008	ANKITA AGRAWAL	SILVER

MASTER OF TECHNOLOGY

1	M. TECH	APPLIED GEOLOGY	13225014	RAJ KISHOR MOHANTY	GOLD
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2	M. TECH	APPLIED GEOLOGY	13225004	ATHIRA R	SILVER
1	M. TECH	CHEMICAL ENGINEERING (CHEMICAL PROCESS DESIGN)	14245012	RESHMA R NAIR	GOLD
2	M. TECH	CHEMICAL ENGINEERING (CHEMICAL PROCESS DESIGN)	14245007	MADDELA BHAVANI	SILVER
1	M. TECH	CIVIL ENGINEERING (WRD&I ENGG.)	14244007	NADELLA ANUSHA	GOLD
2	M. TECH	CIVIL ENGINEERING (WRD&I ENGG.)	14244010	SHAILENDRA SAHU	SILVER
1	M. TECH	CIVIL ENGINEERING (STRUCTURAL ENGG.)	14243008	RIYAS MOIDEEN K.K.	GOLD
2	M. TECH	CIVIL ENGINEERING (STRUCTURAL ENGG.)	14243006	MARY WILLIAMS P	SILVER
1	M. TECH	ELECTRICAL ENGINEERING (POWER SYSTEM & CONTROL)	14224007	JENIFER MARIAM JOHNSON	GOLD
2	M. TECH	ELECTRICAL ENGINEERING (POWER SYSTEM & CONTROL)	14224008	MANEESH VERMA	SILVER
2	M. TECH	ELECTRICAL ENGINEERING (POWER SYSTEM & CONTROL)	14224003	ARUN HIRANI	SILVER
1	M. TECH	MECHANICAL ENGINEERING (THERMAL ENGG.)	14229002	AMAN LUNIA	GOLD
2	M. TECH	MECHANICAL ENGINEERING (THERMAL ENGG.)	14229008	SANTOSH KUMAR SENAPATI	SILVER
1	M. TECH	MECHANICAL ENGINEERING (IND. ENGG. & MGT.)	14230007	KAMLESH PANT	GOLD
2	M. TECH	MECHANICAL ENGINEERING (IND. ENGG. & MGT.)	14230001	ANUGRAH YENUBARI	SILVER
1	M. TECH	MECHANICAL ENGINEERING (MACHINE DESIGN)	14231011	SHASHWAT SHARMA	GOLD
2	M. TECH	MECHANICAL ENGINEERING (MACHINE DESIGN)	14231003	ANKUR MISHRA	SILVER

5.0 DETAILS OF DEPARTMENTS & OTHER ACTIVITIES

DEPARTMENT OF APPLIED GEOLOGY

1 Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. P. Diwan	Associate Professor & Head	PhD
2.	Dr. N. Vishwakarma	Assistant Professor	PhD
3.	Dr. D.C. Jhariya	Assistant Professor	PhD
4.	Dr. H. Govil	Assistant Professor	PhD
5.	Dr. Vikal K. Singh	Teaching Assistant (Temporary)	PhD
6.	Mr. Gaurav Jangade	Teaching Assistant (Temporary)	MTech
7.	Mr. Subranshu Pani	Teaching Assistant (Temporary)	MTech

M.Tech Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. P. Diwan	Anusrita Thakur Ishwar Prasad Jaiswal Rimita Tikander Shailesh Kumar Sahu Sourabh Atroliya	Ore Geology, Exploration mining (surface and underground), ore beneficiation and Environmental Assessment in the Malanjkhand Copper Project, Dist. Balaghat (M.P.)
2.	Dr. N. Vishwakarma	Ankit Dehari Dimpal Sahu Shikha Gupta Subhashree Mallik	Geology, Exploration & Mining at Bailadila Iron Ore Mine, Bacheli Complex (N.M.D.C. Deposit-5, 10 & 11 A dist.-Dantewada (C.G.)

3.	Dr. D.C. Jhariya	Ashutosh Panda GyanaRanjanBhol Snehashish Dash Suwendu Kumar Sahu	Manganese Deposit of Chikla Mine, Bhandara district (Maharashtra) with special reference to Geology, Exploration and Mining Methods
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Achievement of outgoing students (PG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student	Placed in (Designation in Job/Higher Education with details)
1.	Anusrita Thakur	Exploration Geologist, Maheshwari Mining Pvt. Ltd.
2.	Ashutosh Panda	Engineering Geologist, APCO InfratechPvt. Ltd.
3.	Ishwar Prasad Jaiswal	Engineering Geologist, APCO InfratechPvt. Ltd., Jammu
4.	Shailesh Kumar Sahu	Engineering Geologist, APCO InfratechPvt. Ltd., Durg, C.G
5.	Snehashish Dash	Engineering Geologist, APCO InfratechPvt. Ltd.

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended (From 01-04-2017 to 31-03-2018) [National]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation, Name of Event, Organizer	Dates and Venue
1.	Dr. D.C. Jhariya	GIS-Based Groundwater Quality Index Assessment for Drinking Purpose in Raipur city, Chhattisgrah, India. National Workshop “Groundwater Challengers in india” an INC-IAH initiative. Organized by INC-IAH (Indian Chapter of International Association of Hydrogeologist).	January 13 th , 2018, RavisankarSukla University, Raipur, Chhattisgarh
2.	Dr. D.C. Jhariya	Evaluation of groundwater pollution vulnerability using DRASTIC-model in Raipur city, Chhattisgarh, India. Workshop on Groundwater	January 17 th , 2018, RavisankarSukla University,

		Management and its issues in Chhattisgarh. Organised by Central Ground Water Board, NCCR, Ministry of Water Resources, River Development & Ganga Rejuvenation. Govt. of India.	Raipur, Chhattisgarh
3.	Dr. D.C. Jhariya	Delineation of groundwater recharge zones using remote sensing and geographical information system techniques in the Pairi Watershed, Chhattisgarh. Workshop on Groundwater Management and its issues in Chhattisgarh. Organised by Central Ground Water Board, NCCR, Ministry of Water Resources, River Development & Ganga Rejuvenation. Govt. of India.	January 17 th , 2018, RavisankarSukla University, Raipur, Chhattisgarh
4.	Dr. D.C. Jhariya	Application of groundwater modelling in groundwater development and management: A Review. Workshop on Groundwater Management and its issues in Chhattisgarh. Organised by Central Ground Water Board, NCCR, Ministry of Water Resources, River Development & Ganga Rejuvenation. Govt. of India.	January 17 th , 2018, RavisankarSukla University, Raipur, Chhattisgarh
5.	Dr. D.C. Jhariya	“Importance of education in our life” Chhattisgarh Science Centre, Govt. of Chhattisgarh	12 January 2018, Chhattisgarh Science Centre, DaldalSeoni, Saddu, Raipur
6.	Dr. D.C. Jhariya	“Basic Hydrogeology”, Rural Engineering Service, Govt. of Madhya Pradesh, Dindori	01 February 2018, Dindori, Madya Pradesh
7.	Dr. D.C. Jhariya	“Importance of Geological Knowledge in Groundwater Development and Management” Rural Engineering Service, Govt. of Madhya Pradesh, Mandla	February (8- 9) 2018, Mandla, Madya Pradesh

8.	Dr. H. Govil	“Subsidence monitoring of Coal mines of Korba using Microwave Remote Sensing”, National Seminar on Recent Trends in Mining Technology and Geosciences	5 th Aug. 2017, NIT Raipur
9.	Dr. H. Govil	Training programme on “Soil Moisture and Agricultural monitoring using Microwave Remote Sensing”, organized by SACA Ahmedabad and IEEE Geoscience and Remote Sensing	7 th -9 th February 2018, SAC Ahmedabad

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Choubey.S, Dr.P. Diwan	Water Resource Development Plan for Chhokranala Watershed, Distric Raipur, Chhattisgarh, India, Using Remote Sensing and GIS Techniques, National Workshop on Ground Water Challenges in India. Organized by INC (IAH India Chapter) of International Association of Hydrogeologist, Faridabad in Association with SOS in Geology & WRM Pt RSU, Raipur	2018, INC (IAH India Chapter) of International Association of Hydrogeologist, Faridabad in Association with SOS in Geology & WRM Pt RSU, Raipur
2.	Choubey.S, Dr.P. Diwan	A Remote Sensing And GIS Approach In Morphometric Analysis Of Chhokranala Micro-Watershed, District Raipur, Chhattisgarh, India. Workshop on Ground Water Management & Its Issues In Chhattisgarh”	2018, Central Ground Water Board, NCCR, Ministry of Water Resources, Govt. Of India, Raipur (CG).
3.	Choubey.S, Dr.P. Diwan	Delineating Groundwater Potential Zones In Chhokranala Watershed Using Remote Sensing And GIS Techniques In Raipur District, Chhattisgarh, India. 16th Chhattisgarh Young Scientist Congress" 2018, Organized by	2018, DurgUnviersity, Durg Chhattisgarh, India

		Durg University, Durg Chhattisgarh, India.	
4.	Dr. H. Govil, N. Gill, S. Rajendran	Identification of talc and Chlorite minerals in the Askot crystalline of Kumaon Himalaya using Hyperion Hyperspectral data, The 38th Asian Conference on Remote Sensing	23 to 27th Oct. 2017, New Delhi
5.	Dr. Vikal Kumar Singh	Study on the latitudinal variation and dominance of Recent benthic species in the foraminiferal assemblages, of the littoral sediments, east coast of India. <i>In: 26th Indian Colloquium on Micropaleontology and Stratigraphy. Organized by: Department of Geology, University of Madras, Guindy Campus, Chennai.</i> Abs. XXVI ICMS – 82, p. 70. (Jointly with Prof. P. K. Kathal) Oral	17 to 19 August 2017. Department of Geology, University of Madras, Guindy Campus, Chennai – 600025.

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	International Conference on Remote Sensing and GIS for Applications in Geosciences, Department of Applied Geology, Aligarh Muslim University (Co-Convener)	Dr. H. Govil		12-Aug-2017	

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No., Year	DOI/Web link
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	member's name in BOLD}			
1.	Chaurasia.K, Diwan.P.	Studies on deformation characteristics of conglomerate along Jonk River, Sonakhan, Balodabagar District, Chhattisgarh, Journal of the Geological Society of India	Journal of the Geological Society of India, Bangalore	Accepted 02 Apr., 2018 Ref.: Ms. No. JGSI-D-18-00046R1
2.	Chaurasia.K, Diwan.P.	Strain analysis of Jonk River Conglomerate, Sonakhan Greenstone Belt, Distt – Balodabazar, Chhattisgarh	Bulletin of Pure & Applied Sciences, Delhi (ISSN: 0970 4639)	Accepted Vol. 37F, No.2, Jul-Dec 2018
3.	R Elangovan, Kumar Krishna, NeerajVishwakarma, K R Hariand M Ram Mohan	Interaction of coeval felsic and mafic magmas from the Kanker granite, Pithora region, BastarCraton, Central India	Journal of Earth System sciences, 126(7),	DOI: 10.1007/s12040-017-0886-z

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Choubey.S, Dr.P. Diwan	Geospatial Applications in Morphometric Analysis of	Int. Jour. Of Advancements in Earth and Environmenta	http://www.iross.org/ojs/index.php/IJA EES/article/

		Chhokranala Micro-Watershed, District Raipur, Chhattisgarh, India	I Sciences (IJAEES), Vol. 5, No.2, Oct. 2017 (ISSN 2321-9149)	view/818
2.	Hari, K.R., Deshmukh, S.D., Dr. P. Diwan, and Prasanth M.P.M.	Geochemical constraints on the tectonic setting of Sonakhan Greenstone Belt, Bastar Craton, Central India	Acta Geochimica (Springer Journal) ISSN 2096-0956; Accepted 31 st March 2017; Published Online: 29 Aug., 2017	DOI:10.1007/s11631-017-0213-z
3.	J. Gregory Shellnutta, Kosiyathu R. Hari, Alice C.-Y. Liao, Steven W. Denyszyn and Neeraj Vishwakarma	A 1.88 Giga-year radiating mafic dyke swarm in Southern India and Western Australia	Precambrian Research, 308, 58-74. 2017	DOI: 10.1016/j.precamres.2018.01.021
4.	Khan, Rubia and Jhariya, D. C.	Groundwater Quality Assessment for Drinking Purpose in Raipur City, Chhattisgarh Using Water Quality Index and Geographic Information System.	Journal of the Geological Society of India. v.90(1), pp.69-76	https://doi.org/10.1007/s12594-017-0665-0
5.	Jhariya, D. C., Kumar Tarun, Dewangan Rakesh, P Dharm and Dewangan P. K.	Assessment of Groundwater Quality Index for Drinking Purpose in the Durg District, Chhattisgarh Using (GIS) and (MCDA) Techniques.	Journal Geological Society of India, Vol.89(4), pp.453-459.	https://doi.org/10.1007/s12594-017-0628-5
6.	Liaqat A.K. Rao, Armugha Khan, Himanshu Govil	Morphometric Characterization of Yamuna River basin around Agra, Firozabad and	International Advanced Research Journal in Science,	<u>DOI</u> <u>10.17148/IARJSET.2017.4544</u>

		Etawah Districts, Uttar Pradesh, using Remote Sensing and GIS Techniques,	Engineering and Technology, Vol. 4, Issue 5	
7.	Subhanil Guha, Himanshu Govil, Sandip Mukherjee	Dynamic analysis and ecological evaluation of urban heat islands in Raipur city, India,"	J. Appl. Remote Sens. 11(3), 036020-1 to 036020-23 (2017), (Impact factor: 1.107)	http://dx.doi.org/10.1117/1.JRS.11.036020
8.	S. Kumar, S. K. Joshi and H. Govil,	"Spaceborne PolSAR Tomography for Forest Height Retrieval,	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol. 10, no. 12, pp. 5175-5185, Dec. 2017. (Impact factor: 2.913)	doi: 10.1109/JSTAR.2017.2741723
9.	H. Govil, N. Gill, S. Rajendran, M. Santosh, S. Kumar	Identification of new base metal mineralization in Kumaon Himalaya, India, using hyperspectral remote sensing and hydrothermal alteration	Ore Geology Reviews, Volume 92, 2018, Pages 271-283, (Impact factor: 4.05)	https://doi.org/10.1016/j.oregeorev.2017.11.023
10.	Liaqat A.K. Rao, Armugha Khan, Yunus Ali Himanshu Govil	Characterization of channel platform features and sinuosity indices in parts of Yamuna River flood plain using remote sensing and GIS	Arabian Journal of Geosciences, (Impact factor: 0.995)	Accepted on Mar 22, 2018,

		techniques		
11.	SubhanilGuha , Himanshu Govil , AninditaDey and Neetu Gill	Analytical study of land surface temperature with NDVI and NDBI using Landsat 8 OLI and TIRS data in Florence and Naples city, Italy,	European Journal Of Remote Sensing, Volume 51, 2018, Pages 667-678, (Impact factor: 1.533)	https://doi.org/10.1080/22797254.2018.1474494

Books, monograms, chapters' authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/ Co-author
1.	Dr.NeerajVishwakarma, Dr. P. Diwan, Dr. D.C. Jhariya	Handbooks of igneous rocks	Lap Lambert Academic Publishing	Author
2.	Dr. D.C. Jhariya, Dr.NeerajVishwakarma, Dr. P. Diwan	Groundwater Indicators	Lap Lambert Academic Publishing	Author
3.	Dr. D.C. Jhariya	Essentials of Geological Fieldwork	Lap Lambert Academic Publishing	Author
4.	Dr.Vikal Kumar Singh	An Overview on the Comparative Morphology of the Recent Benthic Foraminifera from the East Coast of India and the Part of the Southern East Coast of Japan, Warm-water Indo-Pacific Province. (Chapter)	Publisher: Scientific Publisher, Ne w Delhi, Jodhpur, India. - ISBN 978- 93-8665-209- 6.	Co-author

Research and Consultancy

**Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/
Ongoing/New)**

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Identification of Potentialgroundwater Artificial Recharge Zones for Rainwater Harvesting in Raipur Municipal corporation Naya Raipur Area, Chhattisgarh	Ongoing	Chhattisgrah Council of Science & Technology Raipur	5 Lakh	Dr. D.C. Jhariya
2.	Identification, mapping and spectral library generation for Hydrothermally altered, weathered and clay minerals, Funded by: Space application centre, Indian Space Research Organization	Ongoing	Space application centre, Indian Space Research Organization	19.50 Lakh	Dr. H. Govil
3.	Utilization of dual frequency polarimetric SAR data for scattering based sub-surface geological and linear feature characterization	Ongoing	Space application centre, Indian Space Research Organization	18.51 Lakh	Dr. H. Govil
4.	Lithological/Mineralogical Mapping of Different Minerals Through Different Indices/Ratioing Techniques Using Remote Sensing Data	Ongoing	National Institute of Technology, Raipur	5 Lakh	Dr. H. Govil

Socially relevant activities

Sr. No.	Name of Faculty Member(s)	Activity		
1.	Dr. D.C. Jhariya		Swachh Bharat mission	

DEPARTMENT OF ARCHITECTURE

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. Abir Bandyopadhyay	Professor & Head	B. Arch, M. Plan (Urban Planning), PhD
2.	Debashis Sanyal	Associate Professor	B. Arch, M. Arch, P.G. Diploma (English Language)
3.	Dr. Swasti Sthapak	Associate Professor	B. Arch, A.I.T.P, PhD
4.	Himanshu Poptani	Associate Professor	B. Arch., M. Arch, Professional Certificate in Environmental Planning & Management

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Abir Bandyopadhyay	Dr. Prakash Chandra Tamrakar	Planning and Management of Water for Naya Raipur
2.	Dr. Abir Bandyopadhyay	Dr. Rinku Parashar	Reinterpretation of Plan Forms of Odishan Temples (from 6th Century AD to 16th Century AD)
3.	Dr. Abir Bandyopadhyay	Dr. Swasti Sthapak	Thermal Adaptation of Functional Usage in Naturally Ventilated Houses of Chhattisgarh Plains

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Anwasha Mukherjee	Industrial Design, School of Planning and Architecture, New Delhi
2.	Abhishek Dey	Urban Design, School of Planning and Architecture, New Delhi
3.	Swati Pradhan	Urban Planning, School of Planning and Architecture, New Delhi
4.	Saumya Shrivastava	Regional Planning, School of Planning and Architecture, New Delhi
5.	Akshaya Arvind Bomanwar	TU Delft, Netherlands

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [National]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Debashis Sanyal	Development of Eco-City in Developing Countries: an architect's perspective, GITAM School of Architecture	21 st September, 2017 at Visakhapatnam
2.	Debashis Sanyal	Sustainable Architecture, GITAM School of Architecture	21 st September, 2017 at Visakhapatnam
3.	Debashis Sanyal	Smart Buildings: Smart Cities a Step Forward, Srijan 2017, School of Architecture, MM University	29 th September, 2017 Ambala
4.	Debashis Sanyal	Conservation of Old Brick Structures, Workshop of ASI	22 nd November, 2017 at Sirpur
5.	Debashis Sanyal	Use of Steel in Modern	28 th December, 2017

		Buildings, Workshop on Usage of Steel in Megastructures, Smart Habitat Foundation	at New Delhi
6.	Debashis Sanyal	Smart Cities, Smt. K.L. Tiwari College of Architecture	14th March, 2018 at Palghar
7.	Debashis Sanyal	Smart Cities, Chennai Academy of Architecture & Design	30 th March, 2018 at Chennai
8.	Debashis Sanyal	One Day Workshop on Housing for All (Rural) Mission	16 th January, 2018 at New Delhi
9.	Debashis Sanyal	Pre Engineered and Pre Cast Concrete Structures Conference	19 th January, 2018 to 20 th January, 2018 at Vijayawada
8.	Himanshu Poptani	Attended “CII Chhattisgarh Sustainable – Built Environment in Chhattisgarh, Focusing on Affordable Housing & Green Buildings”	27 th July, 2017 at Raipur
9.	Himanshu Poptani	Completed a 4-week online certification course on DesignBuilder software organised by ITP India.	8 th November, 2017 to 6 th December, 2017 (online certification course)
10.	Himanshu Poptani	Attended Workshop on Housing Designs and Construction Technologies’ conducted by Department of Rural Development, Ministry of Rural Development, Govt. of India (was nominated by Director NIT Raipur)	16 th January 2018 at New Delhi.

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Debashis Sanyal	Colonial Architecture and Modernism in India, School of Design and Environment, NGEE Polytechnic	10 th July, 2017 at Singapore
2.	Himanshu Poptani	Presented a research paper entitled: “Opportunities towards a sustainable future: The case of an Indian City” in the International Conference “Constructing an Urban Future: the sustainability and resilience of cities- Infrastructures, communities and architectures”, organized by Abu Dhabi University and AMPS	March 18-19, 2018 – Abu Dhabi University, Abu Dhabi, UAE
3.	Dr. Swasti Sthapak	Key Note Speaker, International Conference On Civil And Architectural Engineering (ICCAE)	March 2018 at Hong Kong

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	One-week workshop on “Implications of Arts in Architecture”	Dr. Abir Bandyopadhyay (Convener) Dr. Swasti Sthapak (Coordinator)		4 th Dec. 2017 to 8 th Dec. 2017	Self-Sponsored

		Prof. Himanshu Poptani (Coordinator)			
2.	One-day National Conference on “Recent Trends in Architecture: Issues and Challenges”	Dr. Abir Bandyopadhyay (chairman) Dr. Swasti Sthapak (Secretary)	Ar JP Kesarwani	21 st Dec. 2017 to 21 st Dec. 2017	Self-Sponsored
3.	One-week short term course on “Professional Practice in Architecture & Planning”	Dr. Abir Bandyopadhyay (Convener) Prof. D Sanyal (Coordinator) Dr. Swasti Sthapak (Coordinator) Prof. Himanshu Poptani (Coordinator)		02 nd Jan. 2018 to 06 th Jan. 2018	Self-Sponsored
4.	One Week Workshop on Developing Heritage Route at Inner Raipur	Himanshu Poptani	--	13th-17th March 2018.	Self Sponsored

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member’s name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	D. Sanyal, Dr. R.K. Bhargava	JournalsPub (2017)	Advantages of RCC Prefabricated Systems for Affordable LIG Housing In India, International Journal	-

			of Housing and Human Settlement Planning	
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Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Dr. Abir Bandyopadhyay Ar. Rinku Parashar	A study of Various Tools for Generation of Plan Form of Odisan Temple: In search of measurement Unit.	2 nd International Conference on Recent De, Science, Mad Humanities (ICRESMH-17) Volume 4, Issue 6, June 2017	-
2.	Dr. Abir Bandyopadhyay	An Introspective Discussion on Integrated Rural Urban Development in India	International conference on Architecture and civil Engineering Sydney Australia , January, 2018	-
3.	Dr. Swasti Sthapak	Learning Environment for Autistic Children: Architectural Approach	International Journal of Engineering Technology Science and Research, Volume 4, Issue 12, December	http://www.ijetsr.com/images/short_pdf/1514834114_1314-1319-mccia195_ijetsr.pdf

			2017	
4.	Dr. Swasti Sthapak	Social Interaction in Build Environment: The Urban Context	International Conference on Advancement in Engineering, Applied Science and Management ICAEASM-2018), Volume 5, Issue 1, January 2018	http://www.ijetsr.com/images/short_pdf/1515481262_65-68-ieim126_ijetsr.pdf
5.	Dr. Swasti Sthapak	Place making: a subset of Urban Design	IASTEM - 350th International Conference On Civil And Architectural Engineering (ICCAE) Hong Kong March 2018	-
6.	Dr. Swasti Sthapak	Solid Waste Management Plant at Hamirpur, Himachal Pradesh: A case study	International Conference on Environmental Remediation and Waste Management, Hong Kong, March 2018	-

Books, monograms, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
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1.	Dr. Swasti Sthapak	Religious Heritage Tourism in Chhattisgarh: Case Study- Rajim	Lambert Academic Publishing Mauritius	Dr. Swasti Sthapak
2.	Dr Abir Bandyopadhyay	An Analytical Approach to spatial organizations	Lambert Academic Publishing Mauritius	Dr Abir Bandyopadhyay

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Assessment of Thermal Conditions in EWS Monolithic Houses Being Constructed Under PMAY/ HFA Scheme AT Naya Raipur/ Bhilai/ Durg (C.G.	2018	BSBK Private Ltd.	0.90	Dr. Swasti Sthapak

Socially relevant activities

Sr. No.	Name of Faculty Member(s)	Activity		
1.	Dr. Abir Bandyopadhyay	Vice President	Indian Institute of Town Planners,	Chhattisgarh Chapter, Raipur
2.	Dr. Abir Bandyopadhyay	AICTE Representative	Expert committee of UGC for inspections	Indore Chennai
3.	D. Sanyal	Hony. Secy.	Indian Buildings Congress	Chhattisgarh State Chapter, Raipur
4.	D. Sanyal	President (Elect)	Indian Society for Heating Refrigeration and Air Conditioners	NIT Raipur
5.	Dr. Swasti Sthapak	Joint Secretary	Alumni Association	NIT Raipur

6.	Dr. Swasti Sthapak	Member	Student's Education Assistance Fund, Alumni Association	NIT Raipur
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DEPARTMENT OF BIOMEDICAL ENGINEERING

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. Neelamshobha Nirala	Assistant Professor	PhD
2.	Dr. Saurabh Gupta	Assistant Professor	PhD
3.	Dr. Bikesh Kumar Singh	Assistant Professor	PhD
4.	Dr. Arindham Bit	Assistant Professor	PhD
5.	Dr. R. Periyasamy	Assistant Professor	PhD

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. R. Periyasamy (Joint supervisor)	Neelam Shobha Nirala	Assessment of Diabetes using Toe Photoplethysmogram

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Deepak Bajhaiya	Qualified GATE 2018
2.	Rupsha Mukherjee	Early research M.Tech Program at IIT Gandhinagar

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended (From 01-04-2017 to 31-03-2018) [National]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr. Bikesh Kumar Singh	Breast ultrasound image analysis, One week short term training program on medical signal and image processing organized by Department of Electrical Engineering and Computer Applications.	22/5/2017-27/5/2017, NIT Raipur
2.	Dr. Bikesh Kumar Singh	Application of nature inspired computing in image processing, One week short term training program on nature inspired computing and its applications organized by Department of Information Technology	23/10/2017-27/10/2017 , NIT Raipur
3.	Dr. Bikesh Kumar Singh	Application of C in image processing, One week short term training program on programming fundamentals and its applications with C organized by Department of Information Technology	15/11/2017-19/11/2017, NIT Raipur
4.	Dr. Bikesh Kumar Singh	Regression Based Approach to Analyze Tropical Cyclone Genesis, International Conference on Data and Information Sciences (ICDIS-2018)	3-4 Nov 2017, IGNTU, Amarkantak, M. P. India.
5.	Dr. Bikesh Kumar Singh	Decision Support System for Breast Cancer Dataset, International Conference on Interdisciplinary Research (ICIR-17)	Jun-2017, New Delhi, India.
6.	Dr. Arindam Bit	EEG signal processing; Workshop on "Medical Signal and Image Processing: Delivered Invited talk	5 th to 10 th February, 2018, NIT Rourkela
7.	Dr. Arindam Bit	Modeling of Biomechanical Systems at Macro and Micro Level; STTP on Advanced Techniques in Multiscale	November 09th to 13th, 2017, NIT Raipur

		Materials Modeling: Delivered Invited talk	
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Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Dr. Bikesh Kumar Singh	Summer School of Data Science	25-29 September, 2017, Faculty of Electrical Engg., Mechanical Engg., and Naval Architecture, Split, Croatia
2.	Dr. Saurabh Gupta	Accelerated Particle Filtering with quasi-Newton steps for Diffuse Optical Tomography. OSA Conference on Optics in the Life Sciences	Apr 2-5, 2017, San Diego, California, USA.
3.	Dr. R. Periyasamy	Skin Reflectometry Technique for Measurement of Bilirubin Concentration to Detect Jaundice, International Conference on Biomedical Engineering and Bioinformatics (ICBEB 2017), Chulalongkorn University.	September 14-16, 2017, Bangkok, Thailand.

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	One month MOOC on "Financial Literacy"	Dr. Saurabh Gupta	NIL	Jan 23-Feb 18, 2018.	IITB and JP Morgan
2.	One week GIAN course on	Dr. Saurabh	Prof. Paul	Jan 17-21,	MHRD

	"Health Service Management"	Gupta	Lillrank	2018	
3.	One week workshop on "Big Data Analytic and related Technologies",	Dr. Saurabh Gupta, Dr. Govind Gupta, Dr. Sandeep Chouksey	Mr. Raju Kr. Mishra	Jan 8-12, 2018	TEQIP III
4.	Two day Workshop on "Generating Ideas/ Innovation Design"	Dr. Saurabh Gupta	Mrs. Disha Kaushal	Feb 3-4, 2018	TEQIP III
5.	One week short term training program on Big data analytics and related technologies	Dr. Bikesh Kumar Singh		8/01/2018 to 12/01/2018	N/A
6.	One week short term course on Campus to Corporate	Dr. Bikesh Kumar Singh	NIL	09/10/2017 to 13/10/2017	N/A
7.	One week short term course on Enhancing Employability Skills : Connecting Campus with Corporate	Dr. Bikesh Kumar Singh	NIL	09/12/2017 to 13/12/2017	N/A

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Neelamshobha Nirala	Study of Morning Coffee Intake in Healthy Subjects Using Pulse Rate Variability	International Journal for Research in applied Science and Engineering technology Vol. No. 6(VI);2075-	Available at www.ijraset.com

			2078:2018	
2.	Neelamshobha Nirala, R. Periyasamy , Awanish Kumar	Potential of photoplethysmogram for the detection of calcification and stenosis in lower limb	International Journal of Bioinformatics Research and Applications 14(3):283:2018	DOI: 10.1504/IJBRA.2018.10009583
3.	S. Gupta, T. Raveendran, R. M. Vasu, and D. Roy	Accelerated Particle Filtering with quasi-Newton steps for Diffuse Optical Tomography	OSA Conference on Optics in the Life Sciences, Apr 2-5, 2017, San Diego, California, USA.	10.1364/BODA.2017.JTu4A.36
4.	Bikesh Kumar Singh, KesariVerma, LipismitaPanigrahi, A. S. Thoke	Integrating Radiologist Feedback with Computer Aided Diagnostic Systems for Breast Cancer Risk Prediction in Ultrasonic Images: An Experimental Investigation in Machine Learning Paradigm	Expert Systems with Applications, Volume 90, pp 209-223	https://doi.org/10.1016/j.eswa.2017.08.020
5.	Luca Saba, Pankaj K. Jain, Harman S. Suri, Nobutaka Ikeda, Tadashi Araki, Bikesh K. Singh, Andrew Nicolaidis, ShoaibShafique, Ajay Gupta, John R. Laird, Jasjit S. Suri	Plaque Tissue Morphology-Based Stroke Risk Stratification, Using Carotid Ultrasound: A Polling-Based PCA Learning Paradigm	Journal of Medical Systems, 41(6):98.	doi: 10.1007/s10916-017-0745-0.
6.	RituAgrawal, Manisha Sharma, Bikesh Kumar Singh	Segmentation of Brain tumour based on clustering technique: Performance Analysis	Journal of Intelligent Systems,	doi:10.1515/jisys-2017-0027
7.	Bikesh Kumar Singh, KesariVerma, A. S. Thoke	Risk stratification of 2D ultrasound based breast lesions using hybrid features	Measurement, Volume 105, pp 146-157.	https://doi.org/10.1016/j.measurement.2017.01.016

		selection in machine learning paradigm		
8.	Ritu Agrawal, Manisha Sharma, Bikesh Kumar Singh	Segmentation of Brain Lesions in MRI and CT Scan Images: A Hybrid Approach Using k-Means Clustering and Image Morphology	Journal of The Institution of Engineers (India): Series B, Volume 99, Issue 2, pp 173–180	https://doi.org/10.1007/s40031-018-0314-z
9.	Bit, A., Ghagare, D., Rizvanov, A. A., & Chattopadhyay, H.	Assessment of influences of stenoses in right carotid artery on left carotid artery using wall stress marker.	BioMed research international, 2017	
10.	Bissoyi, A., Singh, A. K., Pattanayak, S. K., Bit, A., Sinha, S. K., Patel, A., Patra, P. K	Understanding the molecular mechanism of improved proliferation and osteogenic potential of human mesenchymal stem cells grown on a polyelectrolyte complex derived from non-mulberry silk fibroin and chitosan.	Biomedical Materials, 13(1), 015011.	
11.	Singh, A. K., Jha, A., Bit, A., Kiassov, A. P., Rizvanov, A. A., Ojha, A., Bissoyi, A.	Selaginella bryopteris Aqueous Extract Improves Stability and Function of Cryopreserved Human Mesenchymal Stem Cells.	Oxidative medicine and cellular longevity, 2017 .	
12.	Bit, A., Kumar, A., Singh, A. K., Rizvanov, A. A., Kiassov, A. P., Patra, P. K., Bissoyi, A.	Crosstalk between Substrates and Rho-Associated Kinase Inhibitors in Cryopreservation of Tissue-Engineered Constructs	Stem Cells International, 2017.	
13.	Nayak, S. K., Bit, A., Dey, A., Mohapatra, B., & Pal,	A Review on the Nonlinear Dynamical	Journal of Healthcare	

	K.	System Analysis of Electrocardiogram Signal.	Engineering, 2018.	
14.	Gupta, S., Bissoyi, A., & Bit, A.	A Review on 3D Printable Techniques for Tissue Engineering.	BioNanoScience, 1-16, 2018.	
15.	Bit, A., & Chattopadhyay, H.	Acute Aneurysm is more Critical than Acute Stenoses in Blood Vessels: a Numerical Investigation Using Stress Markers.	BioNanoScience, 8(1), 329-336.	
16.	Justin Joseph, R Periyasamy	A polynomial model for the adaptive computation of threshold of gradient modulus in 2D anisotropic diffusion filter	Optik-International Journal for Light and Electron Optics, 157, 841-853, 2018.	https://www.sciencedirect.com/science/article/pii/S0030402617315978
17.	Justin Joseph, R Periyasamy	A fully customized enhancement scheme for controlling brightness error and contrast in magnetic resonance images	Biomedical Signal Processing and Control, 39, 271-283, 2018.	https://www.sciencedirect.com/science/article/pii/S1746809417301660

Books, monographs, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1.	Bikesh Kumar Singh	Regression-Based Approach to Analyze Tropical Cyclone Genesis	Advances in Data and Information Sciences pp 77-87, springer	Co-author
2.	Bikesh Kumar Singh	Applications of Machine Learning Techniques in Disease Classification From	Design and Development of Affordable	Author

		Medical Images: Recent Practices and Future Challenges	Healthcare Technologies, IGI Global	
3.	Bikesh Kumar Singh	Optimization Techniques Applications in Biochemical Engineering and Controlled Drug Delivery: Current Practices and Forthcoming Challenges	Design and Development of Affordable Healthcare Technologies, IGI Global	Author
4.	Aindham Bit	Viral Proteases and Their Inhibitors	Elsevier	Bissoyi, A., Pattanayak, S. K., Patel, A., Singh, A. K., Behera, S. S., & Satpathy, D.

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Three-dimensional Monte-Carlo Simulations for Photoacoustic Tomography using Graphics Processing Units	Mar 2017 - Feb 2020	DST SERB	20,19,330	PI
2.	Computer aided technique for diseases diagnosis: A non invasive approach of disease detection using IRIS image	2017-2019	CCOST	2.87 Lacs	Co-PI
3.	Computer aided analysis and interpretation of mammographic images for early diagnosis of breast cancer in Chhattisgarh	2017-2019	CCOST	3.60	PI
4.	On-chip development of 3-D clinical graded tissue graft for the treatment of diseased esophageal segment with integration vascularization and	2017-2020	DST-SERB	33.18	PI

	enhanced neurogenesis				
5.	Regeneration mechanisms of deep-layer skin wounds in response to treatment with poly-electrolyte hydrogel complex dressings and gene therapy	2018-2020	DST-RSF	24.90	PI
6.	Development of a Non-invasive optical instrument based on skin reflectance technique for monitoring jaundice in Neonates.	2017	DST-IDP	18.64	PI

Awards/Any Other Achievements (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Details of the Award/Achievement	Date
1.	Dr. Saurabh Gupta	Mentor, Atal Tinkering Labs	Since Mar 2018
2.	Dr. Saurabh Gupta	Member, CII Chhattisgarh StartUp Panel	Since Mar 2018

Institute-Industry Collaboration Ongoing/New (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member(s)	Collaborating Institute / Organization	Area of Collaboration	Collaboration Activities
1.	Dr. Saurabh Gupta	Innovatiocuris	Development of Healthcare Equipment's	MoU/ Projects
2.	Dr. Saurabh Gupta	IISER TVM	Research	Research
3.	Dr. Saurabh Gupta	IITB	Research	Research
4.	Dr. Saurabh Gupta	IIT Mandi	Research	Research
5.	Dr. Saurabh Gupta	36 Inc	Entrepreneurship	Student Training
6.	Dr. Saurabh Gupta	Wadhvani	Entrepreneurship	Course on

		Foundation		Entrepreneurship
7.	Dr. Arindam Bit	Kazan Federal University, Russia	Tissue Engineering	Joint ongoing project
8.	Dr. Arindam Bit	NIT Rourkela	Signal Processing	Ongoing joint project
9.	Dr. Arindam Bit	IEST Shibpur	Tissue Engineering	Ongoing project
10.	Dr. Arindam Bit	University of Toledo, United States	EEG Signal Processing	Ongoing research articles
11.	Dr. Arindam Bit	RIKEN, Japan	Gene Tissue Engineering	Ongoing research articles
12.	Dr. Arindam Bit	Shahroud University of Medical Sciences, Shahroud, Iran	Microfluidic based tissue engineering	Ongoing MoU drafting and fund processing
13.	Dr. Arindam Bit	Naresuan University, Thailand	Microfluidic based tissue engineering	Ongoing MoU drafting and fund processing

Socially relevant activities

Sr. No.	Name of Faculty Member(s)	Activity
1.	Dr. Saurabh Gupta	Newspaper article about awareness of Patent Agents in state of CG
2.	Dr. Arindam Bit	National Health Mission, Chhattisgarh

Department of Biotechnology

Faculty: -

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. Lata Sheo Bachan Upadhyay	Assistant Professor & Head	PhD
2.	Dr. Pratima Gupta	Assistant Professor	PhD
3.	Dr. Awanish Kumar	Assistant Professor	PhD
4.	Dr. J. Satya Eswari	Assistant Professor	PhD

5.	Dr. D. Vasanth	Assistant Professor	PhD
6.	Dr. A. Seenivasan	Assistant Professor	PhD
7.	Dr. Nikhil Kumar	Temporary Faculty	PhD
8.	Dr. Aditya Dutt	Temporary Faculty	PhD
9.	Dr. Sharmila Narayan	Temporary Faculty	PhD

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Pratima Gupta	Dr. Kush Kumar Nayak	Development and study of keratin based material for skin tissue engineering and wound healing properties.
2.	Dr. Lata Sheo Bachan Upadhyay	Dr. Nikhil Kumar	Development of an optical biosensor for fluoride detection

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of The Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Abhijeet Sharma (14112002)	NIT Kurukshetra for M.Tech
2.	Anil Kumar (14112006)	Infosys
3.	Dev Nandan Kumar (14112013)	IIT Madras for M.Tech
4.	Gadicherla Harikrishna (14112014)	IIT Guwahati for M.Tech
5.	Khushbu (14112020)	Pradhan
6.	Kolli Venkata Supraja (14112022)	NIT Raurkela for M.Tech
7.	Shubham Kothari (14112047)	United State of America for M.Tech.
8.	Swapnil Kaushik (14112051)	NIT Kurukshetra for M.Tech

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	D. Vasanth	Evaluation of Characteristics of Disc Ceramic Membrane	September 30 to October 3, 2017, Alleppy, Kerala,

		Prepared using Clay based Raw materials, International Conference on Membranes (ICM-2017)	India
2.	D. Vasanth	Fabrication and Characterization of Circular Disc Membrane (CDM) using Cheaper Ceramic Precursors for Hemofiltration Application, International conference on Arts, Science & Technology (ICAST 2017	December 20-22, 2017, Dubai, UAE.
3.	D. Vasanth	Development of ceramic membrane for microfiltration application in biotechnology field, International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST) - ICACHE 2018,	January 18-20, 2018 Thrissur, Kerala

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No., Year	DOI/Web link
1.	Archana Vimal, <u>Awanish Kumar</u> *	Morpheein Model of Allosterism: A remedial step for targeting virulent L-asparaginase	<i>Drug Discovery Today</i> ; 22 (5): 814-822	10.1016/j.drudis.2016.10.004
2.	Ashwini Kumar, <u>Awanish Kumar</u> *	Development and characterization of tripolymeric and bipolymeric composite films using glyoxal as a potent crosslinker for biomedical application	<i>Materials Science and Engineering: C</i> ; 73: 333–339	10.1016/j.msec.2016.12.061

3.	Archana Vimal, <u>Awanish Kumar</u> *	In vitro screening and in silico validation revealed key microbes for higher production of significant therapeutic enzyme L-asparaginase	<i>Enzyme and Microbial Technol;</i> 98:9-17	10.1016/j.enzmctec.2016.12.001
4.	Anubhuti Jha, <u>Awanish Kumar</u> *	Deciphering the role of Sodium Lignosulfonate against <i>Candida spp.</i> as persuasive anticandidal agent	<i>Int J of Biological Macromolecules;</i> 107(A): 1212-1219	10.1016/j.jbiomac.2017.09.102

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No., Year	DOI/Web link
1.	Lata Sheo Bachan Upadhyay and Nikhil Kumar	Green synthesis of copper nanoparticle using glucose and polyvinylpyrrolidone (PVP)	<i>Inorganic and Nano-Metal Chemistry</i>	DOI: 10.1080/24701556.2017.1357576
2.	Aditya Dutt and Lata Sheo Bachan Upadhyay	Synthesis of Cysteine Functionalized Silver Nanoparticles using Green Tea Extract with Application for Lipase Immobilization	<i>Analytical Letters</i>	DOI: 10.1080/00032719.2017.1367399
3	Batul Diwan, Piyush Parkhey and Pratima Gupta	A platform study on development of a non-detoxified rice straw hydrolysate to its application in lipid production from	ACS Sustainable chemistry and engineering, 2018	

		<i>Mortierella alpina</i>		
4	Kush Kumar Nayak and Pratima Gupta	Study of the keratin-based therapeutic dermal patches for the delivery of bioactive molecules for wound treatment	Materials Science and Engineering C,2017	
5	Satya,Eswari, Jujjavarapu, Saurabh, Deshmukh	Artificial neural network as a classifier for the identification of hepatocellular carcinoma through prognostic gene signatures	Volume 19, Issue 6, 2018, current genomics,	http://www.eurekaselect.com/159873
6	J. SatyaEswari*, A. Seenivasan, K. Naveen kumar and D. Eswar Kranthi kumar,	Artificial Neural network modeling and Response surface methodology for the optimization of process conditions for the production of medicinal oyster mushroom <i>Pleurotus ostreatus</i> .	Current Biochemical Engineering, Vol. 4, No. 3, 2018.	http://www.eurekaselect.com/160331/article
7	J. Satya Eswari and Ch. Venkateswarlu,	Identification of a better Gene Expression data for mosquitoes species classification using Radial Basis Function Network Methodology	ISSN: 1875-0362 — Volume 11, 2018	https://benthamopen.com/FULLTEXT/TOBIOIJ-11-38
8	J. Satya Eswari,Swasti Dhagat, Sweta Naik, Sagar Dibya,	Phytochemical and antimicrobial studies of <i>Oroxylum indicum</i> extracts	Pharmaceutical bioprocessing, Accepted, ESCI	
9	Jujjavarapu Satya	Therapeutic and	Anti-Infective	http://www.eurekaselect.com

	Eswari,	Biodegradable Green Surfactant Kinetic Studies and Parameter Estimation with Multiple Substrates,	Agents, 2018, 16.	kaselect.com/162482/article
10	Seenivasan A, Gummadi SN, Panda T.	Comparison of the elution characteristics of individual forms of lovastatin in both isocratic and gradient modes and HPLC-PDA method development for pure and fermentation-derived lovastatin	Prep Biochem Biotechnol. 2017 Oct 21;47(9):901-908.	doi: 10.1080/10826068.2017.1365239.
11	A. Seenivasan, J. Satya Eswari, K. Naveen Kumar and D. Eswar Kranthi Kumar	Optimization of Process Conditions for the Production of <i>Pleurotus ostreatus</i> Using ANN and RSM	Current Biochemical Engineering 4(3): 194 - 203	DOI: 10.2174/212711905666180308152124
12	A. Seenivasan*, S. Venkatesan ¹ and Tapobrata Panda ¹	Cellular Localization and Production of Lovastatin from <i>Monascus purpureus</i>	Indian Journal of Pharmaceutical Sciences 80 (1), 85-98	DOI: 10.4172/pharmaceutical-sciences.1000333

Books, monograms, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1.	Dr. Lata Sheo Bachan Upadhyay	Microbial Detoxification of Residual Organophosphate Pesticides in agricultural Practices	Springer Nature Singapore	Author
2	Shadab Ahmed, Shreyas Niphadkar,	Microbial Sensing in Fermentation	John wiley and sons,	Co author

	Somnath Nandi, Satya Eswari J , Visahl Pandey, Aishwarya Shankhapal and Aishwarya Aggarwal. Biochemical and cellular events in controlling microbial performance: a comparative account.		publishers, 2017. In press.	
3	Satya Eswari J and Bikesh Kumar Singh, Optimization Techniques Applications in Biochemical Engineering and Controlled Drug Delivery,	Design and Development of Affordable Healthcare Technologies	IGI publishers.	Co author
4	Satya Eswari J and Bikesh Kumar Singh Applications of Machine Learning Techniques in Disease Classification From Medical Images,	Design and Development of Affordable Healthcare Technologies	IGI Publishers.	Co author
5	J. Satya Eswari and Ekant Tamboli, Microbial fuel cell configurations: Overview, Book chapter accepted.	Microbial fuel cell	Elsievier Publishers	Author
6	A. Seenivasan	Glass Transition and Phase Transitions in Food and	Wiley-Black	A. Seenivasan,

	Biological Materials		T. Panda
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Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Design of a single chambered microbial electrolytic cell from hydrogen production from leafy biomass by electrohydrogenesis	2015-18	Ministry of New and Renewable Energy.	37	PI
2.	Design of a Microbial Fuel Cell integrated Microbial electrolytic cell reactor and study of its structural and process parameters for economic bio-hydrogen production electrohydrogenesis	2018-21	Department of Biotechnology Govt. of India.	40	PI
3	Mathematical and kinetic modeling of experimental microbial fuel cell	2017-Ongoing	Department of Science and Technology	43 lakhs	PI
4	2016-, Computer aided drug design of Peptide based drugs: lipopeptides (2487/CCOST/MRP/2016)	Ongoing (3 years).	CCOST project	4 lakhs	PI

DEPARTMENT OF CHEMICAL ENGINEERING

Faculty

<u>Sr. No.</u>	<u>Name of Faculty</u>	<u>Designation</u>	<u>Qualifications</u>
1.	Dr.Mrs.A.B.Soni	Professor	PhD
2.	Dr. A.K.Poonia	Associate Professor	PhD
3.	Dr.Bidyut.Mazumdar	Associate Professor	PhD, MBA
4.	Dr.P.K.Chaudhari	Associate Professor	PhD
5.	Mr.V.K.Singh	Assistant Professor	PhD, MBA
6.	Amit Keshav	Assistant Professor	PhD
7.	Dr.Dharampal Singh	Assistant Professor	PhD
8.	Dr.Prabir Ghosh	Assistant Professor	PhD
9.	Dr.R.Manivannan	Assistant Professor	PhD
10.	Dr.J.Anand Kumar	Assistant Professor	PhD
11.	Dr.Mrs.S.Noyel Victoria	Assistant Professor	PhD
12.	Dr.Chandrakant Thakur	Assistant Professor	PhD
13.	Dr.Akhilesh Khapre	Temporary Faculty	PhD
14.	Ms.Urvashi Bhivgade	Temporary Faculty	MTech
15.	Ms Snigdha Saha	Temporary Faculty	MTech

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	P K. Chaudhari	Rajkishore Chaudhary	Removal of contaminants of coking wastewater
2.	Amit Keshav	Richa Gopal	Study On Color Degradation Of Green Leafy Vegetable Paste/Puree

M.Tech Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr Dharm Pal	Shiv Shankar Kumar	Preparation & characterization of wood adhesive using phenolics obtained from different sources”

2.	Dr.V.K.Singh	Ms.Suchismita Dash	Adsorptive Removal of Iron (II) from aqueous solution by activated pithecellobium dulce biochar: Kinetics, Isotherm and thermodynamic study.
3.	Dr.C.Thakur	Ms.Satrupa Sahu	Adsorption of Cadmium Ion From Synthetic Wastewater using modified adsorbent
4.	Dr.A.Keshav	Ms.Neena Dixit	Rheology of oils: Experimental and computational studies

Achievement of outgoing students (PG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Shiv Shankar Kumar (15245006)	Pursuing PhD at IIT Chennai
2.	Neena Dixit	Pursuing MS

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name Of The Student (Roll No.)	Placed In (Designation In Job/Higher Education With Details)
1.	Abhishek Choudhary	ALLEN KOTA BYJU'S
2.	Ambadi Aravind	BPCL RIL PETROLEUM
3.	Imran Khan	BPCL/VEDANTA
4.	Komal Dewangan	BPCL/RIL
5.	Abhishek Sharma	VEDANTA
6.	Apoorv Awasthi	VEDANTA
7.	B Nishant	HMEL
8.	Deepansh Jain	HMEL
9.	Gunnam Lava Kumar Reddy	WIPRO
10.	Komal Dewangan	BPCL/RIL
11.	Mridul Jain	RIL
12.	Nayanika Panickar	BPCL
13.	Pooja Chandrakar	VEDANTA
14.	Rupesh Pawar	BORL

15	Sanjesh Meshram	VEDANTA
16	Shalini Ojha	VEDANTA
17	Shashikant Sahu	NUVOCO
18	Shivam Bhosle	BPCL/RIL
19	Shubhi Saxsena	BPCL/RIL
20	Simran Kaur Saluja	CAPGEMINI
21	Yash Jain	RIL
22	Harshal Wakodkar	BORL

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended
(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr Dharm Pal	“Basics of Writing a Scientific Research Paper for Publication” in Two days Workshop on “Advances in Chemical Engineering & Technology” (ACET-2018, Deptt of Chemical Engineering at IET Lucknow, UP.	23 rd -24 th March. 2018) organised by Deptt of Chemical Engineering at IET Lucknow, UP.
2.	Dr Dharm Pal	“Process Intensification of Recovery of Carboxylic Acids Using Reactive Extraction” in Two days Workshop on “Advances in Chemical Engineering & Technology” (ACET-2018, Deptt of Chemical Engineering at IET Lucknow, UP.	23 rd -24 th March. 2018) organised by Deptt of Chemical Engineering at IET Lucknow, UP.
3.	Dr Dharm Pal	“Bio-nanocomposites-for food packaging” in One Week Self-Sponsored STTP on “Recent trends in material science and nano-technology” (MSTB-2017, 3 rd -7 th Oct. 2017) organised by deptt of Chemistry at NIT Raipur.	3 rd -7 th Oct. 2017) organised by deptt of Chemistry at NIT Raipur.
4.	Dr. Chandrakant Thakur	Adsorption study of resorcinol onto iron impregnated granular	27-30 th December, 2017, Dept. of Chemical

		activated Carbon, CHEMCON – 2017, Haldia Regional Centre	Engineering, Haldia Institute of Technology, Haldia
5.	Dr. Chandrakant Thakur	Conventional and non- conventional methods for the measurement of lead concentration in aqueous solution, National Conference on Recent Advances in Chemical Analysis, NIT Raipur	14 December 2017, NIT Raipur

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended
(From 01-04-2017 to 31-03-2018) [International]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Dr. Chandrakant Thakur	Treatment of Automobile Wastewater By Electrocoagulation, 1st International Conference on Arts, Science & Technology-2017, Academy of Art, Science & Technology	20-22 Dec 2017, Dubai
2.	Dr. Chandrakant Thakur	Adsorptive Removal of Acid Red 3BN by Coconut Shell Activated Carbon, International Conference on Sustainable Energy and Environmental Challenges (SEEC-2018), IISc Bangalore, Bangalore	31 st December, 2017 to 3 rd January, 2018, IISc Bangalore
3	Dr. Chandrakant Thakur	Application of fixed bed reactor for removal of methylene blue dye using heterogeneous fenton catalyst, 1 st International conference on Energy and	9-10 th March 2018, NIT Calicut, Kerala,

		Environment; Global Challenges (ICEE-2018), Department of Chemical Engg. NIT Calicut	
4.	Dr.J. Anandkumar	Extraction and Recovery of 4-Bromophenol Using Kerosene as a Bulk Liquid Membrane. "International Conference on Innovative Engineering Technologies/ International conference on Innovative Engineering Technologies/ <i>The IRES</i>	August 27-28, Hong Kong.
5.	Dr. P K. Chaudhari	International Journal of Art and Science, November 6-9, 2017	University of London
6.	Dr .Amit Keshav And Dr.B Mazumdar	Effect Of Blanching Media On Yield Stress Determination Of Some Green Leafy Vegetables Puree In India	28 Nov 2017-1 D 2017,Freiburg University, Germany.
7.	Dr B Mazumdar And Dr Amit Keshav	Enhancement Of Esterification Of Acrylic Acid With Ethyl Alcohol Over Different Homogenous Catalysts By Pervaporation	28 Nov 2017- D 2017,Freiburg University, Germany.
8	Dr. P. Ghosh	Application of Fe loaded fly ash brick clay catalyst on degradation of 4-Nitrophenol	7-10 November, 2017, University of London, London

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

S r. N o.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	A FDP sponsored	Dr Dharm	IIT	(3 rd Aug. to 7 th Sept.,2017)	(PMMMMM)

	by (PMMMNTT), MHRD, GoI on “Foundation Program in ICT for Education” (3 rd Aug. to 7 th Sept.,2017) organized by IIT Bombay held at NIT Raipur.	Pal	Bombay Faculty		TT), MHRD, GoI & IIT Bombay
2.	A FDP sponsored by on “Pedagogy for Online and Blended Teaching-Learning Process”	Dr Dharm Pal	IIT Bombay Faculty	(14 th Sep.,- 12 th Oct., 2017)	(PMMMNTT), MHRD, GoI & IIT Bombay

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr . No .	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member’s name in BOLD }	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Yadu, A; Anandkumar, J	Biodegradation of Bromophenol in Anaerobic, Anoxic and Aerobic Batch Reactor	International Journal of Biotechnology , Bioinformatics and Biomedical, 2 (1), 01-06.	DOI: https://doi.org/10.30732/ijbbb.20170201001

2.	Paraye A; Sani R; Ramachandran Manivannan ; Selvam Noyel Victoria	Effect of pH and sulfur precursor concentration on electrochemically deposited CZTS thin films using glycine as the complexing agent	Applied Surface Science, Volume 435, p. 1249-1256.	10.1016/j.apsusc.2017.11.210
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Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Yadu, A; B.P.Sahariah, B.P; Anandkumar, J	Influence of COD/ammonia ratio on simultaneous removal of NH ₄ ⁺⁻ N and COD in surface water using moving bed batch reactor	<i>Journal of Water Process Engineering</i> , 22, 66-72, 2018	https://doi.org/10.1016/j.jwpe.2018.01.007
2.	Rajkishore Chaudhary and Parmesh Kumar Chaudhari	Removal of pollutants of coking wastewater by adsorption	Desalination and Water Treatment 45-57 (75) 2017	
3.	Rajkishore Chaudhary et al.	Electro coagulation process to remove	Desalination and Water Treatment	

		contaminants of coking wastewater	68-79 (86) 2017	
4	Niraj Thakre, Dipaloy Datta, A. K. Prajapati, P. K. Chaudhari, Dharm Pal	Reactive extraction of citric acid using different extractants: equilibrium, kinetics and modeling	Chemical and Biochemical Engineering Quarterly 31(4) 437-446, 2017	
5	Archana Vimal, Dharm Pal, Timir Tripathi, Awanish Kumar	Eucalyptol, Sabinene and Cinnamaldehyde: Potent inhibitors of Salmonella Target Protein L-asparaginase	3 Biotech, Vol 7 Pg 258, 2017	
6	A K Sinha, P Singh, A Prakash, D Pal, A Dube and A Kumar,	Putative drug and vaccine target identification in Leishmania donovani membrane proteins using Naïve Bayes probabilistic classifier	IEEE IEEE/ACM Transactions on Computational Biology and Bioinformatics, Vol 14(1), pg 204-211, 2017	
7	D Dutta, M A Marti S, Dharm Pal, S Kumar	Equilibrium Study on the Extraction of Levulinic Acid from Aqueous Solution with Aliquat 336 Dissolved in Different Diluents: Solvent's Polarity Effect and Column Design	Journal of Chemical & Engineering Data, vol 62(1), pg 3-10, 2017	
8	D. Sharma, A.K. Prajapati, R. Chaudhari, R. K. Kaushal, D. Pal, A.N. Sawarkar	Preparation and characterization of CuO catalyst for the thermolysis treatment of distillery wastewater	Environ Technology, vol 31, pg 1-32, 2017	

9	D. C. Jhariya, T Kumar , R Dewangan , Dharm Pal and P K Dewangan	Assessment of Groundwater Quality Index for Drinking Purpose in the Durg District, Chhattisgarh Using Geographical Information System (GIS) and Multi- Criteria Decision Analysis (MCDA) Techniques	Journal of the Geological Society of India, vol 89, pg 453-459, 2017	
10	Sandeep Dharmadhikari, Prabir Ghosh, Manivannan Ramachandran,	Synthesis of proton exchange membranes for dual chambered microbial fuel cells	J. Serb. Chem. Soc. 83 (2018) 1-13.	
11	Anurag Tiwari , Amit Keshav, Shubhankar Bhowmick	Pervaporation study of Propionic Acid with Ethanol using heterogeneous catalyst in integrated Esterification- Pervaporation system	International Journal of ChemTech Research Vol.10 No.1 pp 148-162, 2017	www.sphinxσαι.com/2017/ch_vol10_no1/1/(148-162)V10N1CT.pdf
12	Anurag Tiwari , Amit Keshav, Shubhankar Bhowmick, Omprakash Sahu	Liquid-liquid Equilibria (LLE) of the quaternary mixture (acetic acid + ethanol + ethyl acetate + water) arising out of esterification reaction: Optimization studies	Journal of Molecular Liquids 231, 86–93, 2017	(http://www.sciencedirect.com/science/article/pii/S0167732216337722?via%3Dihub)
13	Jagamohan Meher, Amit Keshav. Bidyut Mazumdar	Rheological studies on moringa leaves (Moringa Oleifera) purees.	Journal Of Chemical Sciences, Vol.7(3), pp10- 18, 2017.	http://www.isca.in/rjcs/Archives/v7/i3/2.ISCA-RJCS-2017-007.pdf
14	Anurag Tiwari , Amit Keshav, Shubhankar Bhowmick,	Optimization of Esterification of Propionic Acid with	International Journal of Chemical	https://doi.org/10.1515/ijcre-2016-0101

		Ethanol Catalyzed by Solid Acid Catalysts using Response Surface Methodology (RSM): A Kinetic Approach	Reactor Engineering. 2017; 20160101	
15	Ghoshna Jyoti, Amit Keshav, and J. Anandkumar	Esterification of acrylic acid with ethanol using pervaporation membrane reactor	Korean Journal of Chemical Engineering: Vol. 34, No. 6, 2017-06-01.	https://link.springer.com/article/10.1007/s11814-017-0088-z
16	Jagamohan Meher, Amit Keshav. Bidyut Mazumdar	Rheology of Karmatta Leaves (Ipomoea aquatic) Puree and its Yield Value Comparison	International Journal of ChemTech Research CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online): 2455-9555 Vol.10 No.3, pp 185-192, 2017	www.sphinxsaicm/2017/ch_vol10no3/1/(185-192)V10N3CT.p
17	Jaga mohan, Amit Keshav, B. Mazumdar, S. Keshav	Effect of blanching and thermal preservation on rheology of curry leaf puree.	Journal of Food Measurement and Characterization - Springer, 2017 2018, Vol. 12 (1), 105-117	https://link.springer.com/article/10.1007/s11694-017-9621-3
18	Ghoshna Jyoti, Amit Keshav, and J. Anandkumar, Stutee Bhoi,	Homogeneous and heterogeneous catalyzed esterification of acrylic acid with ethanol: Reaction Kinetics and	International Journal of Chemical Kinetics, Article DOI: 10.1002/kin.21167, 370-379.	https://onlinelibrary.wiley.com/doi/abs/10.1002/kin.21167

		Modeling,		
19	Dharm Pal , Niraj Thakre , Amit Keshav , Awanish Kumar , Dhananjay Singh and Neetu Kumari,	Liquid-liquid extraction equilibrium for pyruvic acid recovery: experimental data and modeling	Brazilian Journal of Chemical Engineering, Vol. 34, No. 03, pp. 919 – 925, July – September, 2017	dx.doi.org/10.1590/0104-6632.20170343s20150276
20	Prabir Ghosh, Damodhar Ghime and Dolly Lunia	Degradation of p-aminophenol by Fenton's process: Influence of operational parameters	Environ. Prot. Engg, 43 (2017) 255-67	
21	R.K. Choudhary, Ghoshna Jyoti, Prabir Ghosh, P.K.Chaudhari	Electrocoagulation process to remove contaminants of coking wastewater using aluminum electrode	Desalination and Water Treatment, 86 (2017) 68–79.	
22	Neha Pandey, Vijyendra Kumar, Prabir Ghosh	Degradation of 4-Nitrophenol (4-NP) using Fe-loaded fly ash brick clay as a heterogeneous Fenton catalyst	Desalination and Water Treatment, 95 (2017) 170–179.	
23	Damodhar Ghime, Prabir Ghosh	Heterogeneous Fenton degradation of oxalic acid by using silica supported iron catalysts prepared from raw rice husk	Journal of Water Process Engineering 19 (2017) 156–163	Damodhar Ghime, Prabir Ghosh
24	Sandeep Dharmadhikari, Prabir Ghosh and Manivannan R	Synthesis of proton exchange membranes for dual chambered microbial fuel cells	Journal of Serbian Chemical Society, 83(5), 611-623 (2018)	Sandeep Dharmadhikari , Prabir Ghosh and Manivannan R

25	Thakur C. , Srivastava V.C., Mall I.D., Hiwarkar A.D.,	Mechanistic study and multi-response optimization of the electrochemical treatment of petroleum refinery wastewater	Clean Soil Air Water, Vol. 46(3), 2018	doi:10.1002/clen.201700624
26	Hiwarkar A.D., Singh S., Srivastava V.C., Thakur C. , Mall I.D., Lo S.-L.	Electro-chemical mineralization of recalcitrant indole by platinum-coated titanium electrode: multi-response optimization, mechanistic and sludge disposal study	International Journal of Environment and Science Technology, Vol. 15 (2), pp 349–360, 2018	https://link.springer.com/article/10.1007/s13762-017-1391-2
27	Neha Pandey, Chandrakant Thakur	Treatment of Automobile Wastewater By Electrocoagulation	International Journal of Trend in Research and Development (IJTRD), ISSN: 2394-9333, Special Issue	http://www.ijtrd.com/papers/IJTRD14637.pdf

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Hybrid Treatment Method for Treatment of Automobile Service Station Effluent	3 year	NIT Raipur	5 Lakhs	PI
2.	One step CZTS nano ink synthesis by sonochemical route for bifacial solar cell applications	2014-2018	DST-SERB	2034151	S. Noyel Victoria

3.	Treatment of sugar industry wastewater and water management in sugar industry	2 Year	SERB, NewDelhi	27.86	PI Ongoing
4.	Scientific studies on impact of Idols on water quality'	2 Year	Chhattisgarh Council of Science & Technology, Raipur	4.26	PI Ongoing
5.	Monitoring of fluoride in underground water of Baster district of Chhattisgarh and its removal	2 Years	Chhattisgarh Council of Science & Technology, Raipur	3.29	Co-PI Ongoing
6.	Removal of dye and chemical oxygen demand of dye bearing effluent	2 Years	Chhattisgarh Council of Science & Technology, Raipur	4.0	Co-PI Ongoing
7.	Shelf Life Of Spices	2014-2017	CCOST, RAIPUR	5	B MAZUMDAR
8.	Practically-viable heterogeneous Fenton catalyst and reuse of same catalyst in synthetic or industrial waste water treatment	02/02/2016 to 01/02/2019	DST-SERB	25.89	Dr. P. Ghosh (PI)

Socially relevant activities

Sr. No.	Name of Faculty Member(s)	Activity		
1.	<u>Sahariah, B.P, Anandkumar, J, Chakrabort, S.</u>	Stability of continuous and fed batch sequential anaerobic-anoxic-aerobic moving bed bioreactor systems at phenol shock load application	Environmental Technology . (2018) 39(15):1898-1907.	doi: 10.1080/09593330.2017.1343388.

2.	AMIT KESHAV	Dishayen programme for school children's		

DEPARTMENT OF CHEMISTRY

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. (Mrs. Fahmida Khan	Professor	PhD
2.	Dr. (Mrs.) Kavita Tapadia	Assistant Professor	PhD
3.	Dr. Shyama Prasad Mahapatra	Assistant Professor	
4.	Dr. (Mrs.) Tungabidya Maharana	Assistant Professor	PhD
5.	Dr. Santhosh Penta	Assistant Professor	PhD
6.	Dr. Kafeel Ahmad Siddiqui	Assistant Professor	PhD

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. (Mrs.) Fahmida Khan	Dakeshwar Verma	Study on selected natural plant extract as mild steel corrosion inhibitors in acidic media
2.	Dr. (Mrs.) Fahmida Khan	Rakesh Sahu	DNA Binding study of metal complexes and their microbial activity
3.	Dr. (Mrs.) Fahmida Khan	Chandrprabha Sahu	Biosorption of heavy metal in water and waste water
4.	Dr. (Mrs) Kavita Tapadia	Mrs. Chitra Verma(Part time, 12331003)	<i>Analytical Studies of Toxic Elements in Biological, Environmental and Pharmaceutical Samples using N-octylacetamide</i>

M.Tech. Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. S. P. Mahapatra (Co-Supervisor) Dr. Santhosh Penta (Supervisor)	Pushpanjali Dakhne	Facile synthesis of thiazolyl-2H-chromen-2-one derivatives via multicomponent reaction
2.	Dr. S. P. Mahapatra (Co-Supervisor) Dr. Santhosh Penta (Supervisor)	Garima Dewangan	Facile one-pot synthesis of bioactive coumarinyl-thiazole derivatives
3.	Dr. S. P. Mahapatra (Co-Supervisor) Dr. Santhosh Penta (Supervisor)	Pooja Shankala	An efficient synthesis of thiazole-schiff base derivatives via multicomponent approach

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended (From 01-04-2017 to 31-03-2018) [National]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr. Kavita Tapadia	<ul style="list-style-type: none"> <i>Nanodrop spectrophotometric determination of thiol containing toxicants in environmental samples</i> UGC-SAP (DRS-II) 2nd National Conference on ADVANCES IN ENVIRONMENTAL & CHEMICAL SCIENCES" 	March 22–23, 2018. School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, CG.
1.	Dr. S. P. Mahapatra	Carbonaceous Nanomaterials, Lecture, STTP on Recent Trends in Material Science and Nano-Technology, NIT Raipur	5 th October 2017. NIT Raipur
2.	Dr. S. P. Mahapatra	Polymer Nano-Composites and their Applications, Lecture, STTP on Recent Trends in Material Science and Nano-Technology, NIT Raipur	6 th October 2017. NIT Raipur
3.	Dr. S. P. Mahapatra	Forecasting of Air Pollutants by Using Soft Techniques, Invited Lecture, National Conference on Frontiers in Science, Technology and Management for National	15 th February 2018, BIT Durg, (CG)

		Development, BITCON 2018 BIT Durg.	
4.	Dr. Santhosh Penta	<p>Oral Presentation: Preparation, Characterization and photocatalytic activity studies of Metal containing Schiff base complexes.</p> <p>Event Name: Recent trends in material science and nano-technology- (MSNT-2017)</p>	Oct 3 rd to 7 th 2017 NIT Raipur
5.	Dr. Santhosh Penta	<p>Oral Presentation: Synthesis of [1,2,4]triazolo[[3,4-b][1,3,4]thiadiazin-3-yl]2,3,4,5-tetrahydro-pyridazin-4-yl]-phosphonic acid diethyl ester derivatives</p> <p>Event Name: Recent trends in chemical analysis (RACA 2017)</p>	14 th December 2017, NIT Raipur

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Dr. (Mrs.) Fahmida Khan	Heteroatom doped carbon dots as fluorescent probe for bio-imaging and cancer therapy	15-17 November 2017 World Congress on Genetics and Genomics and Personalised medicine, J N Tata Auditorium, Bangalore
2.	Dr. (Mrs.) Fahmida Khan	Facile synthesis of L-Cysteine functionalized graphene quantum dots as fluorescent sensing probes for Zn ⁺² ions detection.	10-12 January 2018 World Environment Congress organised by 3 rd World Research Journal Congress at Art of Living International Centre,

			Banglore
3.	Dr. (Mrs.) Fahmida Khan	Green synthesis of Nanoparticles and Graphene Quantum Dots for Quantification and Remediation of Toxic Metals	15 February 2018 BITCON 2018 National Conference in Frontiers of Science, Technology and Management for National Development
4.	Dr. S. P. Mahapatra	Seasonal variation correlation and heavy metal pollution index in ground water of Bailadila iron ore mine area and its peripherals, International Conference on Contemporary issues in Science, Engineering & Management organized by Gandhi Institute for Technology (GIFT), Bhubaneswar.	27-28 May 2017. Gandhi Institute for Technology (GIFT), Bhubaneswar, Odisha, India.

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	STTP: Recent trends in material science and nano-technology- (MSNT-2017)	Dr. S. P. Mahapatra, (Convener) Dr. S.Penta (Coordinator) Dr. K. A. Siddiqui (Coordinator)		Oct 3 rd to 7 th 2017 NIT Raipur	Self-Sponsored
2.	Conference: Recent Advances in Chemical Analysis-RACA-2017	Dr. S. P. Mahapatra, Dr. S. Penta (Secretary)		14 th December 2017 NIT Raipur	TEQIP Sponsored

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> And write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	G. Jareda, S. P. Mahapatra , P. Y. Dhekne	Water quality index, heavy metal pollution index and seasonal variation correlation of groundwater of Bailadila iron ore mine area and its peripherals: Dantewada district, Chhattisgarh, India	Desalination and Water Treatment , 101, 7-16, January 2018	http://www.deswater.com/DWT_abstracts/vol_101/101_2018_7.pdf
2.	Ghanshyam Jareda and Shyama Prasad Mahapatra	Column adsorption technique for the removal of Pb ⁺² ions by using Sugarcane leaves	Oriental Journal of Chemistry, 33(6), 1-6, December 2017.	http://dx.doi.org/10.13005/ojc/330670
3.	Monika Singh, S. P. Mahapatra , S. Nigam	Study of concentration of carbon monoxide pollutant in Delhi city using Artificial Neural Network	International Journal of Civil Engineering and Technology, 8(8), 581-589, August 2017.	
4.	Archi Sharma, Gudala Satish, Ambati Srinivasa Rao, Santhosh Penta, S. P. Mahapatra , V. Rajeswar Rao, Someshwar Pola and B. Acharya	Synthesis of heterocyclic compounds catalyzed by metal/metal oxide-multiwall carbon nanotube nanocomposites	Journal of the Chinese Chemical Society, 64, 589-606, May 2017.	https://onlinelibrary.wiley.com/doi/epdf/10.1002/jccs.201600864

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> And write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Archana Yadav, P. Lama, A. Bienko, D. Bienko, Kafeel Ahmad Siddiqui	H-bonded supramolecular synthon induced magnetic superexchange phenomenon results weak ferromagnetic and strong antiferromagnetic interactions in two new copper-orotate coordination network	Polyhedron Vol.141 P-247-261 Year 2018	https://doi.org/10.1016/j.poly.2017.11.047
2	Ashok K. Bharati. P. Lama, J-T. Piegza, A. Bienko, Kafeel Ahmad Siddiqui	A blue luminescent binuclear cadmium-orotate coordination polymer: synthesis, crystal structure, and thermogravimetric analysis.	Journal of Coordination Chemistry, 2017, VOL . 70, NO . 24, 3959–3970	https://doi.org/10.1080/00958972.2017.1417988
3	Kafeel Ahmad Siddiqui , Swati Singh Rajput, Prem Lama	2D hydrogen-bonded manganese–picolinate coordination network: ionic liquid-induced synthesis, crystal structure and thermogravimetric analysis	Journal of Iranian Chemical Society, 2018,15,93-99.	Doi: 10.1007/s13738-017-1212-z
4.	Kafeel Ahmad Siddiqui , Prem Lama	First Orotic acid and Isonicotinic acid based Zn-complex: Hydrothermal Synthesis, Crystal Structure and Thermogravimetric Analysis	Journal of Structural chemistry,2018 ,59,1,166-171.	https://doi.org/10.1134/S0022476618010250
5.	Kafeel Ahmad Siddiqui	Structural Diversity of Metal-Organic Hydrates: A Crystallographic Structural Data Base Study	Journal of Structural Chemistry,2018,59,1,106-113.	https://doi.org/10.1134/S0022476618010158
6.	Pratik Jagtap, Kavita Tapadia	Pharmacokinetic determination and analysis of nortriptyline based on gc-ms coupled with hfdsm technique	<i>Bioanalysis</i> (2018) 10(3), 143–152. 10.4155/bio-2017-0207.	

7.	Chitra Verma, Kavita Tapadia , Anupam Bala Soni, Ashima Sharma	Determination of bismuth (iii) in environmental and pharmaceutical samples using organic reagent	<i>Analytical Methods</i> , 2017, 9 , 3682 – 3688	DOI no. 10.1039/C7AY00412E, 2017.
8.	Kajal Sao, Madhurima Pandey, Piyush Kant Pandey, Fahmida Khan	Highly efficient bio-absorptive removal of lead from industrial effluent	Environmental Science and Pollution Research, 2017, 1-11.	
9.	Chandraprabha Sahu, Piyush Kant Pandey, Fahmida Khan and Madhurima Pandey,	Proficient Removal of As (III) from Water Using Orchid Plant (Vanda sp.) as Biosorbent”	Asian Journal of Chemistry; Vol. 29 , No. 8 (2017), 1790-1796.	
10.	Chandraprabha Sahu, Fahmida Khan , Piyush Kant Pandey, Madhurima Pandey,”	“A review on sorption of toxic element from aqueous solution	Research Journal of Chemical Sciences, Vol. 7(9), 53-58, September (2017).	
11.	Dakeshwar Kumar Verma, Fahmida Khan , Sonalika Agrawal,	“Inhibition Effect of Bombax ceiba Flower Extract as Green Corrosion Inhibitor of Mild Steel in 0.5 M H ₂ SO ₄ Medium”	Asian Journal Of Chemistry, Vol. 29, Pg No. 2615-2618(2017).	
12.	Sonalika Agrawal, Fahmida Khan , Dakeshwar Kumar Verma, Rakesh Kumar Sahu, “	Reductometric Titration and Quantum Chemical Study of Oxalohydroxamic Acid for Determination of Manganese in Ores and Alloys,	Asian Journal Of Chemistry, Vol. 29, Pg No. 2592-2596 (2017).	
1.	P. Srishylama, A. Raji Reddya, Shyamapada Banerjeea, Santhosh Penta and Yogesh S. Sanghvi	DDQ mediated regiospecific protection of primary alcohol and deprotection under neutral conditions: Application of new <i>p</i> -methoxy benzyl-pixyl ether as reagent of choice for nucleoside	Tetrahedron Letters, Volume 58, Issue 26, 28 June 2017, Pages 2588-2591	https://doi.org/10.1016/j.tetlet.2017.05.066

		protection		
2.	Srinivasa Rao Ambati, Satish Gudala, Archi Sharma, Santhosh Penta , Velatooru Loka Reddy, Yashwanth Bomma, Venkateswara Rao Janapala, and Someshwar Pola.	Facile Synthesis of Novel 3-(4-phenylisothiazol-5-yl)-2H-chromen-2-one Derivatives as Potential Anticancer Agents	Journal of Heterocyclic Chemistry, Volume 54, Issue 4, July 2017, Pages: 2333–2341	https://doi.org/10.1002/jhet.2822
3.	Archi Sharma, Satish Gudala, Srinivasa Rao Ambati, Santhosh Penta , Shyama Prasad Mahapatra, Rajeswar Rao Vedula, Someshwar Pola and Bibhudendra Acharya	Synthesis of Heterocyclic Compounds Catalyzed by Metal/Metal Oxide-MultiwallCarbon Nanotube Nanocomposites.	Journal Of Chinese Chemical Society, Volume 64, Issue 6, June 2017, Pages 589–606.	https://doi.org/10.1002/jccs.201600864

Books, monograms, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1.	Dr. Santhosh Penta	Dehydroacetic acid and its derivatives: useful synthons in organic synthesis	Elsevier (April 2017)	Author / Editor

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Synthesis and Characterizations of [O-,N,N,O] Based Bulky Schiff Base Metal Complexes and Their Catalytic Activity Towards Cyclic Carbonate Formation by Fixation of CO ₂	July 2014-July 2017	DST	24.5L	Dr T Maharana-PI Co-PI-NIL
2.	Spatial distribution of uranium and associated water quality parameter in ground water / drinking water of five district (Bilaspur, Korba, Koriya, Mungeli & Surajpur)	Apr-2016-Dec 2018	BRNS	26 L	PI-Dr T Maharana and Co-PI-Dr K Tapadia In progress
3.	Spatial distribution of uranium and associated water quality parameter in ground water / drinking water of five district	Apr-2016-Dec 2018	BRNS	20L	PI-Dr K Tapadia and Co-PI-Dr T Maharana In progress

	(Narayanpur, Kondagaon, Bijapur, Dantawada, Bastar, Sukma)				
4.	Crystal Engineering and Supramolecular Synthon Approach for the Assembly of Hydrogen Bonded Metal Complexes	September 2017	SERB-DST, New Delhi	17.48 Lakhs	Dr. Kafeel Ahmad Siddiqui-PI (Completed)
5.	A Supramolecular Synthon Approach for Magneto-Structural Analysis of Hydrogen Bonded Metal-Organic Coordination Network	May-2018	CSIR, New Delhi	10 Lakhs	Dr. Kafeel Ahmad Siddiqui-PI (On Going)
6.	Consultancy: Feasibility Studies on Removal of Contaminants from Surface and Ground Water of Bailadila Iron Ore Mine Project and Peripherals	2018-2021	NMDC Limited, A Govt. Of India Enterprise.	Rs. 66.5874 Lakhs	Dr. P. Y. Dhekne (PI), Dr. S. P. Mahapatra (Co-PI), Dr. Santhosh Penta (Co-PI).
7.	Design and synthesis of novel potent heterocyclic compounds and their biological evaluation	2014-2017	CGCOST	4.95	Dr. Santhosh Penta (PI)

DEPARTMENT OF CIVIL ENGINEERING

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. U. K. Dewangan	Professor & Head	PhD
2.	Dr. M.K. Verma	Professor (On Deputation) Vice- Chancellor at CSV TU	PhD
3.	Dr. R. K. Tripathi	Professor	PhD
4.	Dr. Samir Bajpai	Professor	PhD
5.	Dr. Gangadhar Ramtekkar	Professor	PhD
6.	Dr. Ajay Vikram Ahirwar	Assistant Professor	PhD
7.	Dr. Laxmikant Yadu	Assistant Professor (On Lien)	PhD
8.	Dr. Shirish V Deo	Assistant Professor	PhD
9.	Dr. Ishtiyag Ahmad	Assistant Professor	PhD

10.	Dr. Mani Kant Verma	Assistant Professor	PhD
11.	Dr. Mohit Jaiswal	Assistant Professor	PhD
12.	Dr. MeenaMurmu	Assistant Professor	PhD
13.	Dr. Govardhan Bhatt	Assistant Professor	PhD
14.	Dr. Sunny Deol G.	Assistant Professor	PhD
15.	Dr. Ansu Thomas	Assistant Professor	PhD
16.	Dr. Sandeep Kumar Chouksey	Assistant Professor	PhD
17.	Dr. A. D. Prasad	Assistant Professor	PhD
18.	Dr. Alfia Bano	Assistant Professor	PhD

M.Tech Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1	Dr. U. K. Dewangan	G. Thulasendra	System identification and health monitoring of Truss structures
2	Dr. U. K. Dewangan	Rohit Raj Mandal	Finite element modelling of bridge deck
3	Dr. R. K. Tripathi	Aparna C Manoharan	Analysis of Beams and Portal Frames with Web Openings
4	Dr. Samir Bajpai	Yash Duggad	Ground Water Potential Zone Mapping of Arpa River basin using RS and GIS
5	Dr. Samir Bajpai	Abhishek Singh	Management of Urban Flooding using SWMM software: A case study of NIT Raipur Campus
6	Dr. G. Ramtekkar	Kiran S	A Comparative Study on Linear and Non-linear Behaviour of Building Under Various Structural Arrangement for Mitigating Soft Storey Effect
7	Dr. Ishtiyah Ahmad	Jyoti	Flood Plain Mapping Using HEC – RAS and GIS of Sheonath River Basin
8	Dr. Ishtiyah Ahmad	PiyushkantiGoswami	Groundwater Recharge Zone Mapping Using GIS : A Case Study of Kharun Basin (C.G.)
9	Dr. Ishtiyah Ahmad	ShailendraSahu	Groundwater Management By The Application Subsurface Dyke And Its Future Scenario In C.G. Using MODFLOW
10.	Dr. Mani Kant Verma	AuragSwarnkar	A Study on Sustainable Management Of Storm Water To Prevent Urban Flash Flooding Using SWMM
11.	Dr. Mani Kant Verma	Deepak Ranjan Rath	Application of hydrological modelling for estimation of runoff in upper seonath basin
12.	Dr. Mani Kant Verma	Devesh Gaikwad	Hydrological modelling of seonath basin for surface runoff calculation
13.	Dr. Mani Kant Verma	Yashvant Kumar Kurmi	Drought analysis of seonath basin using different indices

14.	Dr.Mani Kant Verma	Mokshdhar Meshram	Impact of climate change on the precipitation under different climate scenario in sheonath river basin
15.	Dr.Mani Kant Verma	Nadella Anusha	Attainment Of An Optimum Operating Policy For A Water Resource System [Ravishankar Sagar Reservoir]
16.	Dr. Meena Murmu	Himanshu	Analytical and Experimental Study of Reinforced Concrete Beam with Different Splices
17.	Dr. Govardhan Bhatt	Palash Sagar Rajepandhare	Modeling and Analysis of Different Structural Systems using LabVIEW and Experimental Validation
18	Dr. A.D.Prasad	Bhupendra Kumar Dhiwar	Identification of Flood Vulnerable Area for Kharun River Basin by GIS techniques.
19.	Dr. S. K. Chouksey	Abshiek Fale	Reliability Analysis of Counterfort Retaining Wall

Achievement of outgoing students (PG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Md. Azaruddin	PhD(WRD) IIT Hyderabad
2.	Mokshdhar Meshram	CGPSC (Polytechnic)
3.	Aparna C Manoharan	Cube Engitech Consultant Pvt. Ltd.
4	Himanshu	Cube Engitech Consultant Pvt. Ltd.
5	Abhishek Singh	Engineer JMC Constructions
6	Poonam sahu	J.E Nagar nigam, Zone-V
7	Yash Duggad	PhD (IIT Gandhinagar)

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Name of the student	Roll no	Placed in (Designation in Job/Higher Education with details)
ABHIJEET SARAF	14114002	L&T Constrction Pvt. Ltd.
ASHOK KUMAR VAISHYA	14114009	L&T Constrction Pvt. Ltd.
BHARTENDU KUMAR	14114011	L&T Constrction Pvt. Ltd.
GADE DEEPAK REDDY	14114018	L&T Constrction Pvt. Ltd.
GURRAM MAHESH CHOUDARY	14114021	L&T Constrction Pvt. Ltd.

ISHAN CHOUDHARI	14114026	L&T Constrcuton Pvt. Ltd.
KANNAIAH GARI SAI TEJA	14114028	L&T Constrcuton Pvt. Ltd.
LANKIREDDY RAJASEKHAR REDDY	14114032	L&T Constrcuton Pvt. Ltd.
RAPETI SHANMUKHA SRINIVAS	14114051	L&T Constrcuton Pvt. Ltd.
RISHABH JAIN	14114056	L&T Constrcuton Pvt. Ltd.
THALLAPELLI RAMCHARAN	14114071	L&T Constrcuton Pvt. Ltd.
U.P. GOVIND	16243011	L&T Constrcuton Pvt. Ltd.
AMAN KUMAR	14114006	Shapoorji Pallonji
BUGATHA GRAHIT	14114012	Shapoorji Pallonji
GAURAV SONAKIYA	14114019	Shapoorji Pallonji
PAYYAVULA BHAVASAGAR	14114043	Capgemini
MANORAMA YADAV	14114035	Vedanta Balco
CHANDIKA LALITHA DEVI	14114013	Infosys
D SHEKHAR RAO	14114014	KEC International
RAKESH BHUSHAN NAYAK	14114048	KEC International
SHIVENDU SINHA	14114065	KEC International
SOUHASI KINTALI	14114067	PRADAN
PANKAJ KUMAR SWARNKAR	14114041	Ircon International
RAHUL SAHU	14114047	Ircon International
TRIPTI MAHESHWARI	14114072	Ircon International
VIVEK KUMAR AGRAWAL	14114078	Ircon International
DINESH KUMAR	14114016	S.K. Samanta & Co.

BHARDWAJ		
MUMMIDI BHAVANI SHANKAR	14114039	S.K. Samanta & Co.

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended
(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr.U.K.Dewangan	Workshop on application of IRC:112 code of practice for concrete road bridges, IBEC	21.11.2017 Raipur

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended
(From 01-04-2017 to 31-03-2018) [International]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Dr.I.Ahmad	Water resource & Environment, Athens, Greece 10 th world congress, Athens, Greece
2.	Dr. S.K. Chouksey	Solid waste, Seoul, South KoriaSeoul, South Koria
3.	Dr. R.K.Tripathi	Bali, IndonesiaBali, Indonesia
4.	Dr. S.V.Deo	Use of RHA increasing parking density & water film thickness , International Conference Energy Environment and Economics (ICEEE2017)	11 Dec.2017, Edinburga, UK
5.	Dr.M.Murmu	Effect of WD and BLA as mineral admixture on workability and strength of concrete. International Conference Energy Environment and Economics (ICEEE2017)	11 Dec.2017, Edinburga, UK
6.	Dr.Manikant Verma	Statistical down scaling of GCM data for seonath	11 Dec.2017, Edinburga, UK

		river basin CG India Effect of WD and BLA as mineral admixture on workability and strength of concrete. International Conference Energy Environment and Economics (ICEEE2017)	
7.	Dr. Alfia Bano	Experimental study on strength and permeability characteristics of pervious concrete pavement materials. International Conference Energy Environment and Economics (ICEEE2017)	11 Dec.2017, Edinburga, UK

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Manish Sakhlecha & Samir Bajpai	A study on need of holistic methodology for assessment of Sustainability and greenness of buildings in India	Indian Journal Science Research, Vol-14 (2), pp-457-463, (2017)	http://.....
2.	Verma, M.K., Verma, M.K., Yadu, L.K. and Murmu Meena	A Study of Climate Change Impact on Precipitation of Sheonath River Basin	Indian Journal of Science and Technology, Vol-10(11), (2017)	DOI: 10.17485/ijst/2017/v10i11/104361,
3	Mishra S R M and Tripathi R K	Prediction of Compressive Strength of Concrete using Electrical Resistivity measurements on cement and fine	Indian Concrete Journal, Vol-91(11), pp 38-44.	

		aggregate replacement		
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Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Tiwari, M.K., Bajpai, S., Dewangan, U.K	Mobility assessment of heavy metals with seasonal variation in an industrial region of Chhattisgarh	Journal of Nature Environment and Pollution Technology, 17(1), pp. 189-194 (2018)	http://.....
2.	Manoj Kumar Tiwari, Dr. Samir Bajpai, Dr. U. K. Dewangan	Investigation of Dominant Leaching Factors for Release of Cr from Indian Fly Ash	Pollution Research, Vol-36 (2) :265-271 (2017)	
3.	Thulasendra, G., Dewangan, U.K	Comparative study of vibration based damage detection methodologies for structural health monitoring	International Journal of Civil Engineering and Technology, Vol-8(7), pp. 846-857, (2017)	
4	N. Anusha*, M.K. Verma, S. Bajpai and M.K. Verma	Performance measures for Ravi Shankar Sagar reservoir using simulation optimization Models	Water Utility Journal, Vol-15: 67-79, (2017)	
5	Thulasendra, G., Dewangan, U.K	Effect of damaged member location on truss displacement performance	International Journal of Civil Engineering and Technology Vol-8(6), pp. 251-261, (2017)	
6	Mandal, R.R., Dewangan U.K	Finite element modeling of beam with eight-noded brick	International Journal of Civil Engineering and	

		element using MATLAB	Technology Vol- 8(5), pp. 646-656, (2017)	
7				
8	Thomas, A., Tripathi, R. K., & Yadu, L. K.	A Laboratory Investigation of Soil Stabilisation using Enzyme and Alkali Activated Ground Granulated Blast Furnace Slag	Arabian Journal of Science and Engg, pp-1-10 (2018)	
9	Mishra S R K and Tri pathi R K	Early age strength and electrical resistivity of concrete as durability indicator through maturity	International Journal of Earth Sciences and Engineering, pp 214-223, (2017)	
10	Manohran A C and Tripathi R	Analysis of Steel Beams with Single Opening at Different Locations	International Journal of Civil Engineering and Technology (IJCIET). Volume-8(5), pp 539-551, (2017)	
11	Shukla A, Tripathi R, Ramtekkar G D	A Survey on Cost and Time management in Highway Construction Projects	International Jour nal of Scientific Development and Research (2017)	
12	Shukla A, Tripathi R, Ramtekkar G D	Risk identification based on Historic Data Analysis and Questionnaire Related to Highway construction Projects	International Jour nal of Scientific Development and Research, (2017)	
13	Rath, B, Deo, S. V. and Ramtekkar, G.	Durable Glass Fiber Reinforced Concrete with Supplementary Cementitious Materials	International Journal of Engineering, Transactions A: Basics Vol-30(7), pp- 964-971, (2017)	
	Yadav, N., Deo, S. V. and Ramtekkar, G	Internally cured glass fiber reinforced sustainable concrete in subtropical climate – A parametric investigation	International Journal of Engineering, (Accepted) (2018)	
14	Yadav, N., Deo, S. V.	Workable and Robust	International	

	and Ramtekkar, G.	Concrete Using High Volume Construction and Demolition Waste in Sub Tropical Climate	Journal of Technology (Accepted), (2018)	
15	Kanthe, V., Deo S. V. and Murmu, M.	Combined use of fly ash and rice husk ash in concrete to improve its properties	International Journal of Engineering (Accepted), (2018)	
16	Kunamineni, V, Murmu, M. and Deo, S. V	Bacteria based self healing concrete – A review	Construction and Building materials, Vol-152, pp-1008–1014, (2017)	
17	Raut, M. and Deo, S. V.	Parametric Study on Production and Utilisation of Fly Ash in India	International journal of earth sciences and engineering, Vol-10(3), pp-558-562 (2017)	DOI:10.21276/ijee.2017.10.0313.
18	I.Ahmad and Verma M.K.	GIS based analytic hierarchy process in determination of suitable site for water storage	Special Issue: "10th World Congress on Water Resources and Environment" (EWRA2017 - Issue IV), European Water, pp 139-146. (2017)	
19	Sahu, Alka, Triambak Baghel, Manish Kumar Sinha, Ishtiyag Ahmad, and Mukesh Kumar Verma	Soil Erosion Modeling using Rusle and GIS on Dudhawa Catchment	International Journal of Applied Environmental Sciences Vol-12(6), pp-1147-1158, (2017).	
20	Kunamineni, V, Murmu, M.	Effect of calcium lactate on compressive strength and self-healing of cracks in microbial concrete	Frontieries of civil and structural engineering, Accepted (2018)	
21	Jaiswal, M., & Ramtekkar, Gangadhar	Modeling of carbon fiber reinforced polymer (cfrp) strengthened	International Journal of Civil Engineering and Technology. Vol-	

		reinforced concrete (RC) beams: Effect of beam size and cfrp thickness.	8, pp-507-516, (2017)	
22	Jaiswal, M., & Ramtekkar, G.	Experimental Study of Reinforced Concrete (RC) Beams Strengthened by Carbon Fiber Reinforced Polymer (CFRP): Effect of Beam Size and Length of CFRP	International Journal of Applied Engineering Research, Vol-12(24), pp-14075-14081.	

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Improving soft sub-grade for the construction of low volume roads using locally available marginal materials	2012	Chhattisgarh Council of Science & Technology Raipur	2,00,000/-	Dr. R.K. Tripathi (PI) Prof. L.K. Yadu (Co-PI)
3	Construction of Low Volume Roads on Soft Subgrade Soil	Feb 2014	Human Settlement Management Institute, HUDCO, New	25,00,000/-	Dr. R.K. Tripathi (PI) Prof. Laxmikant Yadu (Co- PI)
5	Design and Validation of existing bike based patient carrier transport system for remote areas of Chhattisgarh and proposing design of bike-trailer assembly	2015	United Nations Children's Fund	Rs.10.00Lakh	Dr. S Bhowmic(PI) Dr. Govardhan(Co.PI)
4	Performance evaluation of some selected PMGSY roads in the state of Chhattisgarh	2015	NRRDA, New Delhi, MORD, GOI	Rs.41.89lakh	Dr. R.K. Tripathi (PI) Prof. Laxmikant Yadu (Co- PI) Prof. S.Deol G.(Co.PI)

5	Parametric Study of Eco-friendly Concrete/Composite by Partial Replacement of Sand and Cement with Locally Available Industrial By-products.	2015	CGCOST	Rs.4.02lakh	Dr. GD Ramtekker(PI) Dr. S.V.Deo(Co.PI)
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. Dilip Singh Sisodia	Assistant Professor & Head	PhD
2.	Dr. Naresh Kumar Nagwani	Assistant Professor	PhD
3.	Dr. Pradeep Singh	Assistant Professor	PhD
4.	Dr. Manu Vardhan	Assistant Professor	PhD
5.	Dr. (Mrs.) Aakanksha Sharaff	Assistant Professor	PhD
6.	Ms. Veena Anand	Assistant Professor	PhD
7.	Dr. Sarsij Tripathi	Assistant Professor (On Contract)	PhD

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Naresh Kumar Nagwani	Mrs. Aakanksha Sharaff	On Developing Classification and Thread Identification Models for Email and SMS Datasets
2.	Dr. Naresh Kumar Nagwani	Mr. Tirath Prasad Sahu	Predicting Best Answers and Identification of Topical Authority in Community Q&A Sites using Classification Algorithms

3.	Dr. Naresh Kumar Nagwani	Mrs. Mridu Sahu	Novel Data Mining Based Channel Selection Scheme for Classification of EEG Data
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M.Tech Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Dilip Singh Sisodia	Ms. Upasana Sahu(Roll No.- 15265019)	Study and Performance Evaluation of Data Sampling Techniques on Class Imbalance Problem
2.	Dr. Naresh Kumar Nagwani & Dr. Sarsij Tripathi	Kalpak Adinath Patil	Utilizing Clustering Techniques for Improving the Boxplot Presentation
3.	Dr. Pradeep Singh and Dr. Dilip Singh Sisodia	Mr. Meetesh Nevendra	Supervised Machine learning approached for software fault prediction
4.	Dr. Dilip Singh Sisodia and Dr. Pradeep Singh	Ms.Arti Anuragi	Investigation of machine learning approaches for alcoholism detection using EEG signals and various wavelet transforms.
5.	Dr. Manu Vardhan	Mr. Pinkesh Narad	Analysis of User Behaviour Based on Tweets
6.	Dr. Manu Vardhan	Ms. Radhika Dhokane	Data Encryption in Cloud Computing and its Applications
7.	Dr. Manu Vardhan	Mr. Jayant Sisodia	Workflow Scheduling under Cloud Computing Environment

Achievement of outgoing students (PG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Kalpak Adinath Patil (16265010)	Trainee – Software Engineer, Keste Software Private Limited.
2.	Abhishek Kumar Singh (14315001)	Lead Data Scientist, 3K Technologies

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	GEDAM PALLAVI NANDKISHOR (13115025)	Cognite Intellectual Services
2.	NISHANT SAHNI (13115049)	Reliance Jio Infocomm
3.	SAMUEL ROBIN ROY (13115064)	CA Technologies (Associate Software Engineer)
4.	ABHIK SARKAR (14115001)	Deloitte Consulting (Business Technology Analyst)
5.	ADDALA SRUJICA (14115002)	Intellect Design Arena
6.	ADITYA SIVA PADALA (14115003)	3DPLM SOFTWARE
7.	AISHWARY TEMBHRE (14115004)	Infosys
8.	ALLA TARUN SANKAR (14115007)	Intellect Design Arena
9.	AMIT KUMAR SINGH (14115008)	Intellect Design Arena
10.	AMITESH GUPTA (14115009)	Wipro Limited
11.	ANNABATTHULA BRAHMANI SAI (14115010)	Capgemini
12.	ANSHUL VERMA (14115011)	InfoEdge India Ltd. (Software Engineer)
13.	ANTARA KALE (14115012)	Capgemini
14.	ANURAG THAKUR (14115016)	Intellect Design Arena
15.	ANUSHREE GHOSH (14115017)	Oracle India Pvt. Ltd. (Applications Engineer)

16.	APPIKATLA SUJITH KUMAR (14115018)	Samsung R&D (Delhi)
17.	ASMA SONI (14115019)	Wipro Limited
18.	AYUSHI PRIYADARSHI (14115021)	Capgemini
19.	BATHINA SUJITH SRINIVAS (14115022)	Mu-Sigma (Trainee Decision Scientist)
20.	BURRA SUMANJALI (14115024)	Oracle Financial Serices (Consultant / Developer)
21.	DHARMASALA YAMINI (14115028)	Samsung R&D (Delhi)
22.	DONEPATHI MANOJ DEVAN (14115030)	3DPLM SOFTWARE
23.	G J S M MAHESWARI (14115031)	Keste Software India Pvt. Ltd.
24.	GUDIPOODI AKHIL KUMAR (14115034)	Mu-Sigma (Trainee Decision Scientist)
25.	HARI GOVID SHRAWGI (14115035)	CA Technologies (Associate Software Engineer)
26.	HARSHDEEP KAUR (14115037)	UnitedHealth Group (Software Engineer)
27.	HARSHIL GUPTA (14115038)	Yodlee Infotech
28.	HEMANTI PEGU (14115039)	Capgemini
29.	INAKOLLU NEHA PRIYANKA (14115041)	Oracle India Pvt. Ltd. (Applications Engineer)
30.	KAPPETA SREENIVASA REDDY (14115042)	Reliance Jio Infocomm
31.	KARNATI RISHIKESH REDDY (14115043)	UnitedHealth Group
32.	KASTALA BHANODAY SAI (14115044)	Wipro Limited
33.	KAVETI ANIRUDH REDDY (14115046)	Capgemini
34.	KOMATIREDDY SOWMYA LAHARI (14115047)	PRADAN
35.	LAKSHMI PRIYA KOLI (14115048)	Mu-Sigma (Trainee Decision Scientist)
36.	LEESA INHE (14115049)	Wipro Limited
37.	MAMATHA JULURU (14115050)	Capgemini
38.	MARIDI TEJA (14115051)	Cognizant

39.	MAYANK SINGHAL (14115052)	Deloitte Consulting
40.	MEENAKSHI CHOUDHARY (14115053)	Samsung R&D (Delhi)
41.	MEGHAL AGRAWAL (14115054)	Oracle Financial Serices (Consultant / Developer)
42.	M. VENKATA SAI GEETHIKA (14115055)	Mu-Sigma (Trainee Decision Scientist)
43.	MD. MUDASSIR MOHIUDDIN (14115056)	3DPLM SOFTWARE
44.	MOHIT JAIN (14115057)	CA Technologies (Associate Software Engineer)
45.	MOHIT LAHERI (14115058)	UnitedHealth Group
46.	N NAVEENA (14115060)	Deloitte Consulting
47.	NENAVATH POOJA (14115062)	Reliance Jio Infocomm
48.	P SAI KIRAN (14115063)	3DPLM SOFTWARE
49.	PANDEY JAY SUNIL (14115065)	Mu-Sigma (Trainee Decision Scientist)
50.	PATTA DURGARAJU (14115066)	Intellect Design Arena
51.	PRATYUSH BRAHMA (14115070)	Samsung R&D (Delhi)
52.	PRERANA AGRAWAL (14115071)	UnitedHealth Group (Software Engineer)
53.	PRODDUTURI AMULYA (14115072)	Wipro Limited
54.	RAHUL BAGHEL (14115073)	Samsung R&D (Noida)
55.	RAJI GUPTA (14115074)	Deloitte Consulting
56.	RALLABANDI RAVITEJA (14115075)	CapitalAim Financial Advisory
57.	RISHI RAI (14115076)	CA Technologies (Associate Software Engineer)
58.	SAURABH SHRIVAS (14115078)	Oracle India Pvt. Ltd. (Applications Engineer)
59.	SAURABH SHRIVASTAVA (14115079)	Itron
60.	S. BHASKAR PRAVEEN (14115080)	Mu-Sigma (Trainee Decision Scientist)
61.	SEERAM MOUNIKA (14115081)	Wipro Limited

62.	SHRIYA THAWAIT (14115083)	Capgemini
63.	SHUBHAM AGRAWAL (14115084)	CA Technologies (Associate Software Engineer)
64.	SHUBHAM GUPTA (14115085)	Reliance Jio Infocomm
65.	SOMENDRA PATEL (14115087)	Power2SME (Jr. Software Engineer)
66.	TAGGI KISHORE (14115089)	Wipro Limited
67.	VARSHA RANI (14115090)	Intellect Design Arena
68.	VIMAL KUMAR DWIVEDI (14115091)	Intellect Design Arena
69.	VINITA NIRMAL (14115092)	InfoEdge India Ltd. (Software Engineer)
70.	VIVEK AWASTHI (14115093)	Samsung R&D (Delhi) (Software Engineer)
71.	YARLAGADDA PRAVEEN KUMAR (14115094)	Deloitte Consulting
72.	AISHWARYA SRIVASTAVA (14115901)	UnitedHealth Group (Software Engineer)
73.	EKTA AGRAWAL (14115902)	Oracle Financial Serices (Consultant / Developer)
74.	RITIK KUMAR VERMA (14115903)	UnitedHealth Group (Software Engineer)
75.	VIPUL BAJAJ (14115904)	UnitedHealth Group (Software Engineer)

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended
(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr. Veena Anand Session Chair	SCITSE-2017 Department of Computer Science & Engineering, NIT Raipur	25th Nov 2017
2.	Dr. Veena Anand Session Chair	RAC2B-2017 Department of Computer Science & Engineering, NIT Raipur	9th Dec 2017
3.	Dr. Dilip Singh Sisodia Special Lecture Delivered	STTP on Deep Learning Techniques and its Applications	28-09-17 to 2-10 2017, NIT Raipur

4.	Dr. Naresh Kumar Nagwani Special Lecture Delivered	STTP on Machine Learning Tools And Techniques (MLTT)	10.11.2017 to 14.11.2017 NIT Raipur
5.	Dr. Pradeep Singh Special Lecture Delivered	STTP on Machine Learning Tools And Techniques (MLTT)	10.11.2017 to 14.11.2017 NIT Raipur
6.	Dr. Sarsij Tripathi Special Lecture Delivered	STTP on Deep Learning Techniques and its Applications	28-09-17 to 2-10 2017, NIT Raipur
7.	Dr. Naresh Kumar Nagwani Special Lecture Delivered	STTP on Deep Learning Techniques and its Applications	28-09-17 to 2-10 2017, NIT Raipur

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended
(From 01-04-2017 to 31-03-2018) [International]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Deepti Sisodia and Dilip Singh Sisodia	Prediction of Diabetes using Classification Algorithms. In International Conference on Computational Intelligence and Data Science (ICCIDS 2018)	7-8th April, 2018. The NorthCap University, Gurugram
2.	Dilip Singh Sisodia et al.	Performance Evaluation of Large Data Clustering Techniques on Web Robot Session Data. In International Conference on Machine Intelligence and Signal Processing (MISP-2017)	December 22-24, 2017 Indian Institute of Technology Indore. Indore, India
3.	Dilip Singh Sisodia et al.	Agglomerative Similarity Measure based Automated Clustering of Scholarly Articles. In International Conference on Machine Intelligence and Signal Processing (MISP-2017)	December 22-24, 2017 Indian Institute of Technology Indore. Indore, India
4.	Dilip Singh Sisodia et al.	A Comparative Performance of Classification Algorithms in Predicting Alcohol	December 22-24, 2017 Indian Institute of Technology Indore.

		Consumption among Secondary School Students. In International Conference on Machine Intelligence and Signal Processing (MISP-2017)	Indore, India
5.	Dilip Singh Sisodia et al.	An Empirical Investigation of Discretization Techniques on the Classification of Protein-Protein Interaction. In International Conference on Machine Intelligence and Signal Processing (MISP-2017)	December 22-24, 2017 Indian Institute of Technology Indore. Indore, India
6.	Dilip Singh Sisodia, Pradeep Singh et al.	An Empirical Analysis of Instance-based Transfer Learning Approach on Protease Substrate Cleavage Sites Prediction. In International Conference on Machine Intelligence and Signal Processing (MISP-2017)	December 22-24, 2017 Indian Institute of Technology Indore. Indore, India
7.	Dilip Singh Sisodia, Nerella Keerthana Reddy, Shivangi Bhandari, and Abinash Pujahari	A Comparative Performance of Learners for Sentiment Analysis of Movie Viewers using Open Reviews. In International Conference on Recent Advances and Applications in Computer Engineering, (RAACE-2017)	November 23-25, 2017. Jaipur, Rajasthan, India
8.	Dilip Singh Sisodia, Saragadam Nikhil, Gundu Sai Kiran, Hari Shrawgi	Performance Evaluation of Learners for Analyzing the Hotel Customer Sentiments Based on Text Reviews. In International Conference on Recent Advances and Applications in Computer Engineering, (RAACE-2017)	November 23-25, 2017. Jaipur, Rajasthan, India
9.	Dilip Singh Sisodia, Kunal Sachdeva, Arati Anuragi	Sleep Order Detection Model using Support Vector Machines and Features Extracted from Brain ECG	November 23-24, 2017 Coimbatore, Tamil Nadu, India.

		Signals". In IEEE International Conference on Inventive Computing and Informatics (ICICI)	
10.	Dilip Singh Sisodia, Somdutta Vishwakarma, Abinash Pujahari	Evaluation of Machine Learning Models for Employee Churn Prediction". In IEEE International Conference on Inventive Computing and Informatics (ICICI)	November 23-24, 2017 Coimbatore, Tamil Nadu, India.
11.	Arati Anuragi, Dilip Singh Sisodia	Alcoholism Detection using Support Vector Machines and Centered Correntropy features of Brain EEG Signals ". In IEEE International Conference on Inventive Computing and Informatics (ICICI)	November 23-24, 2017 Coimbatore, Tamil Nadu, India.
12.	Dilip Singh Sisodia, Akanksha Verma	Prediction Performance of Individual and Ensemble learners for Chronic Kidney Disease". In IEEE International Conference on Inventive Computing and Informatics (ICICI)	November 23-24, 2017 Coimbatore, Tamil Nadu, India.
13.	Dilip Singh Sisodia, Ankit Shukla	Investigation of Feature Selection Techniques on Performance of Automatic Text Categorization". In 1 st International Conference on Data, Engineering and Applications 2017 (IDEA-2k17)	October 28-29, 2017 Bhopal, Madhya Pradesh, India.
14.	Dilip Singh Sisodia, Ankit Kumar Yogi	Performance Evaluation of Ensemble Learner on Smart Phone Sensor Generated Human Activity Data Set". In 1 st International Conference on Data, Engineering and Applications 2017 (IDEA-2k17)	October 28-29, 2017 Bhopal, Madhya Pradesh, India
15.	Dilip Singh Sisodia Tummala Vandana and Manjula	A Conglomerate Technique for Finger Print Recognition	September 21-22, 2017. Chennai, Tamil

	Choudhary	Using Phone Camera Captured images". In IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)	Nadu, India.
16.	Dilip Singh Sisodia Nerella Keerthana Reddy and Shivangi Bhandari	Performance Evaluation of Class Balancing Techniques for Credit Card Fraud Detection". In IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)	September 21-22, 2017. Chennai, Tamil Nadu, India
17.	Dilip Singh Sisodia and N. Ritvika Reddy	Sentiment Analysis of Prospective Buyers of Mega Online Sale Using Tweets". In IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)	September 21-22, 2017. Chennai, Tamil Nadu, India.
18.	Singh P, Vardhan M, Shukla A K	Predicting Alcohol Consumption Behaviours of the Secondary Level Students	Malaviya National Institute of Technology (MNIT), Jaipur 3rd International Conference on Internet of Things & Connected Technologies (ICIOTCT 2018) to be held on March 26-27, 2018.
19.	Pradeep Singh	Sentiment Analysis Using Tuned Ensemble Machine Learning Approach	International Conference on Data and Information Sciences (ICDIS-2017) 3-4th November 2017 Indira Gandhi National Tribal

			University, Amarkantak, M.P
20.	Singh P, Vardhan M, Shukla A K	DNA Gene Expression Analysis on Diffuse Large B-Cell Lymphoma (DLBCL) Based on Filter Selection Method with Supervised Classification Method	11-12 Nov 2017 VSSUT Burla
21.	Pradeep Singh	Automated Tool for Extraction of Software Fault Data	International Conference on Data and Information Sciences (ICDIS- 2017) 3-4th November 2017 Indira Gandhi National Tribal University, Amarkantak, M.P., India
22.	Pradeep Singh	Sentiment Analysis Using Tuned Ensemble Machine Learning Approach	International Conference on Data and Information Sciences (ICDIS- 2017) 3-4th November 2017 Indira Gandhi National Tribal University, Amarkantak, M.P., India
23.	Singh P, Vardhan M, Shukla A K	An Empirical Study on Multi-Objective Swarm Algorithm for Standard Multi-Objective Benchmark Problems	Malaviya National Institute of Technology (MNIT), Jaipur 3rd International Conference on Internet of Things & Connected

			Technologies (ICIOTCT 2018) to be held on March 26-27, 2018.
24.	Pradeep Singh	Demonetization: Sentiment and Retweet Analysis	International Conference on Inventive Computing and Informatics (ICICI) November 23, 24 – 2017 Coimbatore, India
25.	Pradeep Singh	Knowledge transfer software fault learning	International Conference on Inventive Computing and Informatics (ICICI) November 23, 24 – 2017 Coimbatore, India
26.	Singh P, Vardhan M, Shukla A K	A novel filter approach for efficient selection and small round blue-cell tumor cancer detection using microarray gene expression data	International Conference on Inventive Computing and Informatics (ICICI) November 23, 24 – 2017 Coimbatore, India
27.	Pradeep Singh	Comprehensive model for software fault prediction	International Conference on Inventive Computing and Informatics (ICICI) November 23, 24 – 2017 Coimbatore, India
28.	Pradeep Singh	Survey of density based clustering algorithms and its variants	International Conference on Inventive Computing and Informatics (ICICI) November 23, 24 – 2017 Coimbatore, India

29.	Singh P, Vardhan M, Shukla A K	Hybrid approach for gene selection and classification using filter and genetic algorithm	International Conference on Inventive Computing and Informatics (ICICI) November 23, 24 – 2017 Coimbatore, India
30.	Pradeep Singh	Intelligent approaches for prognosticating post-operative life expectancy in the lung cancer patients	International Conference on Inventive Computing and Informatics (ICICI) November 23, 24 – 2017 Coimbatore, India
31.	Pradeep Singh	Comparative study of individual and ensemble methods of classification for credit scoring	International Conference on Inventive Computing and Informatics (ICICI) November 23, 24 – 2017 Coimbatore, India
32.	P Kumar, M Vardhan	Aspect-Based Sentiment Analysis of Tweets Using Independent Component Analysis (ICA) and Probabilistic Latent Semantic Analysis (pLSA)	Amarkantak, November 2017
33.	Veena Anand, Sudhakar Pandey, Valiveru sai sravya, et al.	Energy Efficient Priority Based Clustering for Wireless Sensor Networks	11-13 Dec2017 Heriot-Watt University, Edinburgh, UK
34.	Prerana Agrawal, Veena Anand, Sudhakar Pandey et al.	A Solution for Successful Routing in Low-Mid Density Network using Updated	5-6 May 2018 Delhi, India & Springer

		Azimuthal Protocol	
35.	Sharaff A. and NagwaniN..	Identifying Categorical Terms based on Latent Dirichlet Allocation	International Conference on Emerging Technologies in Data Mining and Information Security, 2018(Scopus Indexed)
36.	Sharaff A.	Spam Detection in SMS based on Feature Selection Techniques	International Conference on Emerging Technologies in Data Mining and Information Security, 2018(Scopus Indexed)
37.	Sharaff A. and Soni A.	Analyzing Sentiments of Product Reviews based on Features	International Conference on Trends in Electronics and Informatics (ICOEI 2018) (Scopus Indexed)
38.	Sharaff A. and Roy S.	Comparative Analysis of Temperature Prediction Using Regression Methods and Back Propagation Neural Network	International Conference on Trends in Electronics and Informatics (ICOEI 2018) (Scopus Indexed)
39.	Sharaff A. and Choudhary M.	Comparative Analysis of Various Stock Prediction Techniques	International Conference on Trends in Electronics and Informatics (ICOEI 2018) (Scopus Indexed)

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	Machine learning Tools and Technique	P Singh, N K Nagwani		10.11.2017 to 14.11.2017	Self Financed
2.	National Conference on Recent Advancement in Computing, Communication and Bioinformatics (RAC2B)	D S Sisodia, P Singh, N K Nagwani	Prof. N. S. Chaudhari, Prof. P K Sinha	09.12.2017	TEQIP
3.	Deep Learning Techniques and its Applications	D. S. Sisodia, Sarsij Tripathi, Veena Anand		28th September to 2nd October 2017	TEQIP
4.	Big Data Processing using Hadoop: Implementation, Usage and Applications	P. Singh and D. S. Sisodia		9th December-13th December 2017	Self Financed
5.	National Conference on Soft Computing and Intelligent Techniques in Science and Engineering (SCITSE)	P Singh and D S Sisodia	Prof. R B Pachori	25 November 2017	TEQIP
6.	One day workshop A Foundation program on data science” using Statistica.	Dilip Singh Sisodia and Sarsij tripathi	Mr. Sujeet Mishra (Data Scientist) Ms. Sucharita Bhur (Statistician)	12th October 2017	Self Financed
7.	One day workshop on Artificial Intelligence	Dilip Singh Sisodia and Sarsij Tripathi	Mr. Mahalingam Jayaraman, Mr. Pranav Nair	14th September 2017	Self Financed

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No., Year	DOI/Web link
1.	Dilip Singh Sisodia	A Subtractive Medoids Selection Based Fuzzy Relational Clustering of Augmented Web User Sessions	Journal of Intelligent & Fuzzy Systems (ISSN: 1875-8967), 33(4), pp. 2259-2268, 2017.	http://dx.doi.org/10.3233/JIFS-17122 .
2.	Dilip Singh Sisodia, Riya Singhal, and Vijay Khandal	Fast Prediction of Web User Browsing Behaviours Using Most Interesting Patterns	<i>Journal of Information Science</i> (ISSN: 1741-6485), 44(1) pp. 74-90, 2018	http://dx.doi.org/10.1177/0165551516673293
3.	Dilip Singh Sisodia, Riya Singhal, and Vijay Khandal	Comparative Performance of Interestingness Measures To Find Redundant and Non-Informative Rules From Web Usage Data	International Journal of Technology (ISSN: 2086-9614), 9(1), 2018, pp. 201-211	https://doi.org/10.14716/ijtech.v9i1.1510
4.	Dilip Singh Sisodia	Augmented Session Similarity Based Framework for Measuring Web User Concern from Web Server Logs	<i>International Journal on Advanced Science, Engineering and Information Technology</i> (ISSN: 2088-5334), 7(3), pp. 1007-	http://dx.doi.org/10.18517/ijaseit.7.3.1563

			1013, 2017	
5.	Dilip Singh Sisodia, Shrish Verma, Om Prakash Vyas	A Subtractive Relational Fuzzy C-Medoids Clustering Approach To Cluster Web User Sessions from Web Server Logs	<i>International Journal of Applied Engineering and Research</i> (ISSN 0973-4562), 12(7), 2017, pp 1142-1150	
6.	Dilip Singh Sisodia, Sagar Jadhav	Evaluation of Mutual Influence and Correlation Performance between Global Stock Indices Using Unsupervised Learning	International Journal of Applied Business and Economic Research (ISSN: 0972-7302), Vol. 15(19), 2017, pp.125-137	
7.	Dilip Singh Sisodia, Riya Singhal , and Vijay Khandal	A Comprehensive Comparative Performance of Different Mobile Ad-Hoc Network Routing Protocols with Increasing Node Instances	Far East Journal of Electronics and Communications (ISSN: 0973-7006), 17(5), 2017, pp. 1047-1064	http://dx.doi.org/10.17654/EC017051047
8.	Dilip Singh Sisodia, Nair, Shrutii, Khobragade, Pooja	Diabetic Retinal Fundus Images: Pre-processing and Feature Extraction for Early Detection of Diabetic Retinopathy	Biomedical and Pharmacology Journal (ISSN: 0974-6242), 10(2), pp. 615-624, 2017	http://dx.doi.org/10.13005/bpj/148
9.	Dilip Singh Sisodia, Riya Singhal , and Vijay Khandal	A Performance Review of Intra and Inter-Group MANET Routing Protocols under Varying Speed of Nodes	International Journal of Electrical and Computer Engineering (ISSN: 2088-8708), 7(5),pp. , pp. 2721-2730, 2017	http://dx.doi.org/10.11591/ijece.v7i5.pp2721-2730

10.	Singh, Deepak, Pradeep Singh, and Dilip Singh Sisodia	Evolutionary based optimal ensemble classifiers for HIV-1 protease cleavage sites prediction	Expert Systems with Applications (2018)	https://doi.org/10.1016/j.eswa.2018.05.003
11.	A K Singh, N K Nagwani, S Pandey	RANKuser: A folksonomy and user profile based algorithm to identify experts in Community Question Answering sites	Data Technologies and Applications, 2018	https://doi.org/10.1108/DTA-10-2017-0080
12.	S Mohdiwale, T P Sahu, R K Chaurasia, N K Nagwani, S Verma	Detection and Classification of Noise Using Bark Domain Features	ICCBN 2018, Singapore	https://doi.org/10.1145/3193092.3193098
13.	M Sahu, N K Nagwani, S Verma	Optimal Channel Selection on Electroencephalography (EEG) Device Data Using Feature Re-Ranking and Rough Set Theory on Eye State Classification Problem	Journal of Medical Imaging and Health Informatics, Volume 8, Number 2, 2018	https://doi.org/10.1166/jmihi.2018.2284
14.	S Mohdiwale, T P Sahu, R K Chaurasia, N K Nagwani, S Verma	Abnormal activity detection in forest reserve using cumulative short time fourier transform features	2017 International Conference on Intelligent Sustainable Systems (ICISS)	10.1109/ISS1.2017.8389259
15.	A K Singh, N K Nagwani, S Pandey	TAGme: A Topical Folksonomy Based Collaborative Filtering for Tag Recommendation in Community Sites	4th Multidisciplinary International Social Networks Conference	10.1145/3092090.3092095
16.	N K Nagwani	A Bi-Level Text	The	

		Classification Approach for SMS Spam Filtering and Identifying Priority Messages	International Arab Journal of Information Technology, Vol. 14, No. 4, July 2017	
17.	Alok Kumar Shukla, Pradeep Singh, and Manu Vardhan	Neighbour teaching learning based optimization for global optimization problems	Journal of Intelligent & Fuzzy Systems 34 (3), 1583-1594	https://content.iopress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs169453
18.	Alok Kumar Shukla, Pradeep Singh, and Manu Vardhan	A new hybrid gene selection algorithm for gene expression data classification	Interdisciplinary Sciences: Computational Life Sciences, SCI, Springer (Accepted)	
19.	M Kumar, M Vardhan	Privacy Preserving and Efficient Outsourcing Algorithm to Public Cloud: A Case of Statistical Analysis	International Journal of Information Security and Privacy (IJISP) 12 (2), 1-25	10.4018/IJISP.2018040101
20.	M Kumar, M Vardhan	Data confidentiality and integrity preserving outsourcing algorithm for matrix chain multiplication over malicious cloud server	Journal of Intelligent & Fuzzy Systems 34 (3), 1251-1263	10.3233/JIFS-169422
21.	Kumar, M., Vardhan, M.	A comprehensive survey on security and privacy issues of publicly delegable algorithms	International Journal of Pure and Applied Mathematics	ISSN:1311-8080 E-ISSN:1314-3395

			118(Special Issue 9), pp. 33-44	
22.	Veena Anand, and Sudhakar Pandey.	Particle Swarm Optimization and harmony search based clustering and routing in Wireless Sensor Networks.	International Journal Of Computational Intelligence Systems10.1 (2017): 1252-1262.	doi:10.2991/ijcis.10.1.84
23.	Vinay S. Yadav, Sarsij Tripathi and A.R.Singh,	“Exploring omnichannel and network design in omni environment”, Volume 4, - Issue 1 2017.(ESCI, Scopus.)	Journal of Cogent Engineering	https://doi.org/10.1080/23311916.2017.1382026
24.	Anurag Shukla and Sarsij Tripathi	“A Survey on Next generation Computing IoT Issues and Challenges”, Volume 118 No. 9 2018, pp: 45-64, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version). (Scopus)	International Journal of Pure and Applied Mathematics	https://acadpubl.eu/jsi/2018-118-7-9/articles/9/6.pdf
25.	Anurag Shukla and Sarsij Tripathi	“An optimal relay node selection technique to support green internet of Things”, Preprint, 1-14, 2018. (SCI-E, Scopus)	Journal of Intelligent & Fuzzy Systems	https://doi.org/10.3233/JIFS-169674
26.	Anurag Shukla and Sarsij Tripathi	“A matrix based Pair –Wise Key establishment for	International Journal of Information	Accepted

		Secure and Energy Efficient WSN-Assisted IoT”, 2018, Accepted. (ESCI, Scopus)	Security and Privacy	
27.	Ankit Agrawal & Sarsij Tripathi	"Euclidean Distance based Particle Swarm Optimization”, 2017. (Scopus) .	5th ICACNI 2017, Volume 3, NIT Goa, June 2017.(will be included as book chapter In Recent Findings in Intelligent Computing Techniques: Published by Springer eBook ISBN 978-981-10-8633-5)	
28.	Ankit Agrawal & Sarsij Tripathi	“Particle Swarm Optimization with Probalistic Inertia Weight”, 2018. (Scopus)	4th International Conference on Harmony Search, Soft Computing and Applications(I CHSA 2018) 7-9 February 2018, BML Munjal University(wil l be published in AISC Springer series as a Book Chapter)	

29.	Prerana Agrawal, Veena Anand, Sudhakar Pandey, Sarsij Tripathi and Siddhant Kumar	“A Solution for Successful Routing in Low-Mid Density Network using Updated Azimuthal Protocol”, 2018.	Proceedings of International Conference on Innovative Computing and Communication on ICICC-2018, 5-6 th May 2018	
30.	Kalpak Patil, Naresh K. Nagwani and Sarsij Tripathi	Utilizing Clustering Techniques for Improving the Boxplots”, 2018.	1 st International Conference on Communication, Networks & Computing (CNC – 2018) 22 – 24 March 2018. Proceedings in Springer	
31.	Anurag Shukla and Sarsij Tripathi	“Security Challenges and Issues of Internet of Things: Possible Solutions”, 2018. (Scopus)	Proceedings of 3rd International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2018 held at Malaviya National Institute of Technology, Jaipur (India) on March 26-27, 2018	http://dx.doi.org/10.2139/ssrn.3166735

32.	Veena Anand. and Sudhakar Pandey	Load-Balanced Clustering Scheme with Sink Mobility for Heterogeneous Wireless Sensor Networks	National Academy Science Letters 40.5 (2017): 335-341.	https://doi.org/10.1007/s40009-017-0590-1
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Books, monograms, chapter's authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1.	Dr. Dilip Singh Sisodia	Machine Learning Models for Forecasting of Individual Stocks Price Patterns	IGI GLOBAL	Sagar Jadhav
2.	Dr. Dilip Singh Sisodia	A Relative Performance of Dissimilarity Measures for Matching Relational Web Access Patterns between User Sessions	IGI GLOBAL	NA
3.	Dr. Dilip Singh Sisodia	Web Access Patterns of Actual Human Visitors and Web Robots: A Correlated Examination.	IGI GLOBAL	NA
4.	Manu Vardhan	Data Confidentiality and Integrity Preserving Outsourcing Algorithm for System of Linear Equation to a Malicious Cloud Server Book Title: Big Data Management and the Internet of Things for Improved Health Systems	IGI GLOBAL	Malay Kumar, Manu Vardhan

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Predictive and Visual Analysis of the Price Distribution Information of Rice and Wheat across India	2013- Ongoing	CGCOST Raipur	4.50 Lacs	N K Nagwani, S Verma, K Verma
2.	Development of Framework for web Based Intelligent Dictionary for Learning Chhattisgarhi Language	2015- Ongoing	CGCOST Raipur	4.00 Lacs	S Pandey, N K Nagwani, P Mishra
3.	Development Of a Comprehensive Model for Software Fault Prediction	2013	CCOST	5	Pradeep Singh, Shrish Verma
4.	Modelling of autonomous software agents' behaviour to defend HTTP request attacks.	2015	CCOST	4.90 Lacs	Dr. Dilip Singh Sisodia

Awards/Any Other Achievements (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Details of the Award/Achievement	Date
1.	Pradeep Singh	Best Paper Award in International Conference on Inventive Computing and Informatics (ICICI),	November 23- 24, 2017 Coimbatore, India
2.	Aakanksha Sharaff	Young Women in Engineering	03.3.2018
3.	Dr.Veena Anand	Best papers for ICICC-2018	5-6 May 2018

Socially relevant activities

Sr. No.	Name of Faculty Member(s)	Activity		
1.	Pradeep Singh	Middle School Inspection And Help In Quality Improvement Under Dr. A.P.J.Abdul Kalam Education Quality Assessment And Improvement Campaign		
2.	Dr. Manu Vardhan	Sports Fest-SAMAR 2018		

DEPARTMENT OF ELECTRICAL ENGINEERING

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. Mrs. S. Gupta	Professor	PhD
2.	MR. P. D. Dewangan	Associate Professor	MTech
3.	Dr. Mrs. A. Yadav	Assistant Professor	PhD
4.	Dr. N. D. Londhe	Assistant Professor	PhD
5.	Dr. S. Ghosh	Assistant Professor	PhD
7.	Dr. Mrs. Ebha Koley	Assistant Professor	PhD
8.	Dr. S. Patnaik	Assistant Professor	PhD
9.	Dr. B. Shaw	Assistant Professor	PhD
10.	Dr. Mrs. V. Shingh	Assistant Professor	PhD
11.	Dr. Mrs. M. Biswal	Assistant Professor	PhD
12.	Dr. V.P. Singh	Assistant Professor	PhD
13.	Dr. L.K. Sahu	Assistant Professor	PhD
14.	Dr. K. Chandrasekharan	Assistant Professor	PhD

15.	Miss. L. Agrawal	Temp. Faculty	MTech
16.	Mr. G. Vishwakarma	Temp. Faculty	MTech
17.	Mr. A. Pandey	Temp. Faculty	MTech
18.	Mr. A. Mishra	Temp. Faculty	MTech
19.	Mr. K.D. Singh	Temp. Faculty	MTech
20.	Mr. T.P. Meher	Temp. Faculty	MTech
21.	Miss. P. Chandrakar	Temp. Faculty	MTech

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr.(Mrs) Shubhrata Gupta	Shivam Prakesh Gautam	Design and investigation on single phase cascaded MLI topologies.
2.	Dr.(Mrs) Shubhrata Gupta	Mithilesh Singh	Power Quality Improvement In Power System With FACTS Devices Using Soft Computing Technique.
3.	Dr.(Mrs) Shubhrata Gupta	Vaishali	Traffic Flow Prediction For Moving Object Trajectories.
4.	Dr.(Mrs) Shubhrata Gupta	Varsha singh	Design and analysis of single phase MLI for reduced THD Using Soft Computing Technique.
5.	Dr.(Mrs) Shubhrata Gupta	T. V. Dixit	Real Time Investigation On Performance Enhancement Of Power Conditioning Units For Photovoltaic And Fuel Cell.

6.	Dr. Mrs. A. Yadav	Mr. T.V. Dixit	Real time investigation on performance enhancement of power conditioning units for photovoltaic and fuel cell
7.	Dr. Narendra D. Londhe	Mr.Satya Praksh Sahu	Computer Aided Diagnosis System for Early Lung Cancer Detection in Computed Tomography Images
8.	Dr. S. Patnaik	Varsha Singh	design and analysis of single phase multilevel inverter for reduced thd using soft computing techniques
9.	Dr. Binod Shaw & Dr. Vivekananda Mukherjee	Mr. Shubhasish Bhakta	Techno-Economic Analysis And Optimum Sizing Of Renewable Energy Hybrid Power System

M.Tech Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr.(Mrs) Shubhrata Gupta	Tukesh Kumar Sahu	NN Control For PQ Enhancement Using DVR.
2.	P. D. Dewangan	Gunanidhi Pradhan	Solving optimal load dispatch problem using quasi-oppositional enhanced bat optimization algorithm
3.	Dr. Anamika Yadav	ChitrarthRangari	Fault Detection and

		(15224005)	Classification on Distribution Line with Penetration of DFIG Driven Wind Farm Using Fuzzy System
5.	Dr. Narendra D. Londhe	Neha Sahu	Selective harmonic elimination in multi-level inverters
6.	Dr. Subhojit Ghosh	Ms. Ankita Chandrakar	Harmonic Estimation and Mitigation Using Coventional and Optimization Techniques
7.	Dr. Ebha Koley	Vikram Raju Gotte	Data mining based protection scheme for three phase transmission line with STATCOM
8.	Dr. Swapnajit Pattnaik	Mukteshwari Sahu	Analysis of Hybrid Solar and Wind Energy Generation System with MPPT and Battery Management Technique
9.	Dr. Binod Shaw	Mr. Neeraj Dewangan	An Analysis of Transient Response of Isolated Small Hydropower plant with application of Hybrid DECRPSO Algorithm Optimized Fuzzy-PI Controller.
11.	Dr. Varsha Singh	Bhartari Singh	Analysis of control strategies for three phase to three phase and multiphase matrix converter
12.	Dr. Varsha Singh	VishwdeepAnand	Design and analysis of multi-level inverter with reduce number of switches and D.C. sources
13.	Dr. Monalisa Biswal	Mahitosh Banafer	An Innovative Third Zone Distance Relay

			Algorithm for Voltage Instability And Load Encroachment Conditions In The Presence Of Wind farm
14.	Dr. Vinay Pratap Singh	Sourabh Dewangan	Controller tuning for automatic generation control of multi-area interconnected thermal system using Elephant Herding Optimization techniques
15.	Dr. Lalit Kumar Sahu	Manik Jalhotra	“Development of Single and Multi Switch Fault Tolerant Topology of MLI”
16.	K. Chandrasekaran	B Venugopal	Electromagnetic Fields of Lightning Return Stroke in Presence of a Vertically Stratified Ground
17.	K. Chandrasekaran	Jai Kumar Goyal	Evaluation of Circuit Parameters of Multistage Impulse Generator by Using Particle Swarm Optimization

Achievement of outgoing students (PG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Jai Goyal	JTO,BSNL
2.	Yashpal Yadav	Asst Engineer, MahaTransco
3.	Atul Kumar Soni	PhD, IIT Kanpur
4.	Manik	PhD, NIT Raipur
5.	Sugandh Pratap Singh	PhD, IIT Kanpur

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1	AAKASHDEEP KURRE (14117001)	L&T Constrcution Pvt. Ltd.
2	AISHWARY KUMAR DEHARIYA (14117007)	KEC International
3	AKASH KUMAR SAHU (14117009)	Nuvoco Vistas Pvt. Ltd.
4	Ankush jakhotra (14117013)	nuclear power cooperation of india
5	Avinash sah(14117015)	Wipro(C)
6	AYUSHI TIWARI (14117017)	KEC International
7	BETHALA SALOME (14117019)	Deloitte Consulting
8	BHAIRAVABHATLA ANURAAG (14117020)	Vedanta Balco
9	BOLLU SAI KRISHNA REDDY (14117021)	L&T Constrcution Pvt. Ltd.
10	C. SAI MAHADEVA SOMAYAJULU (14117022)	L&T Constrcution Pvt. Ltd.
11	DHANENDRA KUMAR VERMA (14117024)	Wipro Limited
12	G LAVANYA (14117026)	Vedanta Balco
13	GARIMA GUPTA (14117027)	Wipro Limited
14	HIMANSHU (14117031)	L&T Constrcution Pvt. Ltd.
15	HIMANSHU VYAS (14117032)	Aditya Birla Group
16	INDRANEEL MUKHERJEE (14117033)	Mu-Sigma
17	KAMAL KANT (14117035)	L&T Constrcution Pvt. Ltd.
18	KARANAM POORNA SUDHA (14117036)	Aditya Birla Group
19	LAXMAN SINGH (14117040)	L&T Constrcution Pvt. Ltd.
20	Linkita dewangan (14117042)	ONGC
21	MITTAPALLY SOWMYA (14117902)	Vedanta Balco
22	MOHIT AGARWAL (14117047)	KEC International

23	MOUNIK SARKAR (14117048)	JSW Steel Ltd. (Dolvi Works)
24	NARKEDAMILLI KAVYA (14117050)	FIAT INDIA LTD.
25	NIKHILESH MISHRA (14117051)	KEC International
26	nitish kumar (14117053)	reliance industries
27	OMKAR (14117055)	L&T Constrcution Pvt. Ltd.
28	PATTIRI SUDHEER KUMAR (14117056)	L&T Constrcution Pvt. Ltd.
29	R PRASHANT (14117059)	Vedanta Balco
30	RAHUL KUMAR (14117903)	KEC International
31	RAHUL PRAJAPATI (14117060)	Vedanta Balco
32	RAVI KUMAR SHARMA (14117063)	JSW Steel Ltd. (Dolvi Works)
33	RICHA DUBEY (14117064)	Wipro Limited
34	ROHAN SUBGONDA (14117065)	Deloitte Consulting
35	RUPENDRA DEWANGAN (14117066)	JSW Steel Ltd. (Dolvi Works)
36	SHASHANK AHUJA (14117072)	Aditya Birla Group
37	SHEFALI DEWANGAN (14117904)	TVS Motors
38	SHRUTI KAUSHIK (14117074)	Ircon International
39	SHUBHAM AGRAWAL(14117075)	L&T Constrcution Pvt. Ltd.
40	SHUBHAM KISHORE (14117076)	L&T Constrcution Pvt. Ltd.
41	V V SUGATRI (14117080)	L&T Constrcution Pvt. Ltd.
42	VARUN TRIPATHI (14117081)	RIL (Petroleum / E&P)
43	VINAYAK DEWANGAN (14117085)	KEC International
44	VISHAN KHADKE (14117088)	Wipro Limited
45	VOILADA DINESH (14117089)	HMEL (HPCL + Mittal Energy)
46	YENIKAPALLI GOPI CHAND (14117091)	Aditya Birla Group
47	Modugu hindu Sree Reddy (14117046)	M.Tech (Osmania University)

48	Shubham ghore (14117076)	M.Tech (NIT Raipur)
49	Aayushi gupta (14117901)	MBA (IIM Calcutta)

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended
(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr. Anamika Yadav	FDP101x Foundation Program in ICT for Education organised by IIT Bombay	Aug 12 to Sep 13, 2017 (Online course at NIT Raipur)
2.	Dr. Anamika Yadav	FDP201x Pedagogy for Online and Blended Teaching-Learning Process organised by IIT Bombay	14 Sep to Nov 20, 2017 (Online course at NIT Raipur)
3.	Dr. Narendra D. Londhe	Computer-Aided Psoriasis Disease Classification and Severity Detection, 2 nd International Conference on “Recent Innovations in Engineering and Technology (ICRIEAT -2017)” (Role: Expert lecture)	21 December 2017 at Aurorra’s Scientific, Technological and Research Academy, Hyderabad, Telangana.
4.	Neha Sahu, Narendra D. Londhe	Selective harmonic elimination in five level inverter using sine-cosine algorithm, IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI), Chennai	21-22 September 2017. Chennai
5.	Dr. Subhojit Ghosh	Hybrid Optimization Based FOPI Controller Design with Real-Time Validation, Third IFAC International	Hyderabad, Feb. 18-22 2018

		Conference on Advances in Control and Optimization of Dynamical Systems, Organized by DRDO	
6.	Dr. Subhojit Ghosh	Towards micro and smart grids (<i>Keynote speaker</i>), JKO (EZ) 24th Inter-Company Engineering & Factory Management Conference 2017	Raipur, 28th-30th August 2017
7.	Dr. Subhojit Ghosh	Control System in Robotics, TEQIP-III Sponsored Workshop on "Robotics & Computational Intelligence Techniques (RCIT-2018)	NIT Raipur, 07 Feb. 2018
8.	Dr. Subhojit Ghosh	Optimization Applications, TEQIP-III Sponsored STTP on Computational Intelligence & Cloud Computing, NIT Raipur	NIT Raipur, 26 -30 Dec. 2018
9.	Dr. Subhojit Ghosh	Multi-objective Genetic Algorithm Based Passive Filter Design for Variable Frequency Drives, INDICON-2017, IIT Roorkee (<i>presented by M.Tech student, Ms. Himanshi Verma</i>)	IIT Roorkee, 15-17 Dec. 2017
10.	Dr. Subhojit Ghosh	Recent Trends in Control System Engineering (Guest Lecture), CCET Bhilai	CCET Bhilai, 19 August, 2017
12.	Dr. Binod Shaw	"Fundamentals of Electrical Machines, Stepper Motor, & Servo Motor" Self Financed STTP on "CNC programming and practice" organized by Mechanical Engineering department	10th - 14th Oct, 2017 N.I.T. Raipur
13.	Dr. Binod Shaw	"Fundamentals of Smart Grid" Self	23rd - 27th Oct, 2017 N.I.T. Raipur

		Financed STTP on " Nature Inspired Computing and its Applications" organized by department of Electrical Engineering	
14.	Dr. Binod Shaw	“Smart City” Self Financed STTP on " Programming Fundamental and its application with C " organized by department of Electrical Engineering	15th - 19th Nov, 2017 N.I.T. Raipur
15.	Dr. Vinay Pratap Singh	Logic building using C and MATLAB, National level self-financed one-week STTP, organised by Department of IT & Electrical Engineering	31-07-2017 to 04-08-2017, NIT, Raipur, India
16.	Dr. Vinay Pratap Singh	Machine Learning, National level self-financed one-week STTP, organised by Department of ETC&IT	28-08-2017 to 01-09-2017, NIT, Raipur, India
17.	Dr. Vinay Pratap Singh	Soft Computing Techniques and Robotics, National level self-financed one week (STTP), organised by Department of IT	04-09-2017 to 08-09-2017, NIT, Raipur, India
18.	Dr. Vinay Pratap Singh	Logic building using C and MATLAB, National level self-financed one-week STTP, organised by Department of IT & Electrical Engineering	12-09-2017 to 16-09-2017, NIT, Raipur, India
19.	Dr. Vinay Pratap Singh	Logic building using C and MATLAB, National level self-financed one-week STTP, organised by Department of IT	30-10-2017 to 03-11-2017, NIT, Raipur, India
20.	Dr. Lalit Kumar Sahu	STTP on Power Electronics Devices and Their Applications in	8 to 10 th Feb 2018 EEED, TIT Bhopal

		Power System from 8 to 10 th Feb 2018 under TEQIP-III Organized by EEED, TIT Bhopal	
21.	Dr. Lalit Kumar Sahu	One Week Faculty Development Program on Power Electronics in DC and AC microgrid from 12 to 16 th Feb 2018 under TEQIP-III Organized by EEED, OIST Bhopal	12 to 16 th Feb 2018 under EEED, OIST Bhopal
22.	Dr. Lalit Kumar Sahu	Expert Lecture on “Emerging Trends and Advantages of Electric and Hybrid Vehicle” under TEQIP-III, EED, REC Rewa	28 th March 2018 REC, Rewa
23.	Dr. Lalit Kumar Sahu	"Single and Multi Switch Fault Tolerant Topology of Multi Level Inverter," Industrial Electronics Society IEEE International Conference on Emerging Trends in Engineering, Science & Technology, Jan 18-20 2018 Thrissur	18-20 January 2018 GEC, Thrissur Kerala

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Ghanahshyam B. Kshirsagar, Narendra D. Londhe	“Performance Improvement for Devanagari Script Input Based P300 Speller”, IEEE 5 th International Conference on Signal Processing & Integrated Networks (SPIN), Amity University, Noida	22-23 February 2018 Amity University
2.	Ghanahshyam B. Kshirsagar, Narendra D. Londhe	“Deep Convolutional Neural Network Based Speech Recognition for	22-23 February 2018 Amity University

		Chhattisgarhi”, IEEE 5 th International Conference on Signal Processing & Integrated Networks (SPIN), Amity University, Noida	
3.	Anita Khanna, Narendra Londhe and Shubhrata Gupta	Detection of pulmonary vessels in 3D lung CT using improved Graph Cut”, IEEE 5 th International Conference on Signal Processing & Integrated Networks (SPIN), Amity University, Noida	22-23 February 2018 Amity University
4.	Hitesh Tekchandani, Shrish Verma, Narendra D. Londhe	Severity Assessment of Lymph Nodes in CT Images using Deep Learning Paradigm, IEEE 2 nd International Conference on Computing Methodologies and Communication (ICCMC),Surya Engineering College, Erode	15-16 February 2018. Erode
5.	Anita Khanna, Shubhrata Gupta, Narendra Londhe	Automatic Lung Segmentation and Airways Detection using Adaptive Morphological Operations, International Conference on Machine Intelligence and Signal Processing (MISP), IIT Indore	22-24 December 2017 IIT Indore
6.	Neha Sahu, Narendra D. Londhe	Optimization based selective harmonic elimination in multi-level inverters, IEEE National Power Electronics Conference (NPEC), Pune	18-20 Dec 2017 Pune
7.	Ghanahshyam B. Kshirsagar, Narendra D. Londhe	Deep convolutional neural network based character detection in devanagari script input based P300 speller, IEEE International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICEECCOT), Mysuru	15-16 Dec 2017 Mysuru

8.	Satya Prakash Sahu, Priyanka Agrawal, Narendra D Londhe and Shrish Verma	Lung Segmentation of CT Images using Fuzzy-c-means for the Detection of Cancer in Early Stages, International Conference on Data and Information Sciences (ICDIS), Amarkantak	17-18 November 2017
9.	Aparajita Saraf, Rahul Kumar Chaurasiya, Narendra D Londhe and Subhojit Ghosh	Multi-Objective Binary PSO for Improving the Performance of P300 Speller, IEEE International Conference on Advanced Computational and Communication Paradigms (ICACCP), Sikkim	September 8-10, 2017 Sikkim
10.	Luca Saba, Sumit K. Banchho, Tadashi Araki, Narendra D. Londhe, Nobutaka Ikeda, Andrew Nicolaides, Shoaib Shafique, Michelle Porsu, John R. Laird and Jasjit S. Suri	Automated Carotid Artery Plaque Burden and Stenosis Severity Measurements: A Web-based Tool for Multicenter Clinical Trial, 3 rd Neurological Disorders Summit (NDS-2016), Burlingame, CA, USA.	July 6-8, 2017 Burlingame, CA, USA
11.	Narendra D. Londhe , Ghanahshyam B. Kshirsagar	Continuous Speech Recognition System for Chhattisgarhi," IEEE International Conference on Communication and Signal Processing (ICCSP'17), Chennai	6-8 April 2017. Chennai
12.	Sunil K. Shukla, Ebhakoley , Subhojit Ghosh (presented by Dr. Subhojit Ghosh)	Detection and classification of open conductor faults in six-phase transmission line using wavelet transform and Naive Bayes classifier" IEEE International Conference on Computational Intelligence and Computing Research (IEEE ICCIC-2017),	14-16 Dec. 2017 Tamilnadu College of Engineering, Coimbatore , Tamil Nadu, India, (IEEE ISBN978-1-5090-6621-6).
13.	Sunil kumar shukla, Ebhakoley ,	Fault detection and classification in six-phase	Vimal Jyothi Engineering College

	(presented by Sunil kumar shukla)	transmission system using k-nearest neighbour algorithm”, IEEE International Conference on Intelligent Computing, Instrumentation And Control Technologies (ICICICT - 2017),	Jyothi Nagar Chemperi, Kannur, Kerala, India, Page No. 73, (IEEE ISBN: 978-1-5090-6106-8).
14.	Murli Manohar and Ebha Koley , (presented by Murli Manohar)	"SVM based protection scheme for microgrid." <i>IEEE International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT-2017)</i>	06-07 July 2017 Vimal Jyothi Engg College, Kannur (Kerala), IEEE ISBN: 978-1-5090-6106-8
15.	Maneesh Verma, Ebha Koley and Subhojit Ghosh, (presented by Dr. Subhojit Ghosh)	“Application for fuzzy logic for fault detection and classification in six phase transmission line”,IEEE International Conference on Computational Intelligence and Computing Research (IEEE ICCIC-2017),	14 to 16, December 2017 Tamilnadu College of Engineering, Coimbatore , Tamil Nadu, India,
16.	Murli Manohar, Ebha Koley , and Subhojit Ghosh (presented by Dr. Subhojit Ghosh)	“A Reliable Fault Detection and Classification Scheme based on Wavelet transform and Ensemble of SVM for Microgrid Protection”, <i>3rd IEEE International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT-2017)</i> , Technically sponsored by IEEE Bangalore section,IEEE ISBN : 978-1-5386-1144-9	21-23 Dec. 2017, SSIT, Tumkur (Karnataka)

17.	Sai Sowmya Nagam, Ebha Koley and Subhojit Ghosh	"Artificial neural network based fault locator for three phase transmission line with STATCOM", IEEE International Conference on Computational Intelligence and Computing Research (IEEE ICCIC-2017),	14 to 16, December 2017, Tamilnadu College of Engineering, Coimbatore , Tamil Nadu, India.
18.	Dr. Swapnajit Pattnaik	Partial Soft Switched DC-DC Converter with Constant Voltage Control, 2018 IEEE Transportation Electrification Conference & Expo	6-9 June 2018
19	Dr. Binod Shaw	World Congress on Industrial Control Systems Security (WCICSS-2017)	11th - 14th Dec, 2017 Churchill College, University of Cambridge, UK
20.	Dr. Binod Shaw	International Conference on Industrial Electronics and Electrical Engineering (ICIEEE-2018)	4th Feb, 2018 South Asian Research Center-SARC
21.	Dr. Monalisa Biswal	Wavelet transform based zone-3 protection algorithm, <i>International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)</i>	28-29, Jan 2018, Vellore District, Tamil Nadu, India
22.	Dr. Monalisa Biswal	BAT Algorithm for Security Constrained Optimal Power Flow, <i>International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)</i>	28-29, Jan 2018, Vellore District, Tamil Nadu, India

23.	Dr. Monalisa Biswal	1. An Integrated Fault Classification Approach for Microgrid System,” accepted for presentation in <i>ICDMAI,2019</i> .	Kuala Lumpur, Malaysia, 18-20 Jan.
24.	Dr. Monalisa Biswal	An integrated directional relaying algorithm for microgrid, <i>IEEE Conference 2018, ICTSES 2018</i>	Manipal University, Jaipur, 22-23 December.
25.	Dr. Monalisa Biswal	Algorithm for CT saturation detection with the presence of noise, <i>International Conference on Electrical Energy Systems (ICEES 2018)</i> ,	-9 Feb, 2018, SSN College of Engineering, Tamilnadu, Kalavakkam-603110.
26.	Dr. Monalisa Biswal	Symmetrical Fault Detection During Power Swing: A Comparative Study, <i>International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)</i>	28-29, Jan 2018, Vellore District, Tamil Nadu, India
27.	Dr. Monalisa Biswal	Investigation of Power System Cascading Failure and the causes,” accepted for presentation in <i>IEEE ICEPE-2018</i> .	NIT Meghalaya, Cherrapunjee. 1-2 June
28	Dr. Vinay Pratap Singh	Otsu’s between class variance based multi-level thresholding using teacher-learner-based-optimization algorithm, ICGSP conference 2017, held at NTU, Singapore	24-06-2017 to 27-06-2017, NTU Singapore
29.	Dr. Vinay Pratap Singh	Sine cosine algorithm-based reduction of higher order continuous systems, ICISS 2017, organised by SCAD	07-12-2017 to 08-12-2018, Palladam, Tamilnadu, India.

		Institute of Technology	
30.	K Chandrasekaran	Representation of Severe Negative Subsequent Return Stroke by Optimization based Channel-Base-Current Function Parameters, International Multi-Conference on Computing, Communication, Electrical & Nanotechnology (I2CN-2K18)	26 th , 27 th March 2018 Kottayam
31.	K Chandrasekaran	Application of DE to Identify Lightning Channel Base – Current Function Parameters for Approximating Standard Negative First Stroke, International Conference on Innovations in Science, Engineering, Technology and Management (ICISSETM-2018)	9 th ,10 th March 2018 Salem
32.	K Chandrasekaran	Evaluation of Circuit and Its Analytical Function Parameters for Lightning and Switching Impulse, IEEE-International Conference on Innovation in Electrical, Electronics, Instrumentation and Media Technology (ICIEEIMT' 17)	3 rd , 4 th March 2017 Coimbatore
33.	K Chandrasekaran	Effects of Stratified Ground on Lightning Electromagnetic Fields of a Return Stroke, in Proceedings of IEEE-International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC'17)	22 nd ,23 rd March 2017 Chennai
34.	K Chandrasekaran	Calculation of Multistage Impulse Circuit and Its Analytical Function Parameters, International	27 th , 28 th and 29 th April 2017

		Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017)	
35.	K Chandrasekaran	Electromagnetic Fields of Lightning Return Stroke in Presence of a Vertically Stratified Ground, IEEE-International Conference on Electronics, Communication and Aerospace Technology (ICECA'17)	20 th 21 st April Coimbatore

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	Short Term Training Program On “Medical Signal and Image Processing-II” (2nd MSIP-2017)	Dr. Narendra D. Londhe, Dr. Mitul Kumar Ahirwal	Dr. A.M. Rawani, Director, NIT Raipur	22nd – 27th May, 2017	Self-Sponsored
2.	Tech Fest and National Conference “ELYSIAN-17: Technology for Humanity”	Dr. R.N. Patel		27 th – 29 th October 2017	Organized by IEEE Student Branch SSTC, SSGI-SSTC Bhilai, sponsored by All India Council for Technical Education (AICTE), New Delhi
3.	CNC programming and practice (STTP)	Dr. B. Shaw Dr. M.S Rajput Dr. H.K.Narang	N.A	10.10.2017 to 14.10.2017	Self-Sponsored

4.	Nature Inspired Computing and its Applications(STTP)	Dr. B. Shaw Dr. M. Sahu Dr. G.P.Gupta	N.A	23.10.2017 to 27.10.2017	Self-Sponsored
5.	Programming Fundamental and its application with C (STTP)	Dr. B. Shaw Dr. M. Sahu Dr. G.P.Gupta	N.A	15.11.2017 to 19.11.2017	Self-Sponsored
6.	Logic building using C and MATLAB, National level self-financed one-week STTP,organised by Department of IT & Electrical Engineering	Dr. Vinay Pratap Singh	Not applicable	31-07-2017 to 04-08-2017	Self-financed

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	S. P. Gautam, L. Kumar and S. Gupta	Single-phase multilevel inverter topologies with self-voltage balancing capabilities.	IET Power Electronics, 11, 5/844-855, Jan. 2018.	10.1049/iet-pel.2017.0401.
2.	S. P. Gautam, L. Kumar and S. Gupta	Reliability Improvement of Transistor Clamped H-bridge Based Cascaded Multilevel Inverter.	IET Power Electronics, 10, 7/770-781. Oct. 2017.	10.1049/iet-pel.2016.0574.
3.	V. S. Thakur, S.	Hybrid WPT-BDCT	IET Image	10.1049/iet-

	Gupta and K. Thakur	transform for high-quality image compression	Processing, 11, 10/899-909, Oct. 2017.	ipr.2016.0740.
4.	Vikrant S. Thakur, Kavita Thakur, and Shubhrata Gupta	Efficient SEM Image Compression for High-Quality Reproduction of Nanomaterial Images Using Lapped Biorthogonal Transform and Block Variance Classified Variable Rate Quantization	International Journal of Luminescence and Application, 7, 3-4/521-526, Oct. 2017.	
5.	V. S. Thakur, K. Thakur, and S. Gupta	Optimum JPEG Quantization Table Generation for High-Quality Image Compression Using Multiobjective Evolutionary Optimization Based on Decomposition	International Journal of Electronics, Electrical and Computational System, 6, 11/ 366-372, Nov. 2017.	
6.	Varsha Singh, Swapnajit Pattnaik, and S. Gupta	Application of Curve Fitting Techniques using Soft Computing Techniques (GA, GSA, POS and NR) in Multilevel Inverters for Harmonic Minimization	Journal of Engineering Science and Technology (School of Engineering, Taylor's University), 12, 12/3358 - 3375, Dec. 2017.	
7.	V. S. Thakur, K. Thakur, and S. Gupta	High-Quality Medical Image Compression Using Discrete Orthogonal Cosine Stockwell Transform and	Lecture Notes in Computer Science, 10682/100-110, Springer, Cham, Nov.	https://doi.org/10.1007/978-3-319-71928-3_11 .

		Optimal Integer Bit Allocated Quantization	2017.	
8.	Niraj Kumar Dewangan, Shubhrata Gupta and Krishna Kumar Gupta	Hybridization of Diode-clamped and T-type Multilevel Inverters: Synthesis and Analysis.	International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), 28th & 29th January 2018, Tamil Nadu, India.	
9.	T. V. Dixit, A. Yadav and S. Gupta	Annual Optimum Tilt Angle Prediction of Solar Collector using PSO Estimator.	IOP Conf. Series: Materials Science and Engineering, 225, 012296, July 2017.	10.1088/1757-899X/225/1/012296.
10.	T. V. Dixit, Anamika Yadav, S. Gupta	Modeling of Nexa-1.2kW Proton Exchange Membrane Fuel Cell Power Supply using Swarm Intelligence	Computational Intelligence in Data Mining. Advances in Intelligent Systems and Computing, 711, Springer, Singapore, July 2017.	https://doi.org/10.1007/978-981-10-8055-5_9
11.	Gunanidhi pradhan, P D Dewangan	Solving optimal load dispatch problem using enhanced bat optimization algorithm	International Conference on Innovations in Power and Advanced Computing	978-1-5090-5682-8 /17/\$31.00 ©2017 IEEE

			Technologies [i-PACT2017] IEEE conference	
12.	Bhupendra Kumar • Anamika Yadav	A Synchrophasors Assisted Protection Scheme for the Shunt-Compensated Transmission Line	IET Generation, Transmission & Distribution Apr 2017, Volume: 11, Issue: 13, pp. 3406- 3416.	10.1049/iet-gtd.2017.0238
13.	Aleena Swetapadma, Praveen Mishra , Anamika Yadav , Almoataz Y. Abdelaziz	A Non-Unit Protection Scheme for Double Circuit Series Capacitor Compensated Transmission Lines	Electric Power Systems Research, Volume 148, Apr 2017, pp. 311-325.	https://doi.org/10.1016/j.epsr.2017.04.002
14.	<u>Bhupendra Kumar,</u> <u>Anamika Yadav</u>	Backup Protection Scheme for Transmission Line Compensated with UPFC during High Impedance Faults and Dynamic Situations	IET Science, Measurement & Technology, Volume: 11, Issue: 6, 2017, pp. 703 – 712.	10.1049/iet-smt.2016.0458
15.	Jenifer Mariam Johnson, Anamika Yadav	A Complete Protection Scheme for Fault Detection, Classification and Location Estimation in HVDC transmission lines using Support Vector Machines	IET Science, Measurement & Technology, Volume: 11, Issue: 3, May 2017, Pages 279 - 287.	10.1049/iet-smt.2016.0244
16.	Bhupendra Kumar, Anamika Yadav	Impact of UPFC on alpha plane line current differential protection	7th International Conference on Power Systems (ICPS), Pune, 21-23 Dec. 2017, pp. 224-229.	10.1109/ICPES.2017.8387297
17.	V. Ashok, A. Yadav, C. C. Antony, K. K. Yadav, U.	An Intelligent Fault Locator for 400kV	Soft Computing in	https://doi.org/10.1007/978-

	K. Yadav, Sandeep Kumar Sahu	Double Circuit Line of Chhattisgarh State: A Comparative Study	Data Analytics. Advances in Intelligent Systems and Computing, vol 758. Springer, Singapore	981-13-0514-6_5
18.	Atul Kumar Dwivedi, Subhojit Ghosh , Narendra D. Londhe	Review and Analysis of Evolutionary Optimization-Based Techniques for FIR Filter Design,	Circuits, Systems & Signal Processing, Vol. No. 37, Pages 4409-4430, 2018	https://doi.org/10.1007/s00034-018-0772-1
19.	Sumit K. Banchhor, Narendra D. Londhe , <i>et al.</i>	Wall-based measurement features provides an improved IVUS coronary artery risk assessment when fused with plaque texture-based features during machine learning paradigm	Computer in biology and medicine, Vol. No. 91, Issue C, Pages 198-212, 2017	https://www.sciencedirect.com/science/article/pii/S0010482517303451?via%3Dihub
20.	Luca Saba , Sumit K. Banchhor , Narendra D. Londhe , <i>et al.</i>	Web-based accurate measurements of carotid lumen diameter and stenosis severity: An ultrasound-based clinical tool for stroke risk assessment during multicenter clinical trials	Computer in biology and medicine, Vol. No. 91 Pages 306-317, 2017	https://doi.org/10.1016/j.compbiomed.2017.10.022
21.	Vimal K. Shrivastava, Narendra D. Londhe , Rajendra S. Sonawane, Jasjit S. Suri	A novel and robust Bayesian approach for segmentation of psoriasis lesions and its risk stratification	Computer Methods and Programs in Biomedicine, Vol. No. 150 Issue C, Pages 9-22, 2017	https://dx.doi.org/10.1016/j.cmpb.2017.07.011
22.	Narendra D. Londhe , Ghanahshyam B. Kshirsagar	Chhattisgarhi speech corpus for research and development in automatic speech recognition	International Journal of Speech Technology, Vol. No. 21, Issue	https://link.springer.com/content/pdf/10.1007%2Fs10772-018-9496-7.pdf

			2,Pages 193-210,2018	
23.	Satya Prakash Sahu , Priyanka Agrawal , Narendra D Londhe and Shrish Verma	A New Hybrid Approach Using Fuzzy Clustering and Morphological Operations for Lung Segmentation in Thoracic CT Images	Biomedical & Pharmacology Journal,Vol.No .10(4),Pages 1949-1961 ,2017	http://dx.doi.org/10.13005/bpj/1315
24.	Rahul Kumar Chaurasiya, Narendra D Londhe and Subhojit Ghosh	“Comparison of Machine Learning Methods for Devanagari Script-based P300 Speller System”	International Journal of Control Theory and Applications	
25.	Murli Manohar, Ebha Koley , and Subhojit Ghosh,	Reliable protection scheme for PV integrated microgrid using an ensemble classifier approach with real-time validation	<i>IET Science, Measurement & Technology</i> vol. 12, no. 2, pp. 200-208, Mar 2018,	DOI: 10.1049/iet-smt.2017.0270
26.	Sunil K. Shukla, Ebha koley , Subhojit Ghosh	A hybrid wavelet–APSO–ANN-based protection scheme for six-phase transmission line with real-time validation	Neural Comput & Applic (2018), pp. 1-15,	https://doi.org/10.1007/s00521-018-3400-x
27.	Ebha koley , Sunil K. shukla, Subhojit Ghosh, Dusmanta K. Mohanta	Protection scheme for power transmission lines based on SVM and ANN considering the presence of non-linear loads	IET Generation, Transmission & Distribution, 2017, 11 (9), pp. 2333-2341	doi: 10.1049/iet-gtd.2016.1802.
28	Mano Ranjan Kumar, Subhojit Ghosh, Shantanu Das	Charge-discharge energy efficiency analysis of ultracapacitor with fractional-order dynamics using hybrid optimization	AEU - International Journal of Electronics and Communications (an	https://doi.org/10.1016/j.aeue.2017.05.011

		and its experimental validation	elsevier publication)	
29	Mano Ranjan Kumar, Vishwa Deepak, Subhojit Ghosh	Fractional-order controller design in frequency domain using an improved nonlinear adaptive seeker optimization algorithm	Turkish Journal of Electrical Engineering & Computer Sciences.	doi:10.3906/elk-1701-294
30	Subrat Kumar Swain, Debdoot Sain, Sudhansu Kumar Mishra, Subhojit Ghosh	Real time implementation of fractional order PID controllers for a magnetic levitation plant	AEU - International Journal of Electronics and Communications (an elsevier publication)	https://doi.org/10.1016/j.aeue.2017.05.029
31	Phani Teja Bankupalli, Subhojit Ghosh, Lalit Kumar, Susovon Samanta	Fractional Order Modeling and Two Loop Control of PEM Fuel Cell for Voltage Regulation Considering Both Source and Load Perturbations	International Journal of Hydrogen Energy (an elsevier publication)	https://doi.org/10.1016/j.ijhydene.2018.01.167
32	MudadlaDhananjaya, SwapnajitPattnaik	Design and Analysis of Multi-input Buck-Boost Converter with Less Number of Switches	International Journal of Pure and Applied Mathematics, Volume 114 No. 7 2017, 129-139	https://ijpam.eu/
33	Jyoti Ranjan Nayak, Binod Shaw, and Binod Sahu.	Load frequency control of hydro-thermal power system using fuzzy PID controller optimized by hybrid DECRPSO algorithm	Journal of Pure and Applied Mathematics, Vol. 114, No. 9, pp.147- 155, 2017	ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version)
34	Neeraj Kumar Dewangan, H.S. Sachdev, and Binod Shaw.	An Analysis of Transient Response of Isolated Small Hydropower Plant..	Journal of Pure and Applied Mathematics, Vol. 114, No.	ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-

			9, pp.137- 145, 2017	line version)
35	Varshasingh, S.Gupta, S.patnaik	Application of curve fitting techniques using diverse soft computing techniques in MLI for harmonic minimization	JESTEC, Vol.1 2(12), 2017, pp 3358-3375	http://..jestec.....
36	Varshasingh, S.Gupta, S.patnaik	Modified GSA for optimization of THD for voltage source MLI	International Journal of Power Electronics, (Inderscience)	
37	Varshasingh, Sugandh P.Singh, Vinay P.Singh	Analytical Hierarchy process based approximation of high order continuous system using TLBO algorithm	International journal of dynamics and control, Springer, May 2018, ISSN 2195-268X, pp 1-10	https://doi.org/10.1007/s40435-018-0436-9
38	Varshasingh, S.Gupta, S.Patnaik	A new design of a voltage source inverter and its applicability in medium power applications	Journal of Engg. And Applied science 13(3), 2018, pp 700-708	
39	R. Nale, M. Biswal, N. Kishor	A Transient Component Based Approach for Islanding Detection in Distributed generation	<i>IEEE Sustainable Energy, Early access</i>	DOI: 10.1109/TS-TE.2018.2861883
40	T. Jose, M. Biswal, K. Venkatanagaraju, Om P. Malik	Integrated Approach Based Third Zone Protection During Stressed System Conditions	<i>Electric Power System Research, Elsevier</i> , vol. 160, pp. 199-211, 2018	https://doi.org/10.1016/j.epsr.2018.04.011
41	S. Biswal, M. Biswal	Fault-Swing Discrimination using Hilbert-Huang Transform Integrated Discrete Teager Energy Operator	<i>IET Science, Measurement and technology</i>	DOI: 10.1049/iet-smt.2018.0053
42	S. Biswal, M. Biswal, Om P. Malik	Hilbert Huang Transform Based	<i>IEEE Transactions</i>	DOI: 10.1109/TPWRD.2018.2827

		Online Differential Relay Algorithm for Shunt Compensated Transmission Line	<i>on Power Delivery Early Access</i>	843
43	S. Biswal, M. Biswal , and A. Y. Abdelaziz	An adaptive algorithm to prevent distance relay overreach during CCVT transient	Electric Power System Research, Elsevier, vol. 160, pp. 362-371, 2018	https://doi.org/10.1016/j.epsr.2018.03.015
44	N. S. Rathore, V. P. SINGH	Design of optimal PID controller for the reverse osmosis using teacher-learner-based-optimization	Membrane Water Treatment, An International Journal, Vol. 9, No. 2, pp. 129-136, 2018.	10.12989/mwt.2018.9.2.129
45	V. P. SINGH, N. Patnana, S. P. Singh	PID controller tuning using hybrid optimisation technique based on Box's evolutionary optimisation and teacher-learner-based-optimisation	Int. J. Computer Aided Engineering and Technology, (Accepted)	
46	J. K. Bokam, V. P. SINGH, S. N. Raw	Comments on "large scale interval system modelling using rough approximants"	Journal of Advanced Research in Dynamical and Control Systems, 18-special issue, pp. 1571-1575, 2017.	
47	Gautam, Shivam Prakash, Lalit Kumar , and Shubhrata Gupta	Single-Phase Multilevel Inverter Topologies with Self-Voltage Balancing Capabilities	<i>IET Power Electronics</i>	DOI: 10.1049/iet-pel.2017.0401
48	Jalhotra, Manik, Lalit Kumar , Shivam Prakash Gautam, and Shubhrata Gupta	Development of fault tolerant multilevel inverter topology	<i>IET Power Electronics</i>	DOI: 10.1049/iet-pel.2017.0683
49	Gautam, Shivam Prakash, Lalit Kumar ,	A Single-Phase Five-level	<i>IEEE Transaction on</i>	DOI: 10.1109/TIE.201

	and Shubhrata Gupta	Inverter Topology with Switch Fault Tolerance Capabilities	<i>Industrial Electronics</i>	6.2626368
50	G. Ramarao , and K Chandrasekaran	Calculation of Multistage Impulse Circuit and Its Analytical Function Parameters	International Journal of Pure and Applied Mathematics,(Scopus) Vol. 114, No. 12, pp.538-592, 2017	http://www.ijpam.eu

Books, monograms, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1.	M. A. Sobhy, Almoataz Y. Abdelaziz, Michael Ezzat, Anamika Yadav , Bhupendra Kumar	Artificial Bee Colony Optimization Algorithm for Fault Section Estimation	Springer, 2017	Co-author
2.	Jenifer Mariam Johnson and Anamika Yadav	Fault detection and classification technique for HVDC transmission lines using KNN	Springer, 2017	Co-author
3.	BhuperaIngre, Anamika Yadav , Atul Kumar Soni	Decision Tree Based Intrusion Detection System for NSL-KDD Dataset	Springer 2018	Co-author
4.	Anamika Yadav and ChittrarthRangari	Fault Detection and Classification on Distribution Line with Penetration of DFIG-Driven Wind Farm Using Fuzzy System	Springer 2018	Author
5.	Praveen Kumar Mishra and Anamika Yadav	A Non-unit Protection Scheme for Series-Compensated Transmission System Using Fuzzy Inference System	Springer 2018	Co-author
6.	Ebha Koley ,	Book : Lecture Notes in	Springer	Murli Manohar,

		Networks and Systems Chapter: Discrete Wavelet Transform and kNN-based Fault Detector and Classifier for PV Integrated Microgrid		Yuvraj Kumar and Subhojit Ghosh
7.	Dr. Binod Shaw	Load Frequency Control In Deregulated Power System	Lambert Academic Publishing	Mr. Jyoti Ranjan Nayak
8.	Dr. Binod Shaw	Synchronization Of PV-Array System: A Review	Lambert Academic Publishing	Mr. Sonu Kumar
9.	Dr. Varsha Singh	A Treatise on Asymmetrical Multilevel Inverter Topology	Lambert Academic publishing	Varshasingh, O. Naga Dutta
10.	Dr. Monalisa Biswal	Protection Schemes for Sustainable Microgrids (Book Chapter of book Sustainable Interdependent Networks: From Theory to Application)	Springer Nature Switzerland AG	RuchitaNale, Almoataz Y.Abdelaziz
11.	Dr. Monalisa Biswal	Synchrophasor Based Wide Area Protection Scheme for System Stressed Conditions to Avoid Power System Blackout," (Book Chapter Accepted for publication in the upcoming book, "Handbook of Research on Smart Power System Operation and Control")	IGI Global	Kasimala Venkatanagaraju
12.	Dr. Monalisa Biswal	"Uninterrupted Power Supply to Microgrid During Islanding," (Book Chapter Accepted for publication in the upcoming book, "Handbook of Research on Smart Power System Operation and Control")	IGI Global	Ruchi Chandrakar RuchitaNale
13.	Dr. Lalit Kumar Sahu	Chapter 35: Fundamentals of Power Electronics Controlled Electric Propulsion	Elsvier	Dr. Shailendra Jain

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr.	Title of the Project	Period	Funding	Amount	Investigators
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No.			Agency	(in lakhs of Rs.)	(PI/Co-PI)
1.	Testing of Electrical measuring instruments				
2.	A single ended directional relaying algorithm based on ANN for fault classification and zone identification of double infeed transmission line	Dec.2013- Nov. 2017	C.G. Council of Science and Technology, CGCOST, Raipur	4.40 Lakhs	PI
3.	Studies to Improve the Performance of Fault Location Algorithm for Multi-Location Shunt Faults in Transmission Line: A Case study of Chhattisgarh State.	March 2016 (Ongoing)	Central Power Research Institute (CPRI) Bangalore	27 Lakhs	PI
4.	Machine based behavioural multiparametric pain assessment system	On going	Science and engineering research board(SERB)	₹23,56,000	Principal Investigator
5.	“Development of efficient Devanagari Script Input Based P300 Speller system for Brain-Computer Interface”	On going	Department of Science & Technology(DST)	₹ 27,10,600	Principal Investigator
6.	Hybrid optimization based fraction order fuel modeling and online parameter estimation with design of adaptive controller for integrated power converters	2015-2019	Naval Research Board, DRDO	34.79 Lacs	Dr. S . Ghosh (PI)
7.	Microcontroller based implementation of mathematical model of insulin secretion for	2014-2018	CCOST	4.85 Lacs	Dr. S. Ghosh (PI)

	automated glucose regulation				
8.	Development of a Circuit Based Model for the Analysis of Glucose Regulation System	2012-2017	SERB,DST	4.85 Lacs	Dr. Subhojit Ghosh (PI)
9.	A hybrid artificial neural network and fuzzy logic approach with wavelet transform based multi resolution analysis for fault detection, classification and location in six phase transmission line	3 Years	Chhattisgarh Council of Science and Technology	Rs. 4,96,000/-	PI: Dr. Ebha Koley
10.	Detection of Data Attacks and Design of a Resistance Mechanism in Smart Grids.	3 Years	DST	Rs. 69.57 Lacs	PI: Dr. Subhojit Ghosh Co-PI : Dr. T. K. Das, Dr. A. Gangopadhyay, Dr. E. Koley
11.	Advanced protection to prevent zone-3 maloperation during stress system condition (ongoing)	March 2016- March 2019	SERB	5.96 Lakhs	PI
12.	Derivation of time moments and Markov parameters and their applications in model order reduction of discrete interval systems	13-06-2017 to 12-06-2020	SERB, DST, GoI	15.246 Lacs	Dr. Vinay Pratap Singh
13.	Measurement of earth electrical parameter of stratified ground and terrains for lightning electromagnetic field	2017-2019	MHRD-SEED	5,00,000.00	Dr.K. Chandrasekaran (PI)

	evaluation.				
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Awards/Any Other Achievements (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Details of the Award/Achievement	Date
1.	Presented by Subhojit Ghosh	Best Paper award (paper title: Artificial Neural Network Based Fault Locator For Three Phase Transmission Line with STATCOM) Dr. Ebha koley (co-author)	14/12/2017

Institute-Industry Collaboration Ongoing/New (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member(s)	Collaborating Institute / Organization	Area of Collaboration	Collaboration Activities
1.	Dr. Anamika Yadav	CSPTCL, Raipur	Power system Protection	CSPTCL, Raipur full support for implementation of the RSOP project, sharing knowledge, expertise and providing the data of the transmission line model and real time field data (fault event), visualization of the fault events in our sub-station and helping in timely successful completion of the project and accomplishment of the project deliverables.
2.	Dr. Subhojit	BARC, Mumbai	Fractional Calculus	Research

	Ghosh			Publication
3.	Dr. Subhojit Ghosh	NMRL, DRDO	Fuel Cell	Sponsored Research Project
4.	Dr. A. Gangopadhyay,	IIT Roorkee, Roorkee	Smart grid	Research project
5.	Dr. Monalisa Biswal	MNIT Allahabad	Microgrid Protection	Joint Publication and Joint Project
6.	Dr. Monalisa Biswal	Ain Sham University, Egypt Cairo	Microgrid Protection Transmission System protection	Joint Publication
7.	Dr. Monalisa Biswal	Dublin Institute of Technology, Dublin Energy Lab	Microgrid Protection	Joint Project
8	Dr. Monalisa Biswal	Eastern Regional Power Committee, Central Electricity Authority, Ministry of Power (Govt. of India)	Microgrid Protection Power System Blackout Prevention	Joint Project and Joint research work going on
9	Dr. Monalisa Biswal	IIT Dhanbad	Protection of transmission system	Joint research work

Socially relevant activities

Sr. No.	Name of Faculty Member(s)	Activity		
3.	Dr. Ebha Koley	Member (Cultural Committee, NIT Raipur)		
4.	Swapnajit Pattnaik	Nodal Officer	RashtriyaAvishkarAbhiyaan (RAA)	
5.	Dr. Monalisa Biswal	Anti-Ragging Team Member	Attempted seminars and offer lectures to the diploma and ITI level students to get motivated towards the development of small-scale	Offer mathematics class during summer to the students of

			industry and socio-economic projects so that low level jobs can be generated	slum area
6.	Dr. Lalit Kumar	Mentor of Atal Tinkering Lab		

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1	Dr. Shrish Verma	Professor	PhD
2	Dr. Ajay Singh Raghuvanshi	Assistant Professor	PhD
3	Dr. Bibhudendra Acharya	Assistant Professor	PhD
4	Dr. Saikat Majumder	Assistant Professor	PhD
5	Dr. Toshanal Meenpal	Assistant Professor	PhD
6	Dr. Rahul Kumar Chaurasiya	Assistant Professor	PhD
7	Dr. Suman Kumar Saha	Assistant Professor	PhD
8	Dr. Alok Naugarhiya	Assistant Professor	PhD
9	Mr. Anshul Gupta	Assistant Professor	MTech
10	Mr. Sujay Chakraborty	Assistant Professor	ME

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. S. Verma	Mr. Satya Prakash Sahu	Predicting best answers and identification of topical authority in community Q and A

			sites using classification algorithm.
2.	Dr. S. Verma	Mr.Tirath Prasad Sahu	Computer aided diagnosis system for early lung cancer detection in computed tomography images.

M.Tech Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1	Dr. Bibhudendra Acharya and Dr. Saikat Majumder	Dasari Sravanthi (Department of Information Technology)	Image Encryption based on Chaotic Maps
2	Dr Rahul Kumar Chaurasiya	ShouryaShukla	Emotion detection through EEG and Peripheral Physiological Signals using Classification Methodologies.
3	Dr Rahul Kumar Chaurasiya	SamrudhiMohdiwale	Improved Speech Processing Technique for Noise classification and Speaker Recognition.

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)		Placed in (Designation in Job/Higher Education with details)
1	HIMANSHU KANODIA	14116036	Analytics Quotient
2	ANILA CHANDRAWANSHI	14116007	Capgemini
3	ANSHUMAN SAHU	14116009	Capgemini
4	BANDARUPALLI SNEHA SAGARI	14116018	Capgemini
5	GAIRUBOINA LEELA KRISHNA	14116031	Capgemini
6	JUPELLI VAMSHI KRISHNA	14116042	Capgemini
7	PANKAJ YADAV	14116055	Capgemini
8	VAZRAPU SAI BHUVANESHU	14116086	Capgemini
9	NEERAJ JAIN	14116903	Capgemini
10	RAJA VAARAAHI	14116904	Capgemini
11	RAUSHAN RAJ	14116905	Capgemini

12	P CHANDRA KUMAR REDDY	14116058	Cognizant
13	UTKARSH KUMAR SAHU	14116084	CommScope Networks India
14	AYUSHI BANERJEE	14116014	Deloitte Consulting
15	BABITA BEHERA	14116017	Deloitte Consulting
16	KONDURU VENKATARAMANA	14116043	Deloitte Consulting
17	PARIM KRISHNA TANMAI	14116056	Deloitte Consulting
18	SHOKHI JAISWAL	14116076	Deloitte Consulting
19	TANAYA SINGH	14116908	Deloitte Consulting
20	PURAMSETTI SRI SAI SIRISHA	14116063	FIAT India Ltd.
21	RISHABH OJHA	14116906	FIAT India Ltd.
22	NIHARIKA YADAV	14116053	HSBC Software Development
23	ALURU SHILPA	14116005	Infosys
24	MOIRANGTHEM INAoba SINGH	14116051	Infosys
25	ABHINAV AGRAWAL	14116002	L&T Constrcution Pvt. Ltd.
26	ADYA ARADHANA	14116003	L&T Constrcution Pvt. Ltd.
27	ASHUTOSH PADHEE	14116010	Mu-Sigma
28	DILLI VIDISHA	14116025	Mu-Sigma
29	DIPTI CHOUDHARY	14116026	Mu-Sigma
30	G. ADITYA PAVAN KUMAR	14116032	Mu-Sigma
31	M SRIUMA	14116047	Mu-Sigma
32	SHWETA MAHULE	14116077	Mu-Sigma
33	SINGIREDDY SRI LAHARI	14116078	Mu-Sigma
34	SINDHU MALIPEDDI	14116907	Mu-Sigma
35	ATLURI MOUNI	14116011	Oracle Financial Serices
36	ATUL DEWANGAN	14116012	Oracle Financial Serices
37	RENUKA SAHU	14116070	PRADAN
38	GONUGUNTLA VAISHNAVI	14116033	Reliance Industries
39	ANNASAMUDRAM HIMAJA	14116008	Reliance Jio Infocomm
40	JOSHI YUGANDHARA RAJENDRA	14116041	Reliance Jio Infocomm
41	JANUGANI THANUJ KUMAR	14116038	RIL (Petroleum / E&P)
42	MENNI DIVYA SREE	14116050	RIL (Petroleum / E&P)
43	PRIYANK KUMAR AGRAWAL	14116061	RIL (Petroleum / E&P)
44	RISHABH DEWANGAN	14116071	RIL (Petroleum / E&P)
45	D SARALA	14116020	UnitedHealth Group
46	NISHTHA BHIMTE	14116054	UnitedHealth Group
47	PRIYANKA AHIWRAR	14116062	UnitedHealth Group
48	RAVI KISHAN	14116068	UnitedHealth Group

49	SHARAD JOGI	14116073	UnitedHealth Group
50	DAVID PRASHANT JATWAR	14116023	Wipro Limited
51	KOTAGIRI ANVESH	14116044	Wipro Limited
52	MSSV SRI KRISHNA MANIDEEP	14116048	Wipro Limited
53	RATNA RUTHWIK REDDY	14116067	Wipro Limited
54	REDDI ADITYA	14116069	Wipro Limited
55	TEJAS KANIKDALEY	14116082	Wipro Limited
56	VINAY SHARMA	14116089	Wipro Limited
57	VISHAL GUPTA	14116090	Wipro Limited
58	NEELAM JAYAMADHURI	14116052	ZS Associates

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended
(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1	Dr. A S Raghuvanshi,	Comparative study for anomaly detection in sensor network using different kernel functions	Dec 2017, Nit Raipur
2	Dr. A S Raghuvanshi	Energy Efficient routing protocol for IEEE 802.15.4 enabled wireless sensor network	Dec 2017, Nit Raipur
3	Dr. Bibhudendra Acharya	Delivered Talk on “Embedded System Design Using 8051 Microcontrollers & Amp; Interface to Real World” in the Seminar on “Energy Management and Control System for Smart Renewable Energy Technology” at Pt. Ravishankar Shukla University, Raipur, India	24th September 2017, Pt. Ravishankar Shukla University, Raipur, India.
4	Dr. Bibhudendra Acharya	Delivered Lecture on “Applications of Nano-Technology in Electronics” in the National Level STTP MSNT-2017 at Department	3rd – 7th October 2017, NIT Raipur, India

		of Chemistry, NIT Raipur, India.	
5	Dr. Bibhudendra Acharya	Delivered an Expert Talk on “Malware, Virus and Botnets” in the STTP on “Multimedia Security, Cryptocurrency and Forensics” at NIT Raipur, India	30th October– 3rd November 2017, NIT Raipur, India
6	Dr. Bibhudendra Acharya	Delivered Talk on “Embedded Systems for Energy efficiency” in the Seminar on “IT-Enabled Integration of Renewable Energy” at Pt. Ravishankar Shukla University, Raipur, India	4th November 2017, Pt. Ravishankar Shukla University, Raipur, India.
7	Dr. Bibhudendra Acharya	Delivered Invited Talk on “Cryptography – Issues and Options” in the International Conference ICEMIT-2017 at Amity University, Jharkhand, India	23rd – 24th December 2017, Amity University, Jharkhand, India.
8	Dr. Bibhudendra Acharya	Delivered Talk on “Embedded Systems and Robotics” in the Workshop RCIT-2018 at NIT Raipur, India	5th – 9th February 2018, NIT Raipur, India.
9	Dr. Bibhudendra Acharya	Delivered Talk on “Lightweight cryptography and hardware Trojan” in the National Conference BITCON at BIT Durg, India	15th February 2018, BIT Durg, India.
10	Dr. Bibhudendra Acharya	Attended and presented paper on “A Simple, Secure, and Time Efficient Multi-way Rotational Permutation and Diffusion based Image Encryption by Using Multiple 1-D Chaotic Maps” in the 3rd International Conference on Next Generation Computing Technologies (NGCT-2017) at School of Computer	30th -31st October 2017, School of Computer Science & Engineering, UPES, Dehradun, India.

		Science & Engineering, UPES, Dehradun, India.	
11	Dr. Bibhudendra Acharya	Attended and presented paper on “Rateless Distributed Source-Channel Coding of Correlated Binary Sources using Raptor Codes” in the International Conference on Data and Information Sciences (ICDIS-2017) at IGNTU, Amarkantak, M.P., India.	3rd-4th November 2017, IGNTU, Amarkantak, M.P., India.
12	Dr. Bibhudendra Acharya	Attended and presented paper on “Iterative Decoding of LDPC-RS Coded Multiple Description Image” in the International Conference on Energy, Materials and Information Technology (ICEMIT’17) at Amity University, Ranchi.	23rd-24th December 2017, Amity University, Ranchi
13	Dr. Bibhudendra Acharya	Attended and presented paper on “A Secure Chaotic Image Encryption based on Bit-plane Operation” in the 1st International Conference on Soft Computing in Data Analytics(SCDA-2018) at Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh, India.	10th-11th March 2018, Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh, India.
14	Dr. Bibhudendra Acharya	Attended Instructor Enhancement Program (IEP) on “High Level Design to Silicon” at IIT Roorkee, under SMDP-C2SD Project.	24th – 27th February 2018 at IIT Roorkee
15	Dr Rahul K Chaurasiya	Delivered Expert Lecture in National Conf. on Microelectronics, Embedded systems and Comm. & IT (NCMEC ‘18), 2018.	SRM University, Chennai.23-March 2018
16	Dr Rahul K Chaurasiya	Attended Faculty Development Program on Techniques for Material Characterization	Rajiv Gandhi Technical University Bhopal (Sponsored through TEQIP III). 20-24 Nov

			2017.
17	Dr.AlokNaugarhiya	Survey on charge plasma application in semiconductor devices,VCC 2017	NIT Raipur
18	Dr.AlokNaugarhiya	IEP, organized under SMDP C2SD project, MeitY, Govt. of India.	IIT Roorkee, Feb 24-28, 2018
19	Dr.AlokNaugarhiya	Vertical Power MOSFET's	G.B. Pant Institute of Engineering and Technology, PAURI Garhwal., 8th -9th Sept. 2017

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1	Dr. Ajay Singh Raghuvanshi	“Outage Probability Analysis of Cognitive Radio based PLC System”,	IIT Delhi, New Delhi, July 2017.
2	Dr. Bibhudendra Acharya	Presented Research Paper on “A Comprehensive Survey of High-definition Image and Video Techniques”, International Conference for Academic Disciplines, Harvard Medical School, Boston, Massachusetts.	May 2017, Harvard Medical School, Boston, Massachusetts.
3	Dr Rahul K Chaurasiya	8th International Conference on Computing, Engineering and Information Technology (ICCEIT 2018).	Bangkok, Thailand, 2018. 19-20 March 2018
4	Dr Rahul K Chaurasiya	IEEE International Conference on Intelligent Sustainable Systems (ICISS), 2017	SCAD, Palladam, Coimbatore, India. 07-08 Dec 2017.
5	Dr Rahul K Chaurasiya	IEEE International Conference on	MANIT-Bhopal.

		Recent Innovations in Signal processing and Embedded systems (RISE),	27-29 Oct 2017.
6	Dr Rahul K Chaurasiya	ACM's International Conference on Graphics and Signal Processing (ICGSP 2017)	NTU, Singapore. 24-27 June 2017.
7	Dr.AlokNaugarhiya	Use of Open Source CAD Tools in VLSI Design Curriculum for Developing Countries, in International Conference on Computing, Engineering and Information Technology (ICCEIT 2018)	March 2018, Bangkok, Thailand
8	Dr.AlokNaugarhiya	Design and Performance Projection of Workfunction Engineered Variable Vertical Doped Superjunction Vertical Single Diffused MOS International Conference on Electronics, Computing and Communication Technologies, (IEEE CONECCT 2018)	March 16-17 2018, Bangalore, India
9	Dr.AlokNaugarhiya	Application of workfunction in lateral power devices	9-10 Feb 2018, Bangalore
10	Dr.AlokNaugarhiya	Charge Plasma Based VVD-SJ VDMOS Employing Reversed Doping Concentration	9-10 Feb 2018, Bangalore
11	Dr.AlokNaugarhiya	High Speed Generic Voltage Level Shifter, IEEE ICAECC-2018	9-10 Feb 2018, Bangalore
12	Dr.AlokNaugarhiya	High Speed Low Area VLSI Architecture of Slotted CSMA-CA for Wireless Sensor Network and IoTs, ICITE2018, IEEE	11-13 April 2018, Hyderabad
13	Dr.AlokNaugarhiya	A Novel Charge-Protection Superjunction-Insulator VDMOS,NTU	24-27 June 2017, Singapore.
14	Dr.AlokNaugarhiya	Key Note Speaker at AICON	21-22 April 2017, Electronics & Telecommunication Department of

			ChhatrapatiShivaji Institute of Technology
15	ANSHUL GUPTA	8th International Conference on Computing, Engineering and Information Technology (ICCEIT 2018).	19-20 March 2018, Bangkok, Thailand, 2018.

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/S elf Sponsored
1	National Conference on “VLSI, Communication & Computing (VCC 2017)”	Dr. S. Verma, Dr. A. S. Raghuvanshi, Dr. B. Acharya		09th December, 2017	TEQIP III
2	Short Term Training Program (STTP) on “Multimedia Security, Cryptocurrency and Forensics.”	Prof. Shrish Verma, Dr A S Raghuvanshi Dr. Toshanal Meenpal	1. Dr. Subhamo yMaitra, Professor (HAG), ISI Kolkata 2. Dr. Sugata Ga ngopadhyay a, Associate Professor, IIT Roorkee 3. Dr. Gautam Paul, Assistant Professor, ISI Kolkata 4. Dr. Sourav Sen Gupta,	30th Oct to 3rd Nov, 2017	TEQIP

			Assistant Professor, ISI Kolkata		
3	One week STTP on MACHINE LEARNING	Dr Rahul K Chaurasiya		28 Aug- 01 Sep, 2017	Self- Sponsore d
4	2 nd STTP on MACHINE LEARNING	Dr Rahul K Chaurasiya Dr A S Raghuvanshi		18-22 Dec 2017	TEQIP III

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Archi Sharma, Satish Gudala, Srinivasa Rao Ambati, Santhosh Penta, Shyama Prasad Mahapatra, Rajeswar Rao Vedula, Someshwar Pola, and Bibhudendra Acharya	Synthesis of Heterocyclic Compounds Catalyzed by Metal/Metal Oxide-Multiwall Carbon Nanotube Nanocomposites	Journal of the Chinese Chemical Society, 64, 6/589-606, 2017	
2.	Shradha Mohanty, Alkesha Shende, K Abhimanyu Kumar Patro, and Bibhudendra Acharya	A DNA based Chaotic Image Fusion Encryption Scheme using LEA–256 and SHA–256	Indian Journal of Scientific Research, 14, 2/190-201, 2017	
3.	K Abhimanyu Kumar Patro and Bibhudendra	Secure Multi-level Permutation	Journal of Information	

	Acharya	Operation based Multiple Colour Image Encryption	Security and Applications, 40, 111-133, 2018	
4.	Amit Verma, T. Meenpal, and Bibhudendra Acharya	Interrelationship Identification between Humans from Images using Two class Classifier	International Journal of Engineering and Technology, 7, 2.21/5-8, 2018	
5.	Zeesha Mishra and Bibhudendra Acharya	A Comprehensive Survey of High-definition Image and Video Techniques	International Conference for Academic Disciplines, May 2017, Harvard Medical School, Boston, Massachusetts	
6.	K Abhimanyu Kumar Patro, Ayushi Banerjee, and Bibhudendra Acharya	A Simple, Secure, and Time Efficient Multi-way Rotational Permutation and Diffusion based Image Encryption by Using Multiple 1-D Chaotic Maps	3rd International Conference on Next Generation Computing Technologies (NGCT-2017), 30th -31st October 2017, School of Computer Science & Engineering, UPES, Dehradun, India.	
7.	K Abhimanyu Kumar Patro and Bibhudendra Acharya	A simple, secure, and time-efficient bit-plane operated bit-level image encryption scheme using 1-d chaotic maps	International Conference on Energy, Materials and Information Technology (ICEMIT'17), 23rd-24th December 2017, Amity University, Ranchi.	
8.	Saikat Majumder, Shrish Verma, and Bibhudendra Acharya	Iterative Decoding of LDPC-RS Coded Multiple Description Image	International Conference on Energy, Materials and Information Technology (ICEMIT'17), 23rd-24th	

			December 2017, Amity University, Ranchi	
9.	K Abhimanyu Kumar Patro and Bibhudendra Acharya	A Multi-chaotic System based Pixel-levelled Colour Image Encryption	IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), 28th-29th January 2018, PEC, Vellore.	
10.	Vijay Kumar Sharma, Bibhudendra Acharya and K. K. Mahapatra	Online Training of Discriminative Parameter for Object Tracking-by-Detection in a Video	1st International Conference on Soft Computing in Data Analytics(SCDA-2018), 10th-11th March 2018, Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh, India.	
11.	Dasari Sravanthi, K Abhimanyu Kumar Patro, Bibhudendra Acharya , and Saikat Majumder	A Secure Chaotic Image Encryption based on Bit-plane Operation	1st International Conference on Soft Computing in Data Analytics(SCDA-2018), 10th-11th March 2018, Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh, India.	
12.	K Abhimanyu Kumar Patro and Bibhudendra Acharya	A Secure Multi-stage One-round Bit-plane Permutation Operation based Chaotic Image Encryption	3rd International Conference on Microelectronics, Computing & Communication Systems (MCCS-2018), 12th-13th	

			May 2018, BIT Mesra, Ranchi, India.	
13.	K Abhimanyu Kumar Patro, Bibhudendra Acharya , and Ajay Singh Raghuvanshi	A Parallel Bit-plane Operation based Chaotic Image Encryption Scheme	3rd International Conference on Microelectronics, Computing & Communication Systems (MCCS-2018), 12th-13th May 2018, BIT Mesra, Ranchi, India.	
14.	S. Panda and Bibhudendra Acharya	Electronic Applications of Conducting Polymer Nanocomposites	3rd International Conference on Microelectronics, Computing & Communication Systems (MCCS-2018), 12th-13th May 2018, BIT Mesra, Ranchi, India.	
15.	Zeesha Mishra, Gandu Ramu and Bibhudendra Acharya	High Speed Low Area VLSI Architecture for LEA Encryption Algorithm	3rd International Conference on Microelectronics, Computing & Communication Systems (MCCS-2018), 12th-13th May 2018, BIT Mesra, Ranchi, India.	

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1	S. Mohdiwale, T.P.	Detection and	6th	https://dl.acm.or

	Sahu, R.K. Chaurasiya, N.K. Nagwani, S. Verma	Classification of Noise Using Bark Domain Features	International Conference on Communications and Broadband Networking, pp.-18-21	g/citation.cfm?id=3193098
2	P. Singh, S. Verma	Automated Tool for Extraction of Software Fault Data	Advances in Data and Information Sciences. Lecture Notes in Networks and Systems, vol. 38, pp. 29-37	https://link.springer.com/chapter/10.1007/978-981-10-8360-0_3
3	S. Mohdiwale, T.P. Sahu, R.K. Chaurasiya, N.K. Nagwani, S. Verma	Abnormal activity detection in forest reserve using cumulative short time fourier transform features	International Conference on Intelligent Sustainable Systems (ICISS)	https://ieeexplore.ieee.org/abstract/document/8389259/
4	P. Nautiyal, A. Naugarhiya, S. Verma	Application of workfunction engineering in vertical superjunction devices	Superlattices and Microstructures, vol. 109, pp. 927-935	https://www.sciencedirect.com/science/article/pii/S0749603617310509
5	D.S. Sisodiya, S. Verma , O.P. Vyas	Augmented intuitive dissimilarity metric for clustering of web user sessions	<i>Journal of Information Science</i> ,	http://journals.sagepub.com/doi/abs/10.1177/0165551516648259
6	P Singh, NR Pal, S Verma , OP Vyas	Fuzzy Rule-Based Approach for Software Fault Prediction	<i>IEEE Transactions on Systems, Man, and Cybernetics:</i>	https://ieeexplore.ieee.org/abstract/document/7414476/

			<i>Systems</i>	
7.	S. Majumder, B. Acharya, T. Meenpal	Rateless distributed source-channel coding of correlated binary sources	Advances in Data & Information Sciences, pp-283	10.1007/978-981-13-0277-0_23
8.	D.Sarala, Tejas Kanikdal, Sharad Jogi, Rahul K. Chaurasiya	Content-Based Image Retrieval Using Hierarchical Color and Texture Similarity Calculation	International Journal of Advanced Trends in Computer Science and Engineering, Vol.-7, No.-2, Pp-11-16	http://www.warse.org/IJATCSE/static/pdf/file/ijatcse02722018.pdf
9.	Payal Nautiyal and Alok Naugarhiya	Application of workfunction engineering in vertical superjunction devices	Superlattices and Microstructures, 109, 927-935, 2017.	https://doi.org/10.1016/j.spmi.2017.06.024
10	Anshul Gupta and Ravi Kumar Gangwar	Dual-Band Circularly Polarized Aperture Coupled Rectangular Dielectric Resonator Antenna for Wireless Applications	IEEE Access, Vol. 6, 2018, pp. 11388-11396	10.1109/ACCESS.2018.2791417
11	Anshul Gupta and Ravi Kumar Gangwar	Dielectric Resonator Antenna Array For X-Band and Microwave Imaging applications	Microwave and Optical Technology Letters, Vol. 60, 2018, pp. 960-965	10.1002/mop.31081
12	Anshul Gupta and Ravi Kumar Gangwar	New Excitation scheme to Excite Higher-Order Radiating Modes in Rectangular Dielectric Resonator Antenna for Microwave Applications	Journal of Microwave Power and Electromagnetic Theory,	Accepted
13	Sweta Mahule and Anshul Gupta	Hybrid Cylindrical dielectric Resonator Antenna for Microwave	International Journal of Advanced	--

		Applications	Trends in Computer Science and Engineering, Vol. 7, 2018, pp. 17-19	
14	T. Meenpal.	DWT-based blind and robust watermarking using SPIHT algorithm with application in tele-medicine	Sadhana, vol. 43, no. 1, 2018.	https://link.springer.com/article/10.1007/s12046-017-0773-y
15	A. Verma, T. Meenpal, B. Acharya	Interrelationship identification between humans from images using two class classifier	International Journal of Engineering & Technology, vol. 7, pp.5-8, 2018	https://www.sciencepubco.com/index.php/ijet/article/view/11823
16	T. Meenpal, A. Goyal, A. Meenpal	Face recognition system based on principal components analysis and distance measures.	International Journal of Engineering & Technology, vol. 7, pp.15-19, 2018	https://www.sciencepubco.com/index.php/ijet/article/view/11826/
17	AartiGoyal, T. Meenpal	Kinship Verification from facial images using feature descriptors	Issue in Cognitive Informatics and Soft Computing, Advances in Intelligent Systems and Computing (AISC Series Springer), 2018.	

18	Niharika Yadav, AartiGoyal, T. Meenpal	A feature averaging method for Kinship Verification	issue in Cognitive Informatics and Soft Computing, Advances in Intelligent Systems and Computing (AISC Series Springer), 2018.	-
19	S. Mahata, S. K. Saha, R. Kar, D. Mandal	Optimal Design of IIR Digital FOI using IPSO	International Journal of Electronics Letters, Taylor & Francis , 6, 2, 181-191, 2018	https://doi.org/10.1080/21681724.2017.1335784
20	S. Mahata, S. K. Saha, R. Kar, D. Mandal,	Optimal Design of Wideband Fractional Order Digital Integrator using Symbiotic Organisms Search Algorithm	IET Circuits, Devices and Systems , 2018	DOI: 10.1049/iet -cds.2017.0162,
21	S. Mahata, S. K. Saha, R. Kar, D. Mandal,	Optimal design of fractional order low pass Butterworth filter with accurate magnitude response	Digital Signal Processing, Elsevier , vol. 72, pp. 96-114, 2018	
22	S. Mahata, S. K. Saha, R. Kar, D. Mandal	Artificial Raindrop Algorithm based design of wideband IIR Fractional Order Digital Integrators	Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Springer , 2017	doi: 10.1007/s40998- 017-0025-5,
23	S. Mahata, S. K. Saha, R. Kar, D. Mandal	Optimal design of wideband digital integrators and differentiators using harmony search	International Journal of Numerical Modelling: Electronic	

		algorithm	Networks, Devices and Fields, Wiley , vol. 30, no. 5, pp. 1-20, 2017	
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Books, monographs, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monograph/chapter)	Publisher	Author/Co-author
1.	Dr. Bibhudendra Acharya	A Novel Data Encryption Scheme by Using DNA Computing (Chapter)	CRC Press, Taylor & Francis Group	K Abhimanyu Kumar Patro and Bibhudendra Acharya
2.	Dr. Bibhudendra Acharya	A Secure Bit-plane Image Encryption by using Selection based 1-D Chaotic Maps (Chapter)	Nova Science Publishers, Inc., New York , USA.	Yash Kohli, Shaily Bhagwani, K Abhimanyu Kumar Patro and Bibhudendra Acharya
3.	Dr. Bibhudendra Acharya	Rateless Distributed Source-Channel Coding of Correlated Binary Sources using Raptor Codes (Chapter)	Springer	Saikat Majumder, Bibhudendra Acharya , and Toshanalal Meenpal
4.	Dr. Toshanalal Meenpal	An Introduction to Kinship Verification	Lambert Academic publishing	T. Meenpal, S. Verma, Aarti Goyal
5.	Dr. Toshanalal Meenpal	An Overview to Image Classification	Lambert Academic publishing	T. Meenpal, Amit Verma

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs)	Investigators (PI/Co-PI)
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				of Rs.)	
1.	SMDP C2SD Project (Ongoing)	2015-16 to 2018-19	MeitY, Govt. of India	96 Lakhs (Approx.)	Dr. S Verma (PI), Dr. B. Acharya (Co-PI)
2.	ISEA Phase-II Project (Ongoing)	2015-16 to 2018-19	MeitY, Govt. of India	36.06 Lakhs	Dr. B. Acharya (PI) , Dr. A. S. Raghuvanshi (Co-PI)
3.	Design and development of an Automatic Kinship Verification system for Indian faces with possible integration of AADHAR Database	2016-2019	SERB, Dept. of Science and Technology (DST), GoI.	25 Lacs	Dr.ToshanlalMeenpal
4.	Design of JPEG Anti-Forensics Scheme(s) for evaluation of existing JPEG forensic schemes	2016-2018	Ministry of Electronics & Information Technology, India	28 Lacs	Dr. T. K. Das &Dr.ToshanlalMeenpal
5	Detection of QRS complex of ECG signal using optimally designed pre-processor and its online monitoring	Four Years	SERB	29.32	Dr S K Saha

Awards/Any Other Achievements (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Details of the Award/Achievement	Date
1	Dr. A S Raghuvanshi	Received Certificate of Appreciation from Texas Instruments, for organizing DrishTI online contest for students here at NIT Raipur in the department. Conducted by Texas Instruments India University Program.	Between 1/8/2017 to 31/12/2017
2	Dr. A S Raghuvanshi	Member for Question paper setting and evaluation of IAS examination for Electrical	3 rd June 2017 till 7 th June

		Engineering held by UPSC, New Delhi	2017
3	Dr. A S Raghuvanshi	Member for Question paper setting of IES examination for Electronics and Telecommunication Engineering held by UPSC, New Delhi.	26 th July 2017 – 29 th July 2017
4	Dr. Bibhudendra Acharya	Best Research Paper Award in the 3 rd International Conference on Next Generation Computing Technologies. This Conference was Organized at School of Computer Science and Engineering, UPES, Dehradun, India on 30th -31st October, 2017. Reward money of 250 Euro (Gift Voucher) received from Springer for the best paper.	31st October, 2017
5	Dr. Bibhudendra Acharya	Best Research Paper Award in the International Technology Congress 2017. This conference was organized at Pune, India on 28th -29th December, 2017.	29th December, 2017
6	Dr. ToshanalMeenpal	Expert Member to review the feasibility and various aspects of developments of the project High Resolution MMW Seeker at Research CenterImarat, DRDO, Hyderabad.	22-02-2018
7	Dr. Rahul K. Chaurasiya	Recipient of Best Paper award in 8th International Conference on Computing, Engineering and Information Technology (ICCEIT 2018) organized in Bangkok, Thailand, 2018.	19 March 2018.

Institute-Industry Collaboration Ongoing/New (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member(s)	Collaborating Institute / Organization	Area of Collaboration	Collaboration Activities
1.	Dr. A S Raghuvanshi	Chhattisgarh Police department	Electronics Evidence Collection	Helped Chhattisgarh Police department in developing manual for Electronics Evidence Collection, Preservation and Analysis.

2.	Dr. A S Raghuvanshi	ACS Hyderabad	Joint Project at NIT Raipur under MOU	Development and installation of SMART Street light solution for smart Cities.

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES (HSS)

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1	Dr. Samir Bajpai	Professor & Head	PhD
2.	Dr. Jaya Dwivedi	Assistant Professor	PhD
3.	Dr. Anoop Kumar Tiwari	Assistant Professor	PhD
4.	Dr. Shashikanta Tarai	Assistant Professor	PhD
5.	Dr. Sandip Sarkar	Assistant Professor	PhD
6.	Dr. Moksha Singh	Assistant Professor	PhD
7	Dr. Y.Vijaya Babu	Assistant Professor	PhD
8.	Dr. Hina Chawda	Temporary faculty in Value Education and Psychological Counsellor	PhD
9.	Dr. Manju Shukla	Temporary Faculty	PhD
10.	Mr. Suraj Nishad	Teaching Assistant	MA

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Jaya Dwivedi	Dolly Sharma	Female Articulation in the Novels of Alice Walker & Bharti Mukherjee: A Comparative Study
		Rakhi Deshmukh	Ethical Wisdom in the Novels of Amish Tripathi
		Swarnita Sharma	Novels of Andrea Levy: An

			Existentialist Nightmare
2	Dr. Anoop Kumar Tiwari	Suparna Karkun	Exploring Jungian Archetypes In The Selected Short Stories of Alice Munro

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended (From 01-04-2017 to 31-03-2018) [National]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr. Shashikanta Tarai	A Course in Phonetics; NIT Raipur STTP On Campus to Corporate	10-10-2017; E-Hall NIT Raipur
		Basic English Grammar: Phrase Structure and Generative; NIT Raipur STTP On Campus to Corporate	11-10-2017; E-Hall NIT Raipur
2.	Dr. Hina Chawda (Attended)	Short term Courses/Special Lectures Attended – CONSCIOUSNESS DEVELOPMENT BASED VALUE EDUCATION	March 2018 Abhyodaya Sansthan Hapur, Delhi
	Dr. Hina Chawda	“Madhaysth Darshan Sahastitvadv” Ke Sandarbh Me Shiksha Ka Manviykarn Avm Muly Shiksha	Spiritual Intelligence And Mental Health: A New Paradigm In Teacher Education, S.T. Alosius’ College Jabalpur, M.P.

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

S.	Name of Faculty	Title of Oral/Poster Presentation	Dates and Venue
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No.	Title, Name of Event, Organizer		
1.	Dr. Shashikanta Tarai	Loanwords dominate equivalent native words in adaptation: A study of English loanwords and equivalent native words in Hindi; MAPLL-TCP; NINJAL	20th -24th July 2017; NINJAL, Japan
	Dr. Shashikanta Tarai	Costly Reproductions Block the Reward System of Language: A Study of Loanword Adaptation in Indic Languages; TTIKM, Sri Lanka.	20th-24th August, 2017; Taj Hotel; Sri Lanka
	Dr. Shashikanta Tarai	Sociophonetic Correlation of Acoustic and Perceptual Properties of Diphthongs in Indian English; ICALLT, 2018	7 th -10 th March, 2018; Zayed University, Dubai
2.	Dr. Sandip Sarkar	Title of the presentation: Shifting Paradigm of Classroom Teaching: A Perspective Name of the event: Applied Linguistics & Language Teaching	7 th -10 th March, 2018; Zayed University, Dubai
	Dr. Sandip Sarkar	Title of the presentation: Rhizomic Quest for an elusive place – home: A Study of Amitav Ghosh’s <i>The Shadow Lines</i> and Nirmal Verma’s <i>The Last Wilderness</i> Name of the event: International Conference on Narratives of Displacement- “Places of (Non-) Belonging: Post Colonialism, Nomadism and Alterity	University of London UK-28 th to 29 th October 2017
3.	Dr. Yeddu Vijaya Babu	Chaired a session and delivered keynote presentation and presented paper in the International Conference on “Metaphysical Realities from the Selected Poems of John Donne: An Overview” by ICAST-2017 International conference on Arts, Science and Technology	Dubai from 20 th -22 th December-2017 at Dubai, UAE
4.	Dr. Hina Chawda	“Madhaysth Darshan Sahastivvad” Adharit Chetna Vikash Muly Shiksha	December 2017 Jawaharlal Nehru University, New Delhi

		“Madhaysth Darshan Aadharit Muly Shikshah Se Manviy Chetna Ka Vikash”	April 2018 Madhav University, Abu road, Rajasthan.
5.	Dr. Manju Shukla	History and Introduction of Yoga	21-6-2017 at NITRR
6.	Mr. Suraj Nishad	Rhythmic performance of Yoga	21-6-2017 at NITRR
7.	Dr Anoop Kumar Tiwari	Identifying Charles Myers's Shell Shock in Virginia Woolf's Percival	May 2017, Harvard, Boston, Massachusetts

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	STTP on Personality and Employability: Developmental Traits and Tools	(Dr. Shashi Kanta Tarai) Convener	NIL	6th -10th November , 2017	TEQIP-III
2.	STTP on Academic Writing: Trends and Tools (Research and Thesis Development)	(Dr. Shashi Kanta Tarai) Convener	NIL	13 th -17 th November , 2017	Self-Financed
3.	National Conference on Humanities and Social Sciences: Emerging Trends and Issues	(Dr. Shashi Kanta Tarai) Secretary	Prof Manish Shrivastava	26 th November , 2017	TEQIP-III
4.	STTP on Enhancing Employability Skills: Connecting Campus with Corporate	(Dr. Shashi Kanta Tarai) Coordinator	NIL	9th – 13th December , 2017	Self-Financed
5.	Personality & Employability: Developmental Traits & Tools	Dr. Sandip Sarkar Dr. Suraj Kr. Mukti	NIL	6 th to 10 th November 2017	TEQIP-III
6.	Academic Writing: Trends & Tools (Research Writing & Thesis Development)	Dr. Anoop Kr. Tiwari Dr. Suraj Kr. Mukti	NIL	13 th to 17 th November 2017	Self Financed
7.	National Conference on Humanities & Social	Dr. Sandip Sarkar	Prof. Manish	26 th November	TEQIP-III

	Sciences: Emerging Trends & Issues	Dr. Shashikanta Tarai	Shrivastava	2017	
8.	One Week National Level STTP on “Technical Writing in Science Framework to Empower Quality Research.”	Dr. P.Y. Dhekne (Convenor) Dr. S.K. Satpathy (Coordinator) Dr. Yeddu Vijaya Babu (Coordinator)	NIL	December 5-9, 2017	NIT/ Self – Sponsored
9.	Consciousness Development Based Value Education (‘Current Education System And Human Values’)	Dr. Hina Chawda (Convener)	Dr. Hina Chawda	May 2017 10 Days	Self Sponsored
10.	Campus to Corporate STTP	Jaya Dwivedi	NIL	One Week	TEQIP
11.	STTP on Personality and Employability: Developmental Traits and Tools	Dr Anoop Kumar Tiwari	NIL	6th -10th November , 2017	TEQIP-III
	STTP on Academic Writing: Trends and Tools (Research and Thesis Development)	Dr Anoop Kumar Tiwari	NIL	13 th -17 th November , 2017	Self-Financed
	Advanced Manufacturing Processes And Metallurgical Characterization	Dr Anoop Kumar Tiwari	NIL	05/12/2017 to 9/12/2017	NITRR

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member’s name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
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1.	Manju Shukla	<i>Astang Yoga</i>	<i>Shodha Prakalp</i> , I, XXX, 48, 2278 – 3911 SEP 2017	http//shodha-prakalp.com
2.	Dolly Sharma & Jaya Dwivedi	Insights of Feminist Epistemology in some Selected Novels of Alice Walker	<i>Rupkatha Journal</i> Vol 9, Issue 1 May, 2017 ISSN 09752935	Scopus
	Swarnita Sharma , Jaya Dwivedi & Sheela Tiwari	Levy's Small Island Revolt Against Subjugation : Self - Revelation in Andrea	2017 ISSN 09733728 The IUP Journal of English Studies Vol. 12 , Issue 2 June	Scopus
	Rakhi Deshmukh & Jaya Dwivedi	Deconstructing Feminist Ethics in Amish Tripathi's Shiva Trilogy	The IUP Journal of English Studies Vol. 12, Issue 4 December 2017 ISSN 09733728	Scopus

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
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	BOLD}			
1.	Tarai, S. K.	Loanwords Dominate Equivalent Native Words in Adaptation: A Study of English Loanwords and Native Words in Hindi	IEICE Technical Report ; 117(149), 19-24, 2017 ISSN: 0913-5685	https://ci.nii.ac.jp/naid/40021285088/
		Perceptual Mechanisms for Replacing Old Words and Adapting New Words: Establishing a Cross-Talk between Word Replacement and Code-Switching. 4th International Conference Proceeding on Arts and Humanitie	ICOAH Proceeding, IITK Publication	DOI: 10.17501/icoah.2017.4101. iii
2.	Singh M & Jha M	The special status conundrum and the problem of rehabilitation in Jammu and Kashmir	<i>Mediterranean Journal of Social Sciences</i> 8(5): 73-83, 2017	DOI: 10.1515/mjss-2017-0025
3.	Kodanda Ramaiah , Divvela Surendra, Y.Vijaya Babu	Polygamy Victim in “So Long A Letter”	BODHI-International Journal of Research in Humanities, Arts and Science ISSN:2456-5571 Volume1,Special issue:1; page No:33-37 July 2017	http://www.bodhijournals.com/pdf/spl/december2017/Bodhi_V2S1.pdf
	Yeddu Vijaya Babu	Voicing against Caste and Discrimination: Musings from Telugu Dalit Literature in India	IUP journal of English Studies ISSN: 0973-3728 Volume: XII,No:3 September 2017	http://www.iupindia.in/english_studies.asp

Yeddu Vijaya Babu	Strategies to Develop Extempore skills among ESL students : An Overview	Indian Journal of Applied Research (IJAR)ISSN: 2249-555X Vol:7 , Issue:11 Page Nos:211-212 November 2017	Journal DOI : 10.15373/2249555X https://www.worldwidejournals.com/indian-journal-of-applied-research-(IJAR)/issues.php?m=April&y=2017&id=71
Yeddu Vijaya Babu	Metaphysical Realities from the Selected Poems of John Donne: An Overview	Special Issue Published in International Journal of Trend in Research and Development IJTRD ISSN: 2394-9333, www.ijtrd.com Proceedings of International Conference on Arts, Science & Technology, Dubai, 20-22 Page 72 December 2017	http://www.ijtrd.com/

Books, monograms, chapter's authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1.	Tarai, S. K	Phonology of Arabic, Portuguese, English Loanwords in Odia: A Constraint based Analysis	Lambert Academic Publishing, Mauritius	Tarai, S. K
	Tarai, S. K	Chapter 1 : The Evolution of English and Birth of Different Kinds of Englishes	Lambert Academic Publishing, Mauritius	Tiwari , A. K; Dhekne Y .P.
	Tarai, S. K	Chapter 2 Basic Elements	Lambert Academic	Tiwari , A. K;

		of Phonetics: Description and Classification of English Sounds	Publishing, Mauritius	Dhekne Y .P.
	Tarai, S. K	Chapter 3 Suprasegmental Features of English Words: Syllabic Stress, Accent and Rhythm	Lambert Academic Publishing, Mauritius	Tiwari , A. K; Dhekne Y .P.
2.	Dr. Sandip Sarkar	Book Title: Corporate Skills for Engineers Chapters: Basics of Communication Audience Analysis	Lambert	
3.	Singh M.	<i>Armed conflict and the orphans of Jammu and Kashmir</i> ISBN: 978-620-2-30338-5	Lambert Academic Publishing: Latvia	Singh M.
		Adaptability and Flexibility in the Workplace. In Tiwari AK, Dhekne PY, Tarai S (Ed.), <i>Corporate Skills for Engineers</i> (pp. 336-340). ISBN: 978-620-2-08018-7	Lambert Academic Publishing: Latvia	Singh M.
	Singh M.	Work Ethics – Establishing Credibility. In In Tiwari AK, Dhekne PY, Tarai S (Ed.), <i>Corporate Skills for Engineers</i> (341-347) ISBN: 978-620-2-08018-7	Lambert Academic Publishing: Latvia	Singh M.
4.	Yeddu Vijaya Babu	Resistance and Protest against Marginality: An Overview on Reformation and Ideology in Contemporary Literature in India	Postcolonial Literature Controversial Concepts of Silence and Violence JTS Publications- SBN:978-81- 35368-2-7, Delhi	Author
5.	Dr. Manju Shukla	Health, Hygiene & Yoga Complete Book 978-93-85538-31-5, 2017	Gyan Bharti Publication (<i>Prachya Vidya</i>) New Delhi National	2017
		<i>Kundlini Jagran Evam</i>	Gyan Bharti Publication	2017

		<i>Nad Tattva</i> Complete Book 978-93-85538-28-5 2017	(<i>Prachya Vidya</i>) New Delhi National	
		<i>Shikshan me Nav Vichar</i>	K.S.K.Publishers and Distributers, Dariyaganj Delhi National	<i>Mulya Chintan</i> Book Chapter Page No. 159
		Corporate skills for Engineers	Lap Lamberd Academic Publishing, Germany Inter National 2017	YOGA: HOLISTIC APPROACH Book Chapter IV 978-620-2-08018- Page No.261-294
6.	Dr. Jaya Dwivedi	Female Voices in the Novels of Alice Walker & Bharti Mukherjee	International 2017 Lambert Germany	Co-author
7.	Dr Anoop Kumar Tiwari	An Anthology Of The Novels Of F.Scott Fitzgerald	Lap Lambert Academic Publishing	
		Personality : Selfesteem	Lap Lambert Academic	
		The Listening Process	Lap Lambert Academic Publishing	
		The Interview Process	Corporate Skills For Engineers, Lap Lambert Academic Publishing	
		Meeting Skills	Corporate Skills For Engineers, Lap Lambert Academic Publishing	
		Lesson Of Personality: Our Great Leaders	Lap Lambert Academic Publishing	

Research and Consultancy Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/Ongoing/New)

Sr. No.	Title of the Project	Year	Funding agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
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1.	Innovative Approaches to Develop Communication Skills of Students of Govt. Boys Middle School , Nardaha, Arang, Raipur C.G	One year	SCERT	0.6	PI Dr. Jaya Dwivedi
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Awards/Any Other Achievements (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Details of the Award/Achievement	Date
1.	Dr. Manju Shukla Mr. Suraj Nishad Mrs. Manju Jha Mr. Lomash Chandrakar	Inter NIT Yoga competition (Agartala NIT under sports meet). Yoga competition	26 -30 Oct. 2017

Socially relevant activities

Sr. No.	Name of Faculty Member(s)	Activity		
1.	Dr. Hina Chawda	Author- School Book of Consciousness Development Based Value Education	Psychological Counsellor/ advisory	Short term Courses/Special Lectures Delivered (Consciousness Development Based Value Education)
2.	Dr. Manju Shukla Mr. Suraj Nishad Mrs. Manju Jha Mr. Lomash Chandrakar	Meditation Camp		21 May to 30 June 2017 (7:00 to 8:30 AM)
		Celebration of 3 rd International Day of Yoga		21 May to 30 June 2017 (4:00 to 5:30 PM) 21 st June 2017

DEPARTMENT OF INFORMATION TECHNOLOGY

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. Sudhakar Pandey	Assistant Professor & Head	PhD
2.	Dr. Satya Prakash Sahu	Assistant Professor	PhD
3.	Dr. Rakesh Tripathi	Assistant Professor	PhD
4.	Dr. Sanjay Kumar	Assistant Professor	PhD
5.	Dr. Tirath Prasad Sahu	Assistant Professor	PhD
6.	Dr. Mridu Sahu	Assistant Professor	PhD
7.	Dr. Pavan Kumar Mishra	Assistant Professor	PhD
8.	Dr. Rajesh Doriya	Assistant Professor	PhD
9.	Dr. Rekh Ram Janghel	Assistant Professor	PhD
10.	Dr. Govind Prasad Gupta	Assistant Professor	PhD

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor/s	Name of the Scholar	Title of the Thesis
1.	Dr. Sudhakar Pandey	Sanjay Kumar	An approach to design an efficient and optimal routing algorithm for vehicular delay tolerant network
2.	Dr. Sudhakar Pandey Dr. Sanjay Biswash	Pavan Kumar Mishra	The Analysis and Enhancement of Quality of Service for 5G Networks.
3.	Dr. Sudhakar Pandey	Veena Anand	An efficient approach to improve network lifetime by minimizing energy consumption in wireless sensor network.

M. Tech. Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Sudhakar Pandey	Ankur Singhai	Energy Aware Routing Protocol for Wireless Sensor Network

2.	Dr. Satya Prakash Sahu	Rahul Kumar	Automated Segmentation of Lungs and Nodule Detection in CT Image
3.	Dr. Satya Prakash Sahu	Jadav Gopal Singh	Adaptive Noise Cancellation of Images Using Local Mean Estimator
4.	Dr. Sanjay Kumar	Prasoon Shukla	Data Dissemination Using Social Based Attributes in Delay Tolerant Network
5.	Dr. Tirath Prasad Sahu	Sarang Khandekar	Sentiment Analysis of Reviews using Lexicon-based Approach
6.	Dr. Pavan Kumar Mishra	Amitesh Kumar	Resource allocation Scheme for Two-HOP D2D Communication For 5G Networks
7.	Dr. Rajesh Doriya	C. Nandhini	Cloud-based Secured Map Building Service for Robots
8.	Dr. Rekh Ram Janghel	Mangesh Kose	Electrocardiogram Signal Noise Cancellation Using Adaptive Filter
9.	Dr. Govind Prasad Gupta	Binit Saha	Multiple Mobile Sinks based Data Collection Protocol for Cluster-based Wireless Sensor Networks
10	Dr. Govind Prasad Gupta	Sonu Jha	Energy Efficient Compressive Data Gathering In Cluster Based Wireless Sensor Network
11.	Dr. Sarsij Tripathi	Ankit Agrawal	Particle Swarm Optimization Based On Adaptive Inertia Weight Strategies
12.	Dr. Manu Vardhan	Jayant Kumar Sisodiya	Workflow Scheduling Under Cloud Computing Environment
13.	Dr. Shrish Verma	Akansha Nayak	Dimensionality Reduction And Classification Of Motor Imagery Signal

			Using Wavelet And Auto regression Analysis
14.	Dr. Dilip Singh Sisodia	Upasana Verma	Study And Performance Evaluation Of Data Sampling Techniques On Class Imbalance Problem
15.	Dr. Rahul Kumar Chaurasiya	Sneha Agrawal	Automatic Traffic Sign Detection And Recognition Using Moment Invariants And Support Vector Machine
16.	Dr. Pradeep Singh	Prateek A. Meshram	Intelligent Density Based Clustering Algorithm

Achievement of outgoing students (PG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	T. Gautam (16265019)	M.B.A. I.I.M. Raipur
2.	Shourya Shukla(16265016)	Capgemini
3.	Ruchi Jain(16265014)	Infosys
4.	Patil Kalpak Adinath(16265010)	KESTE Software India Pvt. Ltd.
5.	Tulsi Sahu(16265020)	FIIT JEE
6.	Sneha Shukla(16265017)	Project Fellow In National Informatics Centre Raipur
7.	Anita Murmu (16265002)	Assistant Professor In ICFAI, C.G

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Bhoomika Gajpal (14118012)	Oracle India Pvt. Ltd.

2.	Divya Tiwari (14118020)	Oracle India Pvt. Ltd.
3.	Mayank Sharma (14118036)	Oracle India Pvt. Ltd.
4.	Siddharth Garg(14118071)	Power2SME
5.	Preeti Patel (14118050)	CA Technologies
6.	Bhaumik Katiyar (14118010)	CA Technologies
7.	T. Reswanth Sai (14118080)	CA Technologies
8.	Divya Sharma (14118019)	GE (Healthcare)
9.	Lanka Venkata Sai Vinay (14118033)	Mu-Sigma
10.	Yeruva Revathi (14118088)	Mu-Sigma
11.	Suyash Bajpai (14118076)	InfoEdge India Ltd.
12.	Yash Sharma (14118087)	InfoEdge India Ltd.
13.	Aditya Gangeley (14118004)	Deloitte Consulting
14.	Chitiprolu Jaya Durgambica (14118013)	Deloitte Consulting
15.	Jahanvi Khedwal (14118025)	Deloitte Consulting
16.	Md. Huzaif Wasim Qureshi (14118039)	Deloitte Consulting
17.	Tanya Agarwal(14118079)	Deloitte Consulting
18.	Sameer Tiwari(14118906)	Deloitte Consulting
19.	Nischal Patel(14118043)	Itron
20.	Shraddha Singh(14118068)	Itron
21.	Prateet Srivastava(14118049)	Optum Global Solution
22.	Jagriti Bajpai(14118024)	Optum Global Solution
23.	Prashant Agrawal(14118048)	Optum Global Solution
24.	S.N. Vamsi Bhargava Reddy(14118067)	Optum Global Solution
25.	Urja Pawar(14118082)	Optum Global Solution
26.	Rajat Surana(14118904)	Optum Global Solution
27.	Samridhi Gupta(14118908)	Optum Global Solution
28.	Aashray Jain(14118001)	Wipro Limited
29.	Aditi Gupta(14118003)	Wipro Limited
30.	Battula Divya Bhargavi(14118009)	Wipro Limited
31.	K Parimala(14118027)	Wipro Limited
32.	Kamta Prasad Sahu(14118029)	Wipro Limited
33.	Namrata Singh(14118040)	Wipro Limited
34.	Om Raj(14118045)	Wipro Limited
35.	Gaurav Sharma (14118023)	Wipro Limited
36.	Priyam Kumar(14118053)	Wipro Limited
37.	Aishwarya Arun Bhawe(14118006)	Capgemini
38.	Sanjay G(14118021)	Capgemini
39.	Rishi Kundu(14118061)	Capgemini
40.	Sushil Kumar Jain(14118074)	Capgemini
41.	V Ramya(14118083)	Capgemini

42.	Yash Bafna(14118910)	Capgemini
43.	Bhim Singh Verma(14118011)	Intellect Design Arena
44.	D. Mahathi Syamala(14118018)	Intellect Design Arena
45.	Komirishetty Meher Abhilash (14118032)	Intellect Design Arena
46.	Manikanta Mudara(14118034)	Intellect Design Arena
47.	Ravindra Ghritlahare(14118059)	Intellect Design Arena
48.	Sadineni Nikhila(14118066)	Intellect Design Arena
49.	Velamala Gowthami(14118084)	Intellect Design Arena
50.	Hemant Kumar Moolchandani (14118902)	Intellect Design Arena
51.	Sammeta Venkat(14118907)	Intellect Design Arena
52.	Vikram Sukhsagar Tiwari(14118909)	Intellect Design Arena
53.	Akash Kumar Verman (14118007)	Oracle Financial Serices
54.	Midhunlal P J(14118037)	Oracle Financial Serices
55.	Nuthalapati Yaswanthsai(14118044)	Virtusa India
56.	Rangudu Sai Koushik(14118057)	Virtusa India
57.	Ravi Kumar Singh(14118905)	Virtusa India
58.	Prince Kumar Gupta(14118052)	Infosys
59.	Gaurav Mahapatra(14118022)	Samsung R&D (Noida)
60.	Swapnil Agrawal(14118077)	Samsung R&D (Noida)
61.	Tushar Panpaliya(14118081)	Samsung R&D (Noida)
62.	Aishwarya Arun Bhave (14118006)	Samsung R&D (Noida)
63.	Kamta Prasad Sahu(14118029)	Samsung R&D (Delhi)
64.	Mayank Sharma(14118036)	Samsung R&D (Delhi)
65.	Rishi Kundu(14118061)	Samsung R&D (Delhi)
66.	Thummalapudi Reswanth Sai (14118080)	Samsung R&D (Delhi)
67.	Manu Gupta(14118035)	Cognizant
68.	Rohit Gajendra (14118064)	Cognizant
69.	Anshul Jhalani(14118901)	Cognizant
70.	Dega Bhargava Krishna(14118015)	Reliance Jio Infocomm
71.	Shweta Meshram(14118069)	PRADAN
72.	Aishwarya Shastry (13118003)	Got admission in MS programme at TU Delft, Netherlands
73.	Shreya Sharma (13118071)	Got admission in MS programme University of Massachusetts, Amherst
74.	Vyom Raj(13118901)	Got admission in MS programme Arizona State University, Tempe

75.	Pratik Sanjay Wagh (13118052)	Got admission in M.Tech in CSE, IIT Bombay
76.	Kuhu Gupta (13118033)	Got admission in MS in Computer Science programme ; Georgia Institute of Technology
77.	Tanishka Singh (14118078)	Got admission in MS programme Arizona State University, Tempe

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended (From 01-04-2017 to 31-03-2018) [National]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr. Satya Prakash Sahu	Delivered a Lecture on “Lung CT Image Processing” during STTP on “Medical Signal & Image Processing” organized by Department of Electrical Engineering, NIT Raipur	22-05-2017 to 27-05-2017, N.I.T. Raipur, India.
2.	Dr. Satya Prakash Sahu	Delivered a Lecture on “Introduction to Soft computing and Neural Network” during STTP on “Soft Computing Techniques & Robotics” organized by Department of Information Technology, NIT Raipur	04-09-2017 to 08-09-2017, N.I.T. Raipur, India.
3.	Dr. Tirath Prasad Sahu	Delivered a Lecture on “Naive Bayes Classification” during STTP on “Machine Learning” organized by Department of IT and Electronics, NIT Raipur	28-08-2017 to 01-09-2017, N.I.T. Raipur, India.
4.	Dr. Tirath Prasad Sahu	Delivered a Lecture on “MATLAB Plotting” during 5 th STTP on “Logic building using C and Matlab” organized by Department of IT and Electrical, NIT Raipur	12-09-2017 to 16-09-2017, N.I.T. Raipur, India.
5.	Dr. Tirath Prasad Sahu	Delivered a Lecture on “Multi-Label Classification” during STTP on “Machine Learning Tools and Techniques” organized by Department of CSE, NIT Raipur	10-11-2017 to 14-11-2017, N.I.T. Raipur, India.

6.	Dr. Tirath Prasad Sahu	Delivered a Lecture on “Probabilistic Classifier” during STTP on “Machine Learning” organized by Department of IT and Electronics, NIT Raipur	18-12-2017 to 22-12-2017, N.I.T. Raipur, India.
7.	Dr. Rajesh Doriya	Title: Introduction to robotics, advances in robotics, and simulation tools used in robotics; Name of the event: STTP on “Soft Computing Techniques & Robotics (SCTR-2017)”; Organizer: Prof. S. P. Sahu, Dr. Rekh Ram Janghel, Dr. Rajesh Doriya	04-09-2017 to 08-09-2017, N.I.T. Raipur, India.
8.	Dr. Rajesh Doriya	Title: Logic building of Numerical Methods using C; Name of the event: STTP on “Logic Building using C and MATLAB (LBCM-2017)”; Organizer: Dr. Rekh Ram Janghel, Dr. Rajesh Doriya	30-10-2017 to 03-11-2017, N.I.T. Raipur, India.
9.	Dr. Rajesh Doriya	Title: Cloud computing models, and cloud robotics; Name of the event: STTP on “Computational Intelligence and Cloud Computing (CICC-2017)”; Organizer: Dr. Rekh Ram Janghel, Dr. Rajesh Doriya	26-12-2017 to 30-12-2017, N.I.T. Raipur, India.
10.	Dr. Rajesh Doriya	Title: Cloud computing models, and cloud robotics; Name of the event: STTP on “Robotics & Computational Intelligence Techniques (RCIT-2018)”; Organizer: Prof. S. Sanyal, Dr. Rajesh Doriya	05-02-2018 to 09-02-2018 N.I.T. Raipur, India.
11.	Dr. Rekh Ram Janghel	Title: Introduction of Soft Computing and Deep Learning; Name of the event: STTP on “Soft Computing Techniques & Robotics (SCTR-2017)”; Organizer: Prof. S. P. Sahu, Dr. Rekh Ram Janghel, Dr. Rajesh Doriya	04-09-2017 to 08-09-2017, N.I.T. Raipur, India.

12.	Dr. Rekh Ram Janghel	Title: : Introduction of Computational Intelligence and Deep Learning; Name of the event: STTP on “Computational Intelligence and Cloud Computing (CICC-2017)”; Organizer: Dr. Rekh Ram Janghel, Dr. Rajesh Doriya	26-12-2017 to 30-12-2017, N.I.T. Raipur, India.
13.	Dr. Govind Prasad Gupta	” Improved Cuckoo Search based Clustering Protocol for Wireless Sensor Network”, 6 th International Conference on Smart Computing & Communications (ICSCC-2017), NIT, Kurukshetra	07-12-2017 to 08-12-2017, N.I.T. Kurukshetra, India.
14.	Dr. Govind Prasad Gupta	Delivered lectures on “PSO and Its application in node clustering” during STTP on “ Nature-inspired Computing and its Applications ”	23-10-2017 to 27-10-2017; N.I.T., Raipur, India
15.	Dr. Govind Prasad Gupta	Delivered lectures on “Pointers and Linked List with its applications” during STTP on “ Programming Fundamentals and its Application with C ”	15-11-2017 to 19-11-2017. N.I.T., Raipur, India
16.	Dr. Govind Prasad Gupta	Delivered lectures on “Apache Spark and application of MLlib machine learning library” during STTP on “ Big Data Analytics and related Technologies ”	8-01-2018 to 12-01-2018. N.I.T., Raipur, India.

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Dr. Satya Prakash Sahu	Participated in 2 nd International Summer School on Data Science, University of Zagreb, Croatia Split	25-09-2017 to 29-09-2017 University of Zagreb, Split, Croatia
2.	Dr. Satya Prakash Sahu	Lung Segmentation of CT Images using Fuzzy-c-means for the Detection of Cancer in Early Stages”, International Conference	17-11-2018 to 18-11-2018 Amarkantak, India

		on Data and Information Sciences (ICDIS – 2017)	
3.	Dr. Sanjay Kumar	Participated in 2 nd International Summer School on Data Science, University of Zagreb, Croatia Split	25-09-2017 to 29-09-2017 University of Zagreb, Split, Croatia
4.	Dr. Sanjay Kumar	Probabilistic Bundle Relaying Scheme in a Multi Hop Vehicular Delay Tolerant Network” at IEEE-ECCMC Conference	28-01-2018 to 29-01-2018 Vellore, India
5.	Dr. Sanjay Kumar	Improved Prophet Routing Algorithm For Opportunistic Networks” At ICDIS Conference,	17-11-2017 to 18-11-2017 Amarkantak, India
6.	Dr. Tirath Prasad Sahu	A paper is presented titled “Sentiment Analysis of Reviews using Lexicon-based Approach” in the International Conference on Inventive Intelligent Systems and Computing (ICIISC 2017)	06-04-2017 to 07-04-2017, India
7.	Dr. Tirath Prasad Sahu	A paper is presented titled “Abnormal Activity Detection in Forest Reservoir using Cumulative Short Time Fourier Transform Features” in the International Conference on Intelligent Sustainable Systems (ICISS 2017)	07-12-2017 to 08-12-2017, Palladam, India
8.	Dr. Tirath Prasad Sahu	A paper is presented titled “Detection and Classification of Noise using Bark Domain Features” in the International Conference on Communications and Broadband Networking (ICCBN 2018)	24-02-2018 to 26-02-2018, Singapore.
9.	Dr. Pavan kumar Mishra	Minimum Interference Based Resource Allocation Method in two-hop d2d Communication for 5G Cellular networks	07-12-2017 to 08-12-2017, Palladam, India
9.	Dr. Mridu Sahu	Feature Compression using PCA on Motor Imagery Classifications/ ICIoTCT Conference	26-03-2018 to 27-03-2018 M.N.I.T, Jaipur, India

10.	Dr. Mridu Sahu	Impact Of Feature Selection On EEG Based Motor Imagery ICTCS-2017,	16-12-2017 to 17- 12-2017 Udaipur, Rajasthan, India
11.	Dr. Pavan Kumar Mishra	A Survey On Device to- Device communication For 5G Networks, 25 th International Conference ECBA 2017	22-07-2017 to 23-07-2017 Hong Kong
12.	Dr. Rajesh Doriya	Development of A Cloud-Based RTAB-Map Service For Robots	14-07-2017 to 18-07-2017, Japan
13.	Dr. Rajesh Doriya	Towards Secured Cloud-Based Robotic Services	28-07-2017 to 29-07-2017 Coimbatore, India
14.	Dr. Rajesh Doriya	Study And Analysis Of Cloud-Based Robotics Framework	8-09-2017 to 9-09-2017 Mysore, India
15.	Dr. Rajesh Doriya	Cloud Robotics: A Brief Review	07-10-2017 Thailand
16.	Dr. Rajesh Doriya	Compendium Depiction On The Applications Of Cloud Robotics for The Reclamation of Mankind	17-11-2017 to 18-11-2017 Amarkantak, India
17.	Dr. Rajesh Doriya	Explication of Cloud Computing Platforms Concatenated with Robotics	11-01-2018 to 12-01-2018 Delhi, India
18.	Dr. Rekh Ram Janghel	Application of Adaptive Filter to Remove Different Noises from ECG Signals	11-12-2017 to 14-12-2017, Cambridge University, UK - United Kingdom.
19.	Dr. Rekh Ram Janghel	A Survey on Missing Information Strategies and Imputation Methods in Healthcare	11-01-2018 to 12-01-2018 Amity University

			Noida, India
20.	Dr. Rekh Ram Janghel	Image Denoising Techniques: A Brief Survey	07-02-2018 to 09-02-2018, BML Munjal University Gurgaon, India
21.	Dr. Rekh Ram Janghel	ECG Arrhythmia Classification Using Artificial Neural Networks	29-03-2018 to 30-03-2018, NITTTR, Chandigarh
22.	Dr. Govind P. Gupta	A paper is presented titled “Hybrid of Cuckoo and GA based metaheuristic algorithm for energy efficient cluster head selection in wireless sensor networks”, In the Proceeding of IEEE Conference on World Congress on Industrial Control Systems Security (WCICSS-2017), University of Cambridge, Churchill College, Cambridge, UK.	11-12-2017 to 14-12-2017 University of Cambridge, Churchill College, Cambridge, UK.

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	STTP on “Soft Computing Techniques & Robotics” organized by Department of Information Technology at NIT Raipur	Dr. Satya Prakash Sahu, Dr. Rajesh Doriya, Dr. Rekh Ram Janghel	No	04-09-2017 to 08-09-2017	Self Sponsored

2.	Deep Learning Techniques And Its Applications	Dr. Rakesh Tripathi, Dr.Dilip Singh Sisodia	DR Sunil Sahu, University of Manchester	28-09-2017 to 02-10-17	TEQIP
3.	Computational Intelligence In Engineering Applications	Dr. Rakesh Tripathi, Dr. M.K. Tripathi	Prof. O.P.Vyas, IIT Raipur Prof. Shubhrata Dutta, SRM University	03-10-2017 to 07-10-2017	Self Sponsored
4.	Web Designing And Hosting	Dr. Rakesh Tripathi, Dr. T. P. Sahu	No	23-10-17 to 27-10-2017	Self Sponsored
5.	Logic building using 'C' and Matlab	Dr. Rakesh Tripathi, Dr. Rajesh Doriya, Dr.Rekh Ram Janghel	No	30-10-17 to 04-11-2017	Self Sponsored
6.	STTP on "Machine Learning" organized by Department of Information Technology & Electronics at NIT Raipur , Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Pavan Kumar Mishra, Dr. Rahul Chourasiya	No	28-08-2017 to 01-09-2017	Self Sponsored

7.	STTP on “Logic Building Using C and MATLAB” organized by Department of Information Technology & Electrical Engineering at NIT Raipur , Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Sanjay Kumar, Dr. Satya Prakash Sahu, Dr. Swapnajit Pattnaik	No	12-09-2017 to 16-09-2017	Self Sponsored
8.	STTP on “Web Designing and Hosting” organized by Department of Information Technology at NIT Raipur, Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Sanjay Kumar, Dr. Rakesh Tripathi, Mr. Ravindra Chouhan	No	23-10-2017 to 27-10-2017	Self Sponsored
9.	STTP on “Logic Building Using C and MATLAB” organized by Department of Information Technology at NIT Raipur , Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Rajesh Doriya, Dr. Rekh Ram Janghel	No	30-10-2017 to 03-11-2017	Self Sponsored
10.	A National Conference on “Emerging Trends in Information Technology and Management” organized by Department of Information	Dr. Sanjay Kumar, Dr. Satya Prakash Sahu, Dr. Rakesh Tripathi and Dr. Tirath Prasad Sahu,	Dr. Sanjay Kumar (PRSU, Raipur)	12-12-2017	TEQIP-III

	Technology at NIT Raipur , Chhattisgarh, India. (National)				
11.	STTP on “Machine Learning” organized by Department of Information Technology & Electronics at NIT Raipur , Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Pavan Kumar Mishra, Dr. Rahul Chourasiya, Dr. Sudhakar Pandey	No	18-12-2017 to 22-12-2017	TEQIP-III
12.	STTP on “Computational Intelligence and Cloud Computing” organized by Department of Information Technology at NIT Raipur, Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Rajesh Doriya, Dr. Rekh Ram Janghel, Dr. Satya Prakash Sahu	No	26-12-2017 to 30-12-2017	TEQIP-III
13.	STTP on “Machine Learning” organized by Department of Information Technology & Electronics at NIT Raipur , Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Pavan Kumar Mishra, Dr. Rahul Chourasiya	No	28-08-2017 to 01-09-2017	Self Sponsored
14.	STTP on “Logic Building Using C and MATLAB” organized by	Dr. Tirath Prasad Sahu, Dr. Sanjay Kumar, Dr.	No	12-09-2017 to 16-09-2017	Self Sponsored

	Department of Information Technology & Electrical Engineering at NIT Raipur , Chhattisgarh, India. (National)	Satya Prakash Sahu, Dr. Swapnajit Pattnaik			
15.	STTP on “Web Designing and Hosting” organized by Department of Information Technology at NIT Raipur, Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Sanjay Kumar, Dr. Rakesh Tripathi, Mr. Ravindra Chouhan	No	23-10-2017 to 27-10-2017	Self Sponsored
16.	STTP on “Logic Building Using C and MATLAB” organized by Department of Information Technology at NIT Raipur , Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Rajesh Doriya, Dr. Rekh Ram Janghel	No	30-10-2017 to 03-11-2017	Self Sponsored
17.	A National Conference on “Emerging Trends in Information Technology and Management” organized by Department of Information Technology at NIT Raipur , Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Sanjay Kumar, Dr. Satya Prakash Sahu, Dr. Rakesh Tripathi	Dr. Sanjay Kumar (PRSU, Raipur)	12-12-2017	TEQIP-III

18.	STTP on “Machine Learning” organized by Department of Information Technology & Electronics at NIT Raipur , Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Pavan Kumar Mishra, Dr. Rahul Chourasiya, Dr. Sudhakar Pandey	No	18-12-2017 to 22-12-2017	TEQIP-III
19.	STTP on “Computational Intelligence and Cloud Computing” organized by Department of Information Technology at NIT Raipur, Chhattisgarh, India. (National)	Dr. Tirath Prasad Sahu, Dr. Rajesh Doriya, Dr. Rekh Ram Janghel, Dr. Satya Prakash Sahu	No	26-12-2017 to 30-12-2017	TEQIP-III
20.	One Week Short Term Training Program on “Programming Fundamentals and its Application”	Dr. Mridu Sahu Dr. Govind Gupta Dr. Binod Saw	No	15-11-2017 to 19-11-2017	Self – Sponsored (NIT Raipur)
21.	One Week Short Term Training Programming Nature Inspired Computing and its Applications	Dr. Mridu Sahu Dr. Govind P. Gupta	No	23-10-2017 to 27-10-2017	Self – Sponsored (NIT Raipur)
22.	STTP on “Logic Building using C and MATLAB (LBCM-2017)”;	Dr. Rekh Ram Janghel, Dr. Rajesh Doriya	No	30-10-2017 to 03-11-2017	Self-Sponsored
23.	STTP on “Computational Intelligence and Cloud Computing (CICC-	Dr. Rekh Ram Janghel, Dr. Rajesh Doriya	Mr. Shivandan Pujara	26-12-2017 to 30-12-2017	TEQIP-II Sponsored

	2017)”;				
24.	Nature-inspired Computing and its Applications	Dr. Govind P Gupta	Dr. S Ghosh, NIT, Raipur	23-10-2017 to 27-10-2017	Self-sponsored
25.	Programming Fundamentals and its Application with C	Dr. Govind P Gupta	Dr. N K Nagwani, NIT, Raipur	15-11-2017 to 19-11-2017	Self-sponsored
26.	Big Data Analytics and related Technologies	Dr. Govind P Gupta	Dr. Shyan Ranu, IIT, Delhi	8-01-2018 to 12-01-2018	TEQIP-III

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Ms. Sneha Shukla Dr. Mridu Sahu	A SURVEY ON INTRUSION DETECTION USING DATA MINING Proceeding in ETITM , NIT Raipur , IT Department 12th December 2017		

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five	Title of Paper	Name of the Journal Vol. No., Issue No. (if	DOI/Web link
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	authors write <i>et al.</i> and write the Faculty member's name in BOLD}		any)/Pg. No. , Year	
1.	Satya Prakash Sahu, Narendra D. Londhe and Shrish Verma	An Automated System for the Detection of Lung Cancer in CT data at Early Stages: Review	IJCTA, Volume : No.10 (2017) Issue No. :18 (2017) Pages : 133-144	http://serialsjournals.com/serialjournalmanager/pdf/1492847952.pdf
2.	Sahu Satya Prakash, Agrawal Priyanka, Londhe Narendra D, Verma Shrish	A New Hybrid Approach Using Fuzzy Clustering and Morphological Operations for Lung Segmentation in Thoracic CT Images	Biomed Pharmacol J 2017;10(4), PP – 1949-1961	http://biomedpharmajournal.org/?p=17589
3.	Samrudhi Mohdiwale, Tirath Prasad Sahu, Rahul Chourasia, Naresh Kumar Nagwani, and Shrish Verma	Abnormal Activity Detection in Forest Reservoir using Cumulative Short Time Fourier Transform Features	ICISS 2017	https://ieeexplore.ieee.org/abstract/document/8389259/
4.	Samrudhi Mohdiwale, Tirath Prasad Sahu, Rahul Chourasia, Naresh Kumar Nagwani, and Shrish Verma	Detection and Classification of Noise using Bark Domain Features	ICCBN 2018	https://dl.acm.org/citation.cfm?id=3193098
5.	Akanksha Nayak, Mridu Sahu, Shrish Verma, Vyom Raj	Dimensionality Reduction for Motor Imagery Signal Classification using Wavelet Analysis	IJCTA, Volume 10, Issue Number 14 (June 2017)	
6.	Monika singh, S.P. Mahapatra, Sudhir Nigam, Kuhu Gupta and Mridu Sahu	Prediction of Pollutant Oxide of Nitrogen Component in Delhi city using artificial neural network	IJCTA, Volume 10, Issue Number 19 (June 2017)	
7.	Aayush Agrawal, Piyush Bhardwaj, Vyom Raj , Dhirendra K. Sharma,	Development of Efficient Back off algorithm for multi hop AD HOC	IJCTA, Volume 10, Issue Number 13	

	Mridu Sahu	Network		
8.	Mridu Sahu, Saumya Vishwal, S. Usha, N.K. Nagwani, Shrish Verma	Applying Auto Regressive Model's Yule-Walker Approach on Amyotrophic Lateral Sclerosis (ALS) patients' Data	March 2018 Current Medical Imaging Reviews 14	DOI: 10.2174/1573405614666180322143503
9.	Mridu Sahu, Naresh K. Nagwani, Shrish Verma	Optimal Channel Selection on Electroencephalography (EEG) Device Data Using Feature Re-Ranking and Rough Set Theory on Eye State Classification Problem	February 2018, Journal of Medical Imaging and Health Informatics 8(2):214-222	DOI: 10.1166/jmihi.2018.2284
10.	Pavan Kumar Mishra, Sudhakar Pandey, Siba K Udgata, Sanjay Kumar Biswash	Device-centric resource allocation scheme for 5G networks	Physical Communication Volume 26, , Pages 175-184, 2018	https://doi.org/10.1016/j.phycom.2017.12.003
11.	Janghel, R. R., Shukla, A., Rathore, C. et al.	A comparison of soft computing models for Parkinson's disease diagnosis using voice and gait features	Network Modeling Analysis in Health Informatics and Bioinformatics Volume:6 Issue:1 Pages:14 Publisher Springer Vienna	https://doi.org/10.1007/s13721-017-0155-8
12.	Govind P Gupta,	"Biogeography-based	Springer	https://doi.org/1

	Sonu Jha	optimization scheme for solving the coverage and connected node placement problem for wireless sensor networks”,	Journal of Wireless Networks, 2018.	0.1007/s11276-018-1709-0
13.	Amanpreet Kaur, Padam Kumar, Govind P. Gupta	Nature Inspired Algorithm-Based Improved Variants of DV-Hop Algorithm for Randomly Deployed 2D and 3D Wireless Sensor Networks	Wireless Personal Communications, vol. 101 (1), pp. 567-582.	https://doi.org/10.1007/s11277-018-5704-7
14.	Govind P. Gupta, Sonu Jha	“Integrated clustering and routing protocol for Wireless Sensor Networks using Cuckoo and Harmony Search based metaheuristic techniques”	Engineering Applications of Artificial Intelligence, Elsevier, Volume 68, 2018, Pages 101-109, ISSN 0952-1976.	https://doi.org/10.1016/j.engappai.2017.11.003
15.	Govind P. Gupta, Manoj Misra, Kumkum Garg	“Towards scalable and load-balanced mobile agents-based data aggregation for wireless sensor networks,”	Journal of Computers & Electrical Engineering, Elsevier, Volume 64, Nov,2017, Pages 262-276, ISSN 0045-7906.	https://doi.org/10.1016/j.compeleceng.2017.10.020
16.	Amanpreet Kaur, Padam Kumar, Govind P. Gupta	“Analysis on DV-Hop Algorithm and its variants by considering threshold”	Journal of Telecommunication, Electronic and Computer Engineering	http://journal.utem.edu.my/index.php/jtec/article/view/1885

			(JTEC) Vol. 9 No. 4, pp. 79-83, Dec, 2017, ISSN: 2180-1843.	
17.	Amanpreet Kaur, Govind P. Gupta, Padam Kumar	“A Survey of Recent Developments in DV-Hop Localization Techniques for Wireless Sensor Network”	Journal of Telecommunication, Electronic and Computer Engineering (JTEC) Vol. 9 No. 2, pp. 61-71, June, 2017, ISSN: 2180-1843.	http://journal.utem.edu.my/index.php/jtec/article/view/1095

Books, monograms, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1.	Dr. Satya Prakash Sahu	Fundamental Techniques Of Soft Computing” Lambert Academic Publishing 978-620-2-19844-8	Lambert Academic Publishing 978-620-2-19844-8	Dr . Sanjay Kumar, Dr. Rakesh Tripathi
2.	Dr. Satya Prakash Sahu	Noise Cancellation in Images: Adaptive Filtering Approach	Lambert Academic Publishing Germany, 978-613-4-90634-0	Dr. Shrish Verma
3.	Dr. Satya Prakash Sahu	Communication Systems Using DSP: Assembly Language Programming	Lambert Academic Publishing Germany, 978-	Saikat Majumder, Rakesh Tripathi

			620-2-08239-6	
4.	Dr. Rakesh Tripathi	Essentials Of Computer Graphics	Lambert	Dr. Sanjay Kumar, Dr.Saikat Majumder
5.	Dr. Rakesh Tripathi	An Introduction To IOT Cognitive Radios	Lambert	Dr.Saikat Majumder, Dr.Ningrinl aMarchang
6.	Dr. Sanjay Kumar	Improved Routing Scheme For Vehicular Delay Tolerant Network	Research India Publication	Dr . Sanjay Kumar
7.	Dr. Sanjay Kumar	Essentials Of Computer Graphics	Lambert Academic Publishing 978-620-2-07306-6	Dr . Sanjay Kumar
8.	Dr. Mridu Sahu	CLASSIFICATION OF RICE GRAINS USING MORPHOLOGICAL FEATURES AND ANN (Complete Book) (15-11-2017)	LAMBERT ACADEMIC PUBLISHING	Sanjivani Shantaiya, Uzma Ansari
9.	Dr. Mridu Sahu	ANALYSIS OF EEG SIGNALS ON OVERT AND COVERT USING P300 SPELLER (Complete Book) (29-11-2017)	LAMBERT ACADEMIC PUBLISHING	Samya Vishwal, S. Usha Shrivalli
10.	Dr. Govind P.Gupta	Software-Defined Networking Paradigm in Wireless Sensor Networks	Published in the upcoming book, "Innovations in Software-Defined Networking and Network Functions Virtualization" I GI Global, 2018, Chapter 12. ISBN 13:	Govind P. Gupta

			9781522536406	
11.	Dr. Govind P. Gupta	“Security Issues and its Countermeasures in Examining the Cloud-Assisted Internet of Things”,	IGI Book entitled “ <i>Examining Cloud Computing Technologies Through the Internet of Things</i> ”, IGI Global, 2018,Chapter 5, ISBN 13: 9781522534457	Govind P. Gupta

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Development Of Framework For Web Based Intelligent Dictionary For Learning Chhattisgarhi Language	2015 to 2017	Chhattisgarh Council of Science and Technology	4,00,000.00	Co-PI
2.	Design and Development of Customized Welding Robot for Industrial Applications	18 months	Santa Industries Pvt. Ltd., Raipur	3.96 Lacs	PI: Dr. Amit Raj Singh; Co-PI: Dr. Rajesh Doriya

DEPARTMENT OF MATHEMATICS

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. Ramesh Prasad Pathak	Professor	PhD
2.	Dr. Arvind Kumar	Assistant Professor	Ph D
3.	Dr. Debasisha Mishra	Assistant Professor	Ph D
4.	Dr. Sujit Kumar Samanta	Assistant Professor	Ph D
5.	Dr. Sharada Nandan Raw	Assistant Professor	Ph D
6.	Dr. Madasu Krishna Prasad	Assistant Professor	Ph D
7.	Dr. Nilesh Kumar Thakur	Assistant Professor	Ph D
8.	Dr. Deepmala Sharma	Assistant Professor	Ph D
9.	Dr. Shiv Kumar Sahoo	Temp. Faculty	Ph D
10.	Dr. Pradeep Kundu	Temp. Faculty	PhD
11.	Dr. Arindam Kundu	Temp. Faculty	Ph D
12.	Mr. Dushyant Kumar Yadav	Temp. Faculty	MSc
13.	Miss. Supriyesh Kushwaha	Temp. Faculty	MSc

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Debasisha Mishra	Mr.Chinmay Kumar Giri	Matrix Splittings and its Connection With Non-Negative Generalized Inverses
2.	Dr. Sharada Nandan Raw	Mrs. Sapna Thakur	A Statistical and Fuzzy Logic Study for the Diagnosis of Thalassemia Disease: An Application to Chhattisgarh, India

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended (From 01-04-2017 to 31-03-2018) [National]

Sr. No.	Name of Faculty	Title of Oral/Poster	Dates and Venue
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		Presentation , Name of Event, Organizer	
1.	Dr. Madasu Krishna Prasad	Non-Newtonian Fluid Flow Past a Porous Sphere using Darcy's law International Conference of Numerical Heat Transfer and Fluid Flow	Jan 19-21, 2018. NIT Warangal, India

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended
(From 01-04-2017 to 31-03-2018) [International]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	G. Nath, M. Dutta, R. P. Pathak	Exact solutions of shock waves in non-ideal gas with magnetic field and radiation flux under the influence of gravitational field	International Conference on Advances in Mechanical, Industrial, Automation and Management Systems, IEEE Xplorer
2.	G. Nath, M. Dutta, R. P. Pathak	An exact solution for the flow behind a magnetogasdynamic shock wave in a self gravitating gas with variable density: Isothermal flow	International Conference on vibration problems (ICOVP 2017)
3.	Dr. Debasisha Mishra	Convergence Theory of Alternating Interactions for Square Singular Matrices IASSL International Conference 2017	28-29 December, 2017 TajSamudra hotel in Colombo, Sri Lanka

	Dr.Sujit Kumar Samanta	<p>Department of Mathematics and Statistics, University of Maryland Baltimore County (UMBC), USA,</p> <p>Department of Mathematics, Faculty of Engineering, University of Moratuwa, Sri Lanka and National Science Foundation of Sri Lanka.</p> <p>Computing stationary distributions of the D-MAP/D-MSP/$1/\infty$ queueing system</p> <p>IASSL International Conference 2017</p> <p>Department of Mathematics and Statistics, University of Maryland Baltimore County (UMBC), USA,</p> <p>Department of Mathematics, Faculty of Engineering, University of Moratuwa, Sri Lanka and National Science Foundation of Sri Lanka.</p>	<p>28-29 December, 2017</p> <p>TajSamudra hotel in Colombo, Sri Lanka</p>
4.	Dr. Sharada Nandan Raw	<p>Study of Chaotic Dynamics With Group Defense in a Predator-Prey System: A Mathematical Modeling Approach,</p>	<p>27 -28 August 2017</p> <p>Hong Kong</p>

		International Conference on Science, Technology and Management (ICSTM) The Institute of Research Engineers and Scientists, Hong Kong	
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Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	Application of Mathematics in Science and Engineering	Dr. R. P. Pathak Dr. A. K.Sinha Dr. D. Mishra Dr. N. K. Thakur Dr. D. Sharma	Dr. K. C. Siva Kumar, Professor, IIT Madras	01 day (21/01/2018)	TEQIP-III

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
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	BOLD}			
1.	S. Thakur S. N. Raw, A. Prakash et al.	Application of Fuzzy Logic for Presentation of an Expert Fuzzy System to Diagnose Thalassemia	International Journal of Computer Sciences and Engineering	www.ijcseonline.org
2.	S.N. Raw, P. Mishra, R. Kumar et al.	Complex behavior of prey- predator system exhibiting group defense: a mathematical modeling study	Chaos, Solitons And Fractals 100 (2017) 74–90	http://dx.doi.org/10.1016/j.chaos.2017.05.010

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	G. Nath, R. P. Pathak, M. Dutta	Similarity solutions for unsteady flow behind an exponential shock in a self-gravitating non-	Acta Astronautica Vol. No. 142, Page No. 152-	

		ideal gas with azimuthal magnetic field	161,2018	
2.	A. K. Sinha, P. Singh, A. Prakash, D. Pal, A. Dube and A. Kumar	Putative Drug and Vaccine Target Identification in <i>Leishmania donovani</i> Membrane Proteins using Naïve Bayes Probabilistic Classifier	IEEE/ACM Transactions on Computational Biology and Bioinformatics Vol. 14, No1, Page. 204-211, January/February 2017	
3.	Chinmay Kumar Giri, Debasisha Mishra	Comparison results for proper multisplittings of rectangular matrices	Advances in Operator Theory, Vol. 2, Issue 3, Pg. No. 334–352, 2017	https://doi.org/10.22034/aot.1701-1088
4.	Debasisha Mishra	Further study of alternating iterations for rectangular matrices	Linear and Multilinear Algebra, Vol. 65, Issue 8, Pg. No. 1566-1580, 2017	https://doi.org/10.1080/03081087.2016.1248344
5.	Chinmay Kumar Giri, Debasisha Mishra	Some comparison theorems for proper weak splittings of type II	The Journal of Analysis, Vol. 25, Issue 2 Pg. No. 267-279, 2017	https://doi.org/10.1007/s41478-017-0055-4
6.	S. Thakur S. N. Raw , A. Prakash et al.	Application of Fuzzy Logic for Presentation of an Expert Fuzzy System to Diagnose	International Journal of Computer Sciences and Engineering	www.ijcseonline.org

		Thalassemia		
7.	S.N. Raw , P. Mishra, R. Kumar et al.	Complex behavior of prey-predator system exhibiting group defense: a mathematical modeling study	Chaos, Solitons And Fractals 100 (2017) 74–90	http://dx.doi.org/10.1016/j.chaos.2017.05.010
8.	M. Krishna Prasad , G. Manpreet Kaur	Cell models for viscous fluid past a micropolar fluid spheroidal droplet	Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol.40 114, 2018.	https://doi.org/10.1007/s40430-018-1034-7
9.	M. Krishna Prasad , G. Manpreet Kaur	Rotational motion of micropolar fluid spheroid in concentric spheroidal container	Fluid Dynamics & Materials Processing, Vol. 13, Issue No. 2, Pg. No. 107-125, 2017.	http://www.techscience.com/doi/10.3970/fdmp.2017.013.107.pdf
10.	M. Krishna Prasad , G. Manpreet Kaur	Axisymmetric Stokes flow past a composite spheroidal shell of immiscible fluids	Eur. Phys. J. Plus, Vol. 132: 469, 2017	https://doi.org/10.1140/epjp/i2017-11744-9
11.	M. Krishna Prasad , G. Manpreet Kaur	Wall effects on viscous fluid spheroidal droplet in a micropolar fluidspheroidal cavity	European Journal of Mechanics / B Fluids, Vol. 65, Pg. No. 312-325, 2017.	https://doi.org/10.1016/j.euromechflu.2017.05.002
12.	M. Krishna Prasad , G. Manpreet Kaur	Rotary oscillations of a micropolar fluid sphere in a bounded medium	Applied and Computational Mechanics, Vol. 11, 2017.	DOI: 10.24132/acm.2017.336
13.	M. Krishna Prasad , G. Manpreet Kaur	Stokes flow of viscous fluid past a micropolar fluid spheroid	Advances in Applied Mathematics and Mechanics, Vol. 9, Issue No. 5, Pg. No.	https://doi.org/10.4208/aamm.2015.m1200

			1076-1093, 2017.	
14.	M. Krishna Prasad, D. Srinivasacharya	Micropolar fluid flow through a cylinder and a sphere embedded in a porous medium	International Journal of Fluid Mechanics, Vol. 44, Issue No. 3, pg. No. 229-240, 2017	DOI: 10.1615/InterJFluidMechRes.2017015283
15.	N. K. Thakur, R. Gupta.	Analysis of complex wetland ecological system: Effect of harvesting	Computational Ecology and Software 7 (4), 140-152, 2017.	
16.	Pradeep Kumar Singh, Vivek Kumar Yadav, Manmohit Kalia, Suhaga Dohare, Deepmala Sharma et al.	Pseudomonas aeruginosa auto inducer3-oxo-C12-HSL exerts bacteriostatic effect and inhibits Staphylococcus epidermidis biofilm	Microbial Pathogenesis, 110, 612-619, 2017	journal homepage: www.elsevier.com/locate/micpath
17.	Rashmeet Kaur and Deepmala Sharma	On Affine Non-Equivalence of Monomial Bi-quadratic Boolean Functions	International Journal of Applied Engineering Research 13 (6), 2018, 3461-3463.	

Books, monograms, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1.	Dr. Deepmala Sharma	Carboxymethyl Chitosan and It's Nanocarriers : Applications and Opportunities	ELSEVIER INC.	Nandita Sharma, Devendra Singh, Radha Rani, Deepmala Sharma, Himanshu

				Pandey and Vishnu Agarwal
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Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	A study of dual concepts in modules in algebra	3 years	CCOST Chhattisgarh	5.00 Lakhs	Dr. Arvind Kumar Sinha
2.	Matrix Splitting of Rectangular /Singular Matrices and its Application to System of Linear Equations.	1 st Dec 2015 to 30 th Nov 2018	CCOST Chhattisgarh	1.4lakhs	Dr. Debasisha Mishra PI
3.	Analysis of Matrix Splittings and its Application in Context of Alternating Iteration Scheme for Rectangular Liner Systems	15 th Jan 2016 to 14 th Jan 2019	SERB	14.86 lakhs	Dr. Debasisha Mishra PI
4.	Study of multisplittings of rectangular/singular matrices and its application in parallel solution of linear systems	1 st May 2017 to 30 th April 2020	CSIR	4 lakhs	Dr. Debasisha Mishra PI
5.	Analytical and computational studies of some queueing models with Markovian arrival process and/or Markovian service process	01-04-2017 to 31-03-2020	CSIR	15.9333 lakhs	Sujit Kumar Samanta PI
6.	Mathematical Modeling of	17/03/2018 to	DST-SERB	20.28565lakhs	Dr. Sharada Nandan Raw

	Ecological Systems: An Application to Biological Science	16/03/2021			PI
7.	Cell models for micropolar fluid past porous particles	1 st Dec 2015 to 30 th Nov 2018	CCOST Chhattisgarh	1.4lakhs	Dr. M. Krishna Prasad PI
8.	Modelling Pattern Formation in Spatial Aquatic Systems: Mathematical Models and Applications.	Dec., 2015- Nov. 2018	CCOST Chhattisgarh	01 lakh	Dr. N. K. Thakur

DEPARTMENT OF COMPUTER APPLICATIONS (MCA)

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Mr. Harendra Bikrol	Associate Professor & Head	MTech
2.	Dr. Mithilesh Atulkar	Associate Professor	PhD
3.	Dr.(Mrs.).Kesari Verma	Assistant Professor	PhD
4.	Dr.(Mrs.). Priyanka Tripathi	Assistant Professor	PhD
5.	Dr.Manju Pandey	Assistant Professor	PhD
6.	Dr.Mou Dasgupta	Assistant Professor	PhD
7.	Dr.Shyam Sundar	Assistant Professor	PhD
8.	Dr.Tanmoy Kanti Das	Assistant Professor	PhD
9.	Dr.Mitul Kumar Ahirwal	Assistant Professor	PhD
10.	Mr.Rajesh Singh Thakur	Temporary Faculty	MTech
11.	Mr.C.M. Anish	Teaching Assistant	MCA
12.	Mrs.Deepa Rungta	Teaching Assistant	MCA

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. (Mrs.) Kesari Verma & Dr. (Mrs.) Priyanka Tripathi	Deepak Agnihotri	Intelligent Text Analysis and Knowledge Engineering from Web Corpus

Achievement of outgoing students (PG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Roll No.	Name of the Student	Placed in (Designation in Job/Higher Education with details)
1.	15223009	AKHILESH KUMAR RAI	FICO
2.	15223010	ALKA RAGHUVANSHI	FICO
3.	15223057	PALLAVI OSTWAL	FICO
4.	15223063	PRATEEK GUPTA	Deloitte Consulting
5.	15223021	BHAWANA SHUKLA	Analytics Quotient
6.	15223012	ANIMESH	Intellect Design Arena
7.	15223019	ARUN MISHRA	Intellect Design Arena
8.	15223024	DEEKSHA	Intellect Design Arena
9.	15223031	DIVEEK KUMAR	Intellect Design Arena
10.	15223034	HIMANSHI NEEKHRA	Intellect Design Arena
11.	15223039	JITHIL JISHAD MT	Intellect Design Arena
12.	15223040	KANCHAN KUMARI	Intellect Design Arena
13.	15223042	KHUSHBOO	Intellect Design Arena
14.	15223043	KOMAL KUMARI	Intellect Design Arena
15.	15223045	KUMARI ANTRA	Intellect Design Arena
16.	15223061	PRAGYA	Intellect Design Arena
17.	15223062	PRAKHYA MISHRA	Intellect Design Arena
18.	15223067	RADHIKA DHAWAN	Intellect Design Arena
19.	15223068	RAKHI SAXENA	Intellect Design Arena
20.	15223071	RIYA KUMARI	Intellect Design Arena

21.	15223072	RUPALI SONI	Intellect Design Arena
22.	15223074	SHARMA SHUBHAM VINODKUMAR	Intellect Design Arena
23.	15223076	SHIVANSH AGRAWAL	Intellect Design Arena
24.	15223078	SHUBHRA THAKUR	Intellect Design Arena
25.	15223088	SURABHI GUPTA	Intellect Design Arena
26.	15223026	DEVENDER	Oracle Financial Serices
27.	15223022	BHUMIKA PANDEY	Infosys
28.	15223046	KUMARI SHRADHA SUMAN	Infosys
29.	15223083	SUGREEV SHARM	CloudRoute
30.	15223090	TAZEEN KHAN	Byju's (Think & Learn)
31.	15223037	SHRIKANT KURRE	Sjain Ventures
32.	15223005	ABHISHEK SINGH	Latitude Fintech
33.	15223032	GYAN PRAKASH	Latitude Fintech
34.	15223014	ANISH KUMAR	Palvaga Software Solutions Ltd.
35.	15223033	HAREVENDRA SIKARWAR	Palvaga Software Solutions Ltd.
36.	15223003	ABHISHEK KUMAR	PKF Proserv Pvt. Ltd.
37.	15223050	Md. SARFARAJ ALAM	PKF Proserv Pvt. Ltd.
38.	15223008	AJISHA P	PKF Proserv Pvt. Ltd.
39.	15223004	ABHISHEK OJHA	PKF Proserv Pvt. Ltd.
40.	15223087	SUNIL KUMAR MURMU	PKF Proserv Pvt. Ltd.
41.	15223079	SHYAM KRISHN DUBEY	Apcom Technology Pvt. Ltd.

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended
(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1	Dr.(Mrs.).Kesari Verma	Microwave Remote Sensing and Its Application	24-28 July, 2017 NIT Raipur
2	Dr.(Mrs.).Kesari Verma	Deep Learning for Visual Computing	16-20, December, 2017 IIT Kharagpur

3	Dr.Mitul Kumar Ahirwal	Research Trends and Fundamentals of EEG Signal Processing, Short Term Training Program on Medical Signal and Image Processing-II	22-27 May 2017 NIT Raipur
4	Dr.Mitul Kumar Ahirwal	Fundamentals of Genetic Algorithm, Short Term Training Program on Soft Computing Techniques & Robotics	04 - 08 Sep 2017 NIT Raipur

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended
(From 01-04-2017 to 31-03-2018) [International]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1	Dr.(Mrs.).Kesari Verma	Nature Inspired Computing and Its Applications Lecture Delivered-	23-27 Oct.2017, NIT Raipur
2	Dr.(Mrs.).Kesari Verma	Programming Fundamentals and its Applications with C Lecture Delivered-	15-19 Nov 2017, NIT Raipur
3	Dr.Mou Dasgupta	Performance Enhancement by Traffic Re-scheduling of Network Nodes, International Conference on Innovative Research in Engineering and Science (Oral presentation)	16-17 June 2017, Asian Institute of Technology, Thailand
4	Dr. Shyam Sundar	A Heuristic for the Bounded Diameter Minimum Spanning Tree Problem. 2nd International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI 2018),	24-25 March 2018, India International Congress on Computational Intelligence (IICCI) Phuket, Thailand

5	Dr. Shyam Sundar	A steady-state genetic algorithm for the tree t-spanner problem. 2nd International Conference on Soft Computing: Theories and Applications (SoCTA 2017), Springer	22-24 December 2017, Bundelkhand University Jhansi- India
6	Kavita Singh, Shyam Sundar	A heuristic for the degree-constrained minimum spanning tree problem. 2nd International Conference on Soft Computing: Theories and Applications (SoCTA 2017), Springer,	22-24 December 2017, Bundelkhand University Jhansi- India

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1	Computer Applications in Education & Research for Science & Technology: Developments and Prospects [CAERST-2017] (National Level)	Mr. Harendra Bikrol (Organizing Secretary)	-	16 -17 January 2018	Self Sponsored
2	Big Data Processing using Hadoop: Implementation, Usage and Applications	Dr. Mithilesh Atulkar Dr. Sanjay Kumar Dr. Pradeep Singh	-	09-13 December 2017	Self Sponsored
3	Advanced Computational Techniques in the Field of Mining Engineering	Dr.Manju Pandey, Dr.Mou	-	13- 18 November 2017	Self Sponsored

		Dasgupta, Dr. Ravi K.Jade			
4	Multimedia Security, Cryptocurrency and Forensics (National Level)	T. Meenpal, T.K. Das, S. Verma H. Bikrol	S. Maitra	30 Oct. – 3 Nov. 2017	TEQIP
5	Medical Signal and Image Processing-II (National Level)	Dr. Mitul Kumar Ahirwal, Dr. Narendra D. Londhe Harendra Bikrol Dr. Subhojit Ghosh	Dr. Narendra K. Bodhey (AIIMS Raipur),	22-27 May 2017	Self Sponsored

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write et al. and write the Faculty member's name in BOLD }	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1	Agnihotri, D., Verma, K., Tripathi, P., & Choudhary, N. (2018).	A Review of Techniques to Determine the Optimal Word Score in Text Classification.	Ambient Communications and Computer Systems (pp. 497-507). Springer, Singapore.	DOI https://doi.org/10.1007/978-981-10-7386-1_43
2	Singh, B. K., Verma, K., Panigrahi, L., & Thoke, A. S. (2017).	Integrating radiologist feedback with computer aided diagnostic systems for breast cancer risk prediction in ultrasonic images.	Expert Systems with Applications: An International Journal, 90(C) , 209-223.	https://doi.org/10.1016/j.eswa.2017.08.020
3	Panigrahi, S., Verma, K., & Tripathi, P.	Data mining algorithms for land cover change	Sādhanā 42 (12), 2081-2097	https://doi.org/10.1007/s12046-017-0751-4

		detection: a review.		
4	D Agnihotri, K Verma, P Tripathi.	Variable Global Feature Selection Scheme for Automatic Classification of Text Documents	Expert Systems with Applications 81, 268-281	https://doi.org/10.1016/j.eswa.2017.03.057
5	M.Pandey, R.Jade	Scalable Hyperspace Partitioning Based Data Pre-processing	International Journal of Applied Engineering Research ISSN 0973-4567 Volume 12 Number 12 (2017) pp. 3487-3490	https://www.ripublication.com/ijaer17/ijaerv12n12_71.pdf
6	Akshay Hinduja, M. Pandey, “ ”,	Multicriteria Recommender System for Life Insurance Plans based on Utility Theory	International Journal of Science and Technology “, Vol.10 Issue 14, April 2017	http://www.indjst.org/index.php/indjst/article/view/111376
7	Rashmi Shrivastava, M. Pandey	Human Activity Recognition by Analysis of Skeleton Joint Position in Internet of Things(IoT) Environment		http://www.indjst.org/index.php/indjst/article/view/112362
8	Kavita Singh, Shyam Sundar	Artificial Bee Colony Algorithm using Problem-Specific Neighborhood Strategies for the Tree t-Spanner Problem	Applied Soft Computing, Elsevier Vol. No.- 62, Pg. No.- 110-118, year - 2017	https://www.sciencedirect.com/science/article/pii/S1568494617306270
9	Kavita Singh, Shyam Sundar	Two New Heuristics for the Dominating Tree Problem	Applied Intelligence, Springer-Verlag Vol. No.- 48, Pg. No.- 2247–2267, year - 2017	https://link.springer.com/article/10.1007/s10489-017-1075-0

10	Kavita Singh, Shyam Sundar	A Heuristic for the Bounded Diameter Minimum Spanning Tree Problem.	2nd International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI 2018),	In Press
11	Sachchida Nand Chaurasia, Shyam Sundar, Donghwi Jung, Ho Min Lee, Joong Hoon Kim	An evolutionary algorithm based hyper-heuristic for the job-shop scheduling problem with no-wait constraint,	4 th International Conference on Harmony Search, Soft Computing and Applications (ICHSA 2018), 07-09 February 2018, BML Munjal University, Gurgaon, India	https://link.springer.com/chapter/10.1007/978-981-13-0761-4_25
12	André Rossi, Alok Singh, Shyam Sundar	Properties and Exact Solution Approaches for the Minimum Cost Dominating Tree Problem,	14th International Conference on Distributed Computing and Internet Technology (ICDCIT-2018), Bhubneswar, 11-13 January 2018, LNCS 10722, pp. 3-26, Springer-	https://link.springer.com/chapter/10.1007/978-3-319-72344-0_1

			Verlag	
13	Shyam Sundar	A Steady-State Genetic Algorithm for the Tree T-Spanner Problem.	2nd International Conference on Soft Computing: Theories and Applications (SoCTA 2017), Springer, 22-24 December 2017, Jhansi-India	In Press
14	Kavita Singh, Shyam S undar	A Heuristic for the Degree-Constrained Minimum Spanning Tree Problem.	2 nd International Conference on Soft Computing: Theories and Applications (SoCTA2017) , Springer, 22-24 December 2017, Jhansi-India	In Press
15	Kavita Singh, Shyam Sundar	A New Heuristic for Degree-Constrained Minimum Spanning Tree Problem.	International Conference on Computational Intelligence: Theories, Applications and Future Directions (ICCI 2017), Springer, 6-8 December 2017, IIT Kanpur- India	https://link.springer.com/chapter/10.1007/978-981-13-1132-1_12
16	Manisha Israni, Shyam Sundar	Ant Colony Optimization Approaches for the Tree T -Spanner Problem.	9 th International Joint Conference on Computational Intelligence(IJ	http://www.scitepress.org/Papers/2017/64900/64900.pdf

			CCI 2017), SCITEPRESS pages 200-206, 1-3 November 2017, Funchal , Madeira-Portugal	
17	Mitul Kumar Ahirwal, Mangesh Ramaji Kose	Emotion Recognition System based on EEG signal: A Comparative Study of Different Features and Classifiers	International Conference on Computing Methodologies and Communication (ICCMC 2018), Erode, India, pp. xx-xx, 15-16 Feb 2018	In Press
18	Mitul Kumar Ahirwal, Anil Kumar, Grirish Kumar Singh	An Approach to Design Self Assisted CBIR System	ACM International Conference on Graphics and Signal Processing, Singapore, pp. 21-25, 24-27 June, 2017	10.1145/3121360.3121378
19	Mitul Kumar Ahirwal, Anil Kumar, Grirish Kumar Singh	A Concept of Sub-bands Event Related Potentials to increase Classes of Brain Computer Interface System	International Journal of Bioinformatics Research and Applications, Accepted on Feb 2018	In Press
20	Mangesh Ramaji Kose, Mitul Kumar Ahirwal, Rekh Ram Janghel	Descendant Adaptive Filter to Remove Different Noises from ECG Signals	International Journal of Biomedical Engineering and Technology,	In Press

			Accepted on Oct 2017	
21	Mitul Kumar Ahirwal, Anil Kumar, Girish Kumar Singh, Narendra D. Londhe	Performance Prediction of Adaptive Filters for EEG Signal	IET Science, Measurement & Technology, Vol. 11 (5), 27 July 2017, pp. 525-531.	10.1049/iet- smt.2016.0254

Books, monograms, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1	Dr. Mithilesh Atulkar	Unix Parivesh Ka Aadhar (Book) ISBN: 978-1-5457-1171-2	Educreations, New Delhi, 2017	Dr. Mithilesh Atulkar , Dr. Mitul Kumar Ahirwal
2	M. Pandey	Internet of Things Technology: A New Automation Backbone ISBN:978-1-5342-0368-6	Glasstree Academic Publishing 97, 2017	M.Das, R.Jade
3	M. Pandey	Conventional and Fuzzy Analytic Hierarchy Process. "A Complete Book", ISBN: 978-1-5342-0369-3	Glasstree Academic Publishing, 2017	-
4	Dr. Mitul Kumar Ahirwal	Basics of UNIX Environment (Book) ISBN: 978-1-5457-0913-9	Educreations, New Delhi, 2017	Dr. Mitul Kumar Ahirwal, Dr. Mithilesh Atulkar

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Analyzing the Effect of Meditation with and without Music on Autonomous Nervous System	2018-2020	SERB	20.00	Mithilesh Atulkar
2.	Cloud Enabled Connected Sensors based Irrigation Monitoring and Control System	2018-2021	KAJSSVS	0.50	Manju Pandey
3.	Cloud Enabled SMS/GPRS based Monitoring of Environmental Sensors	2018-2021	KAJSSVS	0.50	Manju Pandey
4.	Cloud Enabled Connected Sensors based Weather Monitoring and Prediction System	2018-2021	KAJSSVS	0.50	Manju Pandey
5.	Metaheuristic Techniques for NP-Hard Spanning Tree Problems	2016 -2019	SERB-DST	15.06	Shyam Sundar
6.	Design Of JPEG Anti-Forensics Scheme(S) for Evaluation of Existing JPEG Forensic Schemes.	2017 -2019	MeitY	26.4	T.K. Das
7.	Development of Computational Model for Decision Making based on Emotion Recognition through EEG Signals	2017-2019	SERB, DST, New Delhi	11.5	Dr. Mitul Kumar Ahirwal

8.	Development of Efficient Devanagari Script Input Based P300 Speller System for Brain-Computer Interface	2016-2019	CSRI, DST, New Delhi	27	Dr. Narendra D. Londhe (PI), Dr. Rahul Chourasiya (Co-PI), Dr. Mitul Kumar Ahirwal (Co-PI), Dr. Subhajit Ghosh (Co-PI),
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DEPARTMENT OF MECHANICAL ENGINEERING

Department of Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. A. M. Rawani	Professor & Director	PhD
2.	Dr. S. Sanyal	Professor & Dean (R&C)	PhD
3.	Dr.(Miss) S. L. Sinha	Professor	PhD
4.	Dr. R. Salhotra	Professor	PhD
5.	Dr. S. D. Patle	Professor	PhD
6.	Dr. S. P. S. Matharu	Professor	PhD
7.	Dr. A. K. Tiwari	Professor	PhD
8.	Dr. R. K. Yadav	Associate Professor	PhD
9.	Prof. G. K. Sahu	Assistant Professor	MTech
10.	Dr. S.K. Dewangan	Assistant Professor	PhD
11.	Dr.Nitin Jain	Assistant Professor	PhD
12.	Dr. S. K. Mukti	Assistant Professor	PhD
13.	Dr. V. K. Gaba	Assistant Professor	PhD
14.	Dr. S. Bhowmick	Assistant Professor	PhD
15.	Dr.Amit Raj Singh	Assistant Professor	PhD
16.	Dr. G. Srinivasu	Assistant Professor	PhD
17.	Dr. H. K. Narang	Assistant Professor	PhD
18.	Dr. Nisha Netam	Assistant Professor	PhD
19.	Dr. S. Bhattacharya	Assistant Professor	PhD
20.	Dr.R.K.Sahu	Assistant Professor	PhD
21.	Dr.Mridul Singh Rajput	Assistant Professor	PhD

22	Dr.R. S. Kumar	Assistant Professor	PhD
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Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor		Name of the Scholar	Title of the Thesis
1.	Dr. Shubhashis Sanyal	Mr . Arvind Kumar Shukla		A Novel Method for Identification of Structural Characteristics of Planar Kinematic Chains.
2.	Dr. Shubhashis Sanyal	Mr. Shailendra Singh		Kineto-Elastodynamic Analysis of Polymeric Composite Planar Mechanism Under Hydrothermal Environment.
3.	Dr. Shubhashis Sanyal and Dr. S. Bhowmick (Co Supervisor)	Mrs. Nisha Netam (submitted)		Investigation of Thermal Performance of Low Income Group Houses in Chhattisgarh.
4.	Dr (Ms) S L Sinha Dr D K Chandraker (BARC)		Mr Shashi Kant Verma	Numerical and Experimental Investigation of Effect of Spacer Grid on Thermal and Hydraulic Aspects of Nuclear Fuel Bundle (Thesis submitted on March 25, 2018).
5.	Dr (Ms) S L Sinha, Dr A R Singh and Dr. T N Verma		Mr. Arvind Kumar Sahu	Numerical Simulation of Airflow in Intensive Care Unit of Hospital (Thesis submitted on March 1, 2018).
6.	Dr (Ms) S L Sinha		Mrs. Yogita Weikey	Effect of Natural Gums on Rheology of Water- Based Drilling fluids: An Experimental Study (Synopsis of Thesis submitted on May 2, 2018).
7.	Dr. S. P. S. Matharu		Ritesh Kumar Dewangan	Mathematical Modeling of Rolling Element Bearing with Elliptical Contact Area (Awarded in Aug. 2017)
8.	Dr. Nitin Kumar Jain		Ankur Gupta (Pre-Synopsis Seminar is completed.)	Analytical Modeling for Vibration and Buckling Analysis of Cracked Micro Plates using Modified Couple Stress Theory
9.	Dr. Shubhashish Sanyal and Dr.		Dr. Nisha	Investigation of Thermal

	Shubhankar Bhowmick	Netam	Performance of Low Income Group Houses in Chhattisgarh, (Awarded)
10	Dr. Amit Keshav and Dr. Shubhankar Bhowmick	Anurag Tiwari	Intensification of esterification reaction by coupling with pervaporation, (Submitted)

M.Tech Thesis Completed Only (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. A.M. Rawani	Ajit Kumar Singh	Prioritization of NBA quality parameter as per student's need using QFD
2	Dr. A.M. Rawani	Monica Shukla	Usage of social networking sites as pedagogy re-engineering tool in technical HEIs of Chhattisgarh
3	Dr. Shubhashis Sanyal and Dr. Rajan Suresh	Manoj Kumar Thapa (Machine Design)	Vibration Analysis of Smart Laminated Fuzzy Fiber Reinforced Composite Sandwich Plate
4	Dr. Shubhashis Sanyal and Dr. Arindam Bit (Co-Supervisor)	Ritu Painkara (Machine Design)	Stress analysis of Proximal Femur Bone by CT based data with Anisotropic Material Property
5	Nisha Netam and Dr. S. Sanyal	Tikeshwar Kumar Sahu (Thermal Engg.)	Comparative Advantage of Louver Shading Device on Window for Residential Buildings Located at Raipur
6	Dr. S. P. S. Matharu	Awanish Dubey (15231002)	“Wear Prevention characteristic of binary lubricating oil mixture”
7	Dr. S. P. S. Matharu	Harikesh Vishvakarma (15231004)	“Frictional and wear characteristics in sliding contact for nonferrous metal”
8	Dr. S. P. S. Matharu	Jagdish Prasad Soni (15231005)	Analytical elastohydrodynamic (EHD) lubricant film thickness for ball bearings 6008, 6208 and 6408 based on Hertz's contact theory
9	Anil Kumar Tiwari	Sudhanshu Thawait	<i>Techno-Economic Analysis Of Roof Integrated Water Solar Collector For Domestic Heating And Cooling; Suitable For A Junior Mig-2 (House)</i>
10	Anil Kumar Tiwari	Nishant	<i>Techno –Economic Analysis Of A Regenerative</i>

		Shukla	<i>Indirect Evaporative Cooling System For Domestic Cooling</i>
11	Anil Kumar Tiwari	Prakash Sahu	<i>Techno–Economic Analysis Of Double Glazing Unit Filled With Different Phase Changing Material For Thermal Comfort Condition</i>
12	Anil Kumar Tiwari	Shweta Shukla	<i>Life Cycle Assessment based nn Exergo Environmental and Exergo Enviro Economic Analysis of a Solar Thermal Collector.</i>
13	Dr. Nitin Kumar Jain	Amit Ghosh	Reduction of stress concentration factor in square isotropic plates with central circular hole subjected to transverse static loading
14	Dr. Satish Kumar Dewangan	Mr. Bhanu Pratap	Parametric analysis of the non-reacting and reacting fuel jet
15	Dr. Vivek Gaba and Dr. Shubhankar Bhowmick	Tarakant Bhanu	Performance of functionally graded power profile annular fins of constant weight
16	Dr. Vivek Gaba and Dr. Shubhankar Bhowmick	Palash Soni	Thermal analysis of adsorption refrigeration system using Silicagel-Methanol pair
17	Dr. Vivek Gaba and Dr. Shubhankar Bhowmick	Ritesh Matlani	Design and experimental analysis of a mobile wind power generation system
18	Dr. Suraj Kumar Mukti	Rakshit Kumar Singh	Optimization of Process Parameters in CNC End Milling Machine of AL 7068 Aluminium Alloy Using Taguchi-Fuzzy Approach
19	Dr. Suraj Kumar Mukti	Satyendra Prakash Suryawanshi	Identification and Prioritization of Criteria to Allocate Government Scheme: A Case Study
20	V. K. Gaba & S. Bhowmick	Palsh Soni	Designing of Thermal Compressor Chamber for An Adsorption Refrigeration Cycle System working on Silica-gel- Methanol Pair
21	V. K. Gaba & S. Bhowmick	Ritesh Matlani	Design and Experimental Analysis of a Mobile Wind Power Generation System
22	V. K. Gaba & S. Bhowmick	Tarakant Bhanu	Performance of Constant Weight Functionally Graded Annular Fins of Varying Thickness
23	Dr. A. R. Singh	Yadav Vinay Surendra	Design of Sustainable Supply Chain Network in Omnichannel Environment

24	Dr. Srinivasu Gangi Setti Dr. Amit Bhattacharjee (Scientist G, DMRL Hyderabad)	Rohit Kumar Singh	Experimental Investigation and Modelling of formability studies on beta titanium alloy for aero space applications
25	Dr. Srinivasu Gangi Setti Dr. T K Nandy (Scientist H, DMRL Hyderabad)	Janardan Deshmukh	Effect of Termomehcanical Processing on Mechanical Properties of Tunsten Heavy Alloy and Simulation of tensile Behaviour
26	Nisha Netam, S Sanyal	Tikeshwar Kumar Sahu	Comparative Advantage of Louver Shading Device on Window for Residential Buildings Located at Raipur
27	Nisha Netam	Prateek Kumar Sahu	Estimation of Effective Thermal Conductivity of Two Phase Material for Hollow Square and Hollow Circular Cylinder Model
28	Dr. H. Narang	Poornesh Kumar Chaturvedi	Experimentation and Optimization of “MRR and Surface Roughness During Turning of Almg3 (AA5754) in CNC Lathe by Using Taguchi Method”
29	S. Bhattacharya And K. Sharma	Sachin Bhatt	Xfem Simulation Of Linear Elastic And Elastic Plastic Fracture Mechanics Problems In A Rectangular Domain
30	Dr. R. K Sahu	Manoj Kumar Bist	Mechanism of LCF failure in HS 800 steel.
31	Dr. R. K Sahu	Lokendra Kumar	Quantitative determination of residual stress in hot rolled sheet.
32	Dr. Mridul Singh Rajput	Rahul Sakharwade (15230006)	An Approach of Designing Robust Plant Layout Using Genetic Algorithm
33	Dr. Mridul Singh Rajput	Udit Narayan Sahu (15230010)	Synthesis And Modification of Ploy Lactic Acid (PLA) for Food Packaging and Bio Medical Applications
34	Rajana Suresh Kumar	Manoj Thapa	Vibrations Analysis of Smart Laminated Fuzzy Fiber Reinforced Composite Sandwich Plate

Achievement of outgoing students (Ph D) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of Supervisor	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Dr. S. L. Sinha	Mr. Shashi kant Verma	Assistant Professor, Mala Reddy Engineering College, Secunderabad, Telangana.

Achievement of outgoing students (PG) (From 01-04-2017to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Ankur Mishra (M.Tech- Machine Design)	JWM, Ordnance Factory, Government of India
2.	Palash Soni	Pursuing PhD at NIT Raipur
3.	Ritesh Matlani	Self Employed
4.	Tarakant Bhanu	Junior Engineer in PWD Delhi
5.	Yadav Vinay Surendra	Doing PhD from NIT Raipur
6.	Ajit Kumar Singh (Roll No. 15230001)	NIT Raipur (Pursuing PhD)
7.	Monica Shukla (Roll No. 15230004)	IIT Delhi (Pursuing PhD)
8.	Lokendra Kumar (15231007)	Lecturer
9.	Manoj Singh Bisht (15231008)	Lecturer
10.	Manoj Kumar Thapa (15231009)	Design Engineer

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Sr. No.	Name of the Student (Roll No.)	Placed in (Designation in Job/Higher Education with details)
1.	Ayushman Dubey	Selected in IIM A
2.	Ankit Pawar	L&T Constructions
3.	Rao Aditya Vikram Singh	Deloitte
4.	AmithKoshey	Interplant Company Ltd. as trainee engineer
5.	Ashutosh Singh	Lafarge India Pvt. Ltd. as trainee engineer
6.	K.N.S.H Pradeep Kumar	Tata Project Ltd. as trainee engineer
7.	Prashant Pandey	TCS as trainee engineer
8.	Yedhupati Praveen kumar (13119091)	Sub Lieutenant at Indian Navy
9.	Renuka Sahu	Indian Institute of Science Bangalore in PhD
10.	Yogesh Pratap Singh	Indian Institute of Science Bangalore in PhD
11.	Akash Dinkar (14119003)	dilute consult
12.	Mayank Thakur 14119052	IRL (Petroleum / E and P)
13.	Prashant Katara 14119064	IRL (Petroleum / E and P)

14	Sashant Chandrakar 14119077	dilute consult
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**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended
(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr (Ms) S L Sinha	“Sexual Harassment at Work Place” in National Seminar on Gender Norms & Gender Equality	Feb 6-8, 2018 Centre for Women’s Studies, Pt. Ravishankar Shukla University Raipur, Chhattisgarh.
2.	Dr. Shubhankar Bhowmick	Numerical Method and Optimization Techniques using MATLAB	20/11/2017 NIT Raipur
3.	Dr. Shubhankar Bhowmick	Advanced Techniques in Multiscale Materials Modelling 2017 (ATMMM-17)	09/11/2017 NIT Raipur
4.	Dr. Suraj Kumar Mukti	One week STTP on “Elements of Research & Hands-on Session on Selection of Research area, Reading and writing of research paper”	March 20-24, 2017 at NIT Raipur
5.	Dr. A. R. Singh	Delivered- Numerical Method and Optimization Techniques using MATLAB	21/11/2017 & 22/11/2017 at NIT Raipur
6.	Dr. A. R. Singh	Delivered- Guest lecture for Skill Development	21 st March 2017 at Guru Ghasidas Vishwavidalaya, Bilaspur(CG)
7.	Rajana Suresh Kumar	Novel Solar Energy Electric Generator, ICTACEM-2017	28-12-2017 to 30-12- 2017, IIT Kharagpur

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended
(From 01-04-2017 to 31-03-2018) [International]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Dr. S. Sanyal, Nisha Netam, S Bhowmick	Assessing The Impact Of Passive Cooling On Thermal Comfort In LIG Housing CFD	28 - 29 Dec. 17, International Technology Conference, Pune
2.	Dr (Ms) S L Sinha	“Numerical Simulation Approach To Predict Air Flow In An Empty Intensive Care Unit Of	April 28, 2018 In Dubai Organized By Institute

		Hospital” In International Conference On “Recent Innovations In Science, Engineering And Technology”	For Scientific And Engineering Research
3.	Dr (Ms) S L Sinha	“Numerical Prediction Of Spacer Effect On Turbulent Mixing Phenomenon In Sub Channels Of Nuclear Rod Bundle In Advanced Heavy Water Reactor” In 19 th International Conference On Nuclear Reactor Theory And Numerical Analysis	Oct 23-24, 2018 Inbali, Indonesia
4. 5.	Anil Kumar Tiwari	<i>Techno – Economic Analysis Of Ventilation Driven Through Solar Metallic Wall For A Hostel Building Of National Institute Of Technology Raipur India</i>	25-29 September 2017, Berlin, Germany
6.	Anil Kumar Tiwari	Sand Bed Solar Stills For Coastal Areas: Studying Heat And Mass Transfer Using Ann Model Proceeding Of 6 th World Conference On Applied Science, Engineering And Technology, Organized By Institute For Engineering Research And Publication (Ifepr) At Goa, India.	2 nd To 3 rd January 2018 Organized By Institute For Engineering Research And Publication (Ifepr) At Goa, India.
7	Dr. Nitin Kumar Jain	24th International Congress On Sound And Vibration, ICSV-24, London (U.K.)	July 23-27, 2017 London (U.K.)
8	Dr. Satish Kumar Dewangan, Et Al.	Effect Of Different Gums On Rheological Properties Of Slurry	Iconamma 2017, 17-18 August 2017, Amrita Vishwa Vidyapeetham, Bengaluru Campus
9	Dr. Satish Kumar Dewangan Et Al.	Rheological Comparison Of Babul Gum And Dhawda Gum: An Experimental Study	Fmfp 2017, 14-16 Dec 2017, Department Of Mechanical Engineering Amrita University, Amritapuri Campus, Kollam, Kerala
10	Dr. Satish Kumar Dewangan Et Al.	Effect Of Indian Gums On Rheological Properties Of Water Bentonite Suspension	Fmfp 2017, 14-16 Dec 2017, Department Of Mechanical Engineering Amrita University, Amritapuri Campus, Kollam, Kerala
11	Dr. Satish Kumar Dewangan Et Al.	Rheological Comparison Of	Icc 2017, 24–25 November 2017 ,

		Katira Gum And Semal Gum	Government Engineering College, Bikaner, Rajasthan
12	Dr. Satish Kumar Dewangan	Review Of Computational Fluid Dynamics (Cfd) Researches On Nano Fluid Flow Through Micro Channel	Icc 2017, 24–25 November 2017 , Government Engineering College, Bikaner, Rajasthan
13	Dr. Satish Kumar Dewangan And Santosh K. Senapati	Effect Of Nonnewtonian Behaviour Of Oil Phase On Oil-Water Stratified Flow In A Horizontal Channel	Ichta 2017 , Nov 09-10, 2017, Waset Conference, Hotel Holiday Inn, Atrium, Singapore, Sg
14	Dr. Satish Kumar Dewangan	Parametric Analysis Of Different Reacting Gaseous Fuels: An Analytical Comparison	International Conference On Numerical Heat Transfer And Fluid Flow (Nhtff - 2018) (January 19 - 21, 2018), Nit Warangal
15	Dr. Satish Kumar Dewangan	Delivered Lecture On “Introduction To Cfd”	Sttp On Advanced Techniques In Multiscale Materials Modeling, From 9 th To 13 th Nov. 2017 Organized By Department Of Metallurgy Engineering, Nit Raipur, Under Teqip Iii
16	Dr. Suraj Kumar Mukti	Chaired The Session At International Conference On Innovative Trends & Technologies In Engineering Sciences & Education (ICITTESE-17)	Columbia Institute Of Engg. And Technology, Raipur 8th & 9th Sept 2017
17	Dr. Suraj Kumar Mukti	Delivered Science Talk On “Digital India” All India Radio Under Prasar Bharati, Gov. Of India	On 7.02.2017 AIR Raipur
18	Dr. Vivek Kumar Gaba	An Experimental Investigation Of The Performance Of Cross-Flow Hydro Turbines, 4th International Conference On	25-29 September 2017, Berlin, Germany

		Power And Energy Systems Engineering, CPESE	
19	Dr. A. R. Singh	International Conference On Industrial Engineering And Operation Management	From 06-03-2017 To 08-03-2017 At Bandung, Indonesia
	Dr. Srinivasu Gangi Setti	Experimental Investigation on Tribological Properties of Untreated Ricinus Communis Natural Fibre Reinforced Polymer Matrix Composites, 9th International Conference on Industrial Tribology, Tribology Society of India	6-9 December 2017 Kolkata India
20	Dr. H. Narang	Tensile Strength Of Abaca Epoxy Laminated Composites International Conference On Composite Materials: Manufacturing, Experimental Techniques, Modeling And Simulation (ICCMEMS-2018). Lovely Professional University (LPU), Punjab	15 th -17 th March 2018 LPU, Phagwara, Punjab
21	Dr. H. Narang	“Experimental Analysis Of Ultimate Tensile Strength In Welded Joint By Taguchi Technique.” 3rd International Conference On “Advances In Steel, Power And Construction Technology. Organized By OP Jindal University	March 22-23, 2017 Hotel Hyatt, Raipur
22	Dr. H. Narang	“Predictive Modeling Of Welded Joint For Shaping Ultimate Tensile Strength By Response Surface Methodology” 3rd International Conference On “Advances In Steel, Power And Construction Technology. Organized By OP Jindal University	March 22-23, 2017 Hotel Hyatt, Raipur
23	Dr. H. Narang	“Experimental Analysis Of MRR In CNC Lathe Machine For AA6063 T6 Aluminum Alloy Specimen” National Conference On Recent Advances In Industrial Tribology And Maintenance. National Institute Of Technology, Rourkela Odisah	February 10th -11th, 2017. Department Of Mechanical Engg. NIT Rourkela

24	Dr. H. Narang	“Supplier Selection Through Attractive Criteria: A Fuzzy” Kano Based Integrated MCDM Approach International Conference On Industrial Engineering And Operations Management.	March 6-8, 2018 Hotel Hilton Bandung Indonesia
25	Dr. H. Narang	“Optimization Of MRR And Surface Roughness Of Almg3 (AA5754) Alloy In CNC Lathe Machine By Using Taguchi Method” International Conference On Recent Advances In Materials, Mechanical And Civil Engineering (ICRAMMCE 2017)	1-2 June 2017 Marri Laxman Reddy Institute Of Technology And Management
26	Dr. H. Narang	“Microstructure Characterization And Mechanical Properties In Manual Metal Arc Welding Of P911 And P92 Steel In As-Welded And PWHT Condition” International Conference On Recent Advances In Materials, Mechanical And Civil Engineering (ICRAMMCE 2017)	1-2 June 2017 Marri Laxman Reddy Institute Of Technology And Management
27	Dr. M.S. Rajput, Dr. H.K. Narang And Dr. B. Sao	CAD/CAM And Their Integration	10 th October Till 14 th October, 2017 In Department Of Mechanical Engineering, NIT Raipur
28	Dr. S.J. Joshi	Applications Of XFEM In Fracture Mechanics. (Invited Talk)	17 th November At Nirma University Of Science And Technology, Ahmedabad.
29	Agnivesh Kumar Sinha, H. K. Narang And Dr. S. Bhattacharya	Tensile Strength Of Abaca Epoxy Laminated Composites, ICCMEMS 2018: International Conference On Composite Materials: Manufacturing, Experimental Techniques, Modeling And Simulation	School Of Mechanical Engineering, Lovely Professional University, Punjab, India, March 15 th -17 th , 2018.
30	S. Bhattacharya, G. Pammani And S.Sanyal	Analysis Of Interface Crack In Piezoelectric Composites Using Extended Finite Element Method, ICCMME 2018: 3rd International Conference On Composite Materials And Material Engineering	National University Of Singapore, Singapore, January 26 th -28 th , 2018.
31	S. Bhattacharya,	Study Of Elastic-Plastic Fatigue Crack In	Dubai, UAE, June 28 th -

	K. Sharma And Vaibhav Sonkar	Functionally Graded Materials, ICMSMME 2017: 19th International Conference On Materials Science, Mechatronics And Mechanical Engineering	29 th , 2017.
32	Dr. Raj Kumar Sahu	The Effect Of Micro Molecular Parameters On The Actuation Performance Of Electro Active Polymers	November 3-9, 2017 Tampa, Florida (USA).
33	Dr. Raj Kumar Sahu	Measurement Of The Residual Stress In Hot Rolled Strip Using Strain Gauge Method	07 th – 08 th April 2017 Eluru, Andrapradesh,
34	Dr. Mridul Singh Rajput	“Experimental Investigation Into Micro Milling Of Aa6063 T6 Aluminum Alloy” At 10 th International Conference On Precision, Meso, Micro And Nano Engineering (COPEN-2017), IIT Chennai (TN), India During December, 2017	07-12-2017 To 09-12-2017, IIT Chennai (TN), India
35	Dr. Mridul Singh Rajput	“Production (Synthesis) And Rheological Properties Of Poly Lactic Acid (PLA) For Food Packaging And Biomedical Application” At 10 th International Conference On Precision, Meso, Micro And Nano Engineering (COPEN-2017), IIT Chennai (TN), India During December, 2017	07-12-2017 To 09-12-2017, IIT Chennai (TN), India
36	Dr. Mridul Singh Rajput	CNC Programming & Practices, Mechanical Engineering Department, NIT Raipur	10 th October To 14 th October 2017, NIT Raipur (CG)
37	Dr. Mridul Singh Rajput	Faculty Development Training Program, CIPET Raipur	25 th November To 30 th November 2017, CIPET Raipur (CG)
38	Dr. Mridul Singh Rajput	Robotics And Computational Intelligence Techniques, NIT Raipur	5 th February To 9 th February 2018, NIT Raipur (CG)

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	Dr. S. Sanyal	Robotics & Computational	Dr. Shubhashis Sanyal and Dr.	-	05 to 09Feb. 2018.	TEQIP III grant

		Intelligence Techniques (RCIT-2018)	Rajesh Doriya (IT)			
2	Dr. S. L. Sinha	National Conference on Computer Applications in Education & Research for Science & Technology: Developments and Prospects (CAREST-2018), N I T, Raipur, CG.	Chairman	---	Jan 16-17, 2018	Self Financed
3.	Dr. R. K. Yadav	Advanced Manufacturing Processes and Metallurgical Characterization	Coordinator		5/12/2018 to 9/12/2018	Self
4.	Dr. S. Bhowmick	NMOTM-2017	Dr. Vivek Gaba, Dr. Amit Raj Singh and Dr. Shubhankar Bhowmick		20/11/2017 to 24/11/2017	Self-Sponsored
5	Dr. S. K. Mukti	Five days STTP on “Advanced Manufacturing Processes and Metallurgical Characterization commencing’	Convener		Dec. 5 th to 9 th 2017.	Self Sponsored
6	Dr. S. K. Mukti	five days STTP on ‘Academic Witting: Trends and Tools”	Coordinator		Nov. 13 th to 17 th 2017.	TEQUIP-III
7	Dr. S. K. Mukti	five days STTP on “Personality& Employability Development	Coordinator		Nov.6 th , -to 10 th 2017.	Self Sponsored
8	Dr. V. K. Gaba	Numerical Method and Optimization Techniques Using Matlab	Vivek Kumar Gaba		Nov 20-24, 2017	Self Sponsored
9	Dr. V. K. Gaba	Application of Numerical Methods and Matlab Programming			April 07-11, 2017	Self Sponsored
10	Dr. A. R. Singh	Numerical Method and Optimization Techniques using MATLAB	Dr. V.K. Gaba Dr. A. R. Singh Dr. S. Bhowmick		20/11/2017 to 24/11/2017	Self-Sponsored
11		Dr. Srinivasu Gangi Setti	Experimental	6-9		

			Investigation on Tribological Properties of Untreated Ricinus Communis Natural Fibre Reinforced Polymer Matrix Composites, 9th International Conference on Industrial Tribology, Tribology Society of India	December 2017 Kolkata India		
12	Dr. H. K. Narang	Short Term Training Programme (STTP)	Dr. H. Narang, Dr. M. S. Rajput and Dr. B. Shaw		10/10/2017 to 14/10/2014	Self Sponsored
13	Dr. H. K. Narang	Advanced Techniques in Multi-scale Materials Modeling (International)	Dr. S. Ganguly, Dr. S. Bhattacharya, Dr. S.K. Sinha	None	9 th to 13 th November 2017	TEQIP-III
14	Dr. H. K. Narang	One Week Self Financed Short Term Training Program on "CNC Programming & Practices" from 10 th October to 14 th October 2017 organized on National Institute of Technology, Raipur	Dr. Mridul Singh Rajput, Dr. H K Narang		10 th October to 14 th October 2017	Self Financed
15	Dr. H. K. Narang	"College to Corporate Program - Technical Skills", conducted from 20 February, 2018 to 19 March, 2018 conducted by Indian Institute of Technology Bombay.	Dr. Mridul Singh Rajput		20 February, 2018 to 19 March, 2018	IIT bombay
16	Dr. H. K. Narang	"College to Corporate Program - Technical Skills", conducted from 20 February, 2018 to 19	Dr. Mridul Singh Rajput		20 February, 2018 to 19 March, 2018	IIT bombay

		March, 2018 as a View Coordinator during face to face interactions on the Remote Centre of National Institute of Technology, Raipur.				
17	Dr. S. Bhattacharya	Advanced Techniques in Multi-scale Materials Modeling (International)	Dr. S. Ganguly, Dr. S. Bhattacharya, Dr. S.K. Sinha	None	9 th to 13 th November 2017	TEQIP-III
18	Dr. M. S. Rajput	One Week Self Financed Short Term Training Program on “CNC Programming & Practices” from 10 th October to 14 th October 2017 organized on National Institute of Technology, Raipur	Dr. Mridul Singh Rajput, Dr. H K Narang		10 th October to 14 th October 2017	Self Financed
19	Dr. M. S. Rajput	"College to Corporate Program - Technical Skills", conducted from 20 February, 2018 to 19 March, 2018 conducted by Indian Institute of Technology Bombay.	Dr. Mridul Singh Rajput		20 February, 2018 to 19 March, 2018	IIT bombay
20	Dr. M. S. Rajput	"College to Corporate Program - Technical Skills", conducted from 20 February, 2018 to 19 March, 2018 as a View Coordinator during face to face interactions on the Remote Centre of National Institute of Technology, Raipur.	Dr. Mridul Singh Rajput		20 February, 2018 to 19 March, 2018	IIT bombay

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Dr. A. M. Rawani	Ajit Kumar Singh & A. M. Rawani	Application of QFD in Education Sector: A Review	International Journal of Mechanical Engineering and Technology, vol. no. 9, issue no. 3, page no. 592-599, year 2018	
2	Dr. A. M. Rawani	Ajit Kumar Singh & A. M. Rawani	A Fuzzy Approach for Ranking of Student's Expectation from a Technical Institute	International Journal of Smart Education and Urban Society vol. no. 10, issue no. 2	
3	Dr. A. M. Rawani	Sachin Meshram & A. M. Rawani	Entrepreneurial Ecosystem Insights: A Review	International Journal of Mechanical Engineering and Technology vol. no. 9, issue no. 3, page no. 348-356, year 2018	
4	Dr. A. M. Rawani	Sachin Meshram & A. M. Rawani	Understanding Entrepreneurial Ecosystem: A Review	International Journal of Social Ecology and Sustainable Development vol. no. 10, issue no. 3,	
5	Dr. A. M. Rawani	Sachin Meshram & A. M. Rawani	Entrepreneurship Success Measures and Factors for Sustainable	International Journal of E-Entrepreneurship	

			Entrepreneurship	and Innovation vol. no. 9, issue no. 2,	
6	Dr. A. M. Rawani	Mukesh Shyamkant Desai & A. M. Rawani	Productivity Improvement of Shaping Division of an Automobile Industry by Using Single Minute Exchange of Die (SMED) Methodology	ARPN Journal of Engineering and Applied Sciences vol. no. 12, issue no. 8, page no. 2615-2629, year 2017	
7	Dr. S. Sanyal	Arvind Shukla and Shubhashis Sanyal	Gradient Method for Identification of Isomorphism of Planar Kinematic Chains	Australian Journal of Mechanical Engineering	1448- 4846,Page 1- 18, 20 Sep 2017.
8	Dr. S. Sanyal	Amit Kumar Thawait, Lakshman Sondhi, Shubhashis Sanyal, Shubhankar Bhowmick	An Investigation of Stresses and Deformation States of Clamped Rotating Functionally Graded Disk	Journal of Theoretical and Applied Mechanics (Scopus, Sci Ex),	1429-2955, 55, 189-198, 2017.
9	Dr. S. Sanyal	A.K.Thawait, L Sondhi, S. Sanyal, S. Bhowmick.	Elastic Analysis of Functionally Graded Variable Thickness Rotating Disk by Element based Material Grading	Journal of Solid Mechanics	2008-7683, 9, 650-662, 2017,
10	Dr. S. Sanyal	G Pamnani, S Bhattacharya and S Sanyal	Analysis of Semi permeable Crack Growth in Piezoelectric Materials Using Extended Finite Element Method	International Journal of Applied Mechanics	1758- 826X,2017.
11	Dr. S. Sanyal	Nisha Netam, S Sanyal, S Bhowmick	Assessing the Impact of Passive Cooling on Thermal Comfort in LIG Housing CFD	Journal of Thermal Engineering	accepted
12	Dr. S. Sanyal	Vinay Kumar Soni, S. Sanyal, and S. K. Sinha	Investigation of phase stability of novel equiatomic FeCoNiCuZn based-high entropy alloy prepared by mechanical alloying	AIP Conference Proceedings	1953030253 (2018); doi: 10.1063/1.503 2588
13	Dr. S. L. Sinha	S.K.Verma,	An Overview of Current	Book on Air	

		S.L.Sinha and D.K.Chandraker	Knowledge Concerning the Environmental Consequences of the Nuclear Pollution: Sources, Effects and Control	pollution and Control, ISBN 978-981- 10-7184-3, Springer, 2018.	
14	Dr. S. L. Sinha	Tikendra Nath Verma, Arvind Sahu and S L Sinha	Numerical Simulation of Air Pollution Control in Hospital,	Bbook on Air pollution and Control, ISBN 978-981- 10-7184-3, Springer, 2018.	--
15	Dr. S. L. Sinha	S. K. Verma, S. L. Sinha, D. K. Chandraker	Selection of appropriate turbulence model in fuel bundle of nuclear energy: In context with inter subchannel mixing of coolant for single phase flow,"	Soft Computing Techniques and Applications in Mechanical Engineering, IGI Global E-Editorial Discovery, ISBN13: 9781522530350,	DOI: 10.4018/978-1-5225-3035-0, (2017).
16	Dr. S. L. Sinha	Rahul Mishra, K C Ghanta, A N Mullick and S.L.Sinha	Experimental & Numerical Prediction of Slurry,	International Journal of Fluid Mechanics and Research, Begell House, Volume, 45, 2018.	
17	Dr. S. L. Sinha	Rahul Mishra, K C Ghanta, A N Mullick and S.L.Sinha	Numerical Prediction of Flow Behavior and Erosion Prediction of Coal ater and Copper Ore Water Slurries,	Journal of Advanced Research in Dynamical and Control System, Vol 9, Sp-14/2017, pp 2368-2388.	
18	Dr. S. L. Sinha	Rahul Mishra, K C Ghanta, A N Mullick and S.L.Sinha	Numerical Prediction of Flow Behaviour of Coal Water and Copper Ore Water Slurries	World Academy of Science, Engineering and Technology, International Journal of Mechanical and Mechatronics Engineering, Volume 5, Issue 6 (Publication on 06.06.2018).	

19	Dr. S. L. Sinha	Y Weikey, S.L.Sinha, S.K.Dewangan	Rheological Evaluation of Various Indigeonous Gums	World Academy of Science, Engineering and Technology, International Journal of Mechanical and Mechatronics Engineering, Volume 5, Issue 2, (Publication on 22.02.2018).	DOI: 10.1999/1307-6892/75731
20	Dr. S. L. Sinha	Shashikant Verma, S.L.Sinha and D.K.Chandraker	CFD Simulation of Spacer Effect on Turbulent Mixing Phenomena in Subchannels of Boiler Nuclear Assemblies	World Academy of Science, Engineering and Technology, International Journal of Nuclear and Quantum Engineering, Volume 4, Issue 10, -6892/78662 (Publication on 23.10.2017).	DOI: 10.1999/1307
21	Dr. S. L. Sinha	S K Verma, S.L.Sinha and D.K.Chandraker	A Computational Fluid Dynamics Simulation of Single Rod Bundles with 54 Fuel Rods Without Spacers	World Academy of Science, Engineering and Technology, International Journal of Nuclear and Quantum Engineering, Volume 3, Issue 5	DOI: 10.1999/1307-6892/48737
22	Dr. S. L. Sinha	S.K.Verma, S.L.Sinha, D.K.Chandraker	Experimental Investigation on the effect of Spacer on the Turbulent Mixing in Vertical Pressure Tube Type Boiling Water Reactor.	Nuclear Science and Engineering 17-108, (ISSN 0029-5639 Accepted for publication _SCI).	
23	Dr. S. L. Sinha	Yogita Weikey, Shobha Lata Sinha and Satish Kumar Dewangan	Role of Additives and Elevated Temperature on Rheology of Water Based Drilling fluid,	International Journal of Fluid Mechanics Research, Begell House	doi:10.1615/Inte rJfluidMechRes. 2018018948.

				Publications, Page 37-39.	
24	Dr. S. L. Sinha	S. K.Verma, S. L, Sinha and D K Chandaker,	Experimental Investigation of Effect of Spacer on Two Phase Turbulent Mixing Rate in Subchannels of Pressure Tube Type BWR.	KERNTECHNIK, 82, 5, 535-544, 2017 (ISSN: 0932-3902 SCI Journal) .	
25	Dr. S. L. Sinha	Satish Kumar Dewangan, Shobha Lata Sinha and Prateek Kumar Gupta,	Comparative Study of fluid flow & heat transfer in rectangular & wavy micro-channel,	Computational Thermal Science: An International Journal, Begell House Publications, Volume 9, Issue 6, pp 549-565, 2017.	DOI: 10.1615 / CompuThermal Scien 2017019601 (ISSN 1940-2503).
26	Dr. S. L. Sinha	Shashikant Verma, S. L, Sinha and D K Chandaker	A Comprehensive Review of the Spacer Effect on Performance of Nuclear Fuel Bundle Using Computational Fluid Dynamics Methodology	Materials Today: Proceedings, Volume 4, Issue 9 pp 10030-10034, 2017.	
27	Dr. S. L. Sinha	Arvind Kumar Sahu, T N Verma, S L Sinha	Study of Particle Dispersion on One bed ICU Using Computational Fluid Dynamics,	Materials Today: Proceedings, Volume 4, Issue 9 pp 9488, 2017.	
28	Dr. S. L. Sinha	Shashikant Verma, S. L, Sinha and D K Chandaker,	Experimental Investigation of effect of spacer on single phase turbulent mixing rate on simulated subchannel of Advanced Heavy Water Reactor	Annals of Nuclear Energy, Volume 110, Dec. 2017, pp 186-195.	
29	Dr. S. L. Sinha	Satish Kumar Dewangan & Shobha Lata Sinha	Prediction of hole instability (enlargement) by slurry erosive wear measurement studies: In context with petroleum well drilling industries,	Multiphase Science & Technology, Begell house inc. Publishers UK, ISSN 0276-1459 DOI: 10.1615/MultScienTechn.2017019528 .	

30	Dr. S. L. Sinha	Satish Kumar Dewangan & Shobha Lata Sinha	Effect of Additives on rheological Property of Drilling Fluid suspension formulated by Bentonite with water	International Journal of Fluid Mechanic Research, Begell house inc. Publishers UK, DOI: 10.615/InterJFluid MechRes.2017015 328.	
31	Dr. R. Salhotra	Ankur Gupta, Nitin Kumar Jain, Rahul Salhora	Effect of Thermal environment on free vibration and buckling of partially cracked isotopic and IGM micro plates based on a non-classical Kirchhoff's plate theory :An analytical approach.	International Journal of Mechanical sciences,	Vol. 131-132(2017) PP 155-170
32	Dr. S. P. S. Matharu	Ritesh Kr Dewangan, Dr. S. P. S. Matharu	Experimental Analysis of Resistive Lubricant Film Thickness with Circular Contact	International Journal of Engineering and Tech. (Scopus) Vol 9 No 4, 3225 to 3232, Aug-Sept 2017	10.21817/ijet/2017/v9i4/170904144 ISSN 0975-4024 (Online) 2319-8613 (Print)
33	Harpreet Kaur Aasi, Vivek Kumar Gaba, Anil Kumar Tiwari, Shubhankar Bhowmick	Performance of Orthotropic Annular Fins Having Contact Resistance	International Journal of Frontiers in Heat and Mass Transfer	8,15 PP 1, 2017 2151-8629 http://dx.doi.org/10.5098/hmt.8.15	
34	Anil Kr Tiwari, Rakesh Kr Sharma	Techno – economic analysis of ventilation driven through solar metallic wall for a hostel building of National Institute of Technology Raipur India	Energy Procedia	141, PP 39-44 2017 1876-6102 https://doi.org/10.1016/j.egypro.2017.11.008	
35	Anil Kr Tiwari, Aneesh Somwanshi	Techno-economic analysis of mini solar distillation plants integrated with reservoir of garden fountain for hot and dry climate of Jodhpur	Journal of Solar Energy	160, PP 216-224, 2018 0038-092X https://doi.org/10.1016/j.solener.2017.11.078	

		(India)			
36	Dr. Nitin Kumar Jain	Vibration analysis of partially cracked plate submerged in fluid	Journal of Sound and Vibration, Vol. 412 (2018), pp. 28-57	DOI - 10.1016/j.jsv.2017.09.016	
37	Dr. Nitin Kumar Jain	Analytical modeling for nonlinear vibration analysis of partially cracked thin magneto-electro-elastic plate coupled with fluid	Nonlinear Dynamics, Vol. 89 (3) (2017), pp. 01 –34	DOI - 10.1007/s11071-017-3652-5	
38	Dr. Nitin Kumar Jain	Effect of thermal environment on free vibration and buckling of partially cracked isotropic and FGM micro plates based on a non classical Kirchhoff's plate theory: An analytical approach	International Journal of Mechanical Sciences, Vol. 131-132 (2017), pp. 155 – 170	DOI - 10.1016/j.ijmecsci.2017.06.044	
39	Dr. S. K. Dewangan	Weikey Y., Sinha S. L. and Dewangan S. K.	Role of additives and elevated temperature on rheology of water-based drilling fluid: a review paper	International Journal of Fluid Mechanics Research, Begell house publications vol. 45 (1), pp. 37-49, ISSN No. 2152-5102. (2018)	[SCOPUS INDEXED]
40	Dr. S. K. Dewangan	Dewangan S. K., Sinha S. L. and Gupta P. K.	Comparative study of fluid flow and heat transfer in rectangular and wavy microchannel.	Computational Thermal Sciences, Begell House publications, vol. 9(6), pp. 549–565. ISSN No. 1940-2554. (2017).	[SCOPUS INDEXED]
41	Dr. S. K. Dewangan	Dewangan S. K. and Naik M. P.	CFD Modeling of non-premixed combustion of pulverized coal in a furnace	Journal of Computational Thermal Sciences, Begell	[SCOPUS INDEXED]

				house, vol. 9 (3), pp. 195-211. ISSN No. 1940-2554, (2017).	
42	Dr. S. K. Dewangan	Dewangan S. K. and Senapati S. K.	Comparison of performance of different multiphase models in predicting stratified flow	Journal of Computational Thermal Sciences, Begell house, vol. 9(6), pp. 529–539. ISSN No. 1940-2554. (2017).	[SCOPUS INDEXED]
43	Dr. S. K. Dewangan	Dewangan S. K. and Sinha S. L.	Effect of additives on rheological property of drilling fluid suspension formulated by bentonite with water	International Journal of Fluid Mechanics and Research, Begell House publications, vol. 44(3), pp. 195–214. (ISSN 2152-5102), (2017).	[SCOPUS INDEXED]
44	Dr. S. Bhowmick	N. Netam, S. Sanyal and S. Bhowmick	Assessing the impact of passive cooling on thermal comfort in LIG house using CFD	Journal of Thermal Engg.	--
45	Dr. S. Bhowmick	Amit Thawait, Laxman Sondhi, Shubhashis Sanyal, Shubhankar Bhowmick	Elastic Analysis of Functionally Graded Variable Thickness Rotating Disk by Element Based Material Grading	Journal of Solid Mechanics	
46	Dr. S. Bhowmick	Amit Thawait, Laxman Sondhi, Shubhashis Sanyal, Shubhankar Bhowmick	An Investigation of Stress and Deformation States of Rotating Thick Truncated Conical Shells of Functionally Graded Material	Journal of Solid Mechanics	
47	Dr. S. Bhowmick	Amit Thawait, Laxman Sondhi, Shubhashis Sanyal,	Stress and deformation analysis of clamped functionally graded	Mechanics and Mechanical Engineering,	

		Shubhankar Bhowmick	rotating disks with variable thickness	(Accepted)	
48	Dr. S. Bhowmick	Rahul Sharma, Lakshman Sondhi, Vivek Kumar Gaba and Shubhankar Bhowmick	A study of thermo- structural behavior of annular fin	Lecture notes series in Mechanical Engineering, Springer, (Accepted)	
49	Dr. S. Bhowmick	Ambuj Shrivastava, Vivek Kumar Gaba and Shubhankar Bhowmick	Orthotropy in Annular fins: A Collocation based solution	Materials Today, Elsevier, (Accepted)	
50	Dr. S. Bhowmick	Deepak Mahapatra, Shubhashis Sanyal, Shubhankar Bhowmick	A critical study of stresses of FG Timoshenko Beams using B-spline Collocation	Materials Today, Elsevier, (Accepted)	
51	Dr. S. Bhowmick	Royal Madan, Shubhankar Bhowmick and Kashi Nath Saha	Stress and deformation of functionally graded rotating disk based on modified rule of mixture	Materials Today, Elsevier, (Accepted)	
52	Dr. S. Bhowmick	Vivek Kumar Gaba, Sruthi Lolalis, Bidyut Mazumdar and Shubhankar Bhowmick	Performance of finned adsorber-desorber refrigeration system using activated carbon- methanol pair	Computational Thermal Sciences, BegellHouse Publications	
53	Dr. S. Bhowmick	Vinay Verma, Vivek Kumar Gaba and Shubhankar Bhowmick	An Experimental Investigation of the Performance of Cross- flow Hydro Turbines	Energy Procedia, Elsevier	
54	Dr. S. K. Mukti	Vimal Deshmukh and Suraj Kumar Mukti,	“Impact of Lean Six Sigma Implementation Success Factor on Growth Rate of E- Service Based Organization”,	International Journal of Engineering and Technology, ISSN: 0976- 6359 Vol.9 Issue 1 Jan 2018, pp. 852-865.	
56	Dr. S. K. Mukti	Suraj Kumar Mukti and Animesh	“Framework to Manage Risk in ERP System	International Journal of	

		Agrawal	Execution”	Innovations & Advancement in Computer Science (IJIACS) ISSN 2347 – 8616, Vol. 6, Issue 11, Nov. 2017, pp. 653-667.	
57	Dr. S. K. Mukti	Suraj Kumar Mukti	“Change Management: Leading Tool to Successful ERP System Implementation”	International Journal of Innovations & Advancement in Computer Science (IJIACS) ISSN 2347 – 8616, Vol.6, Issue 11, Nov. 2017, pp. 20-30.	
58	Dr. S. K. Mukti	Suraj Kumar Mukti	“Success of ERP System Implementation: Change Management Perspective”	International Journal of Engineering Technology Science and Research (IJETSR) ISSN 2394 – 3386, Vol.4, Issue 11, Nov. 2017, pp. 55-64.	
59	Dr. S. K. Mukti	Suraj Kumar Mukti	“Enterprise Resource Planning System Implementation: After Effects”	International Journal of Computer & Mathematical Sciences (IJCMS), ISSN: 2347 – 8527, Vol. 6, Issue 11, Nov.2017, pp. 15-24	

60	Dr. V. K. Gaba	Vinay Verma, V. K. Gaba, S. Bhowmick	An experimental investigation of the performance of cross-flow hydro turbines	Energy Procedia, 141, 630–634 (2017)	10.1016/j.egypro.2017.11.084
61	Dr. V. K. Gaba	Govind Sahu, V. K. Gaba, S. Panda, B. Acharya and S. P. Mahapatra	Thermal conductivity, thermal diffusivity, and volumetric heat capacity of silicone elastomer nano-composites: Effect of temperature and MWCNT and nano-graphite loadings,	High performance polymers, SAGE publication. (2017)	https://doi.org/10.1177/0954008317698545
62	Dr. V. K. Gaba	Harpreet Kaur Aasi, Vivek Kumar Gaba, Anil Kumar Tiwari, Shubhankar Bhowmick	Performance of Orthotropic Annular Fins Having Contact Resistance,	Frontiers in Heat and Mass Transfer, (FHMT), 8(15), 1-6 (2017)	http://dx.doi.org/10.5098/hmt.8.15
63	Dr. A. R. Singh	K Pant; AR Singh; U Pandey and R Purohit	A Multi Echelon Mixed Integer Linear Programming Model of a Close Loop Supply Chain Network Design	Materials Today: Proceedings; Volume 5; Issues 2; Page No. 4838-4846 Year-2018	https://doi.org/10.1016/j.matpr.2017.12.059
64	Dr. A. R. Singh	HC Yadav; Rajeev Jain; AR Singh and PK Mishra	Kano integrated robust design approach for aesthetical product design: a case study of a car profile	Journal of Intelligent Manufacturing Volume 28; Issues 7; Page No. 1709-1727; Year-2017	https://doi.org/10.1007/s10845-016-1202-5
65	Dr. A. R. Singh	Naveen Jain and AR Singh	Fuzzy Kano Integrated MCDM Approach for Supplier Selection Based on Must Be Criteria	Volume 6; Issues 2; Page No. 49-59; Year-2017	-
66	Dr. A. R. Singh	Vinay Surendra Yadav; SarsijTripathi and AR Singh	Exploring omnichannel and network design in omni environment	Cogent Engineering; Volume 4; Issues 1; Page No. 1382026; Year-	https://doi.org/10.1080/23311916.2017.1382026

				2017	
67	Dr. A. R. Singh	Vinay Surendra Yadav; Naveen Jain and AR Singh	Optimization of Supply Chain Network Design for Multiple-Channel Distribution	International Conference on Industrial Engineering and Operation Management	-
68	Dr. A. R. Singh	Naveen Jain; Vinay Surendra Yadav; H.K. Narang and AR Singh	Supplier selection through Attractive criteria: a Fuzzy Kano based integrated MCDM approach	International Conference on Industrial Engineering and Operation Management	-
69	Dr. G. Srinivasu	Rityuj Singh Parihar, Srinivasu Gangi Setti, Raj Kumar Sahu	Preliminary investigation on development of functionally graded cemented tungsten carbide with solid lubricant via ball milling and spark plasma sintering	Journal of Composite Materials, Volume: 52 issue: 10, page(s): 1363-1377	https://doi.org/10.1177/0021998317724217
70	Dr. N. Netam	Nisha Netam, Shubhashis Sanyal, Shubhankar Bhowmick	Thermal Performance Analysis to Assess Inhabitant Comfort inside LIG houses in Chhattisgarh'	International Journal of Theoretical and Applied Mechanics, Volume 12, Number 3 (2017) pp. 613-622	https://www.rivipublication.com/ijtam17/ijtamv12n3_22.pdf
71	Dr. H. K. Narang	Anoop Kumar Sahu Atul Kumar Sahu, Nitin Kumar Sahu Harendra Kumar Narang Mridul singh rajput	Grey based scorecard model for opting fruit supply bazaar locality under advanced chain of macro-micro parameter	British food journal Emerald Issue 11 2017 Vol. 120 Iss 1 pp. 133-145 2018	https://doi.org/10.1108/BFJ-12-2016-0636
72	Dr. H. K. Narang	Atul Kumar Sahu, Harendra Kumar	A Grey- DEMATEL approach for implicating E-Waste management	Grey Systems: Theory and Application	https://doi.org/10.1108/GS-11-2017-0037

		Narang Mridul singh rajput	practice: Modeling in context of Indian scenario	Emerald Grey Systems: Theory and Application Vol. 120 Iss 1 pp. 59-79	
73	Dr. H. K. Narang	Chandan Pandey ¹ , H. K. Narang ³ , N. Saini ¹ , M.M. Mahapatra ² , and Pradeep Kumar	Microstructure and Transverse Shrinkage Stress Analysis in GTA Welds of P91 Steel Pipe	International Journal of Steel Structures DOI 10.1007/s13296I SSN1598-2351 (Print) ISSN 2093-6311 (Online) Published jun 2017	www.springer.com/journal/13296
74	Dr. H. K. Narang	Chandan Pandey , M. Mohan Mahapatra, Pradeep Kumar , Nitin Saini , ,H.K. Narang et al.	A brief study on d-ferrite evolution in dissimilar P91 and P92 steel weld joint and their effect on mechanical properties	Archive of Civil and Mechanical Engineering ISSN: 1644-9665 2018	http://www.elsevier.com/locate/acme
75	Dr. H. K. Narang	Nitin Saini, Chandan Pandey M. Mohan Mahapatra, H.K. Narang et al.	A comparative study of ductile-brittle transition behavior and fractography of P91 and P92 steel	Engineering Failure Analysis 81 (2017) 245–253 ISSN 1350-6307 22 June 2017	https://www.researchgate.net/publication/317825243_A_comparative_study_of_ductile-brittle_transition_behavior_and_fractography_of_P91_and_P92_steel
76	Dr. S. Bhattacharya	G. Pammani, S. Bhattacharya and S. Sanyal	Analysis of Semipermeable Crack Growth in Piezoelectric Materials using Extended Finite Element Method	International Journal of Applied Mechanics, Vol. 9, No. 7,	https://doi.org/10.1142/S175882511750106X

				1750106 (23 pages), 2017	
77	Dr. S. Bhattacharya	G. Pammani, S. Bhattacharya and S. Sanyal	Analysis of Interface Crack in Piezoelectric Materials Using Extended Finite Element Method	Mechanics of Advanced Materials And Structures, 2018	https://doi.org/10.1080/15376494.2018.1432817
78	Dr. R. K. Sahu	<u>Rityuj Singh Parihar, Srinivasu Gangi Setti and Raj Kumar Sahu</u>	Preliminary investigation on development of functionally graded cemented tungsten carbide with solid lubricant via ball milling and spark plasma sintering	<u>Journal of Composite Materials, Vol. 52(10) 1363–1377, 2018,</u>	<u>10.1177/0021998317724217</u>
79	Dr. R. K. Sahu	Mohit Kumar Sahu and Raj Kumar Sahu	Optimization of Stirring Parameters Using CFD Simulations for HAMCs Synthesis by Stir Casting Process	<u>Transactions of the Indian Institute of Metals Vol. 70(10) 2563–2570, 2018.</u>	<u>10.1007/s12666-017-1119-5</u>
80	Dr. M. S. Rajput	Sahu A, Sahu N, Sahu A, Narang H, Rajput MS	Grey based scorecard model for opting fruit supply bazaar locality under advanced chain of macro-micro parameter	British Food Journal, 120 (1), 2018, 59-79	https://www.emeraldinsight.com/doi/abs/10.1108/BFJ-12-2016-0636
81	Dr. M. S. Rajput	Sahu A, Narang HK, Rajput MS	A Grey-DEMATEL approach for implicating e-waste management practice: Modeling in context of Indian scenario	Grey Systems: Theory and Application, 8 (1), 2018, 84-99	https://www.emeraldinsight.com/doi/abs/10.1108/GS-11-2017-0037
82	Dr. M. S. Rajput	Sahu A, Narang H, Rajput MS, Sahu N, Sahu A	Performance modeling and benchmarking of green supply chain management: An integrated fuzzy approach	Benchmarking: an International Journal	https://doi.org/10.1108/BIJ-02-2017-0032
83	Dr. M. S. Rajput	Sahu A, Narang H,	A novel approach for	accepted for	

		Rajput MS	benchmarking maintenance based on Fuzzy –reliability index for the replacement of street lights under uncertainty	publication in International Journal of Process Management and Benchmarking	
84	Dr. M. S. Rajput	Sahu A, Nawal D, Narang HK, Rajput MS	A merged approach for modeling qualitative characteristics of agile arena under grey domain	Grey Systems: Theory and Application	https://doi.org/10.1108/GS-03-2018-0013
85	Dr. R. S. Kumar	R Suresh Kumar, S I Kundalwal, M C Ray	Control of Large Amplitude Vibrations of Doubly Curved Sandwich Shells Composed of Fuzzy Fiber Reinforced Composite Facings	Aerospace Science and Technology, 70, PP. 10-28.	https://doi.org/10.1016/j.ast.2017.07.027

Books, monograms, chapters authored/co-authored (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member	Title (Mention Book/monogram/chapter)	Publisher	Author/Co-author
1	S. Sanyal	Approximate Solution of functionally graded thick cylinders	De-Gruyter, Germany	L Sondhi, Kashinath Saha and S. Bhowmick
2	Dr (Ms) S L Sinha	Experimental Prediction of Erosion Wear of Mineral Slurries: An Experimental Testing of Liquid-Solid (Slurry) Flow Erosion	Lambert Academic Publishing	Co-author
3	Dr (Ms) S L Sinha	Parametric Analysis of Two Phase Flow Using CFD: An Application of CFD in liquid- gas two phase flow	Lambert Academic Publishing	Co-author
4	Dr (Ms) S L Sinha	Computational Prediction of Pipe Bend Wear in Slurry Flow: An Application of CFD in liquid- solid two phase flow	Lambert Academic Publishing	Author
5	Dr (Ms) S L Sinha	Fluid Mechanics (Under Review)	Narosa Publishing House Private Limited, 22, Delhi Medical Association Road, Daryaganj, New	Co-author

			Delhi.	
6	Anil Kumar Tiwari	Functionally Graded Varying Geometry Annular Fins	IGI	Vivek Kumar Gaba Tarakant Bhanu Shubhankar Bhowmick
7	Anil Kumar Tiwari	A Textbook of Statics of Rigid Body And Fluid	Lambert	G K Sahu
8	R. K. Yadav	Mixture of Biodiesels: A Fuel For Diesel Engines.	Lambert academic publishing	Dr. R. K. Yadav
9	R. K. Yadav	Prospects of Biodiesel in IC Engines.	Lambert academic publishing	Dr. R. K. Yadav
10	R. K. Yadav	Characteristics of Mixture of Biodiesels in IC Engines.	Lambert academic publishing	Dr. R. K. Yadav
11	Shubhankar Bhowmick	Temperature distribution in functionally graded longitudinal fins of varying geometry	DeGruyter	Savita K. Subramaniam, Vivek Kumar Gaba
12	Shubhankar Bhowmick	Design of Base Isolation System for Buildings	IGI Global	G Bhatt, D K Paul
13	Shubhankar Bhowmick	Functionally Graded Varying Geometry Annular Fins	IGI Global	Vivek Kumar Gaba, Anil Kumar Tiwari, Tarakant Bhanu
14	Shubhankar Bhowmick	Approximate solution of functionally graded thick cylinders	DeGruyter	Lakshman Sondhi, Shubhashis Sanyal, Kashi Nath Saha
15	Vivek Kumar Gaba	Functionally Graded Varying Geometry Annular Fins	IGI	Anil Kumar Tiwari Tarakant Bhanu Shubhankar Bhowmick
16	S. Bhattacharya	Fatigue Fracture of Functionally Graded Materials under Elastic-	INTECHOPEN	Kamal Sharma and

		plastic Loading Conditions Using Extended Finite Element Method (Book Chapter) for Book: Contact and Fracture Mechanics, (ISBN 978-953-51-5723-6), 2017		Vaibhav Sonkar
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Patents (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty	Name of Faculty Member	Patent Details	Publishing Date
1.	Dr. S. Sanyal	Palash Rajepandhare, Govardhan Bhatt and Shubhashis Sanyal	An Improved Shake Table	Applied - 26.12.17
2.	Dr. S. Bhowmick	Prakash Chandra, Lakshman Sondhi and Shubhankar Bhowmick	Patent application no.: 201721035676 (TEMP/E-1/36395/2017-MUM), Title: Concordant System and Apparatus for Securing Submersible Pumps	Applied, Under Process

Research and Consultancy

Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/ Ongoing/New)

Sr. No.	Name of Faculty	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Dr. S. L. Sinha	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	2 Yrs (Status: Completed in April 2017)	Chhattisgarh Council of Science & Technology, Raipur, CG.	Rs 5 lacs	PI
2	Dr. S. P. S. Matharu	Design, Development & Fabrication of a Test rig for performance Evaluation of Rolling	Ongoing	AICTE	6.76 lakhs	PI: Dr. S. P. S. Matharu Co-PI: Dr. S. Sanyal

		Element Bearings				
3	Dr. S. Bhowmick	Motorized slag removal mechanism	2017-2018	Real Ispat Ltd., Raipur	3.33	Dr. Shubhankar Bhowmick/Dr. Vivek Gaba
4	Dr. V. K. Gaba	Design of Slag Removal Mechanism from the Furnaces	2017-2019	Real Ispat Pvt. Ltd.	3.3	S. Bhowmick (PI) Vivek Kumar Gaba (Co-PI)
5	Vivek Kumar Gaba	Inspection of Cold Storages for Chhattisgarh Horticulture Department			1.0 (Approx.)	
6	Vivek Kumar Gaba	Master training program of Energy Conservation Building Code jointly with CREDA for the architect, builders of Chhattisgarh State.			2.0	
7	Dr. A. R. Singh	Design and Development of Customized Welding Robot for Industrial Applications	New	Shanta Techno Pvt. Ltd. Urla Industrial Area, Raipur	3.96 Lacs	Dr. A.R. Singh (PI) Dr. Rajesh Doriya (Co-PI)
8	Dr. G. Srinivasu	Development, Characterization of Functionally Graded material with self lubrication property for cutting tool applications	2017-2020	Chhattisgarh Council of Science and Technology	Rs. 3.5 Lakhs	PI- Dr. Raj Kumar Sahu, MED / Dr. Srinivasu Gangi Setti Co-PI
9	Dr. H. K. Narang	"Experimental Investigations and Modelling of Ultrasonic Jet electrodeposition and	March 2018	Department of Science & Technology	31.05093	Dr. M. S. Rajput (PI) & Dr. H. K. Narang

		Machmmg for Micro.Part Fabrication"		gy, governm ent of India		(Co-PI)
10	Dr. R. K. Sahu	Characterization of Strain Induced Behaviors of Electroactive Polymers for Sensor and Actuator Applications	2016-19	DST-SERB New Delhi	31,52,600	PI
11	Dr. R. K. Sahu	Development, characterization of functionally graded material with self lubrication property for cutting tool applications	2017-20	CG COST, Chhattisgarh	3,50,000	PI
12	Dr. M. S. Rajput	Experimental Investigations and Modelling of Ultrasonic Jet Electrodeposition and Machining for Micro Part Fabrication	March 2018 to till now	SERB (DST)	31.05	Dr. Mridul Singh Rajput (PI), Dr. H K Narang (Co-PI)
13	Dr. M. S. Rajput	Experimental Investigation and Modeling of Micro Milling Assisted Ultrasonic Jet Electrodepositing (MAUJE) for Micro Part Fabrication	May 2017 to till now	NIT Raipur	4.47	Dr. Mridul Singh Rajput (PI)

Awards/Any Other Achievements (From 01-04-2017to 31-03-2018)

Sr. No.	Name of Faculty Member	Details of the Award/Achievement	Date
1.	Dr (Ms) S L Sinha	Recipient of <i>Best Paper Presentation Award</i> in International Conference on "Recent Innovations in Science, Engineering and Technology", organized by Institute for Scientific and Engineering Research in Dubai.	April 28, 2018

2.	Dr (Ms) S L Sinha	Recipient of Certificate of “Outstanding Contribution in Reviewing, awarded (March 2017)” in recognition of the contribution made to the quality of the journal, issued by the Editors of Applied Thermal Engineering, Elsevier, Amsterdam, The Netherlands.	April 2018
3.	Dr (Ms) S L Sinha	Recipient of <i>Best Presentation Award</i> in 19 th International Conference on Nuclear Reactor Theory and Numerical Analysis organized by WASET, Bali Indonesia.	October 23-24, 2017
Ph D Scholars			
4	Mr. Arvind Sahu	Recipient of <i>Best Research Poster Award</i> in International Conference on “Recent Innovations in Science, Engineering and Technology”, organized by Institute for Scientific and Engineering Research in Dubai.	April 28, 2018
5	Mr Shashi Kant Verma	Recipient of <i>Best Presentation Award</i> in 19 th International Conference on Nuclear Reactor Theory and Numerical Analysis organized by WASET, Bali Indonesia.	October 23-24, 2017
6	Dr. A. R. Singh	Best Track Paper Award at International Conference on IEOM at Bandung, Indonesia	7 th March 2018
7	Dr. R. K. Sahu	Who's Who in World (2018 Albert Nelson Marquis Lifetime Achievement Award)	5 th January 2018

Institute-Industry Collaboration Ongoing/New (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member(s)	Collaborating Institute / Organization	Area of Collaboration	Collaboration Activities
1.	Dr. Shubhankar Bhowmick and Dr. Vivek Gaba	Real Ispat Ltd, Raipur	Improving Slag Removal Mechanism	Design and fabrication of motorized slag removal mechanism
2.	Dr. Suraj Kumar Mukti	MNREGA State Cell	MOU between NIT Raipur and MNREGA State Cell is in process	Time and Motion Study (TMS)

Socially relevant activities

Sr.	Name of Faculty	Activity
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No.	Member(s)		
1.	Dr (Ms) S L Sinha	Newspaper article on contemporary issues such as Women Development, Yoga etc.	
2.	Dr. Shubhankar Bhowmick	Member, Governing Body of Kendriya Vidyalaya Sangathan School 2, Raipur	
3.	Dr. Shubhankar Bhowmick	Member of the Regional Advisory Committee (RAC) of KVS Raipur Regional Office	
4	Dr. Shubhankar Bhowmick	Member, Selection Committee, CG Laghu Vanopaj Sahakari Nigam, Raipur	
5	Dr. Srinivasu Gangi Setti	2nd International Conference on Nanotechnology and Nanomaterials in Energy (ICNNE2017) Lyon, France July 7-9, 2017	International Technical Committee Member
6	Dr. Mridul Singh Rajput	Provided talk at “Vigyanlok” programme of All India Radio (Akashvani) for broadcasting interesting science and technological topics related to research and teaching	

DEPARTMENT OF METALLURGICAL ENGG.

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	A.P.Rajimwale	Associate Professor	MTech
2.	Dr. Manoj Kumar Chopkar	Assistant Professor	PhD
3.	Dr. Manoranjan Kumar Manoj	Assistant Professor	PhD
4.	Dr. Subhas Ganguly	Assistant Professor	PhD
5.	Dr. Sudip Kumar Sinha	Assistant Professor	PhD
6.	Dr. Sanjeev Das	Assistant Professor	PhD

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended
(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Subhas Ganguly	DELIVERED INVITED LECTURE ON COMPUTATIONAL TECHNIQUES IN MATERIALS MODELLING	Nov 01-05, 2017 AT NIT ROURKEL
2.	S. K. SINHA	<i><u>Advanced Materials</u></i> , at IEST, Shibpur, Kolkata organized by Society of Student Metallurgists, IEST Shibpur in association with IIM BESU Chapter-Department of Metallurgy and Materials Engineerig	25 th October, 2017, IEST Shibpur, Howrah, W.B.
3.	Dr. Neha Gupta	Invited Expert Lecture on “ Manufacturing of Metal Foam and Lattices: Casting, Powder Metallurgy, 3D printing, Electro Deposition and Vapor Deposition ” in One Week Short Term Training Program on “Advanced Manufacturing Processes and Metallurgical Characterization”	5 th –9 th Dec 2017, NIT Raipur

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended
(From 01-04-2017 to 31-03-2018) [International]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	A.P.Rajimwale	(1). <u>Title of oral</u>	24 th TO 26 th

		<p><u>presentation</u> – Phase evolution criteria for AlCoCrCuFeMn Six(x=0, 0.3, 0.6, and 0.9), High Entropy alloys Based on Experiment and Thermodynamic Calculations.</p> <p>(2). Name of Event – International Joint Conference on Material Science and Mechanical Engineering (CMSME 2018).</p> <p>(3). Organiser – Asian Institute of Technology, Bangkok, Thailand</p>	February -2018 at Asian Institute of Technology, Bangkok, Thailand.
2.	DR. M K Manoj	<p>Principles of Joining – I (Fusion weld joints)</p> <p>Principles of Joining – II (Solid state weld joints)</p> <p>Short Term Course on Advanced Manufacturing Processes and Metallurgical Characterization</p> <p>Metallurgical and Mechanical Engineering</p>	05.12.17 NIT Raipur
3.	Subhas Ganguly	IMAGE PROCESSING OF SEM MICROGRAPH OF FERRITE AND PEARLITE STEEL FOR RECOGNITION OF MICRO CONSTITUENTS	Dubai UAE, June 2017
4.	S. K. SINHA	“Nanostructured materials for chemical sensors” at 3 rd International Conference on Composite Materials and Materials Engineering	on January 26-28 th 2018, National University of Singapore (NUS) ,

		(ICCMME-2018) organized by SAISE, NUS, Singapore.	Singapore
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Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	Advanced Manufacturing Processes and Metallurgical Characterization	M K Tripathi M K Manoj		5th to 9th Dec. 2017	Self Sponsored
2.	Computational Intelligence in Engineering Applications	M. K. Tripathi S. Ganguly Rakesh Tripathi		3rd to 7th Oct. 2017 NIT Raipur	Self Sponsored
3.	Advanced Manufacturing and Metallurgical Characterization	M. K. Tripathi M. K. Manoj S. Mukti		5th to 9th Dec. 2017 NIT Raipur	TEQIP funded
4.	STTP on COMPUTATIONAL INTELLIGENCE IN ENGINEERING APPLICATIONS	MK Tripathi Rakesh Tripathi And Subhas Ganguly (conv)		5 days	Self Sponsored
5.	STTP on ADVANCED TECHNIQUES IN	Dr. S K sinha Dr. Somnath		5 Days	TEQIP NITRR

	MULTISCALE MATERIALS MODELLING 2017 (ATMMM-17)	Bhattachariya and Subhas Ganguly (conv)			
6.	Oranized (Co-ordinator) TEQIP-III sponsored 5-days STTP on “ <i>Advanced Techniques on multiscale Materials Modeling</i> ” form	S. K. SINHA, S Ganguly, S. Bhattacharya	NA	09 th – 13 th , November, 2017.	TEQIP-III

Publications (National) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member’s name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	G. Avinash, V. Harika, Ch. Sandeepika and N. Gupta	<i>Pore Size Control in Aluminium Foam by Standardizing Bubble Rise Velocity and Melt Viscosity</i>	IOP Conference Series: Materials Science and Engineering, 338, 2018	DOI: 10.1088/1757-899X/338/1/012010

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member’s name in	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
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	BOLD}			
1.	Manwendra K. Tripathi, P.P. Chattopadhyay, Subhas Ganguly	A predictable glass forming ability expression by statistical learning and evolutionary intelligence	Intermetallics, 90 (9-15) 2017	http://dx.doi.org/10.1016/j.intermet.2017.06.008
2.	Neeraj Kumar, Manoranjan Kumar Manoj and M Kalyan Phani	Influence of Potential Scan Rate on Corrosion Behaviour of Heat Treated AA 7075 Alloy in Sulphuric Acid Solution	Material Science Research India vol-15 No. (1) 2018 Pg. No. 91-99.	www.materialsciencejournal.org
3.	Manwendra K Tripathi, PP Chattopadhyay, Subhas Ganguly	Evolutionary intelligence in design and synthesis of bulk metallic glasses by mechanical alloying	Journal Name 72, 300567/879-891, 2016	https://doi.org/10.1080/10426914.2017.1279305
4.	Akalabya Bissoyi, Abhishek Kumar Singh, Subrat Kumar Pattanayak, Arindam Bit, <u>Sudip Kumar Sinha</u> , Ashish Patel, Vishal Jain and Pradeep Kumar Patra	“Understanding the molecular mechanism of improved proliferation and osteogenic potential of human mesenchymal stem cells grown on a polyelectrolyte complex derived from non-mulberry silkfibroin and chitosan”,	Biomedical Materials, 13(1), 2017.	DOI: 10.1088/1748-605X/aa890c

Research and Consultancy

**Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/
Ongoing/New)**

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Development of Sustainable Metal Casting Technology for Low Greenhouse Emission	30-04-2018 To 29-04-2020	Royal Academy of Engineering, U.K.	45	Dr. Sanjeev Das (PI)

DEPARTMENT OF MINING ENGINEERING

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr. Pankaj Kumar Dewangan	Associate Professor & Head	PhD
2.	Dr. Manoj Pradhan	Professor	PhD
3.	Prof. B R Parate	Associate Professor	MTech
4.	Dr. P. Y. Dhekne	Associate Professor	PhD
5.	Prof. M D Patel	Associate Professor	MTech
6.	Dr. Ravi K Jade	Assistant Professor	PhD

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Manoj Pradhan	Mr. O. N. Tiwari	“Impact of Open Cast Copper Mining on Adjoining Natural Water Resources in Central India”

Achievement of outgoing students (UG) (From 01-04-2017 to 31-03-2018) [Only for Degree awarding Departments]

Student Placement

S. No.	Name of the Companies	No. of Students	Package (CTC)
1	VEDANTA	12	7.95 LPA
2	2S ASSOCIATES	1	6.4 LPA
3	WIPRO	1	6.1 LPA
4	CAPGEMINI	1	6 LPA
5	3DPLM	1	5.5 LPA
6	NUVOCO CEMENT	1	5.1 LPA
7	L& T UNITS	1	5.0 LPA
8	PRISM CEMENT	2	3.6 LPA
9	PRADAN	3	3 LPA
10	Allen (Off Campus)	1	4 LPA
11	Capital Aim	2	4.2 LPA
12	Solar Explosives Ltd., Nagpur	4	2.75 LPA
Total		30	5.40 LPA (Average)

Student Achievement (Academics)

Mr. Shubham Shrivastava of Batch-2018 has been selected for PMRF to pursue PhD program at IIT Kharagpur.

In Addition to this following students qualified in GATE and CAT 2018 Exam.

Sl. No.	NAME OF STUDENTS	EXAM	RANK	PERSUING
1	Narayan Dewangan	GATE	8	Vedanta Limited
2	ShubhamShrivastava	GATE	82	PhD from IIT Kharagpur
3	OmprakashSahu	GATE	95	M.Tech From IIT BHU

4	Abhay Raj Choudhary	GATE	95	
5	Romesh Kushwaha	GATE	99	
6	Adil Philip Mathew	GATE	138	M.Tech from IIT Kharagpur
7	S S K Praharsha Mantha	GATE	181	M.Tech From IIT BHU
8	Koruprolu Mani Ganesh	GATE	202	M.Tech From IIT BHU
9	Shivam Singh	GATE	207	
10	Ravula Chandra Hasan	GATE	288	M.Tech from IIT Kharagpur
11	Shubham Choudhary	GATE	332	
12	Vishal Kumar	GATE	356	Vedanta Limited
13	Pratik Tiwari	GATE	361	
14	Shibasoumya Ghosh	GATE	377	
15	Aman Sahu	GATE	533	
16	Ranjeet Shrey	GATE	535	Prism Cement
17	Sushil Kumar Prabhat	GATE	543	
18	Rahul Bag	GATE	543	Vedanta Limited
19	Sushil Kumar Prabhat	GATE	543	
20	Idris Mohammad Rangej	GATE	550	Prism Cement
21	Aditya Hansda	GATE	560	Pradan
22	Mitendra Singh Jalan	GATE	637	Pradan
23	Saurabh Kutar	GATE	711	
24	ShubhamFulmali	GATE	853	Pradan

25	Indiwar Raj	CAT	NA	2S Associates
26	Utkarsh Choubey	CAT	NA	3DPLM
27	Sushil Kumar Prabhat	CAT	NA	
28	Deepanshu Pal	CAT	NA	

Student Achievement (Curricular)

S.No.	Academic Year	Student name	INSTITUTE	EVENT	POSTION
1.	2017-18	Pushpraj Kaushik	ISM, Dhanbad	KHANAN 17	1st
2.	2017-18	PushprajKaushik	ISM, Dhanbad	KHANAN 17	2nd
3.	2017-18	PushprajKaushik	ISM, Dhanbad	KHANAN 17	3rd
4.	2017-18	Shivam Mishra	ISM, Dhanbad	KHANAN 17	1st
5.	2017-18	Shivam Mishra	ISM, Dhanbad	KHANAN 17	2nd
6.	2017-18	Shivam Mishra	ISM, Dhanbad	KHANAN 17	3rd
7.	2017-18	UtkarshTiwari	ISM, Dhanbad	KHANAN 17	2nd
8.	2017-18	UtkarshTiwari	ISM, Dhanbad	KHANAN 17	3rd
9.	2017 –18	ShashankSahu	NIT, Raipur	AAVARTAN 17	2nd
10.	2017-18	Avinash Kumar	NIT, Raipur	AAVARTAN 17	2nd
11.	2017-18	Avinash Kumar	NIT, Raipur	AAVARTAN 17	2nd
12.	2017-18	ShashikantPandey	NIT, Raipur	SAMAR-2017	
13.	2017-18	PushprajKaushik	NIT, Raipur	SAMAR-2017	
14.	2017-18	LukkaVamsi Krishna	NIT, Raipur	ORIANA 17	1st

15.	2017-18	PushprajKaushik	NIT, Raipur	ORIANA 17	1st
16.	2017-18	Mitendra Singh Jalan	NIT, Raipur	ORIANA 17	2nd
17.	2017-18	Mitendra Singh Jalan	NIT, Raipur	ORIANA 17	
18.	2017-18	Tarun Kumar Pandey	IIT, Kharagpur	GREAT STEP 2017	
19.	2017-18	Chandra Shekhar	IIT, Kharagpur	GREAT STEP 2017	
20.	2017-18	Domeshwar Prasad	IIT, Kharagpur	GREAT STEP 2017	1st
21.	2017-18	Deependra	NIT, Agartala	AIINFKKYT 2017	Runner -Up
22.	2017-18	Deependra	NIT, Agartala	AIINFKKYT 2017	2nd
23.	2017-18	Deependra	Pt. RSSU, Raipur	4th NYSC	3rd
24.	2017-18	Deependra	VICON, Raipur	3rd SYSC-2017	
25	2017-18	AyushAgrawal	MDAQP, Joda (Odisha)	Mineral Quiz	
26	2017-18	UtkarshTiwari	MDAQP, Joda (Odisha)	Mineral Quiz	

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-
Attended(From 01-04-2017 to 31-03-2018) [National]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Pradhan M, Balakrishnan V,	DAG Blasting ; An	Sambalpur, Odisha

	Pathak K	innovative Cost Effective Blasting Technique, MGMI	
2.	Dewangan P K, Pradhan M	Slope Stability Analysis Using Shear Strength Reduction Technique: A Case study of Limestone Mine, RTMTG 2017	August 5, 2017, NIT Raipur
3.	Pradhan M , Tiwari O.N., Shukla A K, Nandy T	Review of Impact of Mining and Beneficiation on Natural Environment, RTMTG 2017	August 5, 2017, NIT Raipur
4.	Jade R K, Pradhan M, Sunita	Environmental Quality Evaluation and Human Health Issues, RTMTG 2017	August 5, 2017, NIT Raipur
5.	Balakrishnan V, Pradhan M, Pathak K	Performance Analysis of Distributed Spherical Air Gaps in Explosive Column for Surface Mine Blasts, RTMTG 2017	August 5, 2017, NIT Raipur
6.	Sinha V K, Dewangan P K, Vishwakarma N K	Beneficiation of Iron Ore Slime in India–A Future Iron Ore Prospective	August 5, 2017, NIT Raipur
7.	Seervi V, Sahu V	Overview of Active and Passive Systems for Treating Acid Mine Drainage, RTMTG 2017	August 5, 2017, NIT Raipur
8.	Parate B R, Patel MD	Application of LiDAR Technology in Mining Environment, RTMTG 2017	August 5, 2017, NIT Raipur

9.	Vineet Kumar Sinha, Pankaj Kumar Dewangan & N. Vishwakarma	Mitigation of environmental problems from the dumps of iron ore slime through beneficiation techniques, AMEGGC-2017	December 2, 2017, NIT Raipur
10.	Modi Manoj and DewanganPankaj	Upgradation of low grade bauxite ore by dry beneficiation techniques, AMEGGC-2017	December 2, 2017, NIT Raipur
11.	M.D. Patel, Subhenndu Mishra, DinkarTiwari and PoojaChandrakar	Study of Hybrid Successive Alkalinity Producing System for Passive Treatment of Acid Mine Drainage, AMEGGC-2017,	December 2, 2017, NIT Raipur
12.	Patel Sikha, Patel MD	Environmental problem due to acid rock drainage from tunneling and construction site : an overview study National conference on sustainable mining practices	NIT Rourkela
13.	Dewangan P K., Tiwari Dinkar, Mishra Shubendu	Recent Advancement in Mine Mapping Techniques, All India Mine Surveyor's Meet, , MEAI	May 12-13, 2017, Hyderabad
14.	Dr. Manoj Pradhan, Prince Kumar, Kamlesh Sahu, Piyush Jain	Fly ash utilization in mining sector: Indian scenario AMEGGC-2017	December 2, 2017, NIT Raipur

**Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended
(From 01-04-2017 to 31-03-2018) [International]**

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Dr. Manoj Pradhan	An Investigation into the Use of Surface Miner for Hard Rock Surface Mining 7th Asian Mining Congress Organized by MGM	8-11 Nov 2017, Kolkata
2.	Pradhan M	Mixing of fly ash in coal Mine overburden dump: an Eco-Friendly Method Of fly ash Disposal 8th International conference on environmental science and development- (ICESD)	Frankfurt Germany
3.	Pradhan M, Jena S K , Lokhande R, Pradhan K	Analysis of strata control monitoring in underground coal mines for apprehension of strata movement International Conference on Recent Advance in Rock Engineering	Banglore
4.	Dhekne P.Y., Nawal Kishore, Romil Mishra	Minimization of surface mining costs using Artificial Neural Network International Conference on Innovations in Engineering and	22-23 March 2017, London, UK

		Technology	
5.	Dewangan P K	<p>A Comparison of Slope Stability Analysis of Excavated Mine Benches of a Limestone Mine Using 2D and 3D Numerical Modelling Approach</p> <p>5th the International Conference on Advancement in Engineering, Applied Science and Management(ICAEASM-2017),</p>	Bengaluru
6.	Lokhande, R D, Sahu Poonam, Pradhan M. Dewangan P	<p>Impacts of Sinkhole Subsidence on Environment; Issues and Challenges</p> <p>18th International Conference on Envirotech, Cleantech and Greentech,</p>	9-10 June 2017, Rome, Italy
7.	Dewangan P K, Hitesh, B. Patel R.Lokhande R.D., Agarwal A	<p>Fly ash mixing with Mine Overburden Dumps: An Enviro-friendly, Clean and Green Method of Disposal.</p> <p>18th International Conference on Envirotech, Cleantech and Greentech</p>	9-10 June 2017, Rome, Italy
8.	Dewangan P K. Daithankar Sunil, kumar Vishal,	Coal Pillar Extraction by continuous miner using Fish and Tail Method-A	26 Dec. 2017, Pune, India

	ShekharSiddharth	case study	
		International Conference on Recent Advances in Science, Technology and Engineering (ICRASTE)	

Seminar/Workshops/Conferences/Short term Courses Organized (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of the Programme (National/International)	Coordinator(s)	Key Note Speaker (if any)	Period	Funding Agency/Self Sponsored
1.	National Conference on “Recent Trends in Mining Technology and Geosciences”	Dr. M. Pradhan and Dr. P.Y. Dhekne		August 5, 2017	Self Sponsored
2.	STTP on “Advanced Computational Techniques in the field of Mining Engineering”	Dr. P. Dewangan and Dr. Ravi K. Jade		November 13 To 17, 2017	Self Sponsored
3.	National Conference on “Advances In Mine Environment, Geotechnique & Ground Control”	Dr. P. Dewangan and Dr. Ravi K. Jade		December 2, 2017	TEQIP
4.	Technical Writing in Science Framework to Empower Quality Research	Dr. P. Y. Dhekne		December 5 To 9, 2017	Self Sponsored

Publications (International) (From 01-04-2017 to 31-03-2018)

Sr.	Author(s) {If the number is more	Title of Paper	Name of the Journal Vol. No., Issue No.	DOI/Web
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No.	than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}		(if any)/Pg. No. , Year	link ISSN/ISBN
1.	Pradhan M , Tiwari O N, Devdoss C, Nandy T	Pattern Recognition Techniques For Evaluating The Special Impact Of Copper Mining On Surface Waters,	International Journal Of Environment Science And Tech,	1735-1472
2.	Dewangan P. K. , Pradhan M, Ramtekkar G.D.	An Investigation Into Compaction California Bearing Ratio And Shear Strength Behaviour Of Coal Mine Overburden Dump Material Mixed With Fly Ash‘	International Journal of Earth Sciences And Engineering	09745904
3.	Tiwari O N, Shukla A K, Pradhan M, Nandy T	Migration Of Copper To Nearby Adjoining Surface Water Bodies from Tailing Impoundment Of An Open Pit Copper Mine	ECOLOGY, ENVIRONMENT AND CONSERVATION,	0971-765X
4.	Verma L, Dhekne PY, Jharia DC, Dewangan P.K	Predicting Dangerous Seismic Events In Active Coal Mines Through Data Mining	International Journal Of Applied Engg. Research, Volume 12, Number 5,	0973-4562
6.	Jade R K	Investigations On The Impacts Of Mining Activities On Water Bodies And Its	International Journal Of Engineering Technology Science And Research, Dec	2394-3386

		Mitigation Measures	2017,	
7.	Jade R K	Remote Sensing And GIS Enabled Approach For Environmental Impact Assessment In Mining Industry	International Journal Of Engineering Technology Science And Research, Nov-2017,	2394-3386
8.	Jade R K	Scalable Hyperspace Partitioning Based Data Pre-processing Algorithm For Distance metric Based Clustering In Data Mining	International Journal Of Applied Engineering Research, Apr-2017	0973-4562
9	PankajDewangan, KamleshSahu	Fly Ash disposal with Coal Mine Overburden: An alternative slope stability	International Journal of Science and Research (IJSR), Volume 6 Issue 12, December 2017	2319-7016
10	Jharia DC, Kumar Tarun, Dewangan Rakesh, Pal Dharam And Dewangan P. K,	Assessment Of Ground Water Quality Index For Drinking Purpose In The Durg District, Chhattisgarh Using Geographical Information System (GIS) And Multi Criteria Decision Analysis (MCDA) Techniques,	Geological Society Of India,	0016-7622 (88)

Research and Consultancy

**Sponsored Research Projects (Completed during (From 01-04-2017 to 31-03-2018)/
Ongoing/New)**

Sr. No.	Title of the Project	Period	Funding Agency	Amount (in lakhs of Rs.)	Investigators (PI/Co-PI)
1.	Ground vibration study at Ambuja Cement , Rawan Limestone mine	2017-18	Ambuja Cement, Rawan	4.67	Dr. P.Y. Dhekne
2.	Preparation of separate report for Blasting & Slope Stability study of RisdaKukurdi Limestone mine as per the term and condition stipulated in EC	2017-18	Emami Cement Limestone Mine, Baloda Bazaar	2.95	Dr. P. K. Dewangan, Dr. Manoj Pradhan
3.	Study of ground vibration for optimum charge per delay	2017-18	South Eastern Coalfields Limited, Hasdeo Area	4.72	Dr. Manoj Pradhan, Dr. Pankaj Dewangan
4.	Stability analysis of back filling of mine void with fly ash in Chotia I opencast coal mine.	2017-18	M/s Balco, Korba	11.8	Dr. Manoj Pradhan, Dr. Pankaj Dewangan
5.	Study of Blasting and ground vibration	2017-18	M/s Century Cement, Baikunth	4.5	Dr. P Y Dhekne
6.	Slope Stability Study	2017-18	Sri Balalji Metals and Minerals	2.36	Dr. Pankaj Dewangan, Dr. Manoj Pradhan

7.	Blasting & Slope Stability study of RisdaKukurdih	2017-18	Emami Cement Limestone Mine, Baloda Bazaar	6.21	Dr. Manoj Pradhan, Dr. Pankaj Dewangan
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Institute-Industry Collaboration Ongoing/New (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Faculty Member(s)	Collaborating Institute / Organization	Area of Collaboration	Collaboration Activities
1.	Dr. P. Y. Dhekne, Dr. S. P. Mahapatra, Dr. S. Penta	Sponsored R&D Project by National Mineral Development Corporation	Mining	Feasibility studies on removal of contaminants from surface and ground water of Bailadila Iron Ore Mine Project and Peripherals

Brief Details of Important Lab

[Highlight the facilities being used for purposes of PG, PhD as well as Research and Consultancy. Make separate section for different labs as well as different streams and mention the same on top].

NAME OF LAB	MAJOR EQUIPMENT AVAILABLE
Rock Mechanics	Universal Testing Machine, Triaxial Cell, Protodyaknov test apparatus, Point Load test apparatus, Direct Shear test apparatus for aggregates and rock joints, Schmidt hammer, Core Drill Machine, Rock cutting machine, Sample grinding machine, Compaction test app., Atterberg limits test app etc.
Mine Environment	UV Spectrophotometer, Automatic Weather monitoring station, Sound level meter, Pitot Static Tube, Psychrometer, Personal dust sampler etc.
Mine Surveying	RTK DGPS, Theodolite, Electronic Theodolite, Tachometer, Levels, Total Station, GPS, Planimeter, Pantagraph, Ediograph
Computer	More than 25 Computers with Internet connection supporting different

Laboratory	languages like C,C++,JAVA etc. and mining software like WIPFRAG, FLAC 3D. FLAC 2D, Flac/ Slope, BLASTWARE, SURPAC, MINEX, OYSIS SLOPE, JKSIM Blast etc.
Mineral Dressing	Crushers, Grinding mills, Ore conditions, Wilfity table, Flotation , Thickness vibrating screen
Blasting Engineering	3 Nos, of Seismograph, VOD mate
Mining Machinery	Models of various types of Pumps, Winding equipments, Cage suspension and parts thereof ,Compressor, Drill machines, Drill bits Gate end box and Drill panel

DEPARTMENT OF PHYSICS

Faculty

Sr. No.	Name of Faculty	Designation	Qualifications
1.	Dr.Sadhana Agrawal	Professor	PhD
2.	Dr. A. K. Shrivastav	Professor	PhD
3.	Dr. Ayush Khare	Assistant Professor	PhD
4.	Dr. B. K. Sahoo	Assistant Professor	PhD
5.	Dr. Sapan Mohan Saini	Assistant Professor	PhD

Doctoral Thesis Completed Only (PhD) (From 01-04-2017 to 31-03-2018)

Sr. No.	Name of Supervisor	Name of the Scholar	Title of the Thesis
1.	Dr. Ayush Khare	Mrs. Shubhra Mishra	Structural and Optical Studies of Ce ³⁺ and Dy ³⁺ Doped SrS Phosphor and SrS: Ce ³⁺ Thin Films
2.	Dr. Ayush Khare	Mrs. G. Nag Bhargavi	Investigation of Structural, Electrical and Optical Behaviour of Rare-earth Doped Barium Zirconium Titanate (BZT) Perovskite

			Type Compound
3.	Dr. B. K. Sahoo	Mr. Vikas Gedam	Thermal properties of InGaN/GaN Heterstructures
4.	Dr. B. K. Sahoo	Mr. Goutam Mohanty	Nitride-Graphene Plasmonic biosensor
5.	Dr. Sapan Mohan Saini	Saurabh Samanta	First Principle Calculations of electronic and optical properties of spinel compounds using PBE and TB-mBJ schemes

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered- Attended (From 01-04-2017 to 31-03-2018) [National]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation , Name of Event, Organizer	Dates and Venue
1.	Dr. B. K. Sahoo	Thermoelectricity and InGaN/GaN Heterostructures, Conference on Advanced Materials, Noida, UP, India	1-March 2018
2.	Dr. Sapan Mohan Saini	First Principle Calculations of Density of Electronic States and optical Conductivity of spinel ZnIr ₂ O ₄ using PBE and TB-mBJ Potentials	23/7/17 ICRISSET-Mumbai IEEE forum

Seminar/Workshops/Conferences/Short term Courses/Special Lectures Delivered-Attended (From 01-04-2017 to 31-03-2018) [International]

Sr. No.	Name of Faculty	Title of Oral/Poster Presentation Title, Name of Event, Organizer	Dates and Venue
1.	Sadhana Agrawal	Synthesis and characterization of rare earth activated barium zirconate ceramic, International Joint Conference CMSME (2018),	Feb 24-26, 2018, Bangkok, Thailand.

2.	S. M. Saini	First Principle study of electronic and optical properties of YNi ₄ Si-type HoNi ₄ Si Compound	19 th International Conference on Advanced Material Engineering and Technology (ICAMET 2017), 19 th -20 th May 2017, Dubai, UAE
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Publications (International) (From 01-04-2017 to 31-03-2018)

20

Sr. No.	Author(s) {If the number is more than five then after the names of first five authors write <i>et al.</i> and write the Faculty member's name in BOLD}	Title of Paper	Name of the Journal Vol. No., Issue No. (if any)/Pg. No. , Year	DOI/Web link
1.	Shambhavi Katyayan, Sadhana Agrawal	Effect of rare earth doping on optical and spectroscopic characteristics of BaZrO ₃ :Eu ³⁺ , Tb ³⁺ perovskites	Methods Appl. Fluoresc.6(2018, 035002.	https://doi.org/10.1088/2050-6120/aaae0b
2.	Tarkeshwari Verma, Sadhana Agrawal	Luminescent properties of Eu ³⁺ co-doped Y ₂ O ₃ : Dy ³⁺ phosphors synthesized via ceramic route	Journal of Materials Science Materials in Electronics, Volume 29 (2018), Issue 9, pp 7832–7841.	https://doi.org/10.1007/s10854-018-8782-0
3.	Tarkeshwari Verma, Sadhana Agrawal	Optical studies and estimation of kinetic parameters for dysprosium activated yttrium oxide phosphors	Optik, Volume 160, (2018), Pages 361-370.	https://doi.org/10.1016/j.ijleo.2018.02.015
4.	Tarkeshwari Verma, Sadhana Agrawal	Photoluminescent and thermoluminescent studies of Dy and Eu doped Y ₂ O ₃ phosphors	Journal of Fluorescence, Volume 28 (2018), Issue 1, pp 453–464.	https://doi.org/10.1007/s10895-018-2208-5
5.	Shambhavi Katyayan, Sadhana Agrawal	Dynamics of concentration quenching in Eu and Tb doped	Journal of Materials Science	https://doi.org/10.1007/s10854-017-8156-z

		calcium dioxide-oxo-zirconium perovskite,	Materials in Electronics, Volume 29 (2018) Issue 3, pp 2373–2383.	
6.	Shambhavi Katyayan, Sadhana Agrawal	Investigation of spectral properties of Eu and Tb doped strontium zirconium trioxide orthorhombic perovskite for optical and sensing applications	Journal of Materials Science Materials in Electronics, Volume 28 (2017), Issue 24, pp 18442–18454.	https://doi.org/10.1007/s10854-017-7791-8
7.	Tarkeshwari Verma, Shambhavi Katyayan Sadhana Agrawal	Thermoluminescence analysis of UV irradiated $Y_2O_3:Sm^{3+}$ phosphors	Materials today Proceedings 4 (2017) pp9602–9606	https://doi.org/10.1016/j.matpr.2017.06.232
8.	Tarkeshwari Verma, Shambhavi Katyayan Sadhana Agrawal	Synthesis and Photo luminescent properties of Dy^{3+} doped y_2O_3 phosphor	Materials today Proceedings 4 (2017) pp10474-10478	https://doi.org/10.1016/j.matpr.2017.06.403
9.	Shambhavi Katyayan, Sadhana Agrawal	Synthesis and Investigation of Structural and Optical Properties of Eu^{3+} Doped $CaZrO_3$ Phosphor	Materials today Proceedings 4 (2017) pp8016-8024	https://doi.org/10.1016/j.matpr.2017.07.139
10.	Shubhra Mishra, D.S.Kshatri, Ayush Khare, Sanjay Tiwari, Prabhat K. Dwivedi	Fabrication, characterization and electroluminescence studies of $SrS:Ce^{3+}$ ACTFEL device	Materials Letters Vol. 198 Year 2017 Page 101-105.	https://doi.org/10.1016/j.matlet.2017.04.013
11.	G. Nag Bhargavi, Ayush Khare, Tanmaya Badapanda, M Shahid Anwar and Nameeta Brahme	Electrical characterizations of $BaZr_{0.05}Ti_{0.95}O_3$ perovskite ceramic by impedance spectroscopy, electric modulus and conductivity	Journal of Material Science: Materials in Electronics Vol. 28, Year 2017, Page 16956-16965.	DOI: 10.1007/s10854-017-7617-8
12.	Devjyoti Lilhare, Tarkeshwar Sinha and Ayush Khare	Influence of Cu doping on optical properties of (Cd-Zn)S nanocrystalline thin films: A Review	Journal of Material Science: Materials in Electronics, Vol. 29 Year	https://doi.org/10.1007/s10854-017-7963-6

			2018, Page 688-713.	
13.	Tarkeshwar Sinha, Devjyoti Lilhare and Ayush Khare	Effects of various parameters on structural and optical properties of CBD grown ZnS thin films: A Review	Journal of Electronic Materials Vol. 47, Year 2018, Page 1730-1751.	https://doi.org/10.1007/s11664-017-5876-z
14.	G. Nag Bhargavi, Ayush Khare, Tanmaya Badapanda, Priyadarshi K. Ray and Nameeta Brahme	Influence of Eu doping on the structural, electrical and optical behavior of Barium Zirconium Titanate ceramic	Ceramics International Vol. 44 Year 2018 Page 1817-1825.	https://doi.org/10.1016/j.ceramint.2017.10.116
15.	Piyush Jha, Ayush Khare, P. K. Singh, V. K. Chandra and V. D. Sonwane	Ball impact induced elastico - mechanoluminescence for impact sensor	Journal of Luminescence , Vol. 195 Year 2018 Page 40-43.	https://doi.org/10.1016/j.jlumin.2017.10.063
16.	Shweta Sharma, Nameeta Brahme, D. P. Bisen, Pradeep Dewangan, Shalinta Tigga, Geetanjali Tiwari and Ayush Khare	Study on photoluminescence and thermoluminescence properties of UV-irradiated CaSrAl ₂ SiO ₇ :Ce ³⁺ phosphors	Journal of Material Science: Materials in Electronics , Vol. 29 Year 2018 Page 1412-1419.	https://doi.org/10.1007/s10854-017-8048-2
17.	R. Bisen, J. Tripathi, A. Sharma, Ayush Khare, Yogesh Kumar and S. Tripathi,	Optical Behaviour Of Coumarin Dye In PVA and PMMA Film Matrices	Vacuum , Vol. 152 Year 2018 Page 65-69.	https://doi.org/10.1016/j.vacuum.2018.03.004
18.	G. Hansdah and B. K. Sahoo	Pyroelectricity and InN/GaN Heterostructures	Journal of Physics and Chemistry of Solids, 117(2018) 111	
19.	Saurabh Samanta and Sapan Mohan Saini	Band gap engineering and optical response of the ACr ₂ S ₄ (A=Fe, Co) normal spinels using PBE+U and TB-mBJ potentials	Journal of Physics and Chemistry of Solids 102(2017) 130-135	Saurabh Samanta and Sapan Mohan Saini
20.	Saurabh Samanta and Sapan Mohan Saini	Role of Cr-d states in the electronic and optical properties of the CdCr ₂ X ₄ (X = S, Se) normal ferromagnetic spinels using PBE+U	Journal of Materials Research 32, issue 12 (2017) 2431-	Saurabh Samanta and Sapan Mohan Saini

		and TB-mBJ potentials	2437	
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Research and Consultancy

Socially relevant activities

Sr. No.	Name of Faculty Member(s)	Activity		
1.	Dr.Sadhana Agrawal	Nodal Officer, Ekbharatshresthabharat (a flagship program of Govt. of India)	Diya Decoration and Lighting	10.10.2017
			Uttarayan- The Kite Festival	13.01.2018
			Food Fiesta Event	23.02.2018
			Gujarati Group Theater	23.02.2018
			Sketching Art Marathon	24.02.2018
			Rangoli Competition	24.02.2018
			Embroidery Workshop	25.02.2018

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 1. **Name of the Department:** Central Library

2. **Resources added to Central Library Collection:**

In 2017-18, 2871 numbers of print books amounting approximately Rs 28.5 lakhs were added to the library collection. The e-books collection was also enriched by the purchase of 3631 e-books amounting nearly 1 Crore rupees and access to more than 1.5 lakhs + of e-books on yearly subscription basis. 10 full text online databases of journals (e-journals) ,01 bibliographic database(SCOPUS) were subscribed during the period. Also the Central Library subscribed EBSCO Discovery service, Turnitin Feedback studio-anti plagiarism software and Remote X during 2017-18 The Springer protocols having collection of 30000+ protocols were added to the collections of the Central library. Also 37 print journals, 31 magazines and 16 numbers of newspapers were subscribed during the period.

3. **Faculty members Details:**

S.N	Name of faculty	Designation	Qualification
1	Dr. Sunil Kumar Satpathy	Dy.Librarian	M.Lib.I.Sc.,M.A, Ph.D(LIS), DCA, PGDLAN
2	Mr Ajay Kumar Sharma	Asst.Librarian	M.A, M.Lib.I.Sc
3	Dr. Neelam Soni	Asst.Librarian	M.Lib.I.Sc, M.A, MS Office, Ph.D. (Lib. & Information Science)

4. **Seminar/Workshops/Conferences/Short term courses attended**

S.N	Faculty	Attended	Date	International/ National
	Dr Sunil Kumar Satpathy	1.One Week National level STTP on “Technical writings in Science framework to Empower Quality Research” (As STTP Coordinator)	5 th -9 th Dec.2017	National
		2.National seminar on “Role of libraries in promoting quality education and research” (As Organizing Secretary)	8 th -9 th Dec. 2017	National
		3.TEQIP-III sponsored One Week Workshop on “Technicalities of Writing of Research Paper”, organized by Dept of Chemical Engg, NIT, Raipur (delivered an	9 th to 13 th Dec.2017	National

		Expert lecture) 4.NDL partnership meet and National Workshop on “Copyright considerations for Digital Libraries” at IIT Kharagpur,West Bengal organized by National Digital Library(NDL) of India	8 th to 10 th Feb 2018	National
3	Mr Ajay Kumar Sharma	1.One Week National level STTP on “Technical writings in Science framework to Empower Quality Research” 2.National seminar on “Role of libraries in promoting quality education and research”	5 th -9 th Dec.2017 8 th -9 th Dec. 2017	National National
4	Dr. Neelam Soni	1.One Week National level STTP on “Technical writings in Science framework to Empower Quality Research” 2.National seminar on “Role of libraries in promoting quality education and research”	5 th -9 th Dec.2017 8 th -9 th Dec. 2017	National National

5. **Training Program/Seminar/Workshops/Conferences/Short term courses organized by the Central Library**

S.N	Events	Date	International/ National
1	Elsevier Author Workshop on "Scholarly Publishing"	12th April 2017	Institutional
2	Users Training Program on “Web of Science”	26 th September 2017	Institutional

3	Springer nature Author workshop on “Scholarly Writing and Publishing”	25 th October 2017	Institutional
4	One Week National level STTP on “Technical writings in Science framework to Empower Quality Research”	5 th -9 th Dec.2017	National
5	National seminar on “Role of libraries in promoting quality education and research”	8 th -9 th December 2017	National

6. Publications of Faculty Members

S.N	Faculty	Publication Details	Date
1	Dr. Sunil Kumar Satpathy	<ol style="list-style-type: none"> 1. Use of Social Networking Sites (SNSS) by the faculty members of PRS University, Raipur: a study/Sunil Kumar Satpathy and S. R. Kashyap. KIIT Journal of Library and Information Management , 4 (1),Jan - June 2017,50-56 (Article can be accessed online at http://www.publishingindia.com) 2. Use of library resources by the students of private engineering colleges: a case study of Odisha /Tapas Kumar Bhuyan, Sunil Kumar Satpathy and Anita Patra. International Journal of Research in Library Science.3(1),Jan-June 2017,p.121-130.(http://ijrls.in/wp-content/uploads/2017/04/use-of-library-resources-by-the-students-of-private-engineering-colleges-a-case-study-of-odisha.pdf) 3. Exploring E-Resources in Modern Academic libraries: A study/S.K.Satpathy.In S.Sethy & R.K.Mahapatra(Eds).Managing library in Electronic Era: Principles and practice.P.97-105.Ess Ess Publications,New Delhi.2017(ISBN-978-81-933597-5-4) 	Published Between 1/4/2017 to 31/3/2018

2	Dr. Neelam Soni	1.Development of libraries and Professionals through seminar and conferences/ Neelam Soni. In Sunil Kumar Sathpathy and Debraj Mehar (Eds.). Librarianship: An avenue for professional, semi-professional or dumm- professional. (Online annual issue of lisforum_orissa), p. 75-76. http://groups.yahoo.com/neo/groups/lisforum_orissa/info	October 2017
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6.3 DISPENSARY

The institute has a dispensary with following working physician.

Dr. Sanjeev Pandey	Sr.Medical Officer	M.B.B.S.
Dr. Subha Koshley	Lady Medical Officer	M.B.B.S.& (D.O.M.S.)
Dr .Sameer Sonkar	Medical Officer	M.B.B.S.
Dr. Nalini Rajimwale	Homeopathy Physician (Contract)	D.H.B.

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 2017-18 **16652**(Allopathic) & 2548 (Homeopathy)
2. Total number of blood investigation done at NIT dispensary 2017-18 : **1347**
3. Referral cases : **316** (For year 2017-18)
4. Centre for PPI (Pulse polio immunisation) programme 2017-18 (100% Target achievement within the campus)
5. Centre for National Filariasis programme. (100% Target achievement within the campus)

6.4 GAMES & SPORTS

Dr. Alok Kumar Dubey

SAS Officer

MPh., PhD

6.5 HOSTELS & STAFF QUARTERS

The Institute has 5 No's of boys' Hostels (A, B, C, D & F.). Each hostel has housing capacity of 100 students. There are facilities for residing UG as well as PG students. There are three girls' hostels (E, G and PG Girl's hostel), Hostel E has housing capacity of 100 students, Hostel G has housing capacity of 200 students & PG Girls Hostel has housing capacity of 40 students. Each hostel is well equipped, with Sports facilities like; Carom, Chess, Volleyball, Football, Cricket & Table-tennis. There is sufficient infrastructure like iron cots, chairs, tables for the students. In hostel campus, there is also a gymnasium for work out for the students. Maintenance of hostel is done by the Estate Office.

There are sufficient numbers of quarters for the staff members.

6.6 WORKSHOP

WORKSHOP INCHARGE - SHAILESH VAIDYA {PhD (pursuing) ,M.E (IE&M) ,DIM}

PAPER PUBLISHED

1. Identification and Analysis of the Barriers for Autonomous Car: An Interpretive Structural Modeling Approach. International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) Vol. 3, Issue 5, May 2016

Workshop Facilities availed by:

I & II SEMESTER STUDENTS (ALL BRANCH),

IV SEMESTER MECHANICAL STUDENTS,

M. TECH MECHANICAL,

PhD SCHOLARS OF DIFFERENT DEPARTMENTS

Apart from the academic duties of the above mentioned, WORKSHOP also extends research and fabrication related support to students and faculties. Chiefly, WORKSHOP has facilitated, over the past few years, in fabrication of Vehicles for events like, SAE BAJA 2015-2016, Quad TORC 2016 and encouraged the students with active participation from the staff and W/S Incharge.

D. MACHINE LAB -

1. SHAPER MACHINE

2. MILLING MACHINE

3. POWER SAW

E. CARPENTRY LAB-

1. CIRCULAR SAW

2. POWER TOOLS-PLANNER, JIG SAW

F. FITTING LAB

1. GENERAL BENCH WORKING PRACTICES

G. MOULDING LAB

PREPARATION OF TWO MOULDS WITH THE HELP OF GREEN

SAND.



महानिदेशक, लेखापरीक्षा (केन्द्रीय प्राप्ति) नई दिल्ली का कार्यालय: 53/26/12/18
 शाखा-ग्वालियर, चतुर्थ तल, ऑडिट भवन, झांसी रोड,
 ग्वालियर - 474002 (म०प्र०)

Office of the Director General of Audit (Central Receipt)
 New Delhi, Branch-Gwalior, Audit Bhavan, Jhansi Road,
 Gwalior - 474002 (M.P.)

No. AMG-II/SAR-05/NIT,R/2017-18/D-270
 Date : 07.12.2018

NITR, O/o. Registrar
 Receipt No. 634/
 Date 26/12/18
 Confidential

To

The Director,
 National Institute of Technology (NIT),
 G.E. Road,
 Raipur-492010

Sub: Separate Audit Report on the accounts of National Institute of Technology
 (NIT), Raipur for the year 2017-18.

Sir,

Please find enclosed herewith the Separate Audit Report and Management Letter on the accounts of National Institute of Technology (NIT), Raipur for the year 2017-18. You are requested to kindly ensure that the SAR and the audited accounts are adopted by the Board of Governors before placing the same before the Parliament.

2. The dates of placement of the above Report on the table of both houses of the Parliament may please be intimated and two copies of the printed material may be provided to this office for information.

3. It may please be noted that the Management Letter is not to be placed before the Parliament.

4. Kindly acknowledge receipt.

DR (F&A) x 26/12/18
 AR (F&A)

Encl.: 1. Separate Audit Report
 with annexure
 2. Management Letter

Yours faithfully,

Dy. Director (Central)

Separate Audit Report of the Comptroller and Auditor General of India on the Accounts of the National Institute of Technology (NIT), Raipur (Chhattisgarh) for the year ended 31 March 2018.

We have audited the attached Balance Sheet of the National Institute of Technology (NIT), Raipur as at 31 March 2018, the Income & Expenditure Account and the Receipt & Payment Account for the year ended on that date under Section 19 (2) of the Comptroller and Auditor-General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 22(2) of the National Institute of Technology, Science Education and Research (Amendment) Act, 2016. These financial statements are the responsibility of the NIT's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller and Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining on a test basis, evidences supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis of our opinion.

4. Based on our audit, we report that:

(i) We have obtained all the information and explanations which to the best of our knowledge and belief, were necessary for the purpose of our audit.;

(ii) The Balance Sheet, Income & Expenditure Account and the Receipt & Payment Account dealt with by this report have been drawn up in the format approved by the Ministry of Human Resource Development Department, Government of India vide order no.29-4/2012-IFD dated 17 April 2015.

(iii) In our opinion, proper books of accounts and other relevant records have been maintained by the NIT Raipur as required under section 22(1) of the National Institute of Technology, Science Education and Research (Amendment) Act, 2016 in so far as it appears from our examination of such books.

(iv) We further report that:-

A. Balance Sheet

1. Sources of Funds

1.1 Current Liabilities & Provisions (Schedule-3) ₹ 49.37 crore

This does not include ₹ 4.03 crore being unspent grant. The unspent/unutilized grant-in-aid ₹ 12.43 crore during 2017-18, whereas only ₹ 8.40 crore has been disclosed under Current Liabilities. This resulted in understatement of Current Liabilities and overstatement of Corpus/Capital Fund by ₹ 4.03 crore.

2. Application of Funds

2.1 Investment Others (Schedule-6) - ₹ 57.82 crore.

This includes ₹ 57.82 crore being fixed deposits with bank. As per MHRD format Fixed Deposits with Banks are to be included in Current Assets. This resulted in overstatement of Investments (Others) and understatement of Current Assets by ₹ 57.82 crore.

B. General

1. Security deposits for electricity and others all are clubbed under security deposit (Schedule-8, Loans Advances and Deposits) whereas as per the revised format of accounts for Central Higher Educational Institutes (CHEIs) issued by MHRD, these were to be depicted separately as distinct heads.

2. Provisions for retirement benefits were not made on actuarial valuation basis which is in contravention of AS-15.

C. Management Letter

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

D. Grants-in-aid:

During the financial year 2017-18, NIT Raipur received grant-in-aid of ₹ 64.43 crore (₹ 16.99 crore was received in the month of March 2018). In addition, it had unspent balance of ₹ 7.42 crore of previous year and internal receipts of ₹ 33.16 crore (including interest earned on grant-in-aid). Thus out of the total available funds of ₹ 105.01 crore an amount of ₹ 92.58 crore was utilized leaving an unutilized balance of ₹ 12.43 crore.

- (v) Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and the Receipt & Payment Account dealt with by this Report are in agreement with the books of accounts.
- (vi) In our opinion to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts and subject to the significant matters stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.
- (a) In so far as it relates to the Balance Sheet, of the state of affairs of the National Institute of Technology, Raipur as at 31 March 2018; and
- (b) In so far as it relates to Income & Expenditure Account of the deficit, for the year ended on that date.

For and on behalf of the Comptroller and Auditor General of India

Place: - New Delhi

Date: - 07.12.2018

**Director General of Audit
(Central Receipts)**

Annexure

1. Adequacy of Internal Audit System:-

The Internal Audit was conducted by a Chartered Account firm.

The Internal Audit System is inadequate due to :

- i. There is no Internal Audit Manual in use.
- ii. 21 paras of Compliance Audit for the period 04/20017 to 12/2017 were still outstanding.

2. Adequacy of Internal Control System:

The internal control system was found to be inadequate due to :

- (i) There was no investment policy in currency at Institute.
- (ii) Item wise, highest and lowest levels of consumable stock have not been fixed and maintained.
- (iii) Dead stock and sanction registers were not maintained.
- (iv) Investment of provident fund balances has not been made as per the pattern of investment prescribed by the Ministry of Finance, GOI.
- (v) There is no mechanism to bifurcate the interest earned on Plan and Non-plan grants. The interest earned on Plan fund, Non-plan fund and Internal Revenue Generation of the Institute is being shown under the Non-plan head which was pointed out in previous years also.
- (vi) SAR of 2016-17 was issued to NIT Raipur as on 16.11.17 despite this same was sent to MHRD as on 07.03.18 for to be tabled in Parliament after lapse of three and half months.

3. System of Physical Verification of Fixed Assets:

Physical verification of Fixed assets has been conducted during the year.

4. System of Physical Verification of Inventories:

Physical verification of Inventories has been conducted during the year.

5. Regularity in payment of statutory dues:

No irregularity was noticed in the payment of statutory dues.

Handwritten signature
7/12/18
Sr. Audit Officer/AMG-II



DO. No. AMG-II/SAR/NIT, Raipur/2017-18/0-270
महानिदेशक लेखा परीक्षा (केन्द्रीय प्राप्ति) नई दिल्ली
डी.जी.ए.सी.आर. भवन, इन्द्रप्रस्थ ईस्टेट, नई दिल्ली-110 002

OFFICE OF THE DIRECTOR GENERAL OF AUDIT (CENTRAL RECEIPT),
D.G.A.C.R. BUILDING, INDRAPRASTHA ESTATE, NEW DELHI-110 002
TEL. : 91-011-23702250 FAX : 91-011-23702261
E-MAIL : dgacr@cag.gov.in

Sushil Kumar Jaiswal, IA&AS
Director General of Audit
(Central Receipt)

Dear *Dr. Rawani*

The annual accounts of the National Institute of Technology (NIT), Raipur for the year 2017-18 were audited and the audit report issued thereon. During the course of audit it was noticed that Receipts does not include ₹ 1.66 lakh being value of time barred cheques which have not written back as yet. This resulted in understatement of Receipts, Closing Balance, Current Assets and Current Liabilities & Provisions by ₹ 1.66 lakh.

You are, therefore, requested to kindly take necessary corrective action and intimate to us in due course.

Best Regards

Yours sincerely,

Dr. A M Rawani
Director
National Institute of Technology (NIT),
G.E. Road, Raipur-492010

NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR (C.G.)



FINANCIAL STATEMENTS FOR THE FINANCIAL YEAR 2017-18

NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR



BALANCE SHEET AS ON 31.03.2018

(Amount in ₹)

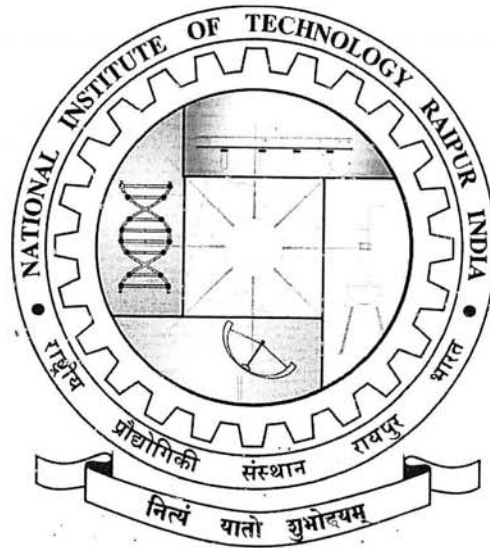
SOURCES OF FUNDS	Schedule	As on 31.03.2018	As on 31.03.2017
CORPUS/CAPITAL FUND			
CORPUS/CAPITAL FUND	1	2,170,566,822.99	2,020,647,087.45
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	111,165,327.00	83,206,851.00
CURRENT LIABILITIES AND PROVISIONS	3	493,718,785.82	354,079,456.22
TOTAL		2,775,450,935.81	2,457,933,394.67
APPLICATION OF FUNDS			
FIXED ASSETS	4		
TANGIBLE ASSETS		213,375,055.34	242,219,793.68
INTANGIBLE ASSETS		25,079,154.00	14,369,282.00
CAPITAL WORK-IN-PROGRESS		1,712,938,313.00	1,535,082,845.00
INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS	5	114,069,026.00	91,586,667.00
INVESTMENT- OTHERS	6	578,229,867.60	548,619,459.19
CURRENT ASSETS	7	109,772,967.62	-5,267,674.98
LOANS, ADVANCES & DEPOSITS	8	21,986,552.25	31,323,022.78
TOTAL		2,775,450,935.81	2,457,933,394.67
SIGNIFICANT ACCOUNTING POLICIES, CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS	23		


REGISTRAR
NIT RAIPUR


DIRECTOR
NIT RAIPUR


CHAIRMAN, BOG
NIT RAIPUR

INCOME & EXPENDITURE ACCOUNT
FINANCIAL YEAR 2017-18



NATIONAL INSTITUTE OF TECHNOLOGY
RAIPUR (C.G.)

NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR



INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDING 31.03.2018

(Amount in ₹)

Particulars	Schedule	For the period ended on 31st March,2018	For the period ended on 31st March,2017
INCOME			
ACADEMIC RECEIPTS	9	278,918,235.70	262,995,191.45
GRANTS/SUBSIDIES	10	358,000,000.00	152,000,000.00
INCOME FROM INVESTMENTS	11	34,423,314.00	29,592,843.44
INTEREST EARNED	12	394,264.00	557,207.00
OTHER INCOME	13	102,093,881.04	95,040,243.48
PRIOR PERIOD INCOME	14	0.00	0.00
TOTAL(A)		773,829,694.74	540,185,485.37
EXPENDITURE			
STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)	15	494,996,318.00	377,630,028.00
ACADEMIC EXPENSES	16	104,803,878.23	80,879,934.00
ADMINISTRATIVE & GENERAL EXPENSES	17	95,542,824.00	70,690,684.00
TRANSPORTATION EXPENSES	18	499,944.64	590,772.00
REPAIR & MAINTENANCE	19	6,902,174.00	4,542,851.00
FINANCE COSTS	20	14,988.65	15,792.40
DEPRICIATION	4	84,180,641.34	78,413,550.48
OTHER EXPENSES	21	0.00	0.00
PRIOR PERIOD EXPENSES	22	0.00	0.00
TOTAL(B)		786,940,768.86	612,763,611.88
BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE(A-B)		(13,111,074.12)	(72,578,126.51)
TRANSFER TO/FROM DESIGNATED FUND		0.00	0.00
BUILDING FUND			
OTHERS			
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CAPITAL FUND		(13,111,074.12)	(72,578,126.51)

SIGNIFICANT ACCOUNTING POLICIES, CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS


REGISTRAR
NIT RAIPUR


DIRECTOR
NIT RAIPUR


CHAIRMAN, BOG
NIT RAIPUR

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

SCHEDULE-1 CORPUS/CAPITAL FUND		(Amount in ₹)	
PARTICULAR	As on 31.03.2018		As on 31.03.2017
	Current Year	Previous Year	
CORPUS FUND			
Balance at the beginning of the year	2,007,275,927.20	1,804,002,515.16	
Add: Contribution towards Corpus/Capital Fund	5,846,825.00	6,535,648.00	
Add: Grants from UGC, GoI, SG to the extent utilized towards Capital Expenditure	243,901,243.00	275,151,311.52	
Add: Assets purchased out of Earmarked Funds	0.00	0.00	
Add: Assets purchased out of Sponsored Projects, where Ownership vests with the institute	0.00	3.00	
Add: Assets Donated / Received as Gifts	0.00	0.00	
Add: Other Additions	0.00	0.00	
Less: Trf to Deferred Income	-84,180,641.34	-78,413,550.48	
Less: Trf towards utilization	-257,2995.00	0.00	
	2,170,270,358.86	2,007,275,927.20	
Corpus Fund created out of Capitalization of old Assets			
Opening	72.00	72.00	
Add: Addition	0.00	0.00	
Less: Deduction	0.00	0.00	
Closing	72.00	72.00	
General Reserve			
Opening Balance	13,371,088.25	85,768,863.76	
Add: Other Additions	36,378.00	180,351.00	
Add/deduct Balance of Net Income transferred from Income & Expenditure Account	-13,111,074.12	-72,578,126.51	
(As Per Schedule 10)			
CLOSING BALANCE	2,170,566,822.99	2,020,647,087.45	

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DETAILS OF CORPUS /CAPITAL FUND

CORPUS FUND-INSTITUTE				
Opening	225,000,000.00		225,000,000.00	
Add: Addition	0.00		0.00	
Less: Deduction	0.00		0.00	
Closing	225,000,000.00	225,000,000.00	225,000,000.00	225,000,000.00
CORPUS FUND-FOUR FUND-TEQIP				
Opening	2,638,502.00		2,638,502.00	0.00
Add: Addition	3,063,818.00		3,063,818.00	2,638,502.00
Less: Deduction	2,572,995.00		2,572,995.00	0.00
Closing	3,129,325.00	3,129,325.00	2,638,502.00	2,638,502.00
PROJECT OVERHEAD FUND				
Opening	4,758,921.00		861,772.00	
Add: Addition	2,783,007.00		3,897,149.00	
Less: Deduction	0.00		0.00	
Closing	7,541,928.00	7,541,928.00	4,758,921.00	4,758,921.00
DEFERRED GOVERNMENT GRANT				
Opening	1,774,878,504.20		1,578,140,743.16	
Add: utilisation of Grant	243,901,243.00		275,151,311.52	
Less: transfer to Deferred Income	84,180,641.34		78,413,550.48	
Closing	1,934,599,105.86	1,934,599,105.86	1,774,878,504.20	1,774,878,504.20
TOTAL		2,170,270,358.86		2,007,275,927.20


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

SCHEDULE- 2 DESIGNATED/EARMARKED/ENDOWMENT FUND		(Amount in ₹)						
PARTICULAR	K K Sughandhi Memorial Scholarship Fund	K K Sughandhi Memorial Award Fund	POOR BOY FUND	Four Fund	PROVIDENT FUND	As on 31.03.2018 Current Year	As on 31.03.2017 Previous Year	
(f) Opening Balance of Funds	141,192.00	120,021.00	1,193,764.00	8,239,071.00	73,512,803.00	83,206,851.00	70,148,348.00	
Addition During the Year	8,818.00	7,760.00	90,644.00	10,090,881.00	14,974,818.00	25,172,921.00	11,614,775.00	
Income from investments made of the funds	0.00	0.00	0.00	0.00	5,921,586.00	5,921,586.00	104,950.00	
Accrued Income from the Investments/ Advances	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Interest on Saving Banks A/c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Other Additions	0.00	0.00	0.00	0.00	0.00	0.00	5,425,258.00	
TOTAL (A)	150,010.00	127,781.00	1,284,408.00	18,329,952.00	94,409,207.00	114,301,358.00	87,293,331.00	
Utilisation / Expenditure towards objective of Funds	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Capital Expenditure	0.00	0.00	0.00	0.00	0.00	0.00	100,330.00	
Revenue Expenditure	8,880.00	0.00	0.00	0.00	3,127,151.00	3,136,031.00	3,986,150.00	
Other - Withdrawals	8,880.00	0.00	0.00	0.00	3,127,151.00	3,136,031.00	4,086,480.00	
TOTAL (B)	159,770.00	0.00	0.00	0.00	3,127,151.00	3,136,031.00	4,086,480.00	
Closing Balance at the Year End (A-B)	141,130.00	127,781.00	1,284,408.00	18,329,952.00	91,282,056.00	111,165,327.00	83,206,851.00	


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

PARTICULAR	As on 31.03.2018		As on 31.03.2017	
	Current Year	Previous Year		
SCHEDULE-3				
CURRENT LIABILITIES AND PROVISION				
A. CURRENT LIABILITIES				
Deposit from Staff	5,194,332.00	5,194,332.00	4,576,989.00	4,576,989.00
Security Deposit(Employee)				
Deposit from Students	14,515,500.00		14,132,000.00	
Net Caution money	349,500.00		145,500.00	
Library Caution Money				
Admission fess refundable	9,030,024.00	23,895,024.00	1,470,161.00	15,747,661.00
Sundry Creditors				
Sundry Creditors	14,212,332.50		9,028,511.00	
Sundry Creditors (FDR)	6,098,556.00		5,126,260.00	
Sundry Creditors(Capital goods)	74,181,076.10	94,491,964.60	16,705,238.60	30,860,009.60
Deposits - Others				
Earnest money Deposit with NIT	4,984,419.76		7,672,831.76	
Security Deposit of Third Parties	106,489.00			
Performance bank Guarantee	705,298.00	5,796,206.76	893,240.00	8,566,071.76
Statutory Liabilities				
Overdue :		0.00		0.00
Others :				
EPF Employee Contribution Payable	486,921.00		380,602.00	
EPF NITRR Contribution Payable	1,011,584.00		13,299,982.00	
ESIC Employee Contribution Payable	77,430.00		56,677.00	
ESIC NITRR Contribution Payable	211,327.00		153,837.00	
CGST Payable	149,054.00		0.00	
IGST Payable	29,700.00		0.00	
SGST Payable	149,054.00		0.00	
GIS/FBF Contribution Payable	13,110.00		13,030.00	
GLIS payable	43,000.00		43,500.00	
GST on Misc Services Payable	347,387.00		0.00	

(Amount in ₹)

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NIT, Raipur (C.G.)

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GST on OIDAR	191,560.00		0.00	
GST Payable on Rent	18,405.00		0.00	
GPF Contribution Payable	0.00		30,000.00	
NPS Contribution of Employees Payable	1,624,318.00		1,158,943.00	
NPS Contribution of NITRR Payable	1,624,318.00		1,158,943.00	
PF Contribution Payable	280,050.00		280,050.00	
Service Tax Payable	0.00		37,500.00	
TDS payable	3,747,150.00	10,004,368.00	1,975,516.00	18,588,580.00
Other Current Liabilities				
Unutilized Grant (Schedule 3C)	84,028,205.82		41,629,448.82	
Scholarships to Students (Other state) Schedule 3B	7,848,723.00		8,216,456.00	
Bridge loan	14,400.00		14,400.00	
Fund from erstwhile govt. college	5,341,016.89		5,341,016.89	
Amalgamated fund	36,750.00		36,750.00	
Alumni Fund	1,847,250.00		1,616,250.00	
Project Fund(Unutilised) Schedule 3A	42,828,755.00		37,198,557.40	
CECB Project	699,155.00		0.00	
D N Diwakar	102,524.00		102,524.00	
Jayendra Kumar Singh	0.00		199,542.00	
E-Cell Nit Raipur	0.00		154,667.00	
NITTR Bhopal	0.00		372,653.00	
EPF & ESIC Payable Boy's Hostel	4,325.00		0.00	
EPF & ESIC Payable Girl's Hostel	4.00		0.00	
Hostel Mess Fee Payable	54,000.00		0.00	
JEE Main Exam Remuneration	65,000.00		0.00	
Project Fund Aictee	560,000.00		0.00	
Vat Payable to Party	220.00		0.00	
Other Fund	1,469,609.00		1,194,757.00	
STTP Registration	280,464.00		210,692.00	
Other Payable	163,088.00		10,000.00	
Student aid fund	1,477,650.00		1,431,300.00	
Fund for Other Activities	582,500.00		0.00	
CSAB Remuneration Payable	43,752.00		68,172.00	
Interest(GPF)	0.00	147,447,391.71	91,244.00	97,888,430.11
TOTAL (A)		286,829,287.07		176,227,741.47

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B. PROVISIONS				
Gratuity				
Provision for Gratuity	59,329,970.00	59,329,970.00	55,419,238.00	55,419,238.00
Accumulated Leave encashment				
Provision for leave Encashment	87,769,432.00		71,939,017.00	
Leave encashment payable	0.00	87,769,432.00	51,040.00	71,990,057.00
Others				
AC Repairing Payable	220,729.00		4,650.00	
Advertisement exp payable	41,861.00		0.00	
Annual Function Expenses Payable	394,197.00		372,880.00	
Cleaning Expenses Payable	24,745.00		0.00	
BOG/Finance/Senate / Other Meeting Expenses Payable	0.00		21,000.00	
Computer Consu Exp Payable	627,140.00		639,412.00	
Consultancy & Legal Charges Payable	63,320.00		35,000.00	
Convocation Expenses Payable	0.00		2,339.00	
CPDA Expenses Payable	668,862.00		363,410.00	
DA arrear payable	1,143,348.00		862,510.00	
Dept Consu Exp Payable	307,783.00		22,000.00	
Electricity Expenses Payable	1,983,260.00		2,245,370.00	
Exam Expenses and Remu Payable	1,685,630.00		1,107,688.00	
Faculty Association payable	7,400.00		6,000.00	
Fuel Charges Payable	10,322.00		24,067.00	
Guest House Maintenance	104,010.00		0.00	
Internet and Website maintenance payable	327,500.00		705,125.00	
Library Expenses Payable	0.00		26,180.00	
Library Trainee Stipend Expenses Payable	16,272.00		0.00	
Medical Grant and Expenses Payable	234,570.00		94,840.00	
Office Expenses Payable	46,174.00		60,206.00	
Other Exp for Seminar / Conf Payable	65,065.00		8,065.00	
Other Function & Activities Payable	26,046.00		100,750.00	
Printing & Stationery payable	221,643.00		369,901.00	
Rep Maint Electrical Payable	70,100.00		14,750.00	
Repair & Maintenance to Furniture	0.00		0.00	
Repair Maint equipment payable	94,209.00		9,000.00	
Repairs & Maintenance to Collage Building payable	108,361.00		16,700.00	

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Repairs & Maintenance to Hostel Building payable	19,404.00			0.00	
Salary Daily wages payable	2,411,018.00			1,620,733.00	
Salary Contract Staff payable	5,083,842.00			4,667,069.00	
Salary Regular staff Payable	19,468,349.00			16,092,250.00	
Scholarship to M tech/ phd Payable	6,342,767.00			4,819,041.00	
Scholarship to Student Payable	358,750.00			527,050.00	
Security Expenses Payable	7,897,941.00			2,099,395.00	
Sports Expenses Payable	468,482.00			7,774.00	
Student Research Expenses Payable	301,040.00			0.00	
Statutory Expenses Payable	0.00			16,387.00	
Telephone Charges payable	16,085.00			18,000.00	
Testing and Consultancy reimbursed	38,202.00			38,202.00	
Testing and Consultancy remuneration payable	7,123,744.75			11,670,785.75	
Testing Remu. Payble Office	0.00			2,602.00	
Testing/cons Remu. Payable Up to 2012-13	1,724,390.00			1,724,390.00	
Travelling & Hotel Expenses payable	43,535.00			26,898.00	
TOTAL B		59,790,096.75			50,442,419.75
TOTAL (A+B)		206,889,498.75			177,851,714.75
		493,718,785.82			354,079,456.22


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

SCHEDULE- 3A

SPONSORED PROJECTS

(Amount in ₹)

Sr.No	Name of the Project	Opening Balance		Receipts During the Year	Total	Expenditure	Closing Balance	
		Dr	Cr				Dr	Cr
1	FDP IIT Bombay (S.M. Saini)	0.00	0.00	25,000.00	25,000.00	25,000.00	0.00	0.00
2	Proect Fund Dr. Anamika Yadav (CPRU)	0.00	670,132.00	17,117.00	687,249.00	619,568.00	0.00	67,681.00
3	Project Fund Internation Travel Grant (Ankur Gupta)	0.00	0.00	129,834.00	129,834.00	129,834.00	0.00	0.00
4	Project CHEERU Piliani (Special Manpower Dev. Prog.)	0.00	390,748.00	1,776,016.00	2,166,764.00	1,030,268.00	0.00	1,136,496.00
5	Project Found C Cost - D.S.Sisodia	0.00	16,689.00	137,088.00	153,777.00	116,159.00	0.00	37,618.00
6	Project Fund - CCOST (A.K.Sinha)	0.00	43,403.00	0.00	43,403.00	43,403.00	0.00	0.00
7	Project Fund - CCOST (A.M. Rawani)	0.00	146,828.00	0.00	146,828.00	146,828.00	0.00	0.00
8	Project Fund CCOST - Awarish Kumar	136,330.00	0.00	235,510.00	99,180.00	86,159.00	0.00	13,021.00
9	Project Fund - CCOST (Bikesh Ku. Singh)	0.00	25,203.00	126,481.00	151,684.00	85,667.00	0.00	66,017.00
10	Project Fund- CCOST (B.K. Sahoo)	0.00	90,043.00	5,486.00	95,529.00	0.00	0.00	95,529.00
11	Project Fund - CCOST (B.Majumdar)	0.00	129,336.00	1,067.00	130,403.00	130,403.00	0.00	0.00
12	Project Fund - CCOST (D.C. Jharia)	0.00	0.00	205,538.00	205,538.00	177,661.00	0.00	27,877.00
13	Project Fund- CCOST (Debasisha Mishra)	0.00	120,673.00	6,450.00	127,123.00	19,665.00	0.00	107,458.00
14	Project Fund- CCOST (Dharn Pal)	0.00	212,328.00	10,409.00	222,737.00	59,638.00	0.00	163,099.00
15	Project Fund - CCOST (Dr. Anamika Yadav)	0.00	71,161.00	215,586.00	215,586.00	71,161.00	0.00	72,270.00
16	Project Fund - CCOST (Dr. Govardhan)	0.00	0.00	393.00	6,841.00	0.00	0.00	6,841.00
17	Project Fund- CCOST (Dr. R.K. Tripathi)	0.00	6,448.00	7,227.00	237,080.00	203,500.00	0.00	33,580.00
18	Project Fund - CCOST (Ebha Koley)	0.00	229,853.00	7,227.00	12,652.00	0.00	0.00	12,652.00
19	Project Fund - C Cost (Fahmida Khan)	0.00	11,925.00	727.00	133,965.00	0.00	0.00	133,965.00
20	Project Fund - CCOST (G.D. Ramtekkar)	0.00	66,536.00	67,429.00	173,556.00	119,565.00	0.00	53,991.00
21	Project Fund - CCOST (J. Anand Kumar)	0.00	106,094.00	67,462.00	184,320.00	73,846.00	0.00	110,474.00
22	Project Fund - CCOST (J. Satya Eswari)	0.00	55,447.00	128,873.00	52,668.00	0.00	0.00	52,668.00
23	Project Fund - C Cost (Kavita Thapadia)	0.00	49,643.00	3,025.00				

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Sr.No	Name of the Project	Opening Balance		Receipts During the Year	Total	Expenditure	Closing Balance	
		Dr	Cr				Dr	Cr
24	Project Fund - CCOST (Kesari Verma)	0.00	144,529.00	6,728.00	151,257.00	90,635.00	0.00	60,622.00
25	Project Fund- CCOST (M.K. Prasad)	0.00	20,197.00	104,896.00	125,093.00	19,207.00	0.00	105,886.00
26	Project Fund CCOST (M.K.Verma Travel Grant)	0.00	50,177.00	0.00	50,177.00	0.00	0.00	50,177.00
27	Project Fund - CCOST (Nilesh Ku, Thakur)	0.00	20,163.00	63,543.00	83,706.00	70,363.00	0.00	13,343.00
28	Project Fund - CCOST (N.K.Nagwanj)	0.00	13,336.00	813.00	14,149.00	0.00	0.00	14,149.00
29	Project Fund - C Cost (P.K.Choudhary)	0.00	0.00	325,708.00	325,708.00	258,797.00	0.00	66,911.00
30	Project Fund - CCOST (Pradeep Singh)	0.00	62,727.00	3,055.00	65,782.00	29,976.00	0.00	35,806.00
31	Project Fund- CCOST (Pratima Gupta)	0.00	33,699.00	2,053.00	35,752.00	0.00	0.00	35,752.00
32	Project Fund - CCOST (Rajkumar Sahu)	0.00	0.00	209,385.00	209,385.00	24,679.00	0.00	184,706.00
33	Project Fund - CCOST (R.Manivannan)	0.00	113,799.00	5,142.00	118,941.00	74,137.00	0.00	44,804.00
34	Project Fund - CCOST (R.P.Pathak)	0.00	36,399.00	0.00	36,399.00	36,399.00	0.00	0.00
35	Project Fund - CCOST (Santosh Penta)	0.00	7,233.00	441.00	7,674.00	441.00	0.00	7,233.00
36	Project Fund - CCOST (Shobha Lata Sinha)	0.00	91,090.00	0.00	91,090.00	91,090.00	0.00	0.00
37	Project Fund - CCOST (S.M. Saini)	0.00	88,113.00	5,369.00	93,482.00	0.00	0.00	93,482.00
38	Project Fund C-Cost (Subhojit Ghosh)	0.00	73,567.00	4,482.00	78,049.00	0.00	0.00	78,049.00
39	Project Fund - CCOST (Sudhakar Pandey)	0.00	56,554.00	2,651.00	59,205.00	19,890.00	0.00	39,315.00
40	Project Fund C-DAC (B.Acharya)	0.00	1,062,366.00	63,799.00	1,126,165.00	313,139.00	0.00	813,026.00
41	Project Fund-C.G:Water & Sanitation (K.Tapadia)	0.00	85,294.00	5,197.00	90,491.00	0.00	0.00	90,491.00
42	Project Fund Cold Forge (Sanjeev Das)	0.00	305,530.00	10,871.00	316,401.00	273,681.00	0.00	42,720.00
43	Project Fund CSIR - Sujit Kumar Samanta	0.00	0.00	587,105.00	587,105.00	0.00	0.00	587,105.00
44	Project Fund CSRI(Dr.N.D.Londhe)	0.00	428,488.00	431,723.00	860,211.00	450,382.00	0.00	409,829.00
45	Project Fund-DAE,BRNS, (K.Tapadia)	0.00	953,420.00	849,690.00	1,803,110.00	970,420.00	0.00	832,690.00
46	Project Fund-DAE, BRNS,(T.Maharana)	0.00	1,624,669.00	712,452.00	2,337,121.00	1,516,068.00	0.00	821,053.00
47	Project Fund DBT - Pratima Gupta	0.00	0.00	1,592,847.00	1,592,847.00	0.00	0.00	1,592,847.00
48	Project Fund-DST-SERI (S.Noel Victoria)	0.00	342,749.00		342,749.00	342,749.00	0.00	0.00
49	Project Fund-DST (Shrishi Verma)	0.00	1,302,327.00	79,351.00	1,381,678.00	0.00	0.00	1,381,678.00
50	Project Fund D.Vasant (SERB)	0.00	1,461,696.00	77,982.00	1,539,678.00	637,622.00	0.00	902,056.00
51	Project Fund - Flood Damage Mitigation(M.K.Verma)	0.00	274,851.00	16,747.00	291,598.00	0.00	0.00	291,598.00

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Sr.No	Name of the Project	Opening Balance		Receipts During the Year	Total	Expenditure	Closing Balance	
		Dr	Cr				Dr	Cr
52	Project Fund GIAN(Abir Bandopadhyay)	0.00	56,000.00	0.00	56,000.00	56,000.00	0.00	0.00
53	Project Fund GIAN(D.Sanyal)	0.00	62,000.00	0.00	62,000.00	62,000.00	0.00	0.00
54	Project Fund GIAN(D.Sanyal) 2	0.00	72,000.00	0.00	72,000.00	68,000.00	0.00	4,000.00
55	Project Fund Gian(Himanshu Govil)	0.00	62,057.00	0.00	62,057.00	62,000.00	0.00	57.00
56	Project Fund-GIAN(Manoj Chopkar)	0.00	90,501.00	0.00	90,501.00	86,500.00	0.00	4,001.00
57	Project Fund GIAN (Sourabh Gupta)	0.00	544,000.00	44,049.00	588,049.00	96,615.00	0.00	491,434.00
58	Project Fund - HUDCO (M.K.VernamGreen City Index)	0.00	28,760.00	1,752.00	30,512.00	0.00	0.00	30,512.00
59	Project Fund Hudco (Rajesh Tripathi Low Volume Roa)	0.00	209,882.00	10,966.00	220,848.00	32,015.00	0.00	188,833.00
60	Project Fund IDP-R.Periyasamy	0.00	0.00	1,118,195.00	1,118,195.00	99,127.00	0.00	1,019,068.00
61	Project Fund - IEL,R&D (R.Manivannan	0.00	1,520.00	50.00	1,570.00	1,520.00	0.00	50.00
62	Project Fund - J.Anand Kumar SERB (Synthesis)	0.00	1,257,232.00	56,118.00	1,313,350.00	643,665.00	0.00	669,685.00
63	Project Fund MEITY (Tannay Kant Das)	0.00	1,579,661.00	83,617.00	1,663,278.00	893,922.00	0.00	769,356.00
64	Project Fund Miscellaneous	0.00	0.00	753,351.00	753,351.00	0.00	0.00	753,351.00
65	Project Fund NRB (Subhojit Ghosh)	0.00	401,560.00	14,506.00	416,066.00	332,385.00	0.00	83,681.00
66	Project Fund NRRDA (R.K.Tripathi)	0.00	1,577,816.00	65,838.00	1,643,654.00	1,146,012.00	0.00	497,642.00
67	Project Fund- PMGSY	0.00	560,540.00	581,798.00	1,142,338.00	556,445.00	0.00	585,893.00
68	Project Fund SAC-ISRO (Himanshu Govil)	0.00	0.00	786,076.00	786,076.00	0.00	0.00	786,076.00
69	Project Fund SAC-ISRO L&S - (Himanshu Govil)	0.00	0.00	647,585.00	647,585.00	0.00	0.00	647,585.00
70	Project Fund - S.Bhowmick	0.00	0.00	102,107.00	102,107.00	0.00	0.00	102,107.00
71	Project Fund SCERT (Jaya Dwivedi)	0.00	589.00	36.00	625.00	0.00	0.00	625.00
72	Project Fund SERB (Akalabya Bissoyi)	0.00	210,079.00	924,072.00	1,134,151.00	746,515.00	0.00	387,636.00
73	Project Fund SERB (Arindam Bit)	0.00	0.00	1,612,588.00	1,612,588.00	698,395.00	0.00	914,193.00
74	Project Fund SERB- B.K. Sahoo	0.00	148,879.00	472,583.00	621,462.00	334,369.00	0.00	287,093.00
75	Project Fund SERB- Debasis Mishra	0.00	330,542.00	12,826.00	343,368.00	187,906.00	0.00	155,462.00
76	Project Fund SERB- Dr. Lalit Kumar	0.00	2,530,226.00	669,524.00	3,199,750.00	411,145.00	0.00	2,788,605.00
77	Project Fund SERB-D. Vasanth-II(Vibratory Shear)	0.00	1,489,792.00	75,043.00	1,564,835.00	638,817.00	0.00	926,018.00
78	Project Fund SERB-II (R.K.Sahu)	0.00	1,915,756.00	104,086.00	2,019,842.00	393,787.00	0.00	1,626,055.00
79	Project Fund SERB (J.Anand Kumar)	0.00	2,413,881.00	704,498.00	3,118,379.00	2,197,171.00	0.00	921,208.00
80	Project Fund SERB (Kafeel Ahmad Siddiqui)	0.00	150,743.00	0.00	150,743.00	150,743.00	0.00	0.00
81	Project Fund SERB (Mithlesh Ahtlkar)	0.00	0.00	1,066,907.00	1,066,907.00	0.00	0.00	1,066,907.00

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Sr.No	Name of the Project	Opening Balance		Receipts During the Year	Total	Expenditure	Closing Balance	
		Dr	Cr				Dr	Cr
82	Project Fund SERB- Mital Kumar Ahirwal	0.00	0.00	675,514.00	675,514.00	193,170.00	0.00	482,344.00
83	Project Fund - SERB (M.K.Chopkar)	0.00	866,007.00	0.00	866,007.00	234,164.00	0.00	631,843.00
84	Project Fund SERB (Monalisa Biswal)	0.00	130,069.00	7,229.00	137,298.00	76,090.00	0.00	61,208.00
85	Project Fund SERB-Mridul Singh Rajput	0.00	0.00	1,771,826.00	1,771,826.00	0.00	0.00	1,771,826.00
86	Project Fund SERB - (N.D.Londhe)	0.00	0.00	1,322,644.00	1,322,644.00	0.00	0.00	1,322,644.00
87	Project Fund SERB (P.K. Chaudhari)	0.00	2,070,981.00	117,609.00	2,188,590.00	1,318,408.00	0.00	870,182.00
88	Project Fund SERB-Prabir Ghosh	0.00	1,018,027.00	610,974.00	1,629,001.00	1,371,984.00	0.00	257,017.00
89	Project Fund SERB- Pratima Gupta (Keshaw Ram Adil)	0.00	351,022.00	805,011.00	1,156,033.00	932,151.00	0.00	223,882.00
90	Project Fund - SERB (R. Manivannan)	0.00	121,091.00	1,242.00	122,333.00	122,333.00	0.00	0.00
91	Project Fund SERB(R.Periyasamy)	0.00	499,601.00	215,355.00	714,956.00	464,204.00	0.00	250,752.00
92	Project Fund SERB-Satya Eswari J	0.00	0.00	2,839,305.00	2,839,305.00	124,981.00	0.00	2,714,324.00
93	Project Fund SERB-Saurabh Gupta	0.00	854,316.00	248,868.00	1,103,184.00	214,865.00	0.00	888,319.00
94	Project Fund SERB-Shyam Sundar	0.00	337,583.00	323,089.00	660,672.00	344,614.00	0.00	316,058.00
95	Project Fund (SERB) S.Noyel Victoria	0.00	333,906.00	8,477.00	342,383.00	293,768.00	0.00	48,615.00
96	Project Fund SERB - (S.N.Raw)	0.00	0.00	908,559.00	908,559.00	0.00	0.00	908,559.00
97	Project Fund SERB (Subhojit Ghosh)	0.00	48,763.00	1,758.00	50,521.00	48,763.00	0.00	1,758.00
98	Project Fund- SERB (Suman Kumar Sahal)	0.00	0.00	1,156,000.00	1,156,000.00	214,535.00	0.00	941,465.00
99	Project Fund - SERB (T.Maharana)	0.00	500,483.00	19,170.00	519,653.00	519,653.00	0.00	0.00
100	Project Fund SERB- T. Meerpai	0.00	448,427.00	599,372.00	1,047,799.00	597,426.00	0.00	450,373.00
101	Project Fund SERB- Vinay Pratap Singh	0.00	0.00	600,098.00	600,098.00	157,490.00	0.00	442,608.00
102	Project Fund Shanta Tech. - (Amit Raj Singh)	0.00	0.00	396,661.00	396,661.00	0.00	0.00	396,661.00
103	Project Fund-SUB DIC	0.00	2,305,030.40	97,240.00	2,402,270.40	828,895.40	0.00	1,573,375.00
104	Project Fund Unicef (S.Bhowmik)	0.00	18,995.00	145.00	19,140.00	18,995.00	0.00	145.00
105	Project MNRES - Pratima Gupta	0.00	504,777.00	1,544,900.00	2,049,677.00	268,578.00	0.00	1,781,099.00
	Total	136,330.00	37,198,557.40	32,507,965.00	69,570,192.40	26,741,437.40	0.00	42,828,755.00

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

SCHEDULE- 3B

SPONSORED FELLOWSHIP & SCHOLARSHIP

(Amount in ₹)

Sr.No.	Name of the Project	Opening Balance As on 01.04.2017		Transaction During the Year		Closing Balance As on 31.03.2018	
		Cr	Dr	Cr	Dr	Cr	Dr
1	Scholarships to Students (Other state)	8216456.00	0.00	6458639.00	6826372.00	7848723.00	0.00
	Grand Total	8216456.00	0.00	6458639.00	6826372.00	7848723.00	0.00


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

SCHEDULE- 3C

UNUTILIZED GRANT FROM UGC, GoI, SG

(Amount in ₹)

PARTICULAR	As on 31.03.2018	As on 31.03.2017
	Current Year	Current Year
A.Plan Grants: MHRD, GOI		
(i) Opening Balance	41,629,448.82	6,780,760.34
Add: Receipt During the Year	286,300,000.00	310,000,000.00
Other Additions - transfer from Deffered government grant		
TOTAL (A)	327,929,448.82	316,780,760.34
Less: Utilisation / Expenditure towards objective of Funds		
Capital Expenditure	243,901,243.00	275,151,311.52
Revenue Expenditure	0.00	0.00
Refunds	0.00	0.00
TOTAL (B)	243,901,243.00	275,151,311.52
Closing Balance at the Year End (A-B)	84,028,205.82	41,629,448.82
B.Non-Plan Grants: MHRD, GOI		
(i) Opening Balance	0.00	0.00
Add: Receipt During the Year	358,000,000.00	152,000,000.00
Other Additions	0.00	0.00
TOTAL (A)	358,000,000.00	152,000,000.00
Less: Utilisation / Expenditure towards objective of Funds		
Capital Expenditure	0.00	0.00
Revenue Expenditure	358,000,000.00	152,000,000.00
Refunds	0.00	0.00
TOTAL (B)	358,000,000.00	152,000,000.00
Closing Balance at the Year End (A-B)	0.00	0.00
Grand Total(A+B)	84,028,205.82	41,629,448.82


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

Schedule- 4 : FIXED ASSETS

S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2017	GROSS BLOCK			ACCUMULATED DEPRECIATION			NET BLOCK		
				Addition During the year 2017-18	Disposal/ Transfer of Assets	Closing Balance as on 31.03.2018	Depreciation upto 31.03.2017	Depreciation for 2017-18	Deductions/ Adjustment \$	Depreciation as on 31.03.2018	As on 31.03.2017	As on 31.03.2018
1	Land	0.00%	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	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	
3	Building	2.00%	22,722,111.75	3,419,489.00	0.00	26,141,600.75	2,113,240.00	508,932.00	0.00	2,622,172.00	20,608,871.75	23,519,428.75
4	Roads & Bridges	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	Tubewells & Water Supply	2.00%	97,055.00	242,980.00	0.00	340,035.00	3,540.00	6,801.00	0.00	10,341.00	93,515.00	329,694.00
6	Sewerage & Drainage	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	Electrical Installation & Equipments	5.00%	5,006,870.00	1,037,453.00	0.00	6,044,323.00	3,532,371.00	302,216.00	0.00	3,834,587.00	1,474,499.00	2,209,736.00
8	Plant & Machinery	5.00%	16,326,862.00	2,812,867.00	80,806.00	19,058,923.00	6,581,245.00	950,345.00	0.00	7,531,590.00	9,745,617.00	11,527,333.00
9	Scientific & Laboratory Equipment	8.00%	212,982,125.28	11,108,249.00	0.00	224,090,374.28	74,603,307.00	17,927,230.00	0.00	92,530,537.00	138,378,818.28	131,559,837.28
10	Office Equipment	7.50%	4,634,560.00	557,166.00	19,000.00	5,172,726.00	3,025,042.50	387,954.00	0.00	3,412,996.50	1,609,517.50	1,759,729.50
11	Audio Visual Equipment	7.50%	7,775,264.00	652,341.00	0.00	8,427,605.00	4,617,171.50	632,070.00	0.00	5,249,241.50	3,158,092.50	3,178,563.50
12	Computer & Peripherals	20.00%	175,609,632.14	4,036,179.00	13,612.00	179,632,199.14	146,627,295.50	29,915,976.34	0.00	176,543,271.84	28,982,336.64	9,495,841.30
13	Furniture Fixtures & Fittings	7.50%	27,565,014.30	0.00	0.00	29,428,259.30	17,725,299.00	2,207,119.00	0.00	3,224,128.00	9,839,715.30	9,495,841.30
14	Vehicles	10.00%	3,775,335.13	0.00	0.00	3,775,335.13	2,846,595.00	377,533.00	0.00	26,587,540.00	27,143,046.58	551,207.13
15	Library Books & Journals	10.00%	48,512,655.58	3,666,662.00	0.00	52,179,317.58	21,369,609.00	5,217,931.00	0.00	26,587,540.00	25,991,777.58	25,991,777.58
16	Sports Equipments	5.00%	944,876.00	372,000.00	0.00	1,316,876.00	687,853.00	65,844.00	0.00	753,697.00	257,023.00	563,179.00
	TOTAL (A)		525,952,362.18	29,768,631.00	113,418.00	555,607,573.18	283,732,568.50	58,499,951.34	0.00	342,232,519.84	242,219,793.68	213,375,055.34
	(B) Capital Work in Progress		1,535,082,845.00	191,179,124.00	13,923,656.00	1,712,938,313.00	0.00	0.00	0.00	0.00	1,535,082,845.00	1,712,938,313.00
	TOTAL (A+B)		2,061,035,207.18	220,947,755.00	13,437,074.00	2,286,545,888.18	283,732,568.50	58,499,951.34	0.00	342,232,519.84	1,777,302,638.68	1,926,313,368.34
	(C) Intangible Assets:											
	GROSS BLOCK											
S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2017	Addition During the year	Disposal/ Transfer of	Closing Balance as on 31.03.2018	Depreciation upto 31.03.2017	Depreciation for 2017-18	Deductions/ Adjustment	Depreciation as on 31.03.2018	As on 31.03.2017	As on 31.03.2018
1	Computer Softwares	40.00%	31,607,250.81	2,699,657.00	0.00	34,306,907.81	29,752,884.00	2,445,755.81	0.00	32,218,639.81	1,854,366.81	2,088,268.00
2	E-Journals	40.00%	39,390,562.19	33,728,438.00	37,353.00	73,081,467.19	26,875,647.00	23,214,934.19	0.00	50,090,581.19	12,514,915.19	22,990,886.00
3	Patents	11.11%	0.00	-	-	-	-	-	-	-	-	-
	TOTAL (C)		70997813.00	36428095.00	37533.00	107388375.00	56628531.00	25680690.00	0.00	82309221.00	14369282.00	25079154.00
	GRAND TOTAL (A+B+C)		2,132,033,020.18	257,375,850.00	13,474,607.00	2,375,934,263.18	340,361,099.50	84,180,641.34	0.00	424,541,740.84	1,791,671,920.68	1,951,392,522.34

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MIT, Raipur (C.G.)

SCHEDULES FORMING PART OF THE BALANCE SHEET

Schedule- 4 A : PLAN

(A) Fixed Assets:

S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2017	GROSS BLOCK			ACCUMULATED DEPRECIATION			NET BLOCK		
				Addition During the year	Disposal / Transfer of	Closing Balance as on 31.03.2018	Depreciation upto 31.03.2017	Depreciation for 2017-18	Deductions/ Adjustment	Depreciation as on 31.03.2018	As on 31.03.2017	As on 31.03.2018
1	Land	0.00%	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	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	
3	Building	2.00%	22,722,111.75	3,419,489.00	0.00	26,141,600.75	2,113,240.00	508,932.00	0.00	2,622,172.00	20,608,871.75	23,519,428.75
4	Roads & Bridges	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	Tubewells & Water Supply	2.00%	97,055.00	242,980.00	0.00	340,035.00	3,540.00	6,801.00	0.00	10,341.00	93,515.00	329,694.00
6	Sewrage & Drainage	2.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	Electrical Installation & Equipments	5.00%	5,006,870.00	1,037,453.00	0.00	6,044,323.00	3,532,371.00	302,216.00	0.00	3,834,587.00	1,474,499.00	2,209,736.00
8	Plant & Machinery	5.00%	16,326,862.00	2,812,867.00	80,806.00	19,058,923.00	6,581,245.00	950,345.00	0.00	7,531,590.00	9,745,617.00	11,527,333.00
9	Scientific & Laboratory Equipment	8.00%	212,982,125.28	11,108,249.00	0.00	224,090,374.28	74,603,307.00	17,927,230.00	0.00	92,530,537.00	138,378,818.28	131,559,837.28
10	Office Equipment	7.50%	4,634,560.00	557,166.00	19,000.00	5,172,726.00	3,025,042.50	387,954.00	0.00	3,412,996.50	1,609,517.50	1,759,729.50
11	Audio Visual Equipment	7.50%	7,775,264.00	652,341.00	0.00	8,427,605.00	4,617,171.50	632,070.00	0.00	5,249,241.50	3,158,092.50	3,178,363.50
12	Computer & Pheripherals	20.00%	175,609,632.14	4,036,179.00	13,612.00	179,632,199.14	146,627,295.50	29,915,976.34	0.00	176,543,271.84	28,982,336.64	3,088,927.30
13	Furniture Fixtures & Fittings	7.50%	27,565,014.30	1,863,245.00	0.00	29,428,259.30	17,725,299.00	2,207,119.00	0.00	19,932,418.00	9,839,715.30	9,495,841.30
14	Vehicles	10.00%	3,775,335.13	0.00	0.00	3,775,335.13	2,846,595.00	377,533.00	0.00	3,224,128.00	928,740.13	551,207.13
15	Library Books & Journals	10.00%	48,512,655.58	3,666,662.00	0.00	52,179,317.58	21,369,609.00	5,217,931.00	0.00	26,587,540.00	27,143,046.58	25,591,777.58
	TOTAL (A)		525,952,362.18	29,768,631.00	113,418.00	555,607,575.18	283,732,568.50	58,499,951.34	0.00	342,232,519.84	242,219,793.68	213,375,055.34
	(B) Capital Work in Progress		1,535,082,845.00	191,179,124.00	13,323,656.00	1,712,938,313.00	0.00	0.00	0.00	0.00	1,535,082,845.00	1,712,938,313.00
	TOTAL (A+B)		2,061,035,207.18	220,947,755.00	13,437,074.00	2,268,545,888.18	283,732,568.50	58,499,951.34	0.00	342,232,519.84	1,777,302,538.68	1,926,313,368.34

(C) Intangible Assets:

S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2017	GROSS BLOCK			ACCUMULATED DEPRECIATION			NET BLOCK		
				Addition During the year	Disposal / Transfer of	Closing Balance as on 31.03.2018	Depreciation upto 31.03.2017	Depreciation for 2017-18	Deductions/ Adjustment	Depreciation as on 31.03.2018	As on 31.03.2017	As on 31.03.2018
1	Computer Softwares	40.00%	31607250.81	2699657.00	0.00	34306907.81	29752884.00	2465755.81	0.00	32218639.81	1854366.81	2088268.00
2	E-Journals	40.00%	39390562.19	33728438.00	37533.00	73081467.19	26875647.00	23214934.19	0.00	50090581.19	12514915.19	22990886.00
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)		70,997,813.00	36,428,095.00	37,533.00	107,388,375.00	56,628,531.00	25,680,690.00	0.00	82,309,221.00	14,369,282.00	25,079,154.00
	GRAND TOTAL (A+B+C)		2,132,033,020.18	257,375,850.00	13,474,607.00	2,375,934,263.18	340,361,099.50	84,180,641.34	0.00	424,541,740.84	1,791,671,920.68	1,951,392,522.34

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SCHEDULES FORMING PART OF THE BALANCE SHEET

Schedule- 4 B : NON PLAN

(Amount in ₹)

(A) Fixed Assets:												
S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2017	Addition During the year	Disposal / Transfer of	Closing Balance as on 31.03.2018	Depreciation upto 31.03.2017	Depreciation for 2017-18	Deductions/ Adjustment	Depreciation as on 31.03.2018	As on 31.03.2017	As on 31.03.2018
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
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	Sewerage & 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 & Peripherals	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 (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
TOTAL (A+B)			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(C) Intangible Assets:												
S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2017	Addition During the year	Disposal / Transfer of	Closing Balance as on 31.03.2018	ACCUMULATED DEPRECIATION				NET BLOCK	
							Depreciation upto 31.03.2017	Depreciation for 2017-18	Deductions/ Adjustment	Depreciation as on 31.03.2018	As on 31.03.2017	As on 31.03.2018
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

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SCHEDULES FORMING PART OF THE BALANCE SHEET

(Amount in ₹)

Schedule- 4 C : INTANGIBLE ASSETS												
S.No.	Description of assets	Rate of Dep	Cost of Assets as on 01.04.2017	Addition During the year	Disposal / Transfer of	Closing Balance as on 31.03.2018	Depreciation upto 31.03.2017	Depreciation for 2017-18	Deductions/ Adjustment	Depreciation as on 31.03.2018	As on 31.03.2017	As on 31.03.2018
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) : PATENTS & COPYRIGHTS											
S.No.	Particulars	Opening Balance	Addition	Gross	Amortization	NET BLOCK as on 31.03.2017	NET BLOCK as on 31.03.2018				
Patents Granted											
A											
1	Balance as on 31.03.2016 of Patents	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				
TOTAL (A)		0.00	0.00	0.00	0.00	0.00	0.00				
Patents Pending in respect of Patents Applied for											
B											
1	Expenditure incurred during 2015-16	0.00	0.00	0.00	0.00	0.00	0.00				
2	Expenditure incurred during 2016-17	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				
GRAND TOTAL (A+B)		0.00	0.00	0.00	0.00	0.00	0.00				

M. Singh
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R. D. Me
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SCHEDULES FORMING PART OF THE BALANCE SHEET
Schedule- 4 D : OTHERS

S.No.	Description of assets	Rate of	Cost of Assets as	Addition	Disposal /	Closing Balance	Depreciation	Depreciation	Deductions /	Depreciation as	(Amount in ₹)	
											As on 31.03.2017	As on 31.03.2018
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	20.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Computer & Peripherals	7.50%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Furniture Fixtures & Fittings	10.00%	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
TOTAL (A+B)			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

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

SCHEDULE- 5 INVESTMENTS (FROM FARMARKED/ENDOWMENT FUND) PARTICULAR	As on 31.03.2018		As on 31.03.2017	
	Current Year	Previous Year	Current Year	Previous Year
FDR/Flexi(GPF)	84,982,387.00	73,256,164.00		
FDR with SBI GCET Branch (Inopt/Alumni)	9,272,418.00	8,648,265.00		
FDR with SBI (Poor Boys Fund)	1,282,408.00	1,193,764.00		
FDR with SBI (K K Sugandhi)	244,891.00	249,403.00		
FDR for Four Fund	18,286,922.00	8,239,071.00		
TOTAL	114,069,026.00	82,390,607.00	114,069,026.00	91,586,667.00
(Amount in ₹)				
SCHEDULE- 6 INVESTMENTS (OTHERS) PARTICULAR	As on 31.03.2018		As on 31.03.2017	
	Current Year	Previous Year	Current Year	Previous Year
FDR/Flexi Others	578,229,867.60	578,229,867.60	548,619,459.19	548,619,459.19
TOTAL	578,229,867.60	578,229,867.60	548,619,459.19	548,619,459.19
(Amount in ₹)				
SCHEDULE- 7 CURRENT ASSETS PARTICULAR	As on 31.03.2018		As on 31.03.2017	
	Current Year	Previous Year	Current Year	Previous Year
CASH BALANCE	38,434.00	38,434.00	43,107.00	43,107.00
BANK BALANCE				
Canara Bank A/C No. 20996	34,877.02	36,532.02		
Non-Plan (saving) 30054181310	-4,611,946.96	-40,569,655.00		
SBI Bank A/ c 30042955244	108,652,507.53	35,416,007.78		
SBI Bank A/ c 31794300805	891,673.72	542,065.01		
GPF Bank A/ c 31255750394	5,538,908.00	1,549.00		
HDFC Bank A/ c 50100084159229	65,103.00	0.00		
SBI Bank A/ c 34313140894	1,298.00	0.00		
SBI Bank A/ c 34930938504	751.50	-9,172.00		
SBI Bank A/ c 30007211525	-838,638.19	-728,108.79		
TOTAL	109,772,967.62	109,734,533.62	109,772,967.62	-5,310,781.98
(Amount in ₹)				

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

**SCHEDULE- 8
LOANS, ADVANCES AND DEPOSITS**

(Amount in ₹)

PARTICULAR	As on 31.03.2018		As on 31.03.2017	
	Current Year	Previous Year	Current Year	Previous Year
Advances to Employees				
Festival Advances	77,320.00	76,596.00		
Advance to Staff	1,409,141.00	824,848.00		
T A Advances	25,000.00	25,000.00		
LTC Advances	630,426.00	401,726.00		
GPF Advances	45,499.00	240,105.00		1,568,275.00
Prepaid Expenses				
Deferred Library expenses	625,314.00	6,575,239.00		6,575,239.00
Lifetime Membership Fees	177,000.00	0.00		0.00
Prepaid Insurance	96,351.00	898,665.00		
Deposits				
Security deposit by NIT	6,459,139.00	6,451,139.00		6,451,139.00
Advances Others	226,582.00	0.00		
Income Accrued				
Interest Accrued	101,451.25	101,451.25		
Rent receivable	188,963.00	143,871.00		
Electricity and water ch receivable	67,408.00	106,482.00		
Testing Fees receivable	37,650.00	37,650.00		
Miscellaneous Current Assets	3,000.00	3,073.00		
PHD Fees Receivable	20,550.00	20,550.00		
Admission Fees Receivable	4,547,138.00	4,966,160.25		10,832,275.25
Other Current Assets				
CSVTU	0.00	17,093.00		
E-Cell	77,131.00	0.00		
Project Fund (Sch-3A)	0.00	77,131.00		153,423.00

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Claims Receivables				
TDS Receivable	705,567.00		521,770.00	
CGST Credit Receivable	140,566.50		0.00	
IGST Credit Receivable	15,342.00		0.00	
SGST Credit Receivable	140,566.50		0.00	
Electronic Cash Ledger	1.00		0.00	
Electronic Credit Ledger	31,890.00		0.00	
FDR received from party	6,137,556.00		5,126,260.00	
Service Tax(Canvat Credit) Including Cess	0.00	7,171,489.00	94,641.53	5,742,671.53
TOTAL		21,986,552.25		31,323,022.78


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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE- 9 FEES/SUBSCRIPTION FROM STUDENTS PARTICULAR	(Amount in ₹)	
	2017-2018	
	Current Year	Previous Year
ACADEMICS		
Tuition Fees	248,948,778.00	232,688,827.95
Magazine fees	92,700.00	397,800.00
Library Fees	735,500.00	2,183,000.00
Registration Fee	<u>301,250.00</u>	<u>1,043,000.00</u>
	250,078,228.00	236,312,627.95
EXAMINATIONS		
Annual Exam Fees	730,525.00	1,548,123.00
Exam fees	7,548,100.00	7,428,400.00
	8,278,625.00	8,976,523.00
OTHER FEES		
Identity card Fee	100,900.00	111,400.00
Misc and other late Fees	2,098,752.70	2,886,718.50
Other Fees	7,207,250.00	
Hostel Fees	8,121,510.00	7,438,300.00
Library Fine	63,345.00	<u>82,622.00</u>
	17,591,757.70	10,519,040.50
OTHER ACADEMICS RECEIPTS		
Sports fees	231,750.00	994,500.00
Internet Fee	278,100.00	1,193,400.00
Insurance Fee	0.00	1,857,600.00
Application and Registration Fee	308,825.00	374,800.00
Student Activity Fees	195,000.00	155,500.00
Phd Thesis Fees	215,000.00	135,000.00
Souvenir	195,000.00	155,500.00
Convocation Fee	1,314,200.00	1,326,200.00
Training & Placement fees	<u>231,750.00</u>	<u>994,500.00</u>
	2,969,625.00	7,187,000.00
TOTAL	278,918,235.70	262,995,191.45

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NATIONAL INSTITUTE OF TECHNOLOGY-RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE-10
GRANTS/ SUBSIDIES (IRRECOVERABLE GRANTS RECEIVED)

(Amount in ₹)

PARTICULAR	Plan			Total Plan	Non Plan MHRD, GOI	2017-18		2016-2017	
	Govt. Of India	UGC				Current Year Total	Current Year Total		
		Plan	Specific Schemes						
Balance B/F	0.00	0.00	0.00	0.00					0.00
Add: Receipt during the year	0.00	0.00	0.00	0.00	0.00	358,000,000.00			152,000,000.00
	0.00	0.00	0.00	0.00	0.00	358,000,000.00			152,000,000.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Less: Refund to UGC/MHRD	0.00	0.00	0.00	0.00	0.00	358,000,000.00			152,000,000.00
Balance	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Less: Utilised for Capital Expenditure	0.00	0.00	0.00	0.00	0.00	358,000,000.00			152,000,000.00
Balance	0.00	0.00	0.00	0.00	0.00	358,000,000.00			152,000,000.00
Less: Utilised for Revenue Expenditure	0.00	0.00	0.00	0.00	0.00				
Balance C/F	0.00	0.00	0.00	0.00	0.00	0.00			0.00


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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE - 11 INCOME FROM INVESTMENTS PARTICULARS	(Amount in ₹)			
	EARMARKED/ENDOWMENT FUND		OTHER INVESTMENTS	
	2017-2018 Current Year	2016-2017 Previous Year	2017-2018 Current Year	2016-2017 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	13,391,922.00	13,757,553.05
Interest on flexi deposit	0.00	0.00	21,031,392.00	15,835,290.39
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	0.00	0.00
Other Recd from Bank	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	34,423,314.00	29,592,843.44
Transferred to Earmarked/Endowment funds	0.00	0.00	0.00	0.00
Balance	0.00	0.00	0.00	0.00


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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE- 12 INTEREST EARNED	2017-2018		2016-2017	
	Current Year	Previous Year	Current Year	Previous Year
PARTICULAR				
INTEREST ON SAVING ACCOUNTS WITH SCHEDULED BANK	394,264.00	394,264.00	557,207.00	557,207.00
ON LOANS	0.00		0.00	
EMPLOYEES/STAFF	0.00	0.00	0.00	0.00
OTHERS	0.00	0.00	0.00	0.00
ON DEBTORS & OTHER RECEIVABLES				
TOTAL	394,264.00	394,264.00	557,207.00	557,207.00

(Amount in ₹)


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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE-13 OTHER INCOME PARTICULAR	2017-2018		2016-2017	
	Current Year	Previous Year	Current Year	Previous Year
Income From Land & Building				
Electric & water charges received	1,493,931.00		1,433,181.00	
House and other rent	360,653.00		481,851.00	
Guest house charges	66,000.00	1,920,584.00	58,000.00	1,973,032.00
Others				
Tender Form Sale	216,000.00		188,500.00	
Consultancy Fee	10,984,251.00		9,348,017.50	
Leave Salary & Pension Contribution	699,418.00		0.00	
Testing Fee	1,608,236.00		2,471,784.00	
Interest on Security deposit	308,690.00		267,057.00	
Other Recd from Bank	0.00		847.00	
RTI Fees	1,062.00		3,393.00	
Misc. received	359,687.70		830,916.50	
Recruitment Fees	364,500.00		0.00	
Interest on Income Tax Refund	0.00		6,005.00	
Reimbursement of prize money fund	0.00		71,900.00	
Donation/Sponsorship	1,187,600.00		1,229,196.00	
Project account-CEC	50,000.00		55,000.00	
Penalty Charges	213,211.00		181,045.00	
Deferred Income charged on account of Depreciation	84,180,641.34	100,173,297.04	78,413,550.48	93,067,211.48
TOTAL		102,093,881.04		95,040,243.48


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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE- 14 PRIOR PERIOD INCOME PARTICULAR	2017-2018		2016-2017	
	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	
TOTAL		0.00		0.00


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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

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

(Amount in ₹)

PARTICULAR	2017-18		2016-2017	
	Plan	Non Plan	Plan	Non Plan
Contract Salary and Daily wages	0.00	87,633,237.00	0.00	71,369,714.00
Salary-regular staff	0.00	230,574,958.00	0.00	205,564,218.00
DA Arrears	0.00	2,594,189.00	0.00	2,967,917.00
Pay Arrears	0.00	54,117,781.00	0.00	1,343,067.00
Children education Reimbursement	0.00	2,089,377.00	0.00	1,833,295.00
Director Leave salary remittance	0.00	39,653.00	0.00	99,000.00
Director Pension remittance	0.00	74,423.00	0.00	185,808.00
PF	0.00	11,390,280.00	0.00	3,310,500.00
LTC expenses	0.00	5,296,854.00	0.00	4,547,069.00
Interest on GPF	0.00	255,622.00	0.00	0.00
Faculty association raipur	0.00	82,200.00	0.00	75,900.00
Medical Reimbursement/ Expenses/ Dispensary	0.00	3,375,060.00	0.00	3,123,247.00
Bonus	0.00	1,274,845.00	0.00	2,014,178.00
FBF and GIS	0.00	156,340.00	0.00	161,490.00
Pension	0.00	9,768,009.00	0.00	9,250,803.00
EPF & ESIC Employee Contribution	0.00	6,434,061.00	0.00	3,430,854.00
Commuted Pension	0.00	474,334.00	0.00	0.00
NPS Contribution of Employee	0.00	17,044,406.00	0.00	11,401,549.00
Library Trainee Stipend	0.00	16,272.00	0.00	0.00
Overtime Allowance/ Pay	0.00	29,750.00	0.00	41,500.00
Leave Encashment	0.00	1,527,986.00	0.00	926,745.00
CPDA expenses	0.00	14,128,037.00	0.00	9,820,559.00
GPF	0.00	120,000.00	0.00	0.00
GLIS	0.00	519,000.00	0.00	496,400.00
Retirement & Terminal Benefits (Schedule 15A)	0.00	45,979,644.00	0.00	45,666,215.00
TOTAL	0.00	494,996,318.00	0.00	377,630,028.00


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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE- 15 A

EMPLOYEES RETIREMENT AND TERMINAL BENEFITS

(Amount in ₹)

PARTICULAR	GRATUITY	LEAVE ENCASHMENT	TOTAL
Opening Balance as on 01.04.2017	55,419,238.00	71,939,017.00	127,358,255.00
Add: Capitalize value of Contributions received from other organizations	0.00	0.00	0.00
Total (A)	55,419,238.00	71,939,017.00	127,358,255.00
Less: Actual Payment During the Year (B)	939,230.00	182,207.00	1,121,437.00
Balance Available of 31.03.2018 (C=A-B)	54,480,008.00	71,756,810.00	126,236,818.00
Provision Required on 31.03.2018(D)	59,329,970.00	87,769,432.00	147,099,402.00
1. Provision to be made in Current Year(D-C)	4,849,962.00	16,012,622.00	20,862,584.00
2. Contribution to NPS			17,044,406.00
3. Medical Reimbursemsnt to Retired Employees			0.00
4. Travel to Home Town on Retirement			0.00
5. Deposit linked Insurance Payment			0.00
6. EPF & ESIC Contribution			8,072,654.00
TOTAL (1+2+3+4+5)			45,979,644.00

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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE-16
ACADEMIC EXPENSES

(Amount in ₹)

PARTICULAR	2017-18			2016-2017		
	Plan	Non Plan	Total	Plan	Non Plan	Total
AICTE and other exam remuneration to staff	0.00	2,223,636.00	2,223,636.00	0.00	1,907,029.00	1,907,029.00
Exam department Expenses	0.00	2,796,406.00	2,796,406.00	0.00	1,192,790.00	1,192,790.00
Scholarship expenses	0.00	67,661,943.00	67,661,943.00	0.00	52,519,481.00	52,519,481.00
Hostel electricity	0.00	102,860.00	102,860.00	0.00	229,340.00	229,340.00
Convocation expenses	0.00	3,560,131.00	3,560,131.00	0.00	2,242,694.00	2,242,694.00
Functions & activities expenses	0.00	7,053,216.00	7,053,216.00	0.00	6,738,007.00	6,738,007.00
Library Expenses	0.00	6,699,825.00	6,699,825.00	0.00	4,349,204.00	4,349,204.00
Newspaper & Periodicals	0.00	47,137.00	47,137.00	0.00	49,325.00	49,325.00
Computer consumable expenses	0.00	2,268,531.00	2,268,531.00	0.00	2,420,616.00	2,420,616.00
Department/lab consumable expenses	0.00	2,679,036.00	2,679,036.00	0.00	2,776,734.00	2,776,734.00
Sports, Yoga and other activity	0.00	1,785,319.00	1,785,319.00	0.00	1,913,152.00	1,913,152.00
Student safety insurance	0.00	1,386,450.00	1,386,450.00	0.00	1,853,100.00	1,853,100.00
Training & placement expenses	0.00	525,538.00	525,538.00	0.00	763,916.00	763,916.00
Student Research Expenses	0.00	301,040.00	301,040.00	0.00	149,734.00	149,734.00
Virtual classroom expenses	0.00	0.00	0.00	0.00	59,530.00	59,530.00
Tedx Programme	0.00	382,787.00	382,787.00	0.00	0.00	0.00
Other Exp. for Seminar/Conference/Workshop	0.00	1,190,622.00	1,190,622.00	0.00	697,045.00	697,045.00
Departmental Academic Audit Expenses	0.00	788,988.23	788,988.23	0.00	18,400.00	18,400.00
CEC Expenditure	0.00	60,947.00	60,947.00	0.00	0.00	0.00
Research Grant Seed Expenses	0.00	1,686,337.00	1,686,337.00	0.00	0.00	0.00
Workshop Expenses	0.00	84,704.00	84,704.00	0.00	45,258.00	45,258.00
Printing & Stationary expenses	0.00	1,518,425.00	1,518,425.00	0.00	954,579.00	954,579.00
	0.00	104,803,878.23	104,803,878.23	0.00	80,879,934.00	80,879,934.00

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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE-17
ADMINISTRATIVE & GENERAL EXPENSES

(Amount in ₹)

PARTICULAR	2017-18			2016-2017		
	Plan	Non Plan	Total	Plan	Non Plan	Total
INFRASTRUCTURE						
Water, Electricity & Telephone charges	0.00	24,923,402.00	24,923,402.00	0.00	24,831,110.00	24,831,110.00
COMMUNICATION						
Postage & stamp Expenses	0.00	130,000.00	130,000.00	0.00	170,000.00	170,000.00
Internet charges and Web maintainance	0.00	408,169.00	408,169.00	0.00	1,539,326.00	1,539,326.00
OTHERS						
Advertisement	0.00	1,142,383.00	1,142,383.00	0.00	518,367.00	518,367.00
Accident Prevention Expenses	0.00	14,400.00	14,400.00			
Audit expenses	0.00	470,010.00	470,010.00	0.00	580,266.00	580,266.00
BOG/Finance/HODs/Deans/ etc meeting expenses	0.00	999,169.00	999,169.00	0.00	411,427.00	411,427.00
Computer consumable expenses	0.00	478,712.00	478,712.00	0.00	194,929.00	194,929.00
Consultancy and Legal Expenses	0.00	746,209.00	746,209.00	0.00	720,298.00	720,298.00
Conveyance expenses	0.00	5,592.00	5,592.00	0.00	6,090.00	6,090.00
Fire Fighting & Safety System	0.00	46,976.00	46,976.00	0.00	0.00	0.00
Honorarium expenses	0.00	47,000.00	47,000.00	0.00	0.00	0.00
GST on Misc. Services	0.00	327,139.00	327,139.00	0.00	0.00	0.00
GST on OIDAAR	0.00	180,613.00	180,613.00	0.00	0.00	0.00
Interest on GST	0.00	14,064.00	14,064.00	0.00	0.00	0.00
Testing & Consultancy Expenses	0.00	209,870.00	209,870.00	0.00	0.00	0.00
NIT Transit house contribution	0.00	250,000.00	250,000.00	0.00	250,000.00	250,000.00
Office expenses	0.00	482,166.00	482,166.00	0.00	407,100.00	407,100.00
Printing & Stationery charges	0.00	635,203.00	635,203.00	0.00	884,389.00	884,389.00
Prize Money	0.00	37,000.00	37,000.00	0.00	19,000.00	19,000.00
Recruitment expenses	0.00	14,471.00	14,471.00	0.00	945,816.00	945,816.00
Refreshment, Food & Tea Expenses	0.00	29,110.00	29,110.00	0.00	25,773.00	25,773.00
Contingent Labour Charges	0.00	45,686.00	45,686.00	0.00	0.00	0.00
Security Charges	0.00	37,043,509.00	37,043,509.00	0.00	25,634,923.00	25,634,923.00
Travelling and Hotel expenses	0.00	2,043,493.00	2,043,493.00	0.00	2,770,247.00	2,770,247.00
Statutory expenses	0.00	12,563,206.00	12,563,206.00	0.00	227,627.00	227,627.00
Provision for Four Fund	0.00	12,255,272.00	12,255,272.00	0.00	10,553,996.00	10,553,996.00
TOTAL	0.00	95,542,824.00	95,542,824.00	0.00	70,690,684.00	70,690,684.00

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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

SCHEDULE- 18
TRANSPORTATION EXPENSES (Amount in ₹)

PARTICULAR	2017-18			2016-2017		
	Plan	Non Plan	Total	Plan	Non Plan	Total
VEHICLE OWNED BY INSTITUTIONS						
Vehicle Repairs and Maintenance	0.00	129,789.64	129,789.64	0.00	102,346.00	102,346.00
Insurance charges	0.00	59,953.00	59,953.00	0.00	121,998.00	121,998.00
Fuel charges	0.00	310,202.00	310,202.00	0.00	366,428.00	366,428.00
VEHICLE TAKEN ON RENT/LEASE						
Rent/Lease Expenses	0.00	0.00	0.00	0.00	0.00	0.00
VEHICLE (TAXI) HIRING EXPENSES						
TOTAL	0.00	499,944.64	499,944.64	0.00	590,772.00	590,772.00

SCHEDULE- 19
REPAIR & MAINTENANCE (Amount in ₹)

PARTICULAR	2017-18			2016-2017		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Guest house expenses	0.00	1,043,291.00	1,043,291.00	0.00	579,653.00	579,653.00
Gardning & Horticulture	0.00	14,832.00	14,832.00	0.00	46,723.00	46,723.00
Electrical maintenance	0.00	897,685.00	897,685.00	0.00	297,330.00	297,330.00
Repair & Maintenance to College Building	0.00	672,453.00	672,453.00	0.00	976,029.00	976,029.00
Repair & Maintenance to Furniture	0.00	122,253.00	122,253.00	0.00	116,548.00	116,548.00
Repair and maintenance instrument/equipments	0.00	1,249,543.00	1,249,543.00	0.00	1,117,443.00	1,117,443.00
Repair & Maintenance to Hostel Building	0.00	1,587,272.00	1,587,272.00	0.00	864,864.00	864,864.00
Repair & Maintenance to Staff Quarters	0.00	140,417.00	140,417.00	0.00	67,252.00	67,252.00
Sanitary/cleaning Expenses	0.00	1,174,428.00	1,174,428.00	0.00	477,009.00	477,009.00
TOTAL	0.00	6,902,174.00	6,902,174.00	0.00	4,542,851.00	4,542,851.00

SCHEDULE- 20
FINANCE COSTS (Amount in ₹)

PARTICULAR	2017-18			2016-2017		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Bank Charges	0.00	14,988.65	14,988.65	0.00	15,792.40	15,792.40
Others	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	14,988.65	14,988.65	0.00	15,792.40	15,792.40

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NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT

**SCHEDULE- 21
OTHER EXPENSES**

(Amount in ₹)

PARTICULAR	2017-18			2016-2017		
	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 Institutions	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 ₹)

PARTICULAR	2017-18			2016-2017		
	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 & Maintanances	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

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SCHEDULE - "23" SIGNIFICANT ACCOUNTING POLICIES, CONTINGENT LIABILITIES 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 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.


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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, however it is being classified as Intangible Assets 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 and 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 government grant and depreciation charged off are 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 is being 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.


Dy. Registrar (F & A)
NIT, Raipur (C.G.),


Registrar
NIT, Raipur (C.G.)

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 2017-18:

Depreciation on Fixed Assets purchased in 2017-18 has been calculated as prescribed in common format of Accounting and charged to Income and Expenditure account by Rs 8,41,80,641.34. 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 .

3. GPF (CORPUS) - SCHEDULE C

- i) The Institute has provided interest on GPF fund balance for the year 2017-18.
- ii) The GPF corpus fund is invested in Fixed deposits till the statutory formalities are not completed.

4. RETIREMENT BENEFITS

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

1. Defined Contribution Plans

Following amount has been recognized in Profit & Loss Account

PARTICULARS	As on 31.03.2018	As on 31.03.2017
Employers Contribution to New Pension Scheme	17,044,406.00	11,401,549.00

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}.

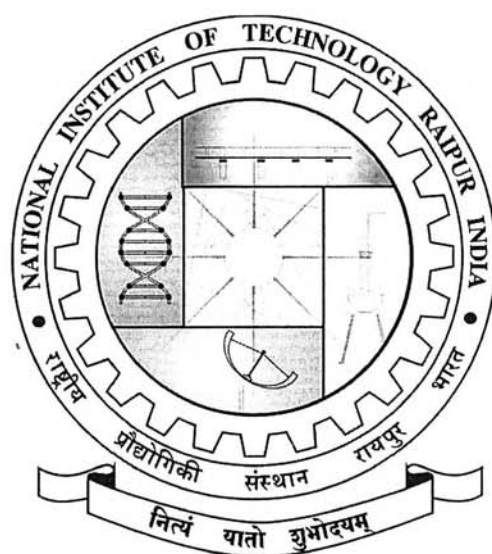
b) Provision for Leave is made as per rules.

- 5 Corresponding figures for the previous year have been regrouped/rearranged.
- 6 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.
- 7 Schedules 1 to 22 are annexed to and form an integral part of the Balance Sheet as at 31.03.2018 and the Income and Expenditure account for the year ended on that date.


Dy. Registrar (F & A)
NIT, Raipur (C.G.)


Registrar
NIT, Raipur (C.G.)

RECEIPTS & PAYMENTS ACCOUNT
FINANCIAL YEAR 2017-18



NATIONAL INSTITUTE OF TECHNOLOGY
RAIPUR (C.G.)

NATIONAL INSTITUTE OF TECHNOLOGY - RAIPUR

RECEIPTS & PAYMENTS A/C FOR THE YEAR ENDING 31.03.2018

(Amount in ₹)

Receipts	Current Year	Previous Year	Payments	Current Year	Previous Year
Opening Balance			Expenses	702,745,138.87	488,803,297.00
CASH BALANCE	43,107.00	0.00	Establishment expenses	494,996,318.00	348,120,335.00
BANK BALANCE	-5,310,781.98	118,290,956.50	Academic expenses	104,742,931.23	79,224,309.00
Canara Bank A/C No. 20996	36,532.02	782,040.02	Administrative expenses	95,603,771.00	56,851,872.00
Non-Plan (Saving) 30054181310	-40,569,655.00	110,963,158.34	Transportation expenses	499,944.64	566,705.00
SBI Bank A/c. No. 30042955244	35,416,007.78	8,263,994.28	Repairs & Maintenance expenses	6,902,174.00	4,040,076.00
SBI Bank A/c. No. 31794300805	542,065.01	1,010,995.46	Prior Period expenses	0.00	0.00
GPF Banl A/c. No. 31255750394	1,549.00	6,354.00			
			Payments against Earmarked/Endowment Fund	5,263,226.00	3,923,580.00
SBI Bank A/c. No. 30007211525	-728,108.79	-2,786,180.60			
SBI Bank A/c. No. 34930938504	-9,172.00	50,595.00			
			Payments Against Sponsored Projects/ Schemes	26,925,309.40	21,885,486.00
Grant Received	644,300,000.00	462,000,000.00			
Non Plan From MHRD, GOI	358,000,000.00	152,000,000.00			
Plan From MHRD, GOI	286,300,000.00	310,000,000.00			
			Payments Against Sponsored Fellowship & Scholarships	6,826,372.00	11,140,051.00
Academics Receipts	278,918,235.70	258,823,363.45			
Receipts against Earmarked/Endowment Fund	2,000.00	61,500.00	Investments & Deposits made	796,971,133.00	687,159,876.39
Receipts Against Sponsored Projects/ Schemes	33,825,782.00	34,683,422.00			
Receipts Against Sponsored Fellowship & Scholarships	6,458,639.00	10,699,982.00	Term Deposits with Scheduled Banks	191,898,337.00	189,399,483.05
Income on Investments	1,997,254.00	2,429,675.00			
Earmarked/Endowment Funds	1,997,254.00	2,429,675.00	Expenditure on Fixed Assets & Capital WIP	244,438,733.00	239,301,702.52
Other Investments	0.00	0.00			
Interest Received	34,817,578.00	27,341,496.00	Fixed Assets	66,045,775.00	40,424,759.52
Bank Deposits	34,423,314.00	26,784,289.00	Capital WIP	178,392,958.00	198,876,943.00
Saving Bank Accounts	394,264.00	557,207.00			
Investments Encashed	933,897,650.47	560,440,224.97	Other Payments Including Statutory Payments	51,643,025.00	33,597,441.00
Term Deposits with Scheduled Banks Encashed	188,834,519.00	163,318,203.00			
Other Income	16,705,639.70	26,214,669.00	Refund of Grants	0.00	0.00
Deposits & Advances	28,048,272.00	14,924,334.00	Deposits & Advances	31,355,795.00	17,627,698.00
Misc. Receipts Including Statutory Receipts	4,094,542.00	4,352,341.50			
Other Receipts	1,207,600.00	4,291,469.56	Other Payments	0.00	300,697.00
			Closing Balances		
TOTAL	2,167,940,036.89	1,687,871,636.98	CASH BALANCE	38,434.00	43,107.00
			BANK BALANCE	109,734,533.62	(5,310,781.98)
			Canara Bank A/c. No. 20996	34,877.02	36,532.02
			Non-Plan (Saving) 30054181310	-4,611,946.96	-40,569,655.00
			SBI Bank A/c. No. 30042955244	108,652,507.53	35,416,007.78
			SBI Bank A/c. No. 31794300805	891,673.72	542,065.01
			GPF Bank A/c. No. 31255750394	5,538,908.00	1,549.00
			SBI Bank A/c. No. 30007211525	-838,638.19	-728,108.79
			SBI Bank A/c. No. 34930938504	751.50	-9172.00
			SBI Bank A/c. No. 34313140894	1298.00	0.00
			HDFC Saving A/c No.50100084159229	65103.00	0.00
			TOTAL	2,167,940,036.89	1,687,871,636.98


REGISTRAR
NIT RAIPUR


DIRECTOR
NIT RAIPUR


CHAIRMAN, BOG
NIT RAIPUR