ANNUAL REPORT YEAR 2016-17

MAULANA AZAD
NATIONAL INSTITUTE OF TECHNOLOGY
BHOPAL - 462003
www.manit.ac.in

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1.0   INTRODUCTION

1.1   **VISION**

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CENTRE FOR TECHNICAL AND PROFESSIONAL

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1.2   **MISSION STATEMENT**

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WITH COMPETENCE, LOGICAL MIND SET,

MORAL & ETHICAL VALUES AND INNER STRENGTH

SYNCHRONOUS WITH THE FUTURISTIC REQUIREMENT

OF GLOBAL BUSINESS SO AS TO STRENGTHEN THE

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2.0 An Overview:

2.1 Historical Background/Institute Profile:

Maulana Azad National Institute of Technology (MANIT) is one of the leading institutions of national importance in the area of technical education. Established with the objective of f g x g n q r k p ḭ h č G ż E ṃ ḁ ẹ in central India, øit aims at becoming a multi-disciplinary centre for technical education by strengthening both teaching and research activities besides contributing to the needs of rural community, society and industry at large.

The Government of India and the Government of Madhya Pradesh, jointly sponsored the Institute on 4th September 1960 to attract bright young students from across the country. It was formerly known as Maulana Azad College of Technology (MACT), that was among the first eight Regional Engineering Colleges of India. It has been named after the great scholar, educationist and the first education minister of Government of India, Dr. Maulana Abul Kalam Azad. The foundation stone of the Institute was laid by Late Pandit Jawahar Lal Nehru, the then Prime Minister of India, on 23rd April, 1961.

In June 2002, Maulana Azad College of Technology was elevated to the status of a Deemed University bearing the name Maulana Azad National Institute of Technology (MANIT) Bhopal, by the Ministry of Human Resource Development (MHRD), Government of India. Enjoying the status of an institution of National Importance, MANIT is funded by Government of India and is governed by the Board of Governors (BOG) constituted as per provisions made under the National Institute of Technology Act 2007. The Board of Governors consists of a Chairperson, nominated by the President of India, the Director (ex-office), two nominees from MHRD, two nominees from Government of Madhya Pradesh, one nominee from IIT, two nominees from the Senate of MANIT, and Registrar, as the Secretary of BOG.

MANIT offers Bachelors, Masters and Doctoral programmes in Engineering and Technology, Sciences, Computer Application and Management. The programmes of study include nine Bachelors and twenty nine Masters programmes, Master of Computer Application (MCA) and Master of Business Administration (MBA) along with Doctoral programmes. The Institute has been conducting full time M.Tech. and industry oriented courses since August 1968.

Departments:

- **Civil Engineering**
- **Electrical Engineering**
- **Mechanical Engineering**
- **Material Science & Metallurgical Engineering**
- **Chemical Engineering**
- **Electronics & Communication Engineering**
- **Computer Science Engineering**
- **Biological Science & Engineering**
- **Architecture & Planning**
- **Mathematics**
- **Physics**
- **Chemistry**
- **Humanities & Social Sciences**
- **Department of Management Studies**
- **Energy Centre**
- **Nanoscience and Technology Centre**
- **Remote Sensing GIS & GPS Centre**

UG Programme

1. **Bachelor of Architecture (B. Arch)**
2. **Bachelor of Planning (B. Plan)**
3. **Bachelor of Technology (B. Tech)**

i. Civil Engineering
ii. Electrical Engineering
iii. Computer Science Engineering
iv. Mechanical Engineering
v. Chemical Engineering
vi. Electronics & Communication Engineering
vii. Material Science & Metallurgical Engineering

PG Programmes

1. **Master of Business Administration (MBA)**
2. **Master of Computer Application (MCA)**
3. **Master of Planning (M. PLAN)**

i. Urban Development (UD)
ii. Housing (HO)

4. **Master of Technology (M.TECH)**

i. Advanced Computing
ii. Bio-informatics (BI)
iii. Biotechnology (BT)
iv. Chemical Process Design (CD)
v. Computation System Biology (XB)
vi. Computer Networking (XW)

vii. Digital Communication (CD)

viii. Electrical Drives (ED)

ix. Engineering Materials (EL)

x. Environmental Engineering (EV)

xi. Geo Informatics & its application (GI)

xii. Geotechnical Engineering (GE)

xiii. Green Technology (GT)

xiv. Hydro Power Engineering (HE)

xv. Industrial Design (ID)

xvi. Information Security (IS)

xvii. Maintenance Engineering (MN)

xviii. Materials Science & Technology (MH)

xix. Nanotechnology (NT)

xx. Power System Engineering (PS)

xxi. Renewable Energy (RE)

xxii. Stress & Vibration Analysis (SV)

xxiii. Structural Engineering (SU)

xxiv. Thermal Engineering (TI)

xxv. VLSI & Embedded Systems (VS)

xxvi. Water Resource Engineering (WR)

xxvii. Transportation Engineering (TE)

5.   Ph.D Students are enrolled in all the departments

2.2 Location:

The Institute is situated in the heart of beautiful lake city Bhopal, the capital of Madhya Pradesh with a verdent 650 acre campus and is well connected by rail, road and air transport. It is at an altitude of 550m. The climate is moderate with the temperature ranging from 10°C to 45°C.

MASTER PLAN

LEGEND

A	ENTRY GATE
B	CONVENTION AND AUDITORIUM
C	LEARNING RESOURCE CENTRE
D	CAFETERIA
E	STUDENTS CENTRE
F	ENERGY CENTRE EXT. CLASSROOMS
G	DEPARTMENT
H	PREFAB DEPARTMENTS 2- NOS.
I	SECURITY BARRACK
J	N.C.C. BUILDING
K	HOUSE TYPE 3
L	ADDITION OF ROOM, TYPE - 9A
M	ADDITION OF ROOM , TYPE-9B
N	N.R.I. HOSTEL
O	P.G. HOSTEL
P	OPEN AIR THEATRE

LEGEND

Existing Blocks
Proposed Blocks

SURVEY PLAN

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2.3 Campus :

With 650 acres of sprawling campus on a plateau, the institute has a magnificent view of the new township of Tatya Tope Nagar with adjacent hill and the Secretariat building on one side and the Habibganj Railway Station and Bharat Heavy Electricals Ltd. township on the other side.

As recommended in the Master Plan for the Institute, the entire campus of 650 acres, consists of its Administrative and Institutional Buildings, Workshops, Energy Centre, Computer Centre, Library, Residential and Recreational accommodation for students and staff and other general amenities like Post-Office, Bank, Shopping Centre, School for children, Dispensary, Auditorium of 700 capacity, Students øActivity Centre, Guest House, Sports Complex and vast expanse of open area.

BOYS HOSTEL   NRI HOSTEL

COMPUTER CENTRE

POST OFFICE
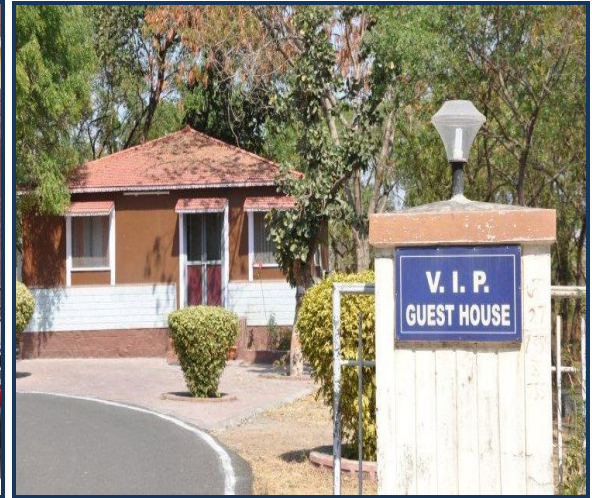
VIP GUEST HOUSE

3.0 The Council, Bog And Other Committees

3.1 Board Of Governors

1. Prof. Geetha Bali   Chairperson
    Apartment 103, 10, Sterling Southend Apartment,
    30th Cross, Jayanagar, 7th Block
    BANGALORE 6560 082.

2. Prof. N.S. Chaudhari   (from 10/3/2016 to 12/5/2017)   Ex-Officio Member
    Dr. Vinod Kumar Singh (from 13/5/2017 to 24/7/2017)
    Director, MANIT
    BHOPAL

3. Joint Secretary (TE)   Member
    Govt. of India
    Ministry of Human Resource Development
    Dept. of Secondary & Higher Education
    Shastri Bhawan
    NEW DELHI 6110 115.

4. Joint Secretary & Financial Advisor   Member
    Integrated Finance Division
    Govt. of India
    Ministry of Human Resource Development
    Dept. of Secondary & Higher Education
    Shastri Bhawan
    NEW DELHI 6110 115.

5. Prof. Ratnam V Raja Kumar   Member
    Director
    Indian Institute of Technology (IIT)

Samantapuri
BHUBANESWAR ó751 013 (Odisha)

6.	Ms Nandini Harinath	Member	
	Scientist SG		
	ISRO		
	BANGALORE (Karnataka)		

6.   Ms Nandini Harinath   Member
        Scientist SG
        ISRO
        BANGALORE (Karnataka)

7.   Smt. Kalpana Shrivastava   Member
        Principal Secretary
        Department of Tech. Education & Skill Dev.
        Goverment of Madhya Pradesh,
        BHOPAL

8.   Shri Shailendra Sharma   Member
        Anugrah, Second Floor
        3-B, Nishat Enclave
        74 Bungalow, Nishat Colony
        BHOPAL

9.   Dr. M.K. Gupta   Member   Professor
        Electronics & Communication Engineering
        MANIT, BHOPAL

10.   Dr. Dheeraj Kr. Agrawal   Member   Assistant Professor
        Electronics & Communication Engineering
        MANIT, BHOPAL

11   Dr. N.D. Mittal   Secretary
        I/C Registrar, MANIT, Bhopal

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3.2 Members Of Finance Committee

1. Prof. Geetha Bali   Chairperson
    Apartment 103,
    10 Sterling Southend Apartment,
    30th Cross, Jayanagar, 7th Block
    BANGALORE ó560 082.

2. Prof. N.S. Chaudhari   (from 10/3/2016 to 12/5/2017)   Ex-Officio Member
    Dr. Vinod Kumar Singh (from 13/5/2017 to 24/7/2017)
    Director, MANIT
    BHOPAL

3. Jt. Secretary (TE)   Member
    Goverment of India
    Ministry of Human Resource Development
    Department of Secondary & Higher Education
    Shastri Bhawan
    NEW DELHI ó110 115.

4. Joint Secretary & Financial Advisor   Member
    Goverment of India
    Ministry of Human Resource Development
    Department of Secondary & Higher Education
    Shastri Bhawan
    NEW DELHI ó110 115.

5. Dr. Dheeraj Kr. Agrawal   Member   Assistant Professor
    Electronics & Communication Engineering
    MANIT, BHOPAL

6.	Shri Shailendra Sharma Anugrah, Second Floor 3-B, Nishat Enclave 74 Bungalow, Nishat Colony BHOPAL	Member
7.	Dr. N.D. Mittal I/C Registrar, MANIT, BHOPAL	Member Secretary

3.3 Members Of Building Works Committee

1.	Prof. N.S. Chaudhari (from 10/3/2016 to 12/5/2017) Dr. Vinod Kumar Singh (from 13/5/2017 to 24/7/2017) Director, MANIT BHOPAL	Chairman	
2.	Director (NIT) Goverment of India, Ministry of Human Resource Development Department of Higher Education Shastri Bhawan NEW DELHI	Member	
3,	Director (IFD) Goverment of India Ministry of Human Resource Development Department. of Secondary & Higher Education Shastri Bhawan NEW DELHI ó110 115.	Special Invitee	
4.	Dr. Dheeraj Kr. Agrawal Electronics & Communicating Engineering MANIT, Bhopal	Member	Assistant Professor

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5.	Shri Akhilesh Upadhyay Chief Engineer (Civil) Planning & Administration O/o The Engineer in Chief State PWD, Goverment. of Madhya Pradesh Nirman Bhawan, Plot No. 27 ó28 Arera Hills BHOPAL	Member
6.	Shri M.K. Shukla Superintendent Engineer (Electrical Maintenance) O/o The Engineer in Chief State PWD, Goverment of Madhya Pradesh Nirman Bhawan, Plot No. 27 ó28 Arera Hills BHOPAL	Member
7.	Superintending Engineer (Civil), CPWD Bhopal Central Circle CPWD, 52-A, Nirman Sadan Behind Goverment of India Press Arera Hills BHOPAL ó462 011.	Special Invitee
8.	Superintending Engineer (Elect.), CPWD Bhopal Central Electrical Circle CPWD, 52-A, Nirman Sadan Behind Goverment of India Press Arera Hills BHOPAL ó462 011.	Special Invitee
8.	Dean (P & D) MANIT, Bhopal	Member
9.	Dr. N.D. Mittal I/C Registrar, MANIT, Bhopal	Member Secretary

4.0 The Staff

4.1 Academic Staff (Teaching):

S. No.	Name of Faculty	Designation
Department Of Civil Engineering		
1	Dr. Nitin Dindorkar	Professor
2	Dr. Sheo Kumar Dubey	Professor
3	Dr. A.K. Sharma	Professor
4	Dr. Vishnu Prasad	Professor
5	Dr. P.K. Jain	Professor
6	Dr. S.K. Katiyar	Professor
7	Dr. Charu Parasher	Professor
8	Dr. Tanweer.S.Deshmukh	Professor
9	Dr. Mukul Kulshrestra	Professor
10	Dr. P.K. Agarwal	Professor
11	Dr. M.S. Chouhan	Professor
12	Dr. Manjeet Singh Hora	Professor
13	Ms. Harsangeet Kaur	Associate Professor
14	Dr. Suneet Kaur	Associate Professor
15	Sh. Abhay Sharma	Associate Professor
16	Dr. M.K. Choudhary	Associate Professor
17	Dr. Jyoti Sarup	Associate Professor
18	Sh. Kamal Singh	Assistant Professor
19	Sh. Ajay Thawait	Assistant Professor

20	Sh. Raman Nateriya	Assistant Professor
21	Sh. Neeraj Tiwari	Assistant Professor
22	Dr. Siddharth Rokade	Assistant Professor
23	Dr. Rakesh Kumar	Assistant Professor
24	Dr. Kishan Dharavath	Assistant Professor
25	Sh. Junaid Raheem	Assistant Professor
26	Dr. Ruchi Khare	Assistant Professor
27	Dr. Vivek Garg	Assistant Professor
28	Dr. Hira Lal Tiwari	Assistant Professor
29	Dr. Sarvesh Pratap Singh Rajput	Assistant Professor
30	Dr. Priyanka Dhurvey	Assistant Professor

Department Of Electrical Engineering

31	Dr. A.M. Shandilya	Professor
32	Dr. S.K. Bharadwaj	Professor
33	Dr. R.K. Nema	Professor
34	Dr. Yogendra Kumar	Professor
35	Dr. Manisha Dubey	Professor
36	Dr. Shailendra Kumar Jain	Professor
37	Dr. Savita Nema	Professor
38	Dr. Tripta Thakur Kulshreshtha	Professor
39	Dr. Shivcharan Gupta	Associate Professor
40	Dr. Shushma Gupta	Associate Professor
41	Dr. N.P. Patidar	Associate Professor

42	Dr. Anoop Arya	Assistant Professor
43	Dr. Suresh Kumar Gaware	Assistant Professor
44	Dr. Priyanka Paliwal	Assistant Professor
45	Dr. Pankaj Swarnkar	Assistant Professor
46	Sh. Rishi Kumar Singh	Assistant Professor
47	Dr. Amit Ojha	Assistant Professor
48	Dr. Mukesh Kumar Kira	Assistant Professor

Department Of Mechanical Engineering

49	Dr. R.M. Sarviya	Professor
50	Dr. A.Rehman Siddiqui	Professor
51	Dr. Siraj Ahmed	Professor
52	Dr. N.D. Mittal	Professor
53	Dr. G. Dixit	Professor
54	Dr. Jiwanlal Bhagoria	Professor
55	Dr. S.P.S. Rajput	Professor
56	Dr. Sanjay Soni	Associate Professor
57	Dr. Rajesh Gupta	Associate Professor
58	Dr. R.K. Mandloi	Associate Professor
59	Dr. R.K. Dwivedi	Associate Professor
60	Dr. Kasiram Aharwal	Associate Professor
61	Dr. Rajesh Purohit	Associate Professor
62	Dr. C.M. Krishna	Associate Professor
63	Dr. Amit Kumar Telang	Assistant Professor
64	Sh. Ajay Pandey	Assistant Professor

65	Dr. Vimlesh Kumar Soni	Assistant Professor
66	Dr. Atul Manikrao Lanjewar	Assistant Professor
67	Dr. Vilas Warudkar	Assistant Professor
68	Dr. Ravindra Singh Rana	Assistant Professor
69	Dr. Vishal Parasar	Assistant Professor
70	Sh. Amit Suhane	Assistant Professor
71	Dr. Pushyamitra Mishra	Assistant Professor
72	Dr. Manoj Arya	Assistant Professor
73	Dr. Pradeep Kumar Soni	Assistant Professor
74	Dr. Manish Vishwakrma	Assistant Professor
75	Dr. Akhilesh Soni	Assistant Professor
76	Dr. Alok Singh	Assistant Professor
77	Dr. Mohan Kumar Pradhan	Assistant Professor
78	Dr. Ajay Verma	Assistant Professor
79	Dr. Arvind Kumar	Assistant Professor
Department Of Material Science & Metallurgical Engineering		
80	Dr. Sanjay Srivastava	Associate Professor
81	Mr. C. Sasi Kumar	Assistant Professor
Department Of Chemical Engineering		
82	Dr. Modhera Bharat Kr. Kalubhai	Assistant Professor
83	Dr. Sunderlal	Assistant Professor
84	Dr. Suresh S.	Assistant Professor
Department Of Electronics & Communication Engineering		

85	Dr. M.K. Gupta	Professor
86	Dr. Aditya Goel	Professor
87	Dr. A.K. Somkuwar	Professor
88	Dr. Madhu Shandilya	Professor
89	Dr. R.K. Baghel	Professor
90	Dr. Arvind Rajawat	Professor
91	Dr. Kavita Khare	Professor
92	Dr. Jyoti Singhai	Professor
93	Dr.R.N. Yadav	Professor
94	Dr. Laxmi Pradhan	Associate Professor
95	Dr. Tarun Kumar Gupta	Assistant Professor
96	Dr. Sangeeta Nakhate	Assistant Professor
97	Dr. Lalita Gupta	Assistant Professor
98	Dr. Alpana Pandey	Assistant Professor
99	Dr. Bhawani Soni	Assistant Professor
100	Dr. Dheeraj Kumar Agarwal	Assistant Professor
101	Dr. D.K. Raghuwanshi	Assistant Professor
102	Dr. Om Prakash Meena	Assistant Professor
103	Dr. Vijaysri Chaurasia	Assistant Professor

Department Of Computer Science & Engineering

104	Dr. Lavit Rawtani	Professor
105	Dr. Meenu Chawla	Professor
106	Dr. R.K. Pateria	Associate Professor
107	Sh. Vasudev Dehalwar	Associate Professor

108	Dr. Nilay Khare	Associate Professor
109	Dr. Praveen Kaushik	Assistant Professor
110	Dr. Deepak Singh Tomar	Assistant Professor
111	Dr. Jyoti Bharti	Assistant Professor
112	Dr. Khethawat Saritha	Assistant Professor
113	Dr. Manish Pandey	Assistant Professor
114	Dr. Sweta Jain	Assistant Professor
115	Sh. Bholenath Roy	Assistant Professor
116	Sh. Anup Bhaurao Bhatkar	Assistant Professor
117	Dr. Mansi Gyanchandi	Assistant Professor
118	Dr. Rajesh Wadhvani	Assistant Professor
119	Dr. Sanyam Shukla	Assistant Professor
120	Dr. Akhtar Rasool	Assistant Professor
121	Dr. Jay Trilok Choudahry	Assistant Professor
122	Dr. Dhirendra Pratap Singh	Assistant Professor
Department Of Architecture & Planning		
123	Dr. Ashutosh Sharma	Professor
124	Dr. Alka Bharat	Professor
125	Dr. Rekha Jain	Professor
126	Dr. Manmohan Kapshe	Professor
127	Dr. Anupama Sharma	Professor
128	Dr. K.K. Dhote,	Professor
129	Dr. Yogesh Kumar Garg	Professor
130	Ms. Savita Subherwal	Associate Professor

131	Dr. Sonia Taneja	Associate Professor
132	Dr. Charumitre Kapshe	Associate Professor
133	Dr. Nakul Dhagat	Associate Professor
134	Dr. Jagdish Singh	Associate Professor
135	Dr. Vinay Mohan Das	Associate Professor
136	Sh. Rajat Soni	Assistant Professor
137	Ms. Seemi Ahmed	Assistant Professor
138	Sh. Anuj Jaiswal	Assistant Professor
139	Dr. Preeti Onkar	Assistant Professor
140	Dr. Rajshree Kamat	Assistant Professor
141	Dr. Supriya Vyas	Assistant Professor
142	Dr. Navneet Munoth	Assistant Professor

Department Of Bio-Informatics

143	Dr. Kiran Singh	Professor

Department Of Biological Science & Engineering

144	Dr. Rahul M. Shrivastava	Associate Professor
145	Dr. Khushhali Menaria	Assistant Professor

Department Of Mathematics

146	Dr. K.R. Pardasani	Professor
147	Dr. Namita Shrivastava	Professor
148	Dr. Madhvi Shakya	Associate Professor
149	Dr. Usha Chouhan	Assistant Professor
150	Dr. Chandan Kumar Verma	Assistant Professor

151	Dr. Manoj Jha	Assistant Professor
152	Dr. Jai Prakash Jaiswal	Assistant Professor

Department Of Physics And Centre For Nanoscience & Engineering

153	Dr. M.M. Malik	Professor
154	Dr. Rajnish Kurchania	Associate Professor
155	Ms. Fozia Zia Haque	Assistant Professor

Department of Chemistry

156	Dr. Alok Mittal	Professor
157	Dr. Savita Dixit	Professor
158	Dr. Amit Dubey	Associate Professor

Department Of Humanities & Social Sciences

159	Dr. Vinita Mohindra	Associate Professor
160	Dr. Shuchi Shrivastava	Associate Professor
161	Dr. Anjuli Jain (Contract 2 Yrs.)	Associate Professor
162	Dr. Pushpendra Yadav	Assistant Professor

Department Of Management Studies

163	Dr. Amit Banerji	Associate Professor
164	Dr. Bikrant Kesari	Assistant Professor
165	Dr. G.S. Kushwaha	Assistant Professor
166	Dr. Priyanka Verma	Assistant Professor
167	Dr. Hargovind Singh (Cont. Appointment)	Assistant Professor
168	Dr. Varsha Rokade	Assistant Professor

Energy Centre

169	Dr. Arvind Mittal	Associate Professor
170	Dr. Archana Soni	Associate Professor
171	Dr. Prashant V. Baredkar	Associate Professor
172	Mrs. Kavita Gidwani	Assistant Professor
173	Dr. K. Sudhakar	Assistant Professor
174	Dr. Anil Kumar	Assistant Professor
175	Dr. Meena Agarwal	Assistant Professor
Department Of MCA		
176	Dr. Sanjay Sharma	Professor
177	Dr. Sujoy Das	Associate Professor
178	Dr. Ramjeevan Singh Thakur	Associate Professor
179	Sh. Amit Bhagat	Assistant Professor
180	Dr. Ghanshyam Singh Thakur	Assistant Professor
Training & Placement		
181	Dr. Aruna Saxena	TPO

4.2 Administrative Officers

S.No.	Name of Faculty	Designation	Department
1	Sh.Harish Vaidya	Assistant Registrar	Stores & Purchases
2	Sh. Benny Abraham	Assistant Registrar	Academics
3	Sh. Rajesh Lokhende	Assistant Registrar	Accounts
4	Sh. Gautam Kumawat	Assistant Registrar	Establishment
5	Sh. Pankaj Kumar Sharma	Assistant Librarian	Library

6	Sh. P.K. Bhatt	SAS Officer	Games & Sports			
7	Sh. Rajesh Mishra	SAS Officer	Games & Sports			
8	Sh. S.N. Tomer	Execitive Engineer	Electrical Maintanace			
9	Sh. R.K. Khare	Execitive Engineer	Building Maintance			
10	Dr. (Mrs.) Jyoti Lahari	Sr. Medical Officer	Dispensary			

4.3 Staff Position (Teaching & Non- Teaching)

The stalistical details of information of all categories of staff, giving names and numbers of sanctioned posts, those in position and vacancies on 30.06.2017 are given below:

Sl. No.	Name of Post	Pay Scale	Group	Sanctioned Post	In Position	Vacant
I	**Faculty**			**355**	**183**	**172**
1	Professor	PB-4 Rs.37400-67000/- AGP Rs.10,000/-	Group-A	49	53	- 4
2	Associate Professor	PB-3 Rs.37400-67000/- AGP Rs.9,000/-	Group-A	102	39	63
3	Assistant Professor	PB-3 Rs.15600-39100/- AGP Rs.6,000/-	Group-A	204	91	113
II	**Non Faculty**			**390**	**269**	**121**
B)	**Administrative Staff**			**35**	**10**	**25**
1	Registrar	37400-67000 GP 10000	Group-A	1	0	1
2	Deputy Registrar	15600-39100 GP 7600	Group-A	3	0	3
3	Asstt. Registrar	15600-39100 GP 5400	Group-A	8	4	4
4	Librarian	37400-67000 AGP 10000	Group-A	1	0	1

5	Deputy Librarian	15600-39100 AGP 8000	Group-A	1	0	1
6	Asstt. Librarian	15600-39100 AGP 6000	Group-A	2	1	1
7	Senior SAS Officer	15600-39100 AGP 8000	Group-A	1	0	1
8	SAS Officer	15600-39100 AGP 6000	Group-A	1	2	-1
9	Principal Technica Officer	15600-39100 AGP 7600	Group-A	1	0	1
10	Senior Technical Officer	15600-39100 AGP 6600	Group-A	2	0	2
11	Technical Officer	15600-39100 AGP 5400	Group-A	4	0	4
12	Supdt. Engineer	37400-67000 AGP 8700	Group-A	1	0	1
13	Executive Engineer	15600-39100 AGP 6600	Group-A	1	0	1
14	Executive Engineer	15600-39100 AGP 5400	Group-A	2	2	0
15	Senior Medical Officer	15600-39100 AGP 7600	Group-A	1	1	0
16	Medical Officer	15600-39100 AGP 5400	Group-A	3	0	3
17	Security Officer	15600-39100 AGP 5400	Group-A	2	0	2
A	**Group ᶂB**			**120**	**23**	**97**
(i)	**Ministerial Staff**			**13**	**3**	**10**
1	Sr. Supperintendent SG-II	9300-34800 AGP 4800	Group-B	4	0	4
2	Sr. Supperintendent	9300-34800 AGP 4600	Group-B	7	0	7
3	Sr. Secretary	9300-34800 AGP 4600	Group-B	1	2	-1
4	Secretary	9300-34800 AGP 4200	Group-B	1	1	0
(ii)	**Technical Staff**			**107**	**20**	**87**
1	Technical Assistant SG-II	9300-34800 AGP 4800	Group-B	10	0	10
2	Sr. Technical Assistant	9300-34800 AGP 4600	Group-B	21	13	8
3	Assistant Executive Engineer	9300-34800 AGP 4800	Group-B	7	0	7
4	Assistant Engineer	9300-34800 AGP 4600	Group-B	14	3	11

5	Junior Engineer	9300-34800 AGP 4200	Group-B	21	0	21
6	Pharmacist SG-II	9300-34800 AGP 4600	Group-B	1	0	1
7	Senior Pharmacist	9300-34800 AGP 4200	Group-B	1	0	1
8	Technical Assistant	9300-34800 AGP 4200	Group-B	32	4	28
B	**Group C**			**235**	**236**	**-1**
(i)	**Ministerial Staff**			**75**	**81**	**-6**
1	Superintendent	9300-34800 AGP 4200	Group-C	15	49	-34
2	Senior Assistant	5200-20200 AGP 2400	Group-C	19	18	1
3	Junior Assistant	5200-20200 AGP 2000	Group-C	28	14	14
4	Assistant SG-II	5200-20200 AGP 2800	Group-C	10	0	10
5	Senior Stenographer	5200-20200 AGP 2800	Group-C	1	0	1
6	Stenographer	5200-20200 AGP 2400	Group-C	2	0	2
(ii)	**Technical Staff**			**107**	**51**	**56**
1	Senior Technician	5200-20200 AGP 2400	Group-C	34	6	28
2	Pharmacist	5200-20200 AGP 2800	Group-C	1	1	0
3	Laboratory Assistant	5200-20200 AGP 2000	Group-C	32	41	-9
4	Technician SG-II	5200-20200 AGP 2800	Group-C	18	0	18
5	Work Assistant	5200-20200 AGP 2000	Group-C	22	3	19
(iii)	**Attendant**	5200-20200 AGP 1800	Group-C	53	104	-51

5.0   Academic Programmes:

5.1 Courses Offered:

The sanctioned intake and admitted strength of UG for the session 2016-17

(A) Under Graduate

S.No.	Name of Course	Sanctioned Intake (2016-17)	Admitted Intake (2016-17)
1.	Civil Engineering	92	104
2.	Mechanical Engineering	170	191
3.	Electrical Engineering	108	108
4.	Electronics & Communication Engineering	139	148
5.	Computer Science & Engineering	184	208
6.	B. Architecture	80	75
7.	Material Science & Metallurgical Engineering	62	55
8.	Chemical Engineering	62	62
9.	B. Planning	40	28
	TOTAL	**937**	**979**

Note : **Note** : In addition to the above sanctioned intake 15% through DASA scheme and 10% foreign quota = Total 25%.

The sanctioned intake and admitted strength of PG for the session 2016-17 :

(B) Post Graduate

s. No.	Name of Course	Sanctioned Intake (2016-17)	Admitted Intake (2016-17)
1.	Engineering Materials	18	17
2.	Stress & Vibration Analysis	18	17
3.	Structural Engineering	18	18

4.	Environmental Engineering	18	18
5.	Geotechnical Engineering	18	16
6.	Hydro Power Engineering	18	13
7.	Transportation Engineering	18	18
8.	Water Resources Engineering	18	14
9.	Geoinformatics	18	07
10.	Digital Communication	18	16
11.	VLSI & Embedded Systems	18	18
12.	Electrical Drives	18	17
13.	Power System Engineering	18	17
14.	Thermal Engineering	18	17
15.	Industrial Design	18	17
16.	Maintenance Engineering	18	16
17.	Materials Science & Technology	18	13
18.	Information Security	18	16
19.	Advanced Computing	18	14
20.	Computer Networking	18	19
21.	Renewable Energy	18	16
22.	Green Technology	18	12
23.	Biotechnology	18	10
24.	Chemical Process Design	18	13
25.	Nanotechnology	18	14
26.	Bio-informatics	18	08
27.	Computation & System Bioinformatics	18	05
28.	Urban Development Planning	18	09

29.	Housing	18	11
	TOTAL	**522**	**416**
1.	Master Of Computer Application (MCA)	92	87
2.	Master Of Business Administration (MBA)	92	54
	TOTAL	**184**	**141**

5.2 Admission Procedure

<u>**Under Graduate Course (B.Tech./B.Arch.) :**</u>

Admission is based on the relative performance in the Joint Entrance Examination (Main) conducted by the Central Board of Secondary Education (CBSE) as per directions issued by the MHRD, New Delhi from time to time. The candidates should have successfully passed 10+2 examination with the combination of subjects prescribed by AICTE, New Delhi, for respective discipline.

<u>**Post Graduate Course**</u>
<u>**(M.Tech./MUDP)**</u>

The admission is based on the merit of GATE (Graduate Aptitude Test for Engineering) Score and is done through Centralized Counselling for M.Tech. conducted by the coordinating NIT as per direction of MHRD, New Delhi.

<u>**Master of Computer Application**</u>:

Admission is based on the relative merit of all India MCA Common Entrance Test (NIMCET) conduct by the coordinating NIT as per the directions of MHRD, New Delhi.

<u>**MBA**</u>

The admission is based on merit prepared on the basis of CAT/GMAT Score (70% weightage), group discussion (20% weightage) and personal interview (10%).

5.3 Course Wise Enrolment With Sex, Caste Break-Up

Course wise enrolment of students with sex and caste breakup for the session 2016-17.

First to Final Year B.Tech./B.Arch./B.Planning/MCA/M.Tech./MBA(FT) in the year 2016-17.

Under Graduate:

Comparative Analysis of Admitted Strength of Under Graduate Students of last 5 Years

1 Year B. Tech. /B. Arch.

Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
Civil Engineering	50	07	13	00	05	02	27	00	104
Mechanical Engineering	104	00	22	02	12	00	50	01	191
Electrical Engineering	42	11	13	03	06	02	28	03	108
Electronics & Communication Engineering	54	26	14	06	07	03	27	11	148
Computer Science & Engineering	70	41	20	09	13	01	43	11	208
B. Architecture	15	18	12	01	04	02	16	07	75
Material Science & Metallurgical Engineering	20	03	04	04	05	01	16	02	55
Chemical Engineering	29	04	07	01	02	01	12	06	62

B. Planning	04	07	03	01	02	01	09	01	28
Total	388	117	108	27	56	13	228	42	979

2 Year B. Tech. /B. Arch.									
Branch	**General**		**SC**		**ST**		**OBC**		**Total**
	M	F	M	F	M	F	M	F	
Civil Engineering	49	06	12	02	06	02	25	02	104
Mechanical Engineering	100	01	27	00	11	01	48	00	188
Electrical Engineering	36	16	13	02	07	01	30	01	106
Electronics & Communication Engineering	53	27	13	07	09	01	28	09	147
Computer Science & Engineering	82	38	25	03	12	00	43	07	210
B. Architecture	21	18	08	04	03	03	16	06	79
Material Science & Metallurgical Engineering	15	10	08	02	04	02	15	04	60
Chemical Engineering	20	10	05	03	02	02	14	04	60
B. Planning	01	17	02	03	04	00	06	04	37
Total	377	143	113	26	58	12	225	37	991
3 Year B.Tech./B.Arch.									
Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
Civil Engineering	34	11	11	03	06	02	22	02	91

Mechanical Engineering	103	01	26	00	12	00	46	03	191
Electrical Engineering	40	11	13	04	08	00	26	07	109
Electronics & Communication Engineering	52	27	18	02	10	00	29	08	146
Computer Science & Engineering	79	26	21	06	09	03	47	04	195
B. Architecture	10	19	08	03	01	02	16	14	73
Material Science & Metallurgical Engineering	17	11	07	03	06	00	13	02	59
Chemical Engineering	24	06	06	02	03	01	18	01	61
B. Planning	07	11	07	00	03	00	08	02	38
Total	366	123	117	23	58	8	225	43	963

4 Year B.Tech./B.Arch.									
Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
Civil Engineering	49	06	14	--	08	--	23	01	101
Mechanical Engineering	97	01	26	--	12	--	46	--	182
Electrical Engineering	45	02	13	03	08	--	27	03	107
Electronics & Communication Engineering	52	25	18	02	05	05	31	06	144
Computer Science &	77	32	20	08	10	03	43	08	201

Branch									Total
Engineering									
B. Architecture	22	16	07	04	04	02	17	07	79
Material Science & Metallurgical Engineering	24	06	07	02	04	02	15	--	60
Chemical Engineering	20	12	07	01	02	01	17	01	61
B. Planning	13	07	04	02	03	01	06	04	40
Total	399	107	116	22	56	14	225	30	975

5 Year B. Arch.

Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
Architecture	33	26	13	04	06	01	24	06	113
Total	33	26	13	04	06	01	24	06	113

Comparative Analysis of Admitted Strength of Under Graduate Students of last 5 Years
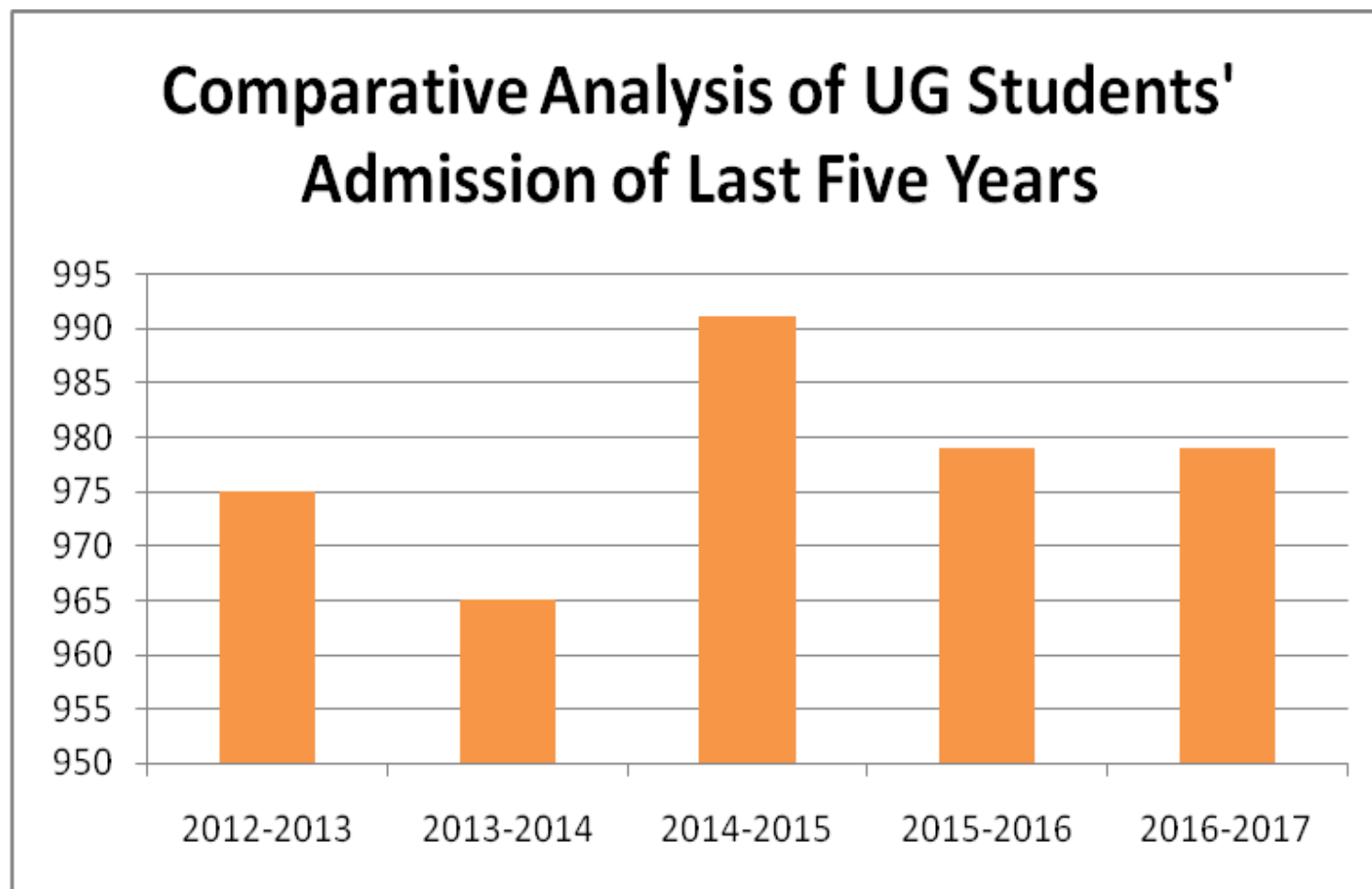
Post Graduate

I Year Master Of Technology									
Branch	**General**		**SC**		**ST**		**OBC**		**Total**
	M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Engineering Materials	04	02	03	00	01	07	00	00	17
Stress & Vibration Analysis	07	00	03	00	02	00	05	00	17
Structural Engineering	08	00	01	01	01	00	07	00	18
Environmental Engineering	05	00	03	00	01	00	08	01	18
Geotechnical Engineering	04	00	01	01	02	00	08	00	16
Hydro Power Engineering	06	00	02	00	01	00	03	01	13
Transportation Engineering	09	00	02	00	01	00	06	00	18
Water Resources Engineering	06	02	03	00	01	00	02	00	14
Geoinformatics	04	02	00	00	00	00	00	01	07
Digital Communication	04	01	01	03	00	01	06	00	16
VLSI & Embedded Systems	04	02	02	00	01	01	04	04	18
Electrical Drives	04	01	02	00	01	00	08	01	17
Power System Engineering	05	00	03	00	02	00	05	02	17
Thermal Engineering	06	01	03	00	01	00	06	00	17
Industrial Design	08	00	03	00	01	00	05	00	17
Maintenance Engineering	06	00	02	00	02	00	06	00	16
Materials Science & Technology	04	00	01	00	00	00	08	00	13
Information Security	03	03	02	01	00	01	05	01	16
Advanced Computing	03	02	03	00	02	00	03	01	14
Computer Networking	04	01	02	00	01	02	04	05	19

Branch									Total
Renewable Energy	04	00	04	00	00	00	08	00	16
Green Technology	04	02	02	02	00	01	01	00	12
Biotechnology	00	05	02	01	00	00	00	02	10
Chemical Process Design	03	02	01	01	00	00	05	01	13
Nanotechnology	03	02	03	01	00	01	04	00	14
Bio-informatics	01	04	01	00	00	00	01	01	08
Computation & System Bioinformatics	01	03	01	00	00	00	00	00	05
Urban Development Planning	04	00	01	00	00	00	03	01	09
Housing	04	02	03	00	01	00	01	00	11
Total	128	37	60	11	22	14	122	22	416

2 Year Master of Technology

Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
Engineering Materials	05	04	00	03	00	01	03	01	17
Stress & Vibration Analysis	08	01	02	00	01	00	05	00	17
Structural Engineering	05	00	03	00	01	00	08	00	17
Environmental Engineering	03	06	01	01	00	01	02	03	17
Geotechnical Engineering	07	01	01	01	01	00	03	01	15
Hydro Power Engineering	09	00	02	00	00	00	05	00	16
Transportation Engineering	07	01	01	01	00	00	04	01	15
Water Resources Engineering	06	01	02	00	01	00	03	00	13
Geoinformatics	03	01	03	00	01	00	03	01	12
Digital Communication	07	01	03	00	01	00	05	00	17
VLSI & Embedded Systems	06	02	02	00	00	01	04	00	15

Electrical Drives	08	00	00	00	01	00	04	00	13
Power System Engineering	05	02	00	01	00	01	04	01	14
Thermal Engineering	09	00	03	00	01	00	05	00	18
Industrial Design	08	01	03	00	00	00	05	00	17
Maintenance Engineering	08	01	03	00	00	00	05	00	17
Materials Science & Technology	08	00	02	01	00	00	03	01	14
Information Security	06	02	03	00	02	00	02	02	17
Advanced Computing	05	04	00	03	00	01	03	01	17
Computer Networking	05	03	01	01	02	00	02	02	16
Renewable Energy	07	02	03	00	00	00	04	01	17
Green Technology	08	00	03	00	00	01	03	02	17
Biotechnology	03	06	01	00	00	00	02	02	14
Chemical Process Design	02	03	01	01	00	00	01	00	08
Nanotechnology	04	02	00	01	00	01	04	00	12
Bio-informatics	04	04	02	01	00	01	02	01	15
Computation & System Bioinformatics	02	06	01	01	00	00	02	00	12
Urban Development Planning	08	01	01	00	00	00	01	01	12
Housing	03	03	03	00	00	00	02	00	11
Total	169	58	50	16	12	8	99	21	432

Comparative Analysis of Admitted Strength of Post Graduate Students in last 5 Years

Comparative Analysis of PG Students' Admission of last 5 Years
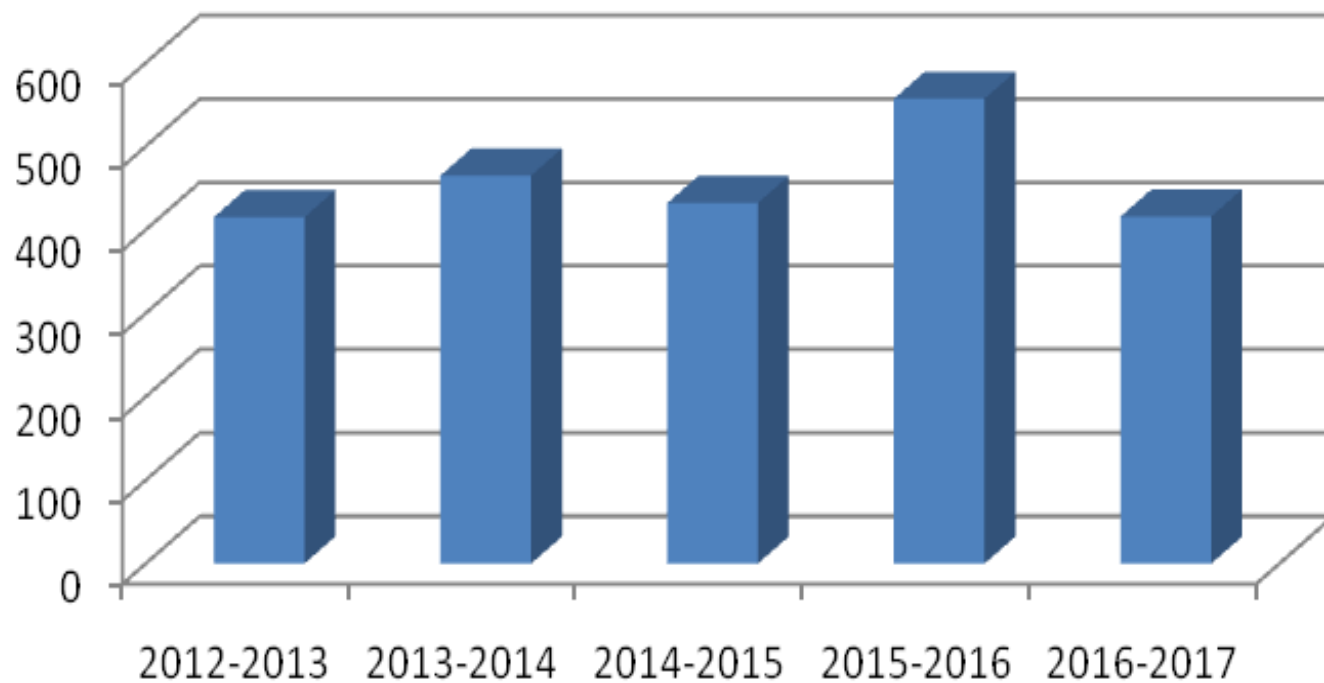
Master Of Computer Application

I Year Master of Computer Application

Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
MCA	26	19	08	05	04	03	13	09	87

II Year Master of Computer Application

Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
MCA	27	16	10	04	01	01	17	06	82

III Year Master of Computer Application

Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
MCA	16	22	11	02	01	04	22	04	82

Master Of Business Administration

I Year Master of Business Administration

Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
MBA	14	17	08	03	00	00	07	05	54

II Year Master of Business Administration

Branch	General		SC		ST		OBC		Total
	M	F	M	F	M	F	M	F	
MBA	19	26	03	01	00	00	06	06	61

5.4 Admission Statistics óUG-PG Programmes, Course-Wise

Details of admission to various courses/ degrees for the session 2016-17

S.N	Course/ Degree	Total Seats Sanctioned/ Approved	In Position out of Total Filled							
			Filled	Gen	OBC	SC	ST	PWD	Total	Vacant
	UG	937	979	496	133	69	258	23	979	--
	PG	522	416	163	70	36	143	04	416	106
	Ph.D.	--	05	05	00	00	00	00	05	--
	MBA	92	54	31	11	00	12	00	54	38
	MCA	92	87	45	13	07	22	00	87	05

5.5 Total Strength Of Students

	SC		ST		OBC		General		Total	
	Boys	**Girls**	**Boys**	**Girls**	**Boys**	**Girls**	**Boys**	**Girls**	**Boys**	**Girls**
UG	467	102	234	48	927	158	1563	490	3191	798
PG	150	42	40	30	286	73	399	195	875	340
Total	617	144	274	78	1213	231	1962	685	4066	1138

Details of Ph.Ds

Discipline wise admission of Ph.D. students in the institute during the year 2016-17

S.No.	Department	With fellowship (Full Time) Number of Students	Without Fellowship Number of Students
1.	Electronics & Communication Engineering	00	01
2.	Energy	00	01
3.	Humanities	01	00
4.	Mechanical	00	01
5.	Computer Science & Engineering	00	01
	TOTAL	**01**	**04**

5.6 Teaching, Examination And Evaluation System:

5.6.1 Number of Semester, Maximum Duration and Academic Requirements for Post Graduate Courses:

The following table lists the maximum duration allowed in the programme, and credits requirements for post-graduation in the various programmes.

Name of Programme	Number of Semester Required	Maximum Duration Allowed to complete the program
M.Tech.	4 Semester	4Years
MBA	4 Semester	4 Years
MCA	6 Semester	6 Years

No student who has completed the prescribed maximum duration in the programme shall be allowed to register in the subsequent semester unless he/she has been granted extension of the programme by the Chairman Senate on the recommendations of the HOD and Dean (Academic Affairs).

5.6.2 Evaluation process for M.Tech./MCA/MBA

Theory paper

End term Examination (Duration 180 minutes) Maximum marks	Mid term Continuous Evaluation Distribution		Total	Total Marks (Theory)
	Minor I	20		
60	Innovative work/ Assignment	20	40	100

Practical

End Term Examination (Duration 120 minutes) Maximum marks	Continuous Evaluation (Practical)		Total Marks (Practical)
	Distribution	Total	
60	Laboratory/ workshop work Mid term	20	
		40	100
	Submission & viva	20	

Evaluation process for M.Plan

End term examination (180 minutes duration) Maximum marks (Theory)	Mid term Continuous Evaluation		Total Marks (Theory)
	Distribution	Total	
	Mid term examination (90 minutes duration)	20	
40		60	100
	Studio, Viva & Assignment	40	

For promotion in next higher classes (II/III years), required Cumulative Grade Point Average (CGPA) at the end of even semester is 4.0, and CGPA for completion of course is also 4.0. Further the student must complete the M.Tech and M.Plan programme in a maximum of 4 years and MCA in 6 years.

5.6.3 Academic Performance Requirement

(i) The minimum SGPA requirement for continuing in the programme or for post graduation is 4.0 for M.Tech./M.Plan/MBA and 6.0 for MCA.

(ii) If a M.Tech./M.Plan/MBA/MCA student secures a CGPA 4.0, he/she may be allowed to continue in the following semester on the recommendation of the DPGC and with the approval of the Chairman Senate.

(iii) A student will not be allowed to continue in the M.Tech./M.Plan/MBA/MCA. programme if:

(a) His/her CGPA is below 4.0 in two consecutive semesters.
(b) He/she obtains more than two F in the same or different courses.
(c) He/she accumulates three or more F grades before the start of the final semester/thesis.

However, those who have completed course work but their CGPA is less than 4.0 or have discontinued from the course, Diploma in the course can be awarded on the recommendation of the Chairman, Senate.

 (iv) The DPGC will keep a watch on the progress of every student and whenever a student fails to meet the requirements it will intimate the Dean (Academic Affairs) who can start the termination procedure. Program is terminated, the head of the Department will issue the letter of termination in consultation of Dean (Academic Affairs) through Controller of examination (COE).

Maximum credit point average, CGPA required for M.Tech/M.Plan degree is 90 credits, for MCA it is 150 credits and for MBA it is 100 credits.

The provisions of conducting the revaluation of answer books and supplementary examinations are completely abolished.

5.6.4 Teaching
The medium of instructions/ evaluation etc. shall be English. Every course comprises specific Lecture-Tutorial-Practical (L-T-P) schedule. A lecture of one period (55 minutes duration) is assigned one credit where as Tutorial/Practical has only 0.5 credit per period. Usually three lectures are assigned for one theory subject and most of the practical classes are of two periods duration. Each course, along with its weightage in terms of units, shall require approval of the Board of Studies and approval from the Senate. Only approved courses can be offered during any semester. The theory courses are in three categories namely, departmental core subject, departmental electives and open electives. The registration of open electives can be opted by students of any branch, with the constitution of the courses whenever offered in any semester, shall each a be conducted by the assigned faculty in charge with the assistance of the required number of faculty/tutors. The faculty in charge shall be responsible for conducting the course, holding the examinations, evaluating the performance of the student and awarding the grades at the end of the semester.

5.6.5 Evaluation process for B.Tech, B.Arch and B.Plan
In each semester, there shall be normally one mid term examination and one end examination. As far as possible, all the examinations shall be conducted during the announced examination periods in the academic calendar. Each student, registered for a course, shall be awarded marks by the concerned faculty in charge. The marks awarded to a student depend upon his performance in various examinations, laboratory works/ innovative works/ assignment etc. The marks are used to award their relative letter grades and grade index.

5.6.6   Evaluation process for B.Tech Theory paper

End term examination (180 minutes duration) Maximum marks	Mid term Continuous Evaluation			Total Marks (Theory)
	Distribution		Total	
60	Mid term examination (90 minute duration)	20	40	100
	Quiz /Mini test	10		
	Innovative work/ Assignment	10		

Practical

End Term examination (120 minutes duration) Maximum marks	Continuous Evaluation (Practical)			Total Marks (Practical)
	Distribution		Total	
60	Laboratory/ workshop Work/ Mid term examination Submission & viva	20 20	40	100

Evaluation process for B.Plan/ B.Arch

End term examination (180 minutes duration) Maximum marks (Theory)	Mid term Continuous Evaluation			Total Marks (Theory)
	Distribution		Total	
40	Mid term examination (90 minute duration)	20	60	100
	Studio, Viva & Assignment	40		

Continuous evaluation system has been adopted along with credit and grading system as per the
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5.6.7 Credits, Grades, Semester and Cumulative Grade Performance Average

To clear a particular subject the required grade and grade point for **B.Tech, B.Arch and B.Plan** is D
(4.0) . For promotion in next higher classes (III/IV/V years), required Cumulative Grade Point
Average (CGPA) at the end of even semester is 4.0, and subsequently GGPA for completion of course
is also 4.0, further the student must complete the B.Tech and B.Plan programme in a maximum of 6
years and B. Arch. in 7 years.

To qualify the four years B.Tech degree course, a student has to complete minimum 174 credits
where as for four years B.Plan degree course minimum requirement is 184 credits and for five years
B.Arch degree course minimum requirement is 230 credits.

5.6.8 Credits, Grades, Semester and Cumulative Grade Performance Average

(i) In each course a student registered, earns certain approved credits and is awarded a letter grade
indicating his/her overall performance in that course. There are seven letter grades: A^+ , A, B^+, B, C, D

and F. The minimum passing grade in a subject is D. Their equivalent numeric values are given in the following table.

(ii) F grade is treated as Fail grade. Any student getting this grade will have to appear in the examination again whenever it is scheduled by the institute. A student cannot be allowed to have F grade in more than two subjects in one semester. Also he/she has to improve this grade in maximum two consecutive attempts.

Letter Grades	Grade Points	Description of Performance
A^+	9.0 to 10	Outstanding
A	8.0 to 8.99	Excellent
B^+	7.0 to 7.99	Very Good
B	6.0 to 6.99	Good
C	5.0 to 5.99	Average
D	4.0 to 4.99	Satisfactory
F	< 4.0	Fail

5.6.9 Computation of the Semester Grade Performance Average (SGPA) and Cumulative Grade Performance Average (CGPA)

The SGPAand CGPA is an indicator of the overall academic performance of a student in all the courses he/she has registered during a given semester/year.

Similarly, the GGPA indicates the cumulative academic performance in all the courses/subjects taken during the entire stay in the institute.

Formula for calculation of SGPA,CGPA,GGPA

$$ U I R C < \quad " \quad " \quad " \quad " \quad " \quad ? \quad " \, Û \, * \, p \, w \, o \, d \, g \, t \quad " \, q \, h \quad " \, e \, t \, g \, f \, k \, v \, u \quad " \, g \, c \, t \, p \, g \, f \quad " \, k \, p \quad " \, g \, c \, j \, " $$

$$ \overline{\hspace{9cm}} $$

Total number of credits in that semester

$$ E I R C \, ? \quad " \, O \, g \, c \, p \quad " \, q \, h \quad " \, q \, f \, f \quad " \, c \, p \, f \quad " \, g \, x \, g \, p \quad " \, u \, g \, o \, g \, u \, v \, g \, t \quad " \, U \, I \, R \, C \, ø \, u $$

$$ I I R C \, ? \quad " \, O \, g \, c \, p \quad " \, q \, h \quad " \, c \, n \, n \quad " \, E \, I \, R \, C \, ø \, u $$

The course credits and thesis/project credits will be shown separately in the final grade card with overall GGPA. In case a student is clearing any fail subject, the new grade obtained will replace the older one while calculating the overall SGPA/CGPA/GGPA.

The final grade index and grade shall be displayed in the institute web site and student can approach the concerned subject coordinator (s) for any clarifications within one week of the announcement of the grades. The process of evaluation shall be transparent and the students shall be made aware of all the factors included in the evaluation. In case of any corrections, the subject coordinators (s) shall have to incorporate the same before finalizing the grade and printing the mark list.

5.7 Medal Details

The over all topper, Shivani Shrivastava, 131112290 B.Tech. Computer Science & Engineering scored GGPA 9.79 (**14th Convocation**)

Gold & Silver medals for I & II Position holders in the final year of B.Tech.(all branches), B.Arch, & MCA for the session 2016-2017

Institute Topper (Ug) Gold Medal Session 2016-2017

COURSE-BRANCH	SCHOLAR NO.	NAME	GGPA
B.Tech. COMPUTER SCIENCE & ENGINEERING	131112290	Shivani Shrivastava	9.79

Gold Medal Recipients Session 2016-17

S.No	Course BRANCH	Sch. No.	Name	GGPA	Position
1.	B.Tech Civil Engineering	131111022	Aditi Vaishnav	9.30	1st
2.	B.Tech Mechanical Engineering	131116230	Abhinav Soni	9.18	1st
3.	B.Tech Electrical Engineering	131113008	Shreyansh Pandey	9.71	1st
4.	B.Tech Electronics & Communication Engineering	131114019	Priyal Gupta	9.44	1st
5.	B.Tech Computer Science & Engineering	131112290	Shivani Shrivastava	9.79	1st
6.	B.Tech Chemical Engineering	131117021	Yashwant Singh Parihar	9.22	1st
7.	B.Tech Material Science And Metallurgical Engineering	131119047	Diksha Jaiswal	9.09	1st
8.	B. Planning	131109018	Kanika Bimrah	8.76	1st
9.	B. Architecture	121110005	Ghanishth Agrawal	8.82	1st

Silver Medal Recipients Session 2016-17

S.No.	Courses	Sch. No.	Name	GGPA	Position
1.	B.Tech Civil Engineering	131111094	Vardhan Dongre	8.92	2nd
2.	B.Tech Mechanical Engineering	131116218	Anubhav Pastor	9.05	2nd
3.	B.Tech Electrical Engineering	131113042	Miral Gala	9.41	2nd
4.	B.Tech Electronics & Communication Engineering	131114031	Pratyush Shandilya	9.30	2nd
5.	B.Tech Computer Science & Engineering	131112106	Shanu Jain	9.17	2nd
6.	B.Tech Chemical Engineering	131117025	Shuchi Mittal	8.90	2nd
7.	B.Tech Material Science And Metallurgical Engineering	131119013	Akshay D Nakhate	8.42	2nd

8.	B. Planning	131109032	Shivani Sharma	8.57	2nd
9.	B. Architecture	121110110	Ayushi Chandani	8.50	2nd

Sponsored Medal Recipients Session 2016-17 (14th Convocation)

S.No.	Sponsored by	Category	Sch. No.	Name	Branch
1.	Prof. H.L.Kapoor Gold Medal	Highest marks in Chemistry	131114073	Ankita Singh Chauhan	B.Tech Electronics & Communication Engineering
			131112098	Nishant Shreshta	B.Tech Computer Science & Engineering
			131112207	Akshita Asah	B.Tech Computer Science & Engineering
2.	Dr. H.B.Khurasia Gold Medal	Overall meritorious girl student	131112290	Shivani Shrivastava	B.Tech Computer Science & Engineering
3.	Kuttan Memorial Gold Medal	Overall topper of the Institute	131112290	Shivani Shrivastava	B.Tech Computer Science & Engineering
4.	Arpit Goyal Memorial Gold Medal	Topper in Computer Sc. & Engg.	131112290	Shivani Shrivastava	B.Tech Computer Science & Engineering

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S.No.	Scholar No.	Name of Student	Branch
1.	133120004	Abha Sharma	Computer Applications
2.	113211106	Amol Digambar Pawar	Civil Engineering
3.	123102001	Ankita Sharma	Chemistry
4.	123110002	Ankita Srivastava	Architecture & Planning
5.	123214102	Arjun Singh Yadav	Electronics & Communication Engineering
6.	093111102	Arun Patel	Civil Engineering
7.	123213201	Ashif Javed Siddiqui	Energy
8.	113210002	Bhawna Shrivastava	Architecture & Planning
9.	123213102	Deepak Verma	Electrical Engineering
10.	133116002	Dinesh Kumar Soni	Mechanical Engineering
11.	13120003	Gotam Singh Lalotra	Computer Applications
12.	113112101	Jaideep Patel	Computer Science & Engineering
13.	123216003	Jitendra Yadav	Mechanical Engineering
14.	113210006	Kavita Dehalwar	Architecture & Planning
15.	123108001	Laxmi Singh Sengar	Humanities & Social Sciences

16.	123216002	Lokesh Boriwal	Mechanical Engineering
17.	123104003	Mohit Jha	Bioinformatics
18.	113213108	Monika Jain	Electrical Engineering
19.	093104101	Neetu Verma	Mathematics
20.	113213101	Pavan Khetrapal	Electrical Engineering
21.	123111105	Prakash Sangamnerkar	Civil Engineering
22.	133118001	Prashant Singh Chauhan	Energy
23.	083210101	Prateek Manke	Architecture & Planning
24.	123116004	Puneet Kumar Singh	Mechanical Engineering
25.	093213106	Rajendra K Dhatrak	Electrical Engineering
26.	123211102	Rakesh Mehar	Civil Engineering
27.	133113001	Ranjeeta Khare	Electrical Engineering
28.	093206101	Saakshi Saraf	Computer Applications
29.	0123112103	Sangeeta Sharma	Computer Science & Engineering
30.	133116003	Shailendra Singh Chauhan	Mechanical Engineering
31.	123206105	Shaligram Prajapat	Computer Applications
32.	133121007	Shiv Ratan Agrawal	Management Studies
33.	093104002	Sowmya Dhawan	Bioinformatics
34.	093205002	Vinita Pandey	Physics
35.	073114105	Virendra Singh Chaudhary	Electronics & Communication Engineering

Total No. of PhD   degrees awarded - 35
Total No. of PG Degrees awarded -   B.Tech -800, B.Arch 673, B.Plan. 644

5.8 Student Stipend & Scholarship

S.No.	Name of Scholarship	Name & Address of Awarding organization	No. of Scholarships	Value of the Scholarship
1	CBSE Merit Sch. Sp.	MHRD,of Higher Edn. Delhi	15	1000/-pm
2	National Merit Sch. SP	Director of Higher Edn.MP	10	300/-PM
3	NTSS	NCERT	--	2000/-PM
4	NEC	Director Higher Tech. Edn.	Nil	600/-PM
5	SC/ST/OBC/M.P	Distt. Organiser, Tribal Welfare M.P	105 36 259	1500/-PM+T.F SC/(H/s) 1500/-PM+T.F /ST (D/S) 425/-PM+T.F OBC (H/s) 190/-PM+T.F (D/s) OBC
6	SC/ST/AP	Director Social welfare Dept.	10	740/-PM+T.F
7	SC/ST/Jharkhand	Tribal Commissioner Jharkhand	06	740/-PM+T.F
8	SC/ST/C.G	Distt. Org.welfare Dept.	02	740/-PM+T.F

9	SC/ST/U.P	Director Social welfare U.P	22	740/-PM+T.F.
10	SC/ST/Bihar	Director Social welfare Bihar	16	740/-PM+T.F.
11	SC/ST/MH	Director Social welare MH	02	740/-PM+T.F
12	ICCR	ICCR DELHI	80	TF+Other Allowance
13	Ddcil	Edcil Noida	--	---do---
14	Merit Cum Means (Minority) M.P	MHRD, of Higher Edn. Delhi	30	--do--
15	Handicapped (MP)	Distt. Organiser, Tribal Welfare M.P	19	Tuition Fees
16	SPDC	Edcil Noida	03	75% Fees Only
17	Center Sector SC/ST	MHRD	45	

5.9 Training & Placement (2016-2017)

S.NO	Name of Branch	No. of Students Selected	Package Offered (average) in Lakhs
1	CIVIL ENGINEERING	48	
2	ELECTRICAL ENGINEERING	82	
3	MECHANICAL ENGINEERING	118	
4	ELECTRONICS & COMMUNICATION ENGINEERING	129	
5	COMPUTER SCIENCE & ENGINEERING	178	
6	MSME	18	6.82
7	CHEMICAL ENGINEERING	41	
8	ARCHITECTURE	3	
9	B. PLANNING	1	
10	MBA	2	
11	MCA	52	
12	M.TECH	27	
	TOTAL	**699**	

2. Major employers of the year:

S. No.	Name of the firms/ organizations who have visited the campus:	Brief profile of the Firm	No. of students who have been offered jobs		Package offered rupees in Lakhs
			Branch	No. of Offers	
1	C-Dot	IT Company	ECE CSE	1 5	10.5
2	Microsoft	IT Company	CSE	6	22
3	Bajaj Auto ltd.	Automobile Company	Mechanical	4	8.5
4	Maruti Suzuki	Automobile Company	Civil	2	6.3

			Electrical	1	
			Mechanical	4	
			M.Tech	1	
5	Drishti Soft	Software Company	CSE	2	16.3
6	L&T ECC	Construction Company	Civil	16	5.11
			Electrical	6	
			Mechanical	2	
			Electronics	2	
			Architecture	2	
7	U.H.G	Software Company	Electronics	3	10.54
			CSE	4	
8	Tata Motors	Automobile Company	Electrical	3	6.15
			Mechanical	6	
9	J.P. Morgan	Investment Banking	CSE	4	9
10	Reliance Industries	Petroleum Company	Electrical	6	6
			Mechanical	4	
			Electronics	6	
			CSE	4	
			MSME	2	
			Chemical	13	
11	Goldman Sachs	Investment Banking	Electrical	1	22
12	Deusche bank	Investment Banking	CSE	21	13
13	Balco	Mining Company	Electrical	1	8
			Mechanical	6	
			MSME	3	
			Chemical	2	
14	M & M	Automobile Company	Electrical	2	6
			Mechanical	6	
15	BPCL	Petroleum Company	Mechanical	6	12
			CSE	1	
16	Samsung-Delhi	Core Company	CSE	5	14
17	Samsung-Noida	Core Company	Electronics	1	8.9
			CSE	4	
18	Samsung Bangalore	Core Company	Electronics	1	9
			CSE	1	
			M.Tech	1	
19	HPCL	Petroleum Company	Civil	2	14
			Mechanical	1	
			Electronics	1	
			Chemical	1	
20	BEL	Core Company	Mechanical	2	8
			Electronics	3	

Branch Wise Students Placement in last 5 Years
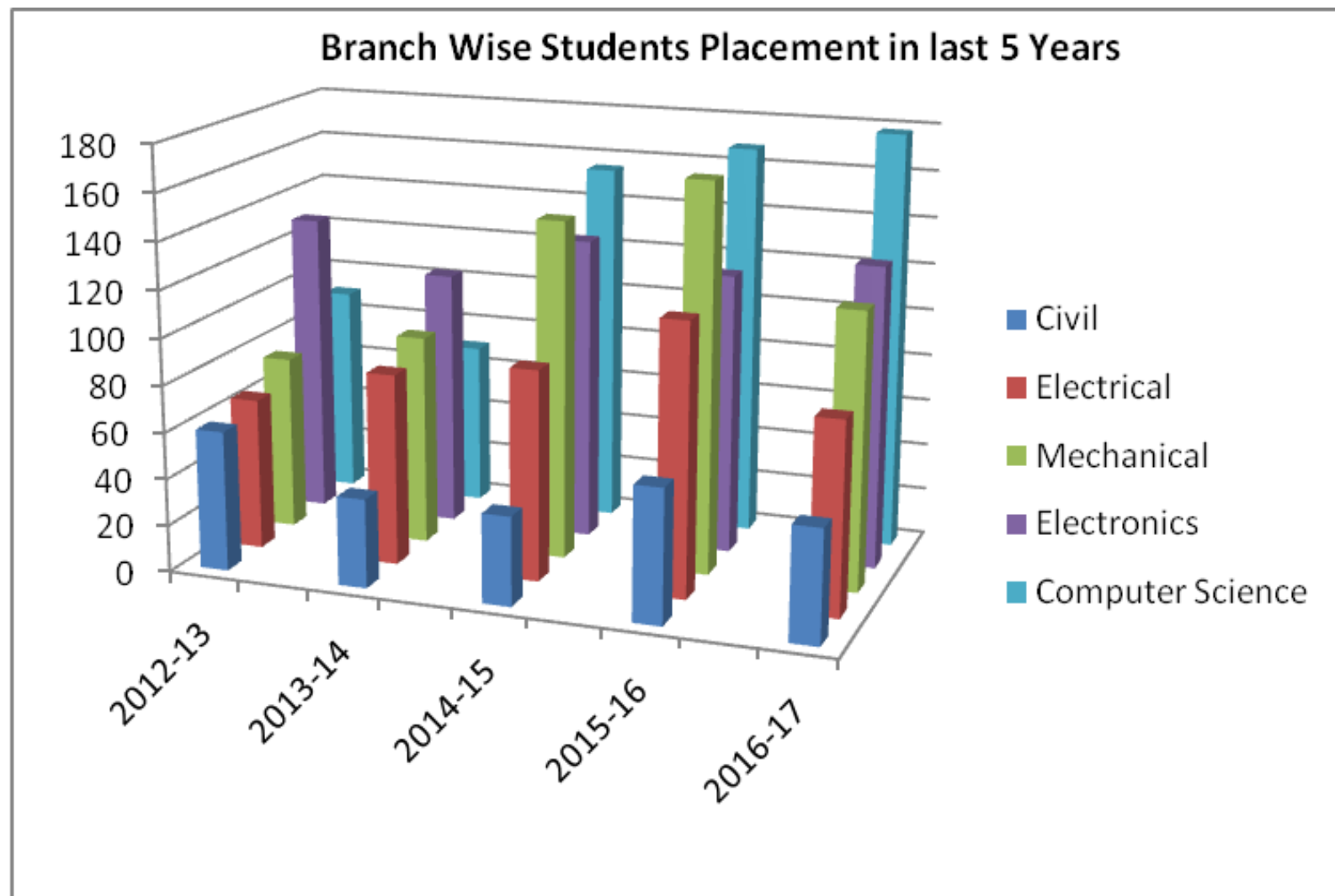
6.0   Research & Development Activities

6.1   Existing Ph.D. Programmes with their areas of research:

Doctoral Programmes
The details of the candidates working on Ph.D. programmes are given below:

S.No.	Name of the Candidate	Title of the Thesis	Year of Registration
		Department of Civil Engineering	
1	Prakash Sangamnekar	Evaluation of Time Period of Vibration Of Symmetrical Building In Seismic Analysis	2012
2	Mahesh Prasad Mishra	Seismic Drift Control in Soft Storied RCC Building	2013
3	Prabhat Soni	Literature Review in Progress Topic Not finalized	2013
4	Juned Rahim	Literature Review in Progress Topic Not finalized	2012
5	Neha Nigam	Assessment and Spatial Distribution of Ground Water Quality in and around Laharpur Reservoir through GIS Technique	Awarded in July 2016
6	Nand Kishor Gupta	Adoption of Green Building Technologies in Affordable mass housing Construction	2011
7	Rajeev Singh Parihar	Integrated Solid Waste Management for Bhopal City	January 2011
8	Mr. S.N. Shukla	Performance improvement of double suction centrifugal pump	2013
9	Mr. Kundan Meshram	Swelling Behavior of Expansive Soil Reinforced With Granular Pile	2012
10	Mr. Jitendra Kumar Gurjar	Development of Methodology for Performance Evaluation of Public Transport in India	2012
11	Mr. Ravi Gupta	D t q c f " C t g c " õ I g q v g e j p	2014
12	Mr. Shareesh Chandrawanshi	Settlement Behavior of soft clays reinforced with stone columns: An experimental study	2014
13	Arun Kumar Patel	Land Surface and Bathymetric Mapping using satellite based data	2009
14	Prashant Parsai	Development of information evaluation system for smart city planning using Geoinformatics techniques	2009
15	Mahendra Kumar Nigam	Planimetric Modeling of River Ganga Meandering Geometry using GIS techniques	2012
16	Rishi Kumar Soni	Remote Sensing Image Shadow detection techniques	2014
17	HarshlataVishwakarma	Image registration Techniques for remote sensing satellite imagery	2014
18	Rakesh Tanty	Area of research- Runoff Modeling effect of climate change	2016
19	Pramod Raghuwanshi	Sustainable Sand Extraction from river Bed	
20	Sai Amulya Nyathikala	Efficiency and Productivity analysis of urban water supplies in India for Regulation óAn International comparison with the model of England and Wales	2016

21	Nagendra Prasad Singh	Indexing of biological risk in the handpump waters in rural India.	NA
22	Sabyasachi S Roy	Efficiency Issues in Indian Railways-Some Policy Perspectives	NA
23	Sandeep Chaudhry	Maintenance management system for low volume road	2013
24	D. S Pandey	Safety at highway intersection	2014
25	Jitendra Gurjar	Performance evaluation of public Transport system	2012
26	Manoj Sharma	Maintenance management system for concrete road	2013
27	Ajay kumar Thawait	Modelling the effectiveness of best management practices on sediment yield reduction at watershed scale using swat model.	2012
28	Sandeep Thakur	Treatment of synthetic dyes by electrocoagulation and fenton oxidation process.	2012
29	Yogita Gupta	Aspects of Bridge Failure and Mitagation Strartergies	Awarded in 2016
30	Kapil Malviya	Decolourisation of industrial effluent containing dye by using water treatment plant sludge.	2013
31	Vijay Rajoria	Topic to be finalized	2017
32	Pawan Deshpandey	Development of methodology for risk assessment for PPP highway projects in India	2014
33	Suprabeet Dutta	Area of Capacity estimation for roads	2017
34	Pushpendra Palash	Area of Subgrade Analysis	2017
35	Mr. S S Kushwaha	Geoenvironmental Engineering	2014
36	Deepak Kumar Tiwari	Not yet finalized	2017
37	Devendra Rajput	Load-Settlement Behaviour of Soft Soil Reinforced with Sand Piles	2013
38	Abhishek Singh	Analysis of Geogrid Encased Stone Column	2015
39	Ram krishan Lodhi	Analysis of Tapered Stone Column in Soft Soil	2015
40	Ayush Saxena	Fault detection of rotor system due to disc mass imbalance & misalignment in flange coupling	2014
41	Abhigyanam Mishra	Vibration Based Fault Detection in	2014
42	Manjuri Swargiary	Base Station Site Selection using GIS Techniques	2014
43	Shivangi Mishra	EIA and Monitoring Studies of a Dam using remote sensing & GIS	2014
44	M. Ejaz Shahir	Seismic Response of Concrete Gravity Dam in Afghanistan	2015
45	Ankit Awasthi	Seismic analysis of multi-storey RC building with soft storey at different levels with and without shear wall	2015
46	Rajendra Patel	Scope Mini Micro Hydropower Development in Hoshangabad District	2014
47	S. N Shukla	Performance Evaluation of Horizontal Split Casing Pump	2014
48	Brij Kishore	Hydropower Engineering	2017
49	Nitika Patol	Water Distribution System	2017
50	Martand Siroliya		2017
51	Rahul Jaiswal	Effect of climate change on Water Resource Management	2013
52	Bikram Prasad	Upper Lake Bhopal	2014

53	Ankit Balvanshi	Climate Change	2016
54	Abhijeet Saha	Bridge scouring	2016
55	Deepak Tiwari	Water Resources Modeling using ANN	2017
56	Mr. Chandramani Mishra	Concrete Structures	2014

Department of Electrical Engineering

57	Suresh Gawre 083213106	Investigations on Detection and Classification of Power Quality Disturbances	2008
58	Rajendra Dhatrak sch no. 093213106	Investigations on Bearing Currents and Shaft Voltage in PWM Inverter Fed Three Phase Induction Motor Drive	2009
59	Sachin Tiwari PT/113213102	Series Compensation of Self Excited Induction Generator For Distributed Power Generation	2011
60	Deepak Verma	Performance Optimization of Solar PV Array using Modified Converter Design and Novel MPPT Algorithm	2012
61	Vikas Khare	Performance Prediction And Investigation Of HRES Using Different Optimization Techniques	2012
62	Monika Jain	õ F g u k i p . " K o r Pegformanccev c v Evaluation of SEIG based Micro-grid System	2011
63	Pavan Kshetrapal	Efficiency and Productivity Evaluation of Indian Electricity Distribution Industry	2011
64	Ashok K. Sharma	Performance Analysis of Self Excited Induction Generator	2011

Department of Chemical Engineering

65	Mr. Jitendra Kumar	Effect of Nitrogen compound on FCC catalyst	2012
66	Ms. Rupali Jha	SAPO-11 catalyst for hydroisomerization reaction	2013
67	Ms. Shikha Gangil	Biodiesel production improvement	2014
68	Mr. Ankit Kadam	Tyre pyrolysis oil	2013
69	Ramsawroop Singh Thakur	Development of Heterogeneous Catalyst for Hydrodeoxygenation of Oils	2013
70	Mr. Shourabh Raghuvansi	Development of Solid Catalyst for Isomerization and Deaminotion	2014
71	Mr. Ashwani Rathore	Technology Development for Reactive Distillation of Acids	2014
72	Mr. Yash jaiswal	Synthesis and Characterization of Catalysts for various Chemical Reactions	2017
73	Ms. Rajani Bharati	Synthesis of Nanocatalysts for Treatment of Petroleum Refinery Wastewater	2017 (thesis submitted)
74	Mrs. Anshika Rani	Design and performance of solar desalination and dryer	2014
75	Mr. Anuj Kumar Verma	Fly Ash: Economical Substitute as Paper Filler For Newsprint	2012
76	Mrs. Samatha Singh	Energy production from integrated anaerobic digestion coupled with microbial fuel cell (AD-MFC)	2014

Department of Electronics & Communication Engineering

77	Gaurav Pandey	Investigation on Integrated Long-Haul DWDM with WDM-Passive OOptical Network	2013
78	Bhupendra Shukla	Not yet finalized	

79	Abhishek Tripathi	High Level Power Estimation	2014
80	Ajay K Dadoriya	Low Power VLSI design	NA
81	Vivek Tiwari	VLSI Design	NA
82	Afreen Khursheed	Nano Technology	NA
83	Kalpana Goyal	Not yet finalized	NA
84	Aditya Saxena	Not yet finalized	NA
85	Deepa Sharma	Not yet finalized	NA
86	Tahir Khan	Image Processing	2013
87	Anu Shrivastava	Mobile communication	2015
88	Ms Trapti Sharma	Field - VLSI	August 2016
89	Sunanda Ambulkar	On Chip VCO Design with Enhanced Performance for MMW Applications	2013
90	Manish Bansal	Working in the area of High Performance Pipelined Parallel FFT Processor	2012
91	Aashish Parihar	High Throughput Modular Multiplier for RSA Encryption And Decryption	2013
92	Swapneel Bhandarkar	Switched Capacitor Filter	2014
93	Pritesh Tiwari	Area: Antenna Design	2013
94	Anshu Gupta	Area: Op amp Circuit Simulation	2013
95	Gaurav Makwana	Area: Biomedical Imaging	2014
96	Bhupendra Singh Kirar,	Development Of New Algorithms For Image Data Mining	NA
97	Ram Naresh Pal	Ultra Wide Band Micro Strip Antenna Design For Improved Directivity And Gain	NA
98	Sandeep Garg	Not yet finalized	2014
99	Pramod Kumar Patel	Not yet finalized	2014
100	Vijay Magraiya	Not yet finalized	2014
101	Deepak Kumar	Not yet finalized	2014
102	Manish Tiwari	Nanoelectronics	2013
103	Yashwant Kurmi	Microscopic Medical Image Processing	2014
104	Abhishek Sharma	Medical Image Denoising	2014
105	Ramji Gupta	Not yet finalized	2014
106	Jitendra Kumar Mathur	Not yet finalized	2014
107	HemantChaube	Not yet finalized	2014
Department of Computer Science & Engineering			
108	Sangeeta Sharma	An Efficient Three Phase Pre-copy based Virtual Machine Live Migration	2012
109	Raju Baraskar	Stable Clustering Algorithm for Efficient Key Management Scheme in Vehicular Ad hoc Networks	2012
110	Aishwarya Sagar Anand Ukey	Rendezvous in Cognitive Radio Ad Hoc Networks	2013
111	Shriya Sahu	Big Data	2014
112	Gaurav Hajela	Big Data	2015
113	Mr. Sandeep Raghuwanshi	Recommendation System	2012
114	Mr. Harish Baraithiya	E-Commerce Security	2012
115	Ms. Sonika Shrivastava	Software Defined Cloud	2013

116	Ms. Bharti Dongre	Information Retrieval	2013
117	Ms. Anupama Jain	Cloud Security	2013
118	Ms. Rashmi Singh Lodhi	Big Data	2014
119	Amit Swami	In Progress	2013
120	Hema Dubey	In Progress	2014
121	Priyank Jain	In Progress	2014
122	Shriya Shau	In Progress	2014
123	Saurabh Khare	Wireless Network Design & Analysis	2013
124	Adarsh Patel	QoS Analysis in Intelligent Transportation System	2013
125	Dileep Kumar Singh	Network Security	2013
126	Gourav Kumar Shrivastava	Performance Analysis of Software Defined Networks	2014
127	Kanu Geete	Continuing	2016
128	Mr. Rajni Ranjan Singh Makwana	Network Forensics	2012
129	Mr. Nikhil K. Singh	Social Media Mining	2013
130	Mr. Kaptan Singh	Application Firewall	2013
131	Mrs. Pranita Jain	Community Detection	2013
132	Mr. Suneet Joshi	Big Data	2014
133	Mr. Rizwan Ur Rehman	Web Application Security	2014
134	Jayesh Gangrade	Sign Language	2013
135	Chandra Prakash Singar	Image Security	2014
136	Neeraj Tantubay	Bio Key Generation	2014
137	Abhishek Tripathi	Digital Image Processing	2014
138	Neeraj Shrivastawa	Image Segmentation	2014
139	Mr. Priyank Jain	Big Data Privacy	2014
140	Ms. Sweta Saxena	Computer Aided Diagnosis system for breast cancer diagnosis and prognosis	2014
141	Ms. Anjana Deen	Protein function prediction using kernel methods	2014
142	Anil Kumar Kushwah	Course work completed	2016
143	Bhagat singh Raghuwanshi	Extreme learning machine	2016
144	Gaurav Hajela	Not yet finalized	
145	Kapil Kumar Soni	Not yet finalized	
Department of Biological Science & Engineering			
146	Ms. Anvita Gupta	CADD	2012
147	Ms. Sudha Singh	Comparative Genomics	2012
148	Ms. Anjusha Munae	Bioinformatics	2013
149	Mr. Puspendra Singh	Proteomic study	2014
150	Ms. Rashi Raizada	Bio-informatics	2014
Department of Architecture & Planning			
151	Ajay Gedam	District level planning of semi arid region in context of land and fresh water óNagpur a case study	2012
152	Arun Kapur	Aspect of Tangible heritage on intangible assets in the core area of Indian cities óLucknow a case study	2012
153	Naveen Kishore	Energy Efficiency in Building through passive design strategies	2014

154	Santosh Tiwari	Assessment of Indoor Air quality of residential spaces in composite climate to identify Sick building syndrome	2012
155	Shashi Saxena	To develop a framework for modification of Atrium to improve cooling and daylight performance in Composite Climate	2013
156	Richa Pathe	PPP Model an Approach: To develop Infrastructure of existing communities to be Green Community	2014
157	N.K.Gupta	Green buildings	2011
158	Ar. Aditya Singh	Not yet finalized	2014
159	Rajesh Kumar Borkar Sch. No. 133210002	Mixed Landuse Planning in Urban Areas for Sustainable Urban Development	2013
160	Manita Saxena	Model For Evaluating Sustainability In Peri-Urban Area	2014
161	Ar. Sumit Gothi	Real Estate Development Model	2012
162	Ar. Harsimran Chadda	Community Tourism Development	2014
Department of Mathematics & MCA			
163	Alekh Gour	Not Decided	2014
164	Ratanmala Badge	Not Decided	2013
165	Anuja Gupta	Portfolio Optimization	2014
166	Darsha Panwar	Portfolio Optimization	2014
167	Rekha Vidyanathan	Information Retrieval	Awarded in August 2016
168	Neetu Verma	Machine Learning Technique for Pricing of Option in context of Indian Stock Market	Awarded in April 2017
169	Rabia Aziz	Micro Array Data Analysis	2013
170	Ms. Saakshi Saraf	Discrete Computational Approaches for Mining Association Rules in Large Databases.	Awarded
171	Mr. Akhilesh Waoo	Mobile Ad hoc Networks	2011
172	Mr. Sanjeev Sharma	QoS in Mobile Ad hoc Networks.	2012 (Likely to be submitted)
173	Ms. Rani Sahu	Next Generation Networks & IPv6.	2013
174	Ms. Ruchi Garg	6LoWPAN: Sensor Networks	2013
175	Mr. Manoj Verma	Sensor Networks	2014
176	Mrs. Sonal Telang	Sensor Networks	2014
177	Namrata Gupta	Mathematical Model to Analyze Vaso-Activity Based Thermal Variations in Surgically Wounded Human Limbs	2012
178	Shaligram Prajapat	Avk Based Symmetric Cryptosystems and Cryptic Mining Perspectives	2012 (Awarded October 2016)
179	Gotam Singh Lalotra	Computational Models for Feature Selection in High Dimensional Medical Datasets	2013 (Awarded December 2016)
180	Abha Sharma	Clustering Models for Categorical Data using Optimization Algorithms	2013 (Awarded December 2016)
181	Narendra Kumar Gupta	Data Mining	2013
182	Vinod Kumar	Data Mining	2014
183	Harsha Patil	Data Mining	2014

184	Jayanti Mehra	Data Mining	2014
185	Pushpendra Kumar	Data Mining	2016
186	Sudhanshu Kumar	Data Mining	2016
187	Ms Nisha Singhal	Computational Mathematics	2012 (Likely to be submitted)
188	Ms Mona Dwivedi	Computational Mathematics	2012 (Likely to be submitted)
189	Mr. Sunil Kumar Suryawanshi	Computational and System Biology	2013
190	Ms. Sapna Singh Yadav	Computational and System Biology	2014
191	Ms. Neha Verma	Chemo informatics	2014
192	Ms. Rachna Soni	Computational Mathematics	2014
193	Mrs. Soumya Dhawan	In-Silico Analysis Of Molecular Sequences Of R c t m k p u q p ø u " F k u g c u g " H	Awarded in 2017
194	Ashiya Lateef	Option Pricing Prediction by fractional Partial Differential Equation.	2013
195	Nishant Soni	Design a potent drug Targeting the genes of bacterial species Mycobacterium tuberculosis using Microarray Data analysis	2014
196	Afzal Hussain	Computational studies on protein targets involved in Cancer Progression and in-Silico identification of novel Potential anti-cancer agents.	2014
197	Payal Shrivasata	Machine Learning Techniques for Currency Option	2014
198	Suvarna Sharma	Web Structure Mining	2014
199	Dharmendra Dangi	Data Mining in Big Data	2016
200	Rajit Nair	Data Mining in Big Data	2014
201	Premnarayan Arya	Sentiment Analysis	2014
202	Saurabh Dhyani	Data Mining	2013
203	Yatendra Sahu	Data Mining	2013
204	Rahul Chawda	Data Mining	2013
205	Krishna Pratap Singh	Data Mining	2013
206	Neha Choubey	On Approximating The Roots Of Nonlinear Equations Using Multipoint Without And With Memory Schemes	Awarded in 2017
207	Bhawna Panday	Local And Semilocal Convergence Analysis Of Iterative Schemes For Finding Simple Roots Of Nonlinear Equations	2012 (RDC cum Pre-thesis completed)
208	Kailash Yadav	Wavelet Analysis and its Applications	2014
	Department of Physics and Centre for Nanoscience & Engineering		
209	Pushpraj Pathak	Development Of Rare Earth Doped Aluminates And Borates Based Phosphors For Thermoluminescence Dosimetry	2012 Awarded
210	Vinita Pandey	Metal Ion Doped SnO2 Nanoparticle For Ammonia Sensing	Awarded June 2017 (Registration 2010)

211	Vaibhav Kottu	Solution Based Synthesis of ZnO Nanoparticles For Optoelectronic and Bio-Medical Applications	Awarded June 2017 (Registration2012)
212	Mohammad Shafeeque	Influence of Processing Parameters and Chemical Composition on the Properties of Cu-Al based Shape Memory Alloys	2012
213	Gagan Kant Tripathi	Bismuth Oxyhallide Nanocatalyst for Energy and Environmental Applications (Title to be finalized in RDC)	2013
214	Ankita Sharma	Synthesis and characterization of silica polymer nanocomposites for adsorption and biological applications	Awarded
215	Neha Singh	Studies of metal doped ZnO nanostructures for Photoluminescence based NO_2 i c u " u g p u	Submitted (Registration 2012)
216	Hafsa Siddiqui	Investigation on Pristine and Metal Doped Copper Oxide (CuO) Nanostructures for Solar Cell Application	Submitted (Registration 2012)
217	Mohammad Ramzan Parra	Investigation on Pristine, Group-III Elements Doped ZnO and ZnO/TiO_2 Nanostrucutres in Dye Sensitized Solar Cell	Submitted (Registration 2012)
218	Deepti Shrivastava	Nanostructured O c v g t k c n u ø " * V k RDC)	2012
219	Arpit Jain	First principle studies of silicene and grapheme (Title to be finalized in RDC)	2012
220	Jyoti Prakash Jwala	Nanomaterials Synthesis and characterization of Semiconductor Nanomaterials (Title to be finalized in RDC)	2013
221	Niraj Kumar Singh	Wide Band Gap Semiconductors (Title to be finalized in RDC)	2013
222	Shivangi Dubey	Study of five layer Aurivillius oxides synthesised by wet chemical routes	2013
223	Nitu Yana	Nanostructure based optical Gas sensors (Title to be finalized in RDC)	2013
224	Rajesh Kumar Chopde	Solid superionic Conductors (Title to be finalized in RDC)	2013
225	Afreen Khursheed	CNT based Interconnects For Future VLSI Technology	2014
226	Suneel Kumar	Nanomaterials Synthesis and characterization of Nanomaterials	2014
227	Pramod Kumar Patel	Nanomaterials Synthesis and characterization of Nanomaterials	2014
228	Kumar Naveen	Doped rare earth Manganites	2014
Department of Chemistry			
229	Shikha Rana	Natural Products	2014
230	Mitali Dugvekar	Composite material	2017
231	Mr. G. Robin Wilson	Organic-Inorganic Functionalized Ordered Mesoporous Silica Nanocomposites for Catalytic c p f " C f u q t r v k q p " C r r n k e	2016 (Awarded)
232	Ms Ankita Sharma	Synthesis and characterization of silica polymer nanocomposites for adsorption and biological applications	2017 (Awarded)

233	Ms Savita Verma	Synthesis and characterization of silica and gaphene oxide nanocomposites for catalytic applications	2014
Energy Centre			
234	Anand Singh	Power quality assessment and performance prediction of biomass gasification for power generation	2013
235	Anand Jain	Design development and performance analysis of PCM solar air heater	2013
236	Arun Kumar Sharma	Bio diesel	2013
237	Akash Kumar Shukla	Building integrated photovoltaic system	2014
238	Mary Debbarma	Building integrated photovoltaic system	2014
239	Shivkumar Sonkar	Carbon emission detection and calculation of CDM project	2014
240	Sanjay Chalotre	Energy enhancement by LTC in spark ignition engine	2014
241	Arpita De	Voltage stability issues of integrated energy systems	2014
242	Geetam Richhariya	Dye sensitize solar cell	2014
243	Ruma Arora Soni	Increasing efficiencies of Biophotovoltaics	2014
244	Amit Rohit	Energy storage	2015
245	Chandra Bhushan Tripathi	Hybrid Energy System	2015
246	Alok Kumar Sahu	Floating Solar Panel	2014
247	Sanjeev kumar Bhukesh	Renewable Energy based Thermo Electric Generator	2016
248	Kavali Janardhan	Multi level Inverter for solar application	2016
249	Mukesh kumar Rathore	Wind turbine Axial flow analysis	2016
250	Lovebrat Saxena	Concentrated Solar Power	2016
251	Pushpendu Dwivedi	Desalination of water	2016
252	Rohit Yadav	Global Solar Radiation Modelling	2017
253	Lokesh Udhwani	Renewable Energy System	2017
Department of Humanities and Social Sciences			
254	Ambri Shukla	Realistic Representation of Orientalism of the 19th and 20th Century China in Selected Works of Pearl S. Buck	2012 RDC Completed
255	Laxmi Singh Senger	Workers Participation in Management- A Study on Bharat Heavy Electricals Ltd. Bhopal	Awarded
256	Suman Swati	Deconstructing Feminism: A Critique of The F c t m " U k f g " q h " v j g " " ÷ P g F. Scott Fitzgerald.	2013 RDC Completed
257	Jahangir Ahmad Bhat	Analyzing Performance of Handicraft Sector Through Supply Chain	2014
258	Dama Raju Subba Rao	Enhancing the Cross Functional Performance of Power Professionals: A study of NTPC	2014
259	Mudasir Ahmad Mir	Absurdities in the Dramas of Harold Pinter	2014
260	Nawal K Shrivastava	Financing of Railway Infrastructure and Budget Process of Indian Railways	2015
Department of Management Studies			
261	Feroz K Suri	A Study of Research & Development in Indian	2013

		Pharmaceutical Industry	
262	Anand Chandravanshi	Analysis of Outward Foreign Direct Investments by Indian Information Technology Sector Companies	2011
263	Mukesh Kaushal	A Study of Food Supply Chain System	2014
264	Nagendra Kumar Sharma	A Study Of Green Marketing In Automobile Industry	2013
265	Anil Kumar	Public Food Supply Chain System	2013
266	Rahul Gajviye	Direct Marketing System	2014
267	Mr. Sunil Atulkar	Measuring the Influence Of Shopping Values On Customer Satisfaction At Shopping Malls Of Central India	2013
268	Mr. Bhupendra Kumar Verma	Assessment of Turnover Intention Among Employees Of Steel Industries With Special Reference To Chhattisgarh State	2013
269	Mr. Raj Kumar Soni	A Study Of Selective HRM Practices And Its Impact On Employee Job Satisfaction In Pharmaceutical Industries	2013
270	Mr. Satyanaryan Pandey	A Study On Factors Affecting The Marketing Of Renewable Of Energy Source	2014
271	Amit Khare	A Study On Multilevel Marketing	2012
272	Somesh Kumar Sinha	A Study On Sales Promotion	2013
273	Poonam Likhitkar	Retail Marketing	2014
274	Sachin Sharma	Telecom Sector	2014
275	Manisha	NA	2012
276	Khushboo Sabharwal Gupta	Quality Assurance in Health Care	2013
277	Abdul Rashid	Retail Marketing Management	2014
278	Abhishek Parsai	Rural Management	2014

Comparative Analysis of Candidates Working on Ph.D Programmes (Last 5 Years)
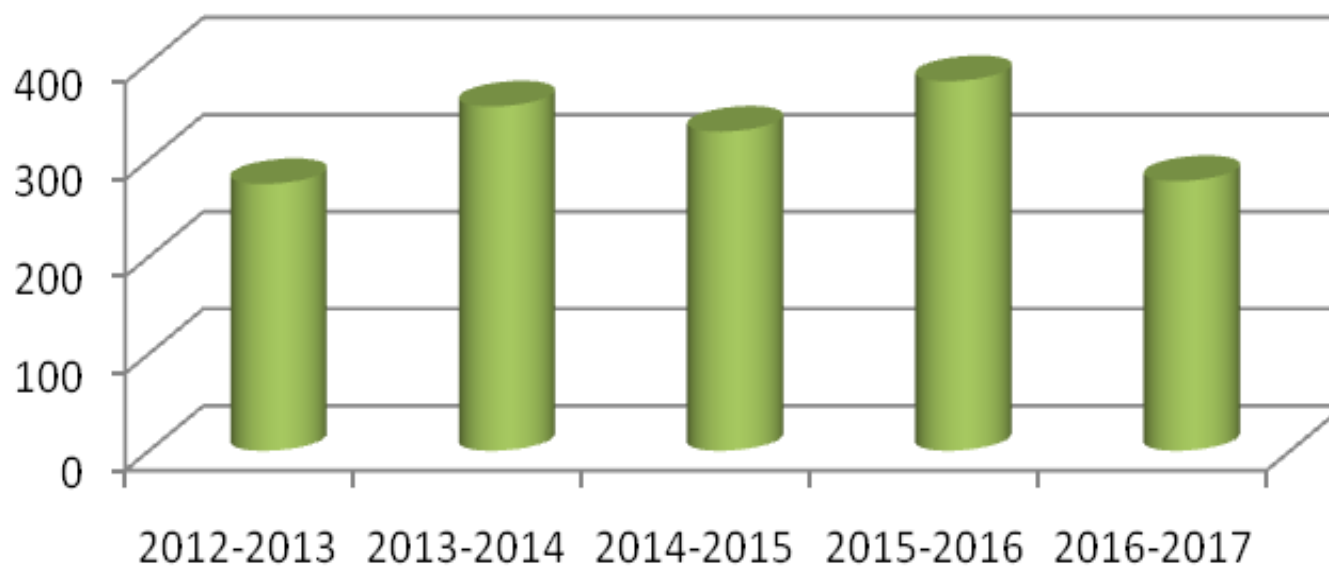
6.2 Seminars/Symposia, Summer/Winter Schools And Workshops, Conferences Organized (2016-17)

S. No.	Topic of Seminar/Symposia etc.	Period		No. of participants	Name of the Coordinator
		From	To		
Department of Civil Engineering					
1	Soil Investigation and Testing of materials for pavements, buildings and Bridges	16-01-2017	20-01-2017	65	Dr. P.K.Jain & Dr. Rakesh Kumar
2	Soil Investigation and Design of Foundations	27-06-2016	01-07-2017	58	Dr. P.K.Jain Dr. Siddharath Rokade & Dr. Rakesh Kumar
3	Training Program For Field Engineers Of Up Rural Engineering Department (Pmgsy Cell)	22/5/2017	26/05/2017	25	Dr, M,S Chauhan Dr. S. Rokade Dr. D.Kishan Dr. S.P.S rajput
4	Training Program for Field Engineers of UP Rural Engineering Department	22-05-2017	26-05-2017	20	Dr. M S Chauhan Dr. M K Choudhary Dr. S Rokade Dr. Kishan D. Dr. S P S Rajput
5	Soil Investigation and Testing of materials for pavements, buildings and Bridges	16-01-2017	20-01-2017	65	Dr. P.K.Jain Dr. Rakesh Kumar Dr. S Rokade
6	Soil Investigation and Design of Foundations	27-06-2016	01-07-2017	58	Dr. P.K.Jain, Dr. Siddharath Rokade & Dr. Rakesh Kumar
Department of Electrical Engineering					
7	Workshop on NBA and SAR filing	17-11-2016	-	40	Dr. R.K.Nema
8	IEEE International Conference on Electrical Power and Energy Systems (ICEPES)	14-12-2016	16-12-2016	300	Dr. S.Jain, Dr. R.K.Nema, Dr. Savita Nema, Dr. Tripta Thakur
9	Energy Saving By Mitigation of Harmonics in Industry Variable Speed Drives	17-02-2017	-	300	Dr. Savita Nema
10	SRAJAN 17, Student Project Contest 2015	04-03-2017	05-03-2017	40	Dr.Savita Nema (Mentor), Dr. Amit Ojha (FA)
Department of Material Science & Metallurgical Engineering					
11	Advanced Spectroscopic Tools For Materials Characterization (ASTMC-2017)	12-07-2017	22-07-2017	30	Dr. Sanjay Srivastava Dr. C. Sasi Kumar Dr. O.P.Modi
12	One Day National Workshop	27-08-2017	NA	40	Dr. C. M. Krishna

	on Startups in Engineering: Recent Trends				Dr. C. Sasi Kumar In collaboration with CII, Bhopal

	Department of Chemical Engineering				
13	Spectroscopic Tools for Material Characterization	02-06-2017	06-06-2017	25	Dr. Sundar Lal Pal

	Department of Electronics & Communication Engineering				
14	Short term training program qp "õOqfgnkpi " implementation of Analog and digital using EDA	26-12-2016	30-12-2016	27	Dr. R. K. Baghel Dr. Arvind Rajawat Dr. Ajay Somkuwar Dr. Sangeeta Nakhate
15	Applications of MATLAB and SIMULINK in Engineering and Science	01-05-2017	05-05-2017	70	Dr Ajay Somkuwar Dr R K Baghel Dr Lalita Gupta
16	Control System Design Using 20sim tool	04-07-2017	06-07- 2016	33	Dr. Vijayahri Chaurasia Dr. Alpana Pandey Dr. D.K. Raghuvanshi
17	LAN & WiFi installation and security	24-09-2016	-	25	Dr. O.P Meena
18	Android application development	21-10-2016	-	30	Dr. O.P Meena
19	Self óFinancing Short Term Training Program on Circuit Simulation And Modeling	27-06-2016	01-07- 2016	30	Dr. Alpana Pandey Dr. T.K. Gupta, &Dr. Vijayshree Chaurasia

	Department of Computer Science & Engineering				
20	Workshop on Cyber Security Threats and Forensics	23-03-2017	24-03-2017	65	Dr. R.K. Pateriya Dr. Deepak Singh Tomar
21	Workshop on Cyber Forensics: Fundamentals and Advancement	27-01-2016	29-01-2016	65	Dr. R.K. Pateriya Dr. Deepak Singh Tomar
22	Hands on Training Program entitled õKpvgtpgvyqtm Crrnkecvkqpuö	11-01-2016	15-01-2016	22	Dr. Sanyam Shukla Dr. Dhirendra Pratap Singh Dr. O P Meena Dr. Tarun Gupta
23	Short Term Training Program entitled õOcvjgocvkecn and their Applications in Computer Domain	20-06-2016	24-06-2016	53	Dr. Madhvi Shakya Dr. Sujoy Das Dr. Sanyam Shukla
24	Cyber Security Awareness and Alert sponsored by PTRS MP Police, Indore.	26-07-2016	NA	65	Dr. Praveen Kaushik Dr. Manish Pandey

	Department of Architecture & Planning				

25	Workshop of resource persons q p " õ K u " wópAd w k n Available Land for F g x g n q r o g p v " A	08-05-2017	NA	NA	Bharat A
26	Training programme for students and early career professionals , on understanding Periphery and Per-Urban areas	09-05-2017	NA	NA	Bharat A
27	One day Workshop on õ C w v q f g u m " T G X Autodesk	23-09-2016	NA	45	Dr. Anupama Sharma
28	One day Tribal Workshop for students	23-10-2016	NA	48	Dr. Anupama Sharma
29	Two day IIID Design Yatra q p " õ U o c t v " E k v	06-02-2017	07-02-2017	60	Dr. Anupama Sharma
30	As organizing member , One day student workshop õ K p v g t p c v k q p c R g t u q p c n k v { " I Department of Architecture & Planning, MANIT, Bhopal	05-08-2016	NA	120	Dr. Anupama Sharma Dr. Rajshree Kamat
31	As organizing member , Two day student workshop on õ U o c t v " E k v { " K collaboration with IIID, Bhopal at MANIT, Bhopal.	06-02-2017	07-02-2017	150	Dr. Anupama Sharma Dr. Rajshree Kamat
32	Application of GIS in Urban Planning	19-09-2016	05-10-2016	26	Dr. Preeti Onkar Dr. Anuj Jaiswal
Department of Mathematics & MCA					
33	15 days Training Programme on Bioinformatics	01-10-2016	1710-2016	19	Dr. K. R. Pardasani
34	Fifth International Conference on Eco-friendly Computing and Communication Systems (ICECCS) sponsored by IEEE M.P. Subsection	08-12-2016	09-12-2016	NA	Dr. Sanay Sharma
35	STTP(under TEQIP) on Discrete Mathematical Structures.	14-10-2016	16-10-2016	50	Dr. Madhvi Shakya
36	Big Data Analytics using Hadoop and Ecosystem	06-10-2016	10-10-2016	50	Dr. R. S. Thakur Dr. Manoj Jha Dr. Rajnish Kurchania
37	National Workshop on Bioinformatics	26-06-2017	30-06-2017	26	Dr. K. R. Pardasani Dr. Usha Chouhan
Department of Physics and Centre for Nanoscience & Engineering					

38	19th National Seminar on Ferroelectrics & Dielectrics XIX-NSFD 2016	19-12-2016	21-12-2016	100	Dr. Rajnish Kurchania
39	Big Data Analytics using Hadoop and Ecosystems	06-10-2016	10-10-2016	80	Dr. Rajnish Kurchania
40	Short Term Training Programme on IP Procedure, Patent Drafting and Commercialization	15-10-2016	19-10-2016	38	Dr Fozia Z. Haque
41	One Day Seminar to celebrate of National Science Day, on õUrgekcnn{ "Cd theme, sponsored by MPCST Bhopal	28-02-2017	28-02-2017	140	Dr Fozia Z. Haque
Energy Centre					
42	Advances in energy efficient technologies (AEET) on 26-30 September 2016 Organised by Mechanical Engg. department Maulana Azad National Institute of Technology, Bhopal (M.P)	26-09-2016	30-09-2016	98	Dr.Prashant Baredar
43	National Workshop On Smart Cities-Their influence on Rural Development 15th October 2016 Organised by Maulana Azad National Institute of Technology, Bhopal (M.P)	15-10-2016	15-10-2016	55	Dr.Prashant Baredar
44	Climate Change, Carbon Sequestration & Sustainable Energy Sources Maulana Azad National Institute of Technology, Bhopal (M.P)	23-03-2017	27-03-2017	45	Dr.Prashant Baredar Dr.K.Sudhakar
45	Intellectual Property Rights Workshop- Energy Centre, MANIT, Bhopal held on	26-07-2016	27-07-2017	65	Dr. Meena Agrawal
Department of Management Studies					
46	Research methodology and Data analysis through SPSS	11-05-2017	12-05-2017	34	Dr. Priyanka Verma
47	IP Procedure, Patent Drafting and Commercialization	15-10-2016	19-10-2016	45	Dr. Varsha Rokade Dr. Fozia Haque Dr. Vinita Mohindra
48	Professional Ethics and	02-03-2016	02-03-2016	60	Dr. Varsha Rokade

	Human Values				Dr. Vinita Mohindra
49	Applications of SPSS in Multidisciplinary Research	06-01-2016	10/01/2016	45	Dr. Varsha Rokade Dr. Vinita Mohindra Dr. S Rokade
50	ERP óBasic modules workshop	05-03-2016	07-03-2016	120	Dr. Hergovind Singh Dr. G. S. Kushwah
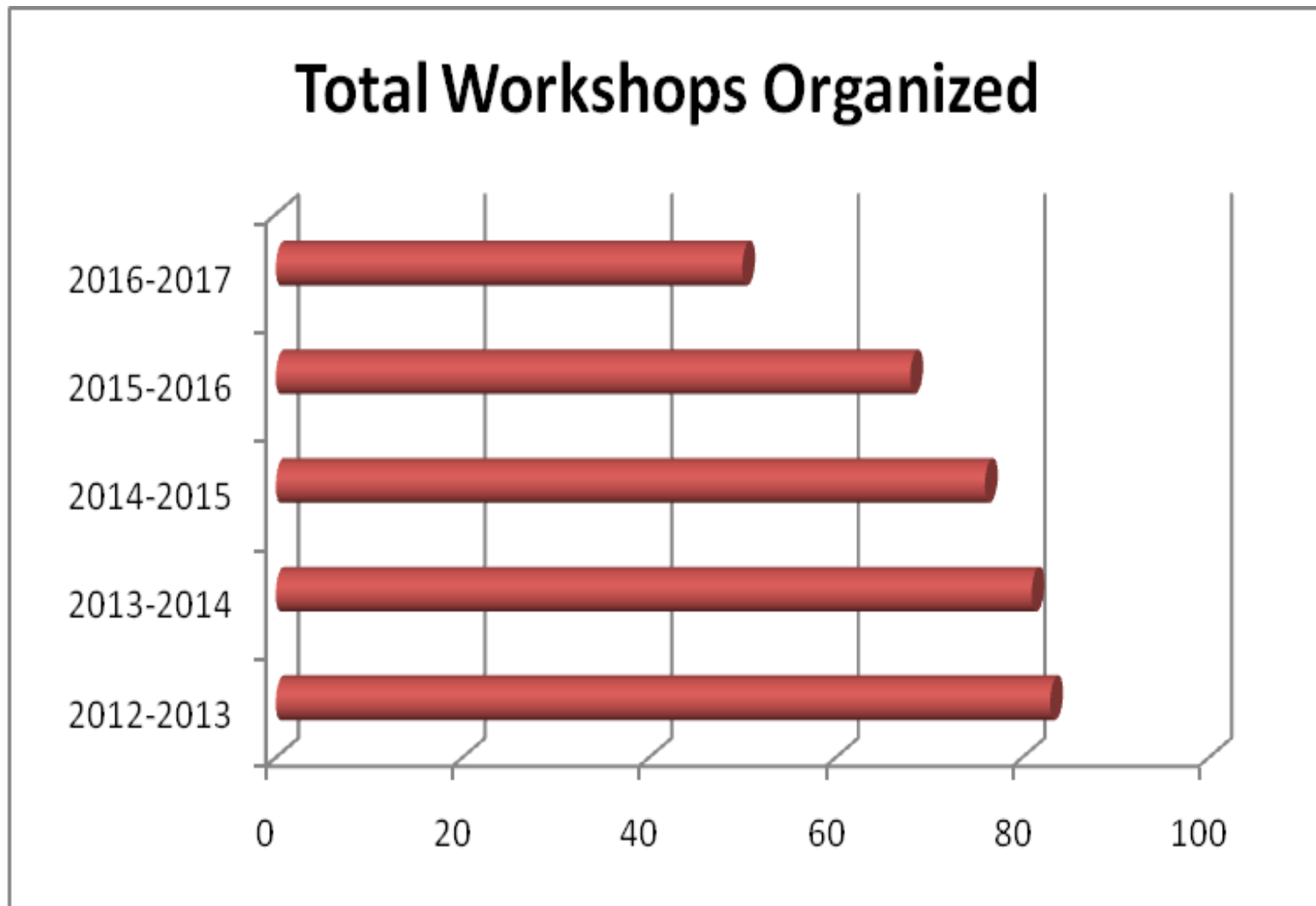
6.3 Seminars/Symposia Attended By Faculty Members

The details of the members of the faculty of the Institute who were sponsored by the institute to attend seminar/symposia held at various places in the country and abroad during 2016-17 are given below:

| S.No.	Name of faculty members	Topic of Seminar	Period and Place
		Department of Civil Engineering	
1	Dr. S.K. Dubey	Myriad Manifestation Of Concrete	01-02 March 2017 Bangalore
2	Dr. A.K. Sharma	Workshop on Source Apportionment Study	10 November 2016 Bhopal
3	Dr. Vishnu Prasad	National conference on Water Resources and Flood Management with special reference to Flood Modelling, SVNIT, Surat	14-15 October 2016 SVNIT, Surat
4	Vishnu Prasad	6th International and 43rd National Conference on Fluid Mechanics and Fluid Power,	15-17 December 2016 MNNIT, Allahabad
5	Dr. P.K. Jain	QIP Short Term Course on Recent Advancement in Soil Dynamics	13-17 September 2016 I.I.T. Kanpur
6	S. K. Katiyar	Geospatial World Forum 2017 23-01-2017 to 25-01-2017	23-24 January 2017 Hyderabad
7	S. K. Katiyar	BRICS-WG-GS & BRICS Workshop on Geodesy at	24 January 2017 Hyderabad
8	Dr. Charu Parashar	Workshop on selection ,operation and maintenance of centrifugal /VT Pump	04-06 April 2017 Pune
9	Dr. Charu Parashar	Programme on conducting EIA study and preparation of EIA reports case study and group discussion	02-04 May 2017 Hyderabad
10	Dr. T.S.Desmukh	NBA Workshop by Shiv Prakash	17 October 2016 MANIT
11	Dr. T.S.Desmukh	Workshop On Selection, Operation And Maintenance Of Centrifugal /VT Pump	04-06 April 2017 CWPRS, Pune
12	Dr.Suneet Kaur	Conducting of EIA Study and preparation of EIA Reports- Case Study & Group Discussion	02-04 May 2017 ESCI Campus, Gachi Bowli, Hyderabad
13	Dr. M. K. Choudhary	U V E " q p " õ U q k n " K p x g u v k i c for Pavements Buildings and Bridges ö	16-20 January 2017 MANIT Bhopal
14	Kamal Singh	V t c k p k p i " r t q i t c o " q p " õ V U c h g v { " C w f k v ö	24 June-01 July 2016 Central Road Research Institute (CSIR), New Delhi
15	Kamal Singh	STTC on õ E q p e t g v g " T q c f esign and " C Evaluatio p ö	27 February-01 March 2017 IIT Kharagpur
16	Kamal Singh	Remote Sensing and GIS in Cartography and Mapping	01 May-23 June 2017 Indian Institute of Remote Sensing,

			Dehradun
17	Dr. Siddharth Rokade	Traffic Engineering and Road Safety Audit	25-29 July 2017 CSIR-CRRI New Delhi
18	Dr.Ruchi Khare	Advances in Fluid Flow Control And Measurement Techniques (AICTE Sponsored)	05-10 December 2017 IIT, Roorkee
19	Dr.Ruchi Khare	Startups in Engineering: Recent Trends	27 August 2017 MANIT Bhopal
20	Dr.Ruchi Khare	Climate Change, Carbon Sequestration and sustainable Energy Sources	23-27 March 2017 MANIT Bhopal
21	Dr.Ruchi Khare	Selection, Operation And Maintenance Of Centrifugal Pumps And Vertical Turbine	04-06 April 2017 CWPRS, Pune
22	Dr. Vivek Garg	NBA Workshop under TEQIP-II	17 October 2017 MANIT, Bhopal
23	Dr. H.L. Tiwari	STTP on Soil Investigations and Design of Foundations	27 June-01 July 2016 MANIT, Bhopal
24	Dr. H.L. Tiwari	Workshop on NBA Accreditation and SAR Filling	17 October 2017 MANIT Bhopal
25	Dr. H.L. Tiwari	Workshop on Modeling and Analysis of Turbomachinery using ANSYS	21-25 September 2016 IES Banglore &MANIT Bhopal
26	Dr. H.L. Tiwari	International Seminar on Reliable Data Acquisition System for Integrated Water Resource Management.	07-08 November 2016 CWPRS Pune
27	Dr. H.L. Tiwari	International Conference on Hydraulics water Resoureces and Coastal Engineering (HYDRO 2016)	07-09 December 2016 CWPRS Pune
28	Dr. H.L. Tiwari	STTP on Soil Investigations and Testing of Materials for pavements, bridges and buildings	16-20 January 2017 MANIT Bhopal
29	Dr. H.L. Tiwari	Workshop on Water Accounting and Water Productivity in Madhya Pradesh	20 January 2017 WRD,Govt of MP
Department of Electrical Engineering			
30	Dr. R.K.Nema	Workshop on NBA and SAR filing	17 November2016 MANIT
31	Dr. R.K.Nema	Quality Initiatives in Technical & Higher Educational Institutions	07-09 September 2016 ESCI, Hyderabad
32	Dr. Shailendra Jain	ARM Cortex-M4 Microcontroller based Power Electronics System Development, (CPDA)	24-26 February 2017 SVNIT Surat
33	Dr. Savita Nema	Workshop on NBA and SAR filing	17 November 2016 MANIT
34	Dr. N.P.Patidar	Newton-Bhabha India-UK Advanced Training U e j q q n " q p " õ Q r v k o c n " F g u community: New Ideas for off- i t k f " e q o o v	17 November 2016 IIT Gandhinagar, Gujrat
35	Dr. Sushma Gupta	Preparation of Research Proposal to Funding Agencies	21-27 December 2016 Pune
36	Dr. Anoop Arya	Electricity Regulation & Commercial Aspects of Indian Power Sector	June-November 2016 NPTI, Faridabad
37	Dr. Pankaj Swarnkar	Workshop on NBA Accreditation and SAR Filling	17 November 2016 MANIT Bhopal

		Department of Chemical Engineering		
38	Dr. Sunder Lal Pal	Green Chemistry for Cleaner Technologies	09-13 January 2017 IIT Roorkee
39	S. Suresh	Nanostructured and Nanocomposite Polymer Films and Membranes	8 May 2017 CCNY, New York,USA
40	S. Suresh	Advanced rheology measurements for hydrates and CMP slurries	1 May 2017 CCNY, New York,USA
41	S. Suresh	Hazardous Waste Management Training	4 April, 2017 EHOS, New York,USA
42	S. Suresh	Laboratory Certificate of Fitness Training	5 April, 2017 EHOS, New York,USA
43	S. Suresh	Fluid E c v c n { v k e " E t c e m k p i " Opportunities for Catalyst Design	3 April 2017 CCNY, New York,USA
44	S. Suresh	Building Better Biofilms: Chemical Interactions and Structure-Function Relationships in Bacterial Communities	27 March 2017 CCNY, New York,USA
45	S. Suresh	Controlling Catalysis with Visible Light	20 March 2017 CCNY, New York,USA
46	S. Suresh	Development of Experiment and Theory to Detect, Predict, and Visualize Ligand Phase Separation on Metal Nanoparticles	27 February 2017 CCNY, New York,USA
47	S. Suresh	OSHA Laboratory Safety Standards Training	21 February 2017 EHOS, New York,USA
		Department of Electronics & Communication Engineering		
48	Arvind Rajawat	IEP Workshop on Analog, Mixed-Signal and RF System Design	11-13 July 2016 IIT Bombay
49	Arvind Rajawat	SMDP-C2SD ZOPP Workshop	21-22 October 2016 IIT Bombay
50	J S Yadav	STTP on Applications of MATLAB & Simulink in Engineering and Science	1-5 May 2017 MANIT Bhopal
51	J S Yadav	STTP on Modelling and Implementation of Analog and Digital Systems using EDA tools	26-30 December 2016 MANIT Bhopal
52	Dr. Sangeeta Nakhate	K p u v t w e v q t u ø " G f w e c v k q p	4-8 July 2016 IISc, Bangalore
53	Dr Lalita Gupta	High Performance Computing óLatest Trends and Application	09-11 March 2017 NIT Calicut, Kerala
54	Dr Lalita Gupta	One day National workshop on Startups in Engineering: Recent Trends	27 August 2016 MANIT Bhopal
55	Dr. Bhavana P.Shrivastava	Self financing STTP Optical Communication and Technologies (OCT-2016)	16-18 March 2016 ECE,MANIT Bhopal
56	Dr. Bhavana P.	H c e w n { " " F g x g n q r o g p v " R	18-23 March 2016

		Shrivastava	Application of Signal And Systems ö	ECE,MANIT Bhopal
57	Dr. Bhavana P. Shrivastava		Self financing STTP on control system design using 4 2 " u k o " v q q n ø	4-6 July 2016 ECE,MANIT Bhopal
58	Dr. Bhavana P. Shrivastava		Electromagnetics:Advance and Applications	1 March 2016 ECE,MANIT Bhopal
59	Dheeraj Agrawal		Analytics for starters	17-18 November 2017 IIFT Delhi
60	Dr. Alpana Pandey		Modelling and Implementation of Analog and Digital System using EDA tools	26-30 December 2016 MANIT, Bhopal
Department of Computer Science & Engineering				
61	Dr. Meenu Chawla		Cyber Security Threats and Forensics	23-24 March 2017 MANIT, Bhopal
62	Dr.R.K.Pateriya		Applications of MATLAB & Simulink in Engineering and Science	01-05 May 2017
63	Dr. Manish Pandey		Domestic Data Entry Operator (As an Expert)	02-04 March 2017 PSS Central Institute of Vocational Education, Bhopal
64	Dr. Deepak Singh Tomar		Applications of MATLAB & Simulink in Engineering and Science	01-05 May 2017 MANIT, Bhopal
65	Dr. Jyoti Bharti		Basics of MATLAB	01-03 October 2016 IIT, Guwahati
66	Dr. Sri Khetwat Saritha		Advanced Business Analytics Using R	21-25 December 2016 IIT Hyderabad
67	Dr. Sri Khetwat Saritha		The Science of Living	09-13 January 2017 Academy of Human Excellence, Vadodara
68	Dr. Sri Khetwat Saritha		Cyber Security Threats and Forensics (WCSTF ó 2017	23-24 March 2017 Department of CSE, MANIT, Bhopal
69	Dr. Sri Khetwat Saritha		Workshop on Data Science and Machine Learning (DSML' 17)	28-31 March 2017 Center for soft computing Research: A National facility. ISI, Kolkata
70	Dr. Sweta Jain		Mathematical Techniques & Their Applications In Computer Domain	20-24 June 2016 MANIT BHOPAL
71	Dr. Sweta Jain		Science of Living	09-13 January 2017 Academy of Human Excellence, Baroda, organized by DST Govt. of India
72	Dr. Sweta Jain		Workshop on Cyber Forensics and Cyber Laws	23-24 March 2017 MANIT, Bhopal
73	Dr. Sweta Jain		Workshop on Data Science & Machine Learning	28-31 March 2017 Center for Soft Computing Research, Indian Statistical Institute, Kolkata

74	Namita Tiwari	Cyber Security Threats and Forensics (WCSTF -17)	23-24 March 2017 MANIT, Bhopal
Department of Architecture and Planning			
75	Dr. Supriya Vyas	Recent trends in Solar and Wind Energy	20-24 June 2016 Bhopal
76	Savita Subherwal Raje	12th ISOLA Annual Conference 2017: Changing Climates, evolving landscapes	20-21 January 2017 Goa
77	Savita Subherwal Raje	ISOLA education Board Meeting	19 January 2017 Goa
78	Savita Subherwal Raje	ISOLA Education Board workshop	25-26 August 2016 CEPT, Ahmedabad
79	Savita Subherwal Raje	Annual General Meeting of ISOLA	27 August 2016 CEPT, Ahmedabad
80	Savita Subherwal Raje	Design for Masses	08 February 2017 Bhopal
Department of Material Science & Metallurgical Engineering			
81	Dr C Sasikumar	Managing Technology Business Incubators	8-10 February 2017 New Delhi
Energy Centre			
82	Dr Meena Agrawal	IEEE International Conference On Electrical Power And Energy Systems	14-16 December 2016 MANIT, Bhopal
83	Dr Meena Agrawal	IEEE International Conference on Electrical, Computer and Communication Technologies;	22 -24 February 2017 SVS College of Engineering, Coimbatore, Tamil Nadu
84	Dr Meena Agrawal	One Day National Workshop on Start Ups In Engineering: Recent Trends TEQIP phase II	27 August 2016 Institute industry interaction cell, MANIT in collaboration with confederation of Indian industry, Bhopal
Department of Physics and Centre for Nanoscience & Engineering			
85	NA	International Conference on Technologically Advanced Materials & Asian Meeting on Ferroelectricity (ICTAM-AMF10)	07-11November 2016 DU, Delhi
Department of Mathematics & MCA			
86	Dr. R. S. Thakur	U g o k p c t " q p " ÷ O c v j g o c v k e Engineering ø "	22 December 2016 SATI, Vidisha
87	Dr. J. P. Jaiswal	Workshop on Big Data Analytics with Hadloop and Ecosystems	6-10 October 2016 MANIT Bhopal
88	Dr. Usha Chouhan	Big Data Analytics Using HADOOP and Ecosystems	6-10 October 2016 MANIT Bhopal

Total Workshops Attended
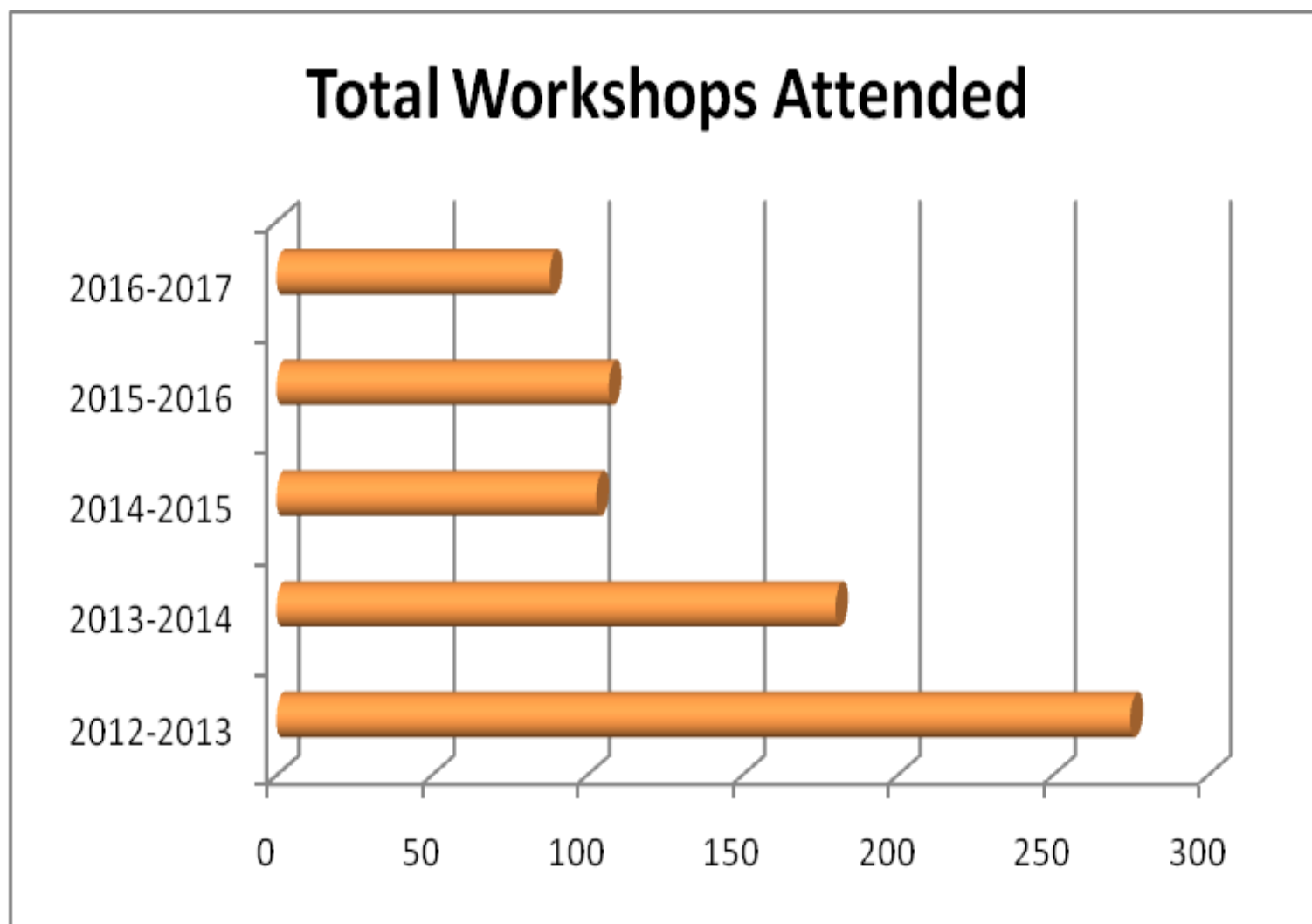
6.4 Research Projects:

Several staff members of the institute are engaged in research activities. Sponsoring agency is MANIT, Bhopal. Details of the research projects under investigation during the year 2016-17 are as follows:

Progress Report of Reasearch Project (Ongoing/In Progress)

S.No	Name of the Professor Incharge (s)	Name of Deptt.	Title of Project / Scheme	Spons-oring Agency	Project Cost/ Fund sanctioned	Duration of the project			Amount received and date	Closing Balance	Status of Project
						From (dd-mm-yyyy)	To (dd-mm-yyyy)	Total Duration in Years			
1	Bharat A	Architecture & Planning	Is an unbuilt area of land available for Development ?	ACCCRN / Mercy Corps , Indonesia	$ 2000	Feb. 2017	May 2017	4 months	ó ó	ó ó	Completed
2	Dr. K.K. Dhote	Architecture & Planning	(HSMI, New Delhi)	ó ó	<Rs 9.74 lakh)	ó ó	ó ó	ó ó	ó ó	ó ó	ó ó
3	Dr. Preeti Onkar	Arch. And Planning	Social Impact Assessment Framework for BSUP	HSMI, HUDCO	9.74 LACS	Dec. 2012	Till date	05Years	ó ó	ó ó	In Progress
4	Dr. Rahul Shrivastava	Biological science and engineering	Phytochemical evaluation & chemical characterization of GlycosmisPentathylla root	MPCOST	4.68 Lakh			02 Years	ó ó	ó ó	Completed

			extract in relation to various skin alignments									
5	Dr. Rahul Shrivastava	Biological science and engineering	Screening of Anti-venom potential of medicinal plants from Tribal region of Madhya Pradesh	CSIR	21.6 Lakh			03Years	_	_	Ongoing
6	Dr.Khushhali Menaria Pandey	Biological science and engineering	Highway Pathway for rapid Identification of New Promising molecular Entities using Molecular Geometries for Human Viruses	MANIT-MHRD	47 Lakhs			01Years	_	_	Completed
7	Dr. Khushhali Menaria	Biological science and engineering	Identification of Novel Protein Drug Targets and Biomarkers Utilizing Protein Interaction Network for Vitiligo	MPCST	3.44 Lakhs			2 Years	_	_	Completed
8	Dr. Khushhali Menaria	Biological science and engineering	Computational approach to prioritize drug like molecule for *chikengunya* virus by exploring genomic information	MPCBT	6.33 Lakhs			2 Years	_	_	Completed
9	Dr.	Chemical	Development of	DST	23,400/-	Accepted for Evaluation			_	_	Yet to

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	Sunder Lal and Dr. Sanjay Srivastava	Engineering	Chamofadge Paint			Jan. 2017					start
10	S. Suresh	Chemical Engineering	Photocatalysis process	MPCST	5.25	2012	2016	4 Years	--	---	Completed
11	S. Suresh CM Krishna	Chemical Engineering	Nanocomposites	MPCST	4	2014	2017	3 Years	4	---	Ongoing
12	S. Suresh C Sasikumar	Chemical Engineering	Selective Conversion of CO_2 to CO using photocatalysis	ONGC, Energy Centre	14.86	2016	2019	3 Years	14	---	Ongoing
13	S. Suresh Ajoy Debbarma	Chemical Engineering	Bio-char enriched super compost from forest necromass for enhanced soil carbon sequestration	MoES	----	2016	2020	4 Years	---	----	Ongoing
14	Nitin Dindorkar	Civil Engineering	A Study for the Tunneling for Broad Gauge Railway Track Between Aklera to Natagoan in the State of Rajasthan.	Dhorajia Projects LLP, Ahmedabad, & Satt Engineering Ltd. Canada	2 Lacs	May 2017	May 2018	1			Ongoing
15	Dr. Vishnu Prasad	Civil Engineering	Impact of Climate Change of Water Resources of Tapi Basin	Min. of WRD, Govt. of India	29.31	Approved in Nov. 2017	3.5 yars			Funds yet to be received	Dr. Vishnu Prasad
16	Dr. P.K. Jain	Civil	PMGSY Scheme	NRRDA NEW DELHI	AS PER GOVT. NORMS	2001	Till 2016		Not receive in financial year		Ongoing

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17	Dr. P.K. Jain	Civil	Application of Coir Geotextiles in Rural Roads-Performance Evaluation	COIR Board COCHI	25.0 Lakh	2011	2017			03 lakh	Ongoing
18	Dr. P.K. Jain	Civil	A Mineral Mapping in KajaliDongori Distt. Jhabua using Hyper-spectral Data Analysis & Field Verifications by ASD Spectro-radiometers	Ministry of earth sciences New Delhi	5.05 Lakh	2013	2016	4	5.05 Lakh	Nil	Completed
19	Dr. S. K. Katiyar	Civil Engg.	Performance Evaluation of Automatic Registration and Resampling Techniques for IRS Imagery	ISRO	Rs.12.82 Lakhs	June 2105	June 2017	02	Rs.12.82 Lakhs	-	Completed
20	Dr P.K Agarwal	Civil Engg	Performance evaluation of roads constructed using coir geo textile in the state of M.P	COIR Board, Kochi ,GOI	Rs.25,00,000/-	2012	continue	More than 5 years	Rs. 25,00,000/-	Rs.3,00,000	On going
21	Dr. M.S Chauhan	Civil Engg	Management of Filter Backwash water	Gondwana Engineers Limited Bhopal	1.20 lacs	--	---	---	1.20 lacs	---	On going
22	Dr. M.S Chauhan	Civil Engg	Grey Water Recycling	Lotus white Pvt. Lmt	1.50 Lacs	---	----	---	1.50 Lacs	---	On going
23	Dr. Jyoti Sarup	Civil Engineeri	Land application using	ISRO	Rs 11,73,000/-	2015	2017				Ongoing

			Scatterometer Data								
	Dr. Suneet Kaur	ng	Scatterometer Data								
24	Dr. Jyoti Sarup Dr. Suneet Kaur	Civil Engineering	Land application using Scatterometer Data	ISRO	Rs 11,73,000/-	2015	2017				Ongoing
25	Dr.Jyoti Sarup	Civil Engineering	Monitoring of Crop phenology Using Space, Agrometeorology and Land Based Application	Indian Space Research Organisation (ISRO), Space Application	16.15 Lakhs	May 2017					Ongoing
26	Dr. S. Rokade	Civil Engineering	Assessment of strength characteristics of bituminous concrete wearing surface modified with HDPE, PET, Crumb Rubber and Natural Rubber	Beacon Infra Lab India Pvt Limited	Rs. 72,000	December 2016	May 2017				Completed
27	Dr. S. Rokade	Civil Engineering	Development of Traffic Accident Prediction and Mitigation Strategies for Urban Areas	L. N. Malviya Infra Projects Group Pvt. Ltd. Bhopal	Rs. 1,20,000	June 2017	June 2018				Ongoing
28	Dr. S. Rokade	Civil Engineering	Development of Pedestrian Safety Strategies for Urban Roads in India	Gaheli Center of Research and Development Private	Rs. 1, 50,000	June 2017	June 2018				Ongoing

				Limited, Delhi							
29	Dr. S. Rokade		Assessment of strength characteristics of cement concrete pavement by usage of steel and polypropylene fibers in pavement quality concrete mixes	PNC Infratech Limited Agra (UP)	Rs. 1,80,000	July 2017	June 2018				Ongoing
30	Dr. Siddharath Rokade & Dr. Rakesh Kumar	Civil	Utilization of Polymeric Materials like High Density Polyethylene (HDPE), Poly Ethylene Terephthalate (PET), Crumb Rubber and Natural Rubber in the Flexible Pavement Construction	Beacon Infra lab India Pvt. Ltd. Bhopal (NABL & ISO9001: 2008 Certified Company)	0.60 Lakh	Oct. 2016	June, 2017	8	0.6 Lakh	Not Adjusted	Completed
31	Dr R K Pateriya and Dr Deepak Singh Tomar	CSE	Information Security Education and Awareness (ISEA) Project Phase-II	Ministry of Electronics and Information Technology (MeitY), Govt. of	36.06 Lakhs	July 2017	Till date		36.06 Lakhs		Ongoing

				India							
32	Dr S. Jain Dr. Sushma Gupta Dr. Tripta Thakur	Electrical engineering	Design, Implementation and Performance Evaluation of SEIG based Small Hydro Turbine in Micro Grid System No. SB/S3/EECE/18 2/2013, Dated Nov 20, 2013	DST (SERB)	28.87 Lacs	Nov 2013	Oct 2016	3 Years	_	_	Ongoing
33	Dr. Arvind Rajawat (CI) Dr. Ajay Somkuwar (Co-CI)	ECE	SMDP- C2SD	Meity, Govt of India	1545000/- (till now) to be added for subsequent years	2015	2019	5 Years	Total Rs. 1545000/-- Received by January 2015	Rs. 130000/- - as in July 2017	Ongoing
34	Anil Kumar as Co PI		Optimization of operating parameters for rubber sheet fast drying	National Research University Grant, Thailand	440,000Thai Baht	March 2016	Dec 2017	1.9 Years	-	-	-
35	Prashant Baredar As a Nodal officer	Energy Centre	Installation of 1MW rooftop Solar power plant	MHRD	2.5 crores	April 2017	March 2018	1 Year	-	-	Ongoing
36	Prashant Baredar	Energy Centre	Modifying Blade Profile of Savonius Wind Rotor to Reduce Turbulence	MNRE	MNRE Rs. 4,96,650/-	April 2017	March 2018	1 Year	Rs 248.325 22 feb 2017	-	Ongoing

37	Prashant Baredar	Energy Centre	Vortex Induced Vibration Wind Power Generation using Dual Mode of Electricity Generation viz. Piezo-electric and Electric Generator	MNRE	MNRE Rs. 8,72,850/-	April 2017	March 2018	1 Year	Rs 7,52,500 22 feb 2017	-	Ongoing
38	K. Sudhakar	Energy Centre	Visvesvaraya Ph.D Scheme	Meity	199 Lakhs	2015	2020	5 Years	50 Lakhs	-	Ongoing
39	K. Sudhakar	UMP-Pahang	Development for Renewable Biofuel from Seaweed from Automotive Industry Application.	Universiti Malaysia, Seed Money (RDU171 119).	5500 Malaysian Ringgit)	April 2017	March 2018	1 Year			Ongoing
40	K. Sudhakar	UMP-Pahang	Characterization and technology assessment of sustainable biofuel production from seaweed for automotive application	Universiti Malaysia, Internal Grant (RDU170 4988)	26,000 Malaysian Riggnit	April 2017	March 2018	1 Year			Ongoing
41	Dr. K. R. Pardasani	Mathematics, Computer Applications & Bioinformatics	Bioinformatics Infrastructure Facility under BTISNET of DBT New Delhi	DBT, New Delhi	Rs. 20/-lakh+ 07 Lakhs per year Rs. 11/-Lakhs in 2013	2006	2017	11 Years	11 Lakhs	2 Lakhs	Running
42	Dr. K. R. Pardasani	Mathematics,	National Database for	DBT, New	Phase-I - Rs. 11.80	2008	2016	8 Years	Nil	4 Lakhs	Completed

		Computer Applications & Bioinformatics	Tuberculosis	Delhi	Lakhs Phase-II ó Rs. 10.492 Lakhs						
43	Dr. K. R. Pardasani	Mathematics, Computer Applications & Bioinformatics	Granular Computing Models for Multidimensional sequential Pattern Mining	DST New Delhi	Rs 12.60 Lakhs	2014	2017	3 Years	9.6 Lakhs	Nil	Completed
44	Dr. K. R. Pardasani	Mathematics, Computer Applications & Bioinformatics	Computational Model to study thermal disturbances due to tumor in ɣ q o c p u ø	DST New Delhi	19.20 Lakhs	2016	2018	2 Years	9.6 Lakhs	Nil	Ongoing
45	Dr. J. P. Jaiswal	Mathematics	Semilocal Convergence Analysis of Iterative Methods in Banach Spaces and its generalized computational efficiency	SERB-DSR, New Delhi, India	INR 15,00,950/-	2016	2019	3 Years	INR 5,65,980/ In June 2016	-----	Ongoing
46	Dr. Usha Chouhan	Mathematics, Computer Applications & Bioinfor	Computational Approach to Study Complex Biological Network of Diseases using Molecular Data	MPCST Bhopal	3,98,000/-	2016	2018	2 Years	1,99,000/ August 2016	-----	Ongoing

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		matics									
47	Dr S Suresh & Dr C Sasikumar	Dept of Chem. Eng.	Selective Conversion Of CO_2 to CO using an Inexpensive Nanoporous Carbon Doped Plasma-Photocatalysis	ONGC Energy Centre Trust	14.86 L	July 2016	December 2017	1.5 Years	11.86 L	------	Ongoing
48	Dr. Rajnish Kurchania	Department of Physics and Centre for Nanoscience & Engineering , Nano Science and Engineering	Synthesis & Characterisation of Sr, Ba and Pb based Bismuth Titanate Ceramics	M P Council of Science and Technology	Rs. 6.36 lacs	----	----	2yrs			Annual report submitted and progress presentation delivered
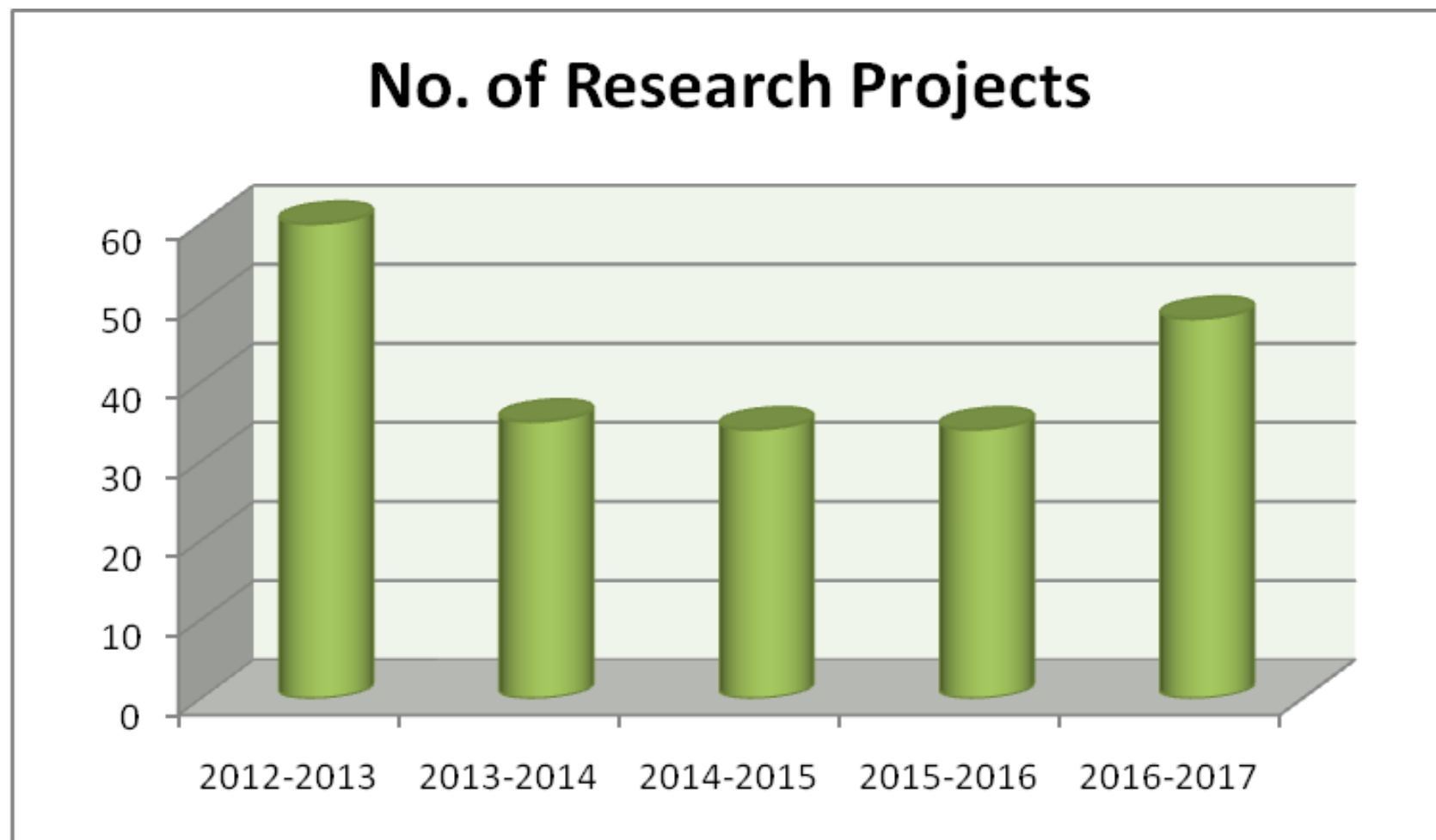
6.5 Research Publications 2016-17:

The details of the research publications of the faculty members of various departments in the year 2016-17:

International Journals

Department of Civil Engineering

3 0 " P g j c " P k i c o " c p f " C p k n " U j c t o c . " õ ULake With Respect TX ltsr k c v k q p " H
R j { v q r n c p m v q p " F k x g t u k v { ö . " K p v g t p c v k q p c n " L q w t p c n " q h " C
2016.

4 0 " U w o k v " " T c v j q t g " " c p f " C 0 M 0 " U j c t o c . " õ Wugu " Q h " Y c u v g " C
Engineering and Technology, Volume 03, July 2016.

5 0 " X k u j c n " I w r v c . " X k u j p w " R t c u c f " c p f " T w e j k " M j c t g . " õ G h h
F k u v c p e g " D g v y g g p " P q | | n g " G z k v " c p f " T w p p g t ö . " C , TNR. P " L q w t p
19, October 2016.

6 0 " " U 0 P 0 " U j w m n c . " X k u j p w " R t c u c f " c p f " T w e j k " M j c t g . " õ R g
U k o w n c v k q p " q h " F q w d n g " U w e v k q p " E g p v t k h w i c n " R w o r ö . " K p v g
7, Issue 6, Nov.-Dec. 2016.

5. Ruchi Khare, Vishnu Prasad and X k u j c n " I w r v c . " õ G h h g e v " q h " Q r g t c v k p i " T g
D w e m g v . " Y c v g t " (" G p g t i { ö " K p v g t p c v k q p c n . " X q n 0 " 7 ; . " K u u w

8 0 " Y c j k f w n n c j " J c m k o " U óBased Morphometric Analysis of Kunar River Basin Ih õ I K U "
C h i j c p k u v c p ö . " K p v g p c v k q p c n " L q w t p c n " q h " C f x c p e g f " T g u g

9 0 " F 0 M 0 " L c k p " c p f " O 0 U 0 " J q t c . " õ C p c nShear Wall-Nonlinear "SHk q w p f c v k q p
U { u v Internätional Journal of Earthquake and Structures, Korea, Vol. 10 (6), 2016.

: 0 " C r c t p c " R c p f j c t m c t . " O 0 F 0 " I q { c n " c p f " O 0 U 0 " J q t c . " õ C z k
Q x g t x Sadhayanaö Academy Proceedings in Engineering Science, 2016.

9. Yogesh Dewang, M.S. Hora a p f " U 0 M 0 " R c p v j k . " õ G h h g e v " Q h " R t q e g u u " R c t c
7 2 7 4 " U j g g v u " K p " U v Materials Today-Proc. 2016k p i " R t q e g u u ö . " "

3 2 0 " C r c t p c " R c p f j c t m c t . " O 0 F 0 " I q g n " c p f " O 0 U 0 " J q t c . " õ P w o
Behav k q t " Q h " V y k u v g f " V w d g u " W p f g t " K o r c e v " N q c f k p i ö . " K p g t
Implast, Procedia Engineering, 173 1365-1373, 2017.

3 3 0 " U w o k v " E j c m t c x q t v j { . " O 0 U 0 " J q t c " c p f " M 0 M 0 " R c v j c n . " " õ
Invgt o g f k c v g " U w r r q t v ö . " C T R P " L q w t p c n " q h " G p i k p g g t k p i " c p

3 4 0 " E j c p f t c y c p u j k . " U . " M w o c t " T 0 " c p f " R 0 " M 0 " L c k p . " õ G h h g
Of Stone Column: An Experimental Small Scale U v w f { ö . " K p v g t p c v k q p c n " L q w t p c n " q h
Technology (IJCIET), Vol. 8, Issue 6, June 2017.

3 5 0 " E j c p f t c y c p u j k . " U 0 . " M w o c t " T 0 . " c p f " L c k p " R 0 " M . " õ U g v v Column: An Experimental Small Scale Stud { ö . " K p v g t p c v k q p c n " L q w t p c n " q h " E k x k n (IJCIET), Vol. 8, Issue 5, May 2017.

3 6 0 " E j c p f t c y c p u j k . " U 0 . " M w o c t " T 0 . " T q m c f g " U 0 " c p f " L c k p " I t q w p f " T g k p h q t e g f " Y k v j Journal of Geotechnical Engineering (EJGE), Vol. 21, Bund. 25, December 2016.

3 7 0 " T c l r w v . " F 0 . " M w o c t " T 0 . " L «Settlement Behaviour of Soft Soil Reinforced f t c y c p y k v j " U c p f " R k n g u ö . " K p v g t p c and Technology (IRJET), Vol. 3, Issue 10, w t p c n " q h " October.2016.

3 8 0 " C i c t y c n . " C 0 . " O w n g { " R c f g g r . " c p f " L c k p . " R 0 M 0 . " õ C p " C T c v k q " q h " N k o g " U v c d k n k | g f " D n c e m " E q v v q p " (EJGE), Vol. 21, " G n g e v t q Bund. 20, September 2016.

3 9 0 " I w t l c t . " L 0 . " C i c t y c n . " R 0 M 0 " c p f " L c k p . " R 0 M 0 . " õ E q o r c U { u v g o ö . " K p v g t p c v k q p c n " L q w t p c n " q h " C f x c p e g march 2017. k p g g t

3 : 0 " L c k u y c n . " C 0 . " M w o c t . " T 0 . " L c k p . " R 0 M 0 " c p f " E j c p f t c y c U v q p e " E q n w o p u " k p " U q h v " E n c { u ö . " U { n c p " L q w t p c n . " X q n 0 3 8

3 ; 0 " I w t l c t . " L 0 . " C i c t formance Evaluation of Public Transport System From User Point" õ R g t Q h " X k g y ö . " K p v g t p c v k q p c n " L q w t p c n " q h " C f x c p e f " K p h q t o c v

4 2 0 " M " 0 O c n x k { c . " E j c t w " R c t c u j c t " . " U 0 dynamics Study for Methyl c w t . " õ X k q n g v " F { g " T g o q x c n " h t q o " C s w g q w u " U q n w v k q p " W u k p i " Y c v g t Chem Tech Research, Vol.10, Issue 4, August 2016.

4 3 0 " M " 0 O c n x k { c . " E j c t w " R c t c u j c -7 dye from aqueous solution Using M c w t . " õ 7 y c v g t " j { c e k p v j " c u " c " c f u q t d g p v " < " c f u q t r v k q p " G s w k n k d t k Engineering and Research Vol.10, Issue 9, September 2016.

4 4 0 " M " 0 O c n x k { c . " E j c t w " R lication of Teak Sawdust as an Adsorbent for Removal of c w t . " " Hazardous Acid Blue- 9 " f { g " h t q o " C s w g q w u " R j c u g ö . " K p v g t p c v k q p c n " L q Management(IJLTEM), Vol.1, issue 3, August 2016.

23. K .Malviya, Charu Parashar , S. Dixit (" U 0 " M c w t . " õ C f -7 dye from Aqueous solution on to D n w g V g c m " u c y f w u v " c p f " k v u " c p c n { u k u " d { " G s w k n k d t k w o " C f u q t r v Journal of Environmental Science Toxicology and Food Technology, Vol.10, Issue 9, September 2016.

4 6 0 " U 0 O c p k " c p f " E j c t w " R c t c u j c t . " õ E H F " C p c n { u k u " v q " h k p f on the Performance of a Cross- h n q y " V w t d k p g " h q t " O k e t q " J { f t q " R q y g t " R n c p Research in Science, Engineering and Technology, Vol., Issue 8, August 2016.

4 7 0 " U 0 " F y k g f k . " E j c t w " R c t c u j c t " c p f " V 0 U 0 " F g u j o w m j . " õ H n w wu k p i " C p u { u ö . " K p v g t p c v k q p c n " L q w t p Issue 8, c n " q h " August 2016 g g t k p i " U

4 8 0 " T c x k " U j c p m c t " " U j w m n c " c p f " E j c t w " R c t c u j c t . " õ F g u k i p EHFö . " K p v g t p c v k q p c n " L q w t p c n " q h " U e k g p v k h k e " G p i k p g g t k p

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529. Savita Dixit and Kiran Rohit, "Effect of Metakaolin on Wood Flour Polyester Composite" . " K p v g t p c v k q p Conference, IIM Ahmedabad (Gujarat), 28 December 2016.

530. Savita Dixit , "Synergistic Interaction Between Hydroalcoholic Extracts of Aerial Parts of Tridex Procumbens L. and Bryophyllum Pinnatum L. Leaves to Promote in Vitro Hypoglycemic Activity" 3rd International Conference on Multidisciplinary Research and Practice 2016, Ahmedabad, Gujarat, 24 December 2016.

531. Savita Dixit , "A Comparative Study of Antimicrobial Activity of Extracts of Bryophyllum Pinnatum Leaves in Different S q n x g International Conference on Advances in Engineering Research and Applications (ICAERA 2016), Oriental College of Technology, Bhopal, 15-16th December 2016.

532. Sandhya Pal and Savita Dixit , "Natural And Synthetic Polymer Blend Membranes For The Electrolysis Of Sodium Chloride Solution" International Conference on Advances in Engineering Research and Applications (ICAERA 2016), Oriental collage, Bhopal, 15-16 December 2016.

533. Savita Dixit and Kiran Rohit . Effect of Sisal Fiber Content On The Morphology Of Non Recyclable Waste Composite ö International Cqphgtgpeg " Trends In Technology And Science . " Rgqrnversityøu "W Bhopal, M.P., 2-4 March 2017.

534. VijeshVerma, Savita Dixit and Gajendra Dixit . Mechanism Of Oxidative Thermal Degradation Of The Mixture Of Hdpe, Ldpe And L w v g " H k d g t " C v " International Conference on Emerging Trends in" Technology and Science (ICET2S-2017), School of Research & Technology at Peorngøu "Wpkxgtukv . " 2-4 March 2017.

535. Savita Dixit and Smita Nair . Effect of Hydroalcoholic Extracts of Tridex Procumbens L. and Bryophyllum Pinnatum L. on the Growth Of Common Pathogens ö International Conference on Emerging Trends in Science and Technology, Rgqrngøu "Eqnngig "qh "U 2-4 March 2017cpf "Vgejpqnqi{ . Dj

536. Savita Dixit and Smita Nair . Comparative Analysis Of Antioxidant Potential Of Tridex Procumbens l and Study Of Its Hypoglycemic Properties ö International Conference on Technological Advancements in Environment Management, Career College, Bhopal, 1-2 March 2017.

537. Savita Dixit and Smita Nair . Comparative Analysis Of Antioxidant Potential of Bryophyllum Pinnatum Leaves and Study of its Hypoglycemic Properties ö International Conference on Make in India- An Opportunity for Sustainable Entrepreneurship Development, Career College, Bhopal, 16-17 February 2017.

538. Savita Dixit and Smita Nair . Comparative Analysis Of In Vitro Antioxidant Potential Of Crude Extracts Of Bryophyllum Pinnatum Leaves In Different Solvents And Their Hypoglycemic Potential ö 2nd International Conference Innopharm 2 on Innovations in Pharmaceutical, Medical and Biosciences, Innovare Academic Sciences at M.P. Council of Science and Technology, Bhopal, 11-12 February 2017.

Department of Management Studies

539. Bikrant Kesari and Sunil Atulkar . Role of Advertisement and Sales Promotion on Customer Purchasing Behaviour ö Second International Conference on Modern Researches in Management, Economics and Humanities, Atlantis the Palm (hotel), Dubai, UAE, ISSN 1735-5540, June 2016.

540. Dr Priyanka Verma and Somesh Kumar Sinha, Consumgtøu "TTowardsqNpnuMgnetary and Monetary Sales Promotion: A Review and Future Research Direction ö SCESM 2017, Belgaun, January 2017.

NATIONAL CONFERENCE:

Department of Civil Engineering

541. Nitin Dindorkar . Quality Management for Housing Projects ö All India Police Housing Conference Bhopal, 15-16 November, 2016.

542. U0M0Fwdg{ "cpf "Rtcmcuj "Ucpicopgmct . õGswcvkqp "vq "G Structural Engineering Convention, 21-23 December 2016.

543. Vishnu Prasad and T w e j k " M j c t Cgc.p"cõnG"hRhcgtecvm"gqvhg"t uNtaional Cohferenqe on " T q w k p Water Resources and Flood Management with Special Reference to Flood Modelling ö . " U XuPatK14-15 October 2016.

544. Vishnu Prasad and Wahidullah Hakim Safi . Reservoir Planning using GIS on Kunal River in Afganistan ö . " National Conference on Water Resources and Flood Management with Special Reference to Flood Modelling, SVNIT Surat, 14-15 October 2016.

545. S. K. Katiyar and Kumar Shivam, "Estimation Of Soil Moisture Using Risat-Crs Data In A Watershed In Yamuna Lower Subbasin". "National" Symposium on "Advances in Remote Sensing and GIS with Special Emphasis on Mountain Ecosystem and Annual Conventions of Indian Society of Remote Sensing and Indian Society of Geomatics, Dehradun India, 7-9 December 2016.

546. T.S. Desmukh and Mayank Nema, "Dam Break Analysis Of Rohini Dam Using MIKE" Third National Dam Safety Conference , IIT Roorkee, 18-19 February 2017.

547. M. K. Choudhary, A. Vishwakarma and T.R. Nayak, "Estimation Of Crop Water Requirement Using Cropwat: A Case Study of Bila Command" National Conference on Water Resources & Flood Management with Special Reference to Flood Modelling, SVNIT Surat,October 2016.

548. M. K. Choudhary, Sushant Kumar and T.R.Nayak, "Canal Lining on Madhya Ganga Canal, Bijnor, Uttar Pradesh, India" National Conference on Water Resources & Flood Management with Special Reference to Flood Modelling, SVNIT Surat, October 2016.

549. H. L. Tiwari and Arun Goel, Reduction of Scour depth Downstream of stilling basin using Baffle Wall, National Conference on Sustainable Water, Resources Development and Management, SWARDAM-2016, 4-5 July 2016.

Department of Chemical Engineering

550. Dr. S. Suresh and S. Singh . "Electricity generation via Microbial Fuel Cell and Synthesizing Polyaniline/Titanium Dioxide Nano Material for Electrodes" 1st International Conference on Sustainable Energy and Environmental Challenges (SEEC - 2017), Centre of Innovative and Applied Bioprocessing, Mohali, India, 26-28 February 2017.

551. Dr. S. Suresh and S. Singh, "Production of nano silica particles from rice husk ash for the electrode coatings to improve the efficiency of MFC" 3rd International Conference on Bioenergy, Environment and Sustainable Technologies, Arunai Engineering College, Tamil Nadu, India, 23-25 January 2017.

Department of Electronics and Communication Engineering

552. Dr. Lalita Gwr v "Array Signal Processing" Rashtriya Vigyan Sangoshthi ,BARC Mumbai & ABV Hindi Vishvavidyalaya Bhopal, 09-11 November 2016.

Department of Architecture

553. M c o c v " T 0 " c "Incorporation of Informal Sector Economy While Implementing Development Plan Near Border Areas of India & Bhutan" 65th National Town & Country Planners Congress, Integrating Implementation of Development Plans, Udaipur, Rajsthan, pp 206-218, 6-8 January 2017.

Department of Mathematics and MCA

554. R. S. Thakur, Ashok Sharma and S Jaloree . "Use Of Strong Service Level Agree Perspectives" Mathematical Methods in Science & Engineering, 22 December 2016.

555. R. S. Thakur and Ashok Sharma . "Predication On Encrypted Data In Cloud Using Neural Networks". "Mathematical Methods in Science & Engineering, 22 December 2016.

556. R. S. Thakur and K. Kanathey . " "Trender System: Designing Approaches,Iissues and Applications". "Mathematical Methods in Science & Engineering, 22 December 2016.

557. R. S. Thakur, S K Soni and A K Gupta . Clustering Of Hyperspectral Images Using K-means and Runge-Kutta Methods ö Mathematical Methods in Science & Engineering, 22 December 2016.

558. R. S. Thakur, V Mehare and A K Gupta . Hybrid Model Of Data Mining And Artificial Immune System For Anomaly Detection ö Mathematical Methods in Science & Engineering, 22 December 2016.

**Department of Physics and Centre for Nanoscience & Engineering**

559. Gagan Kant Tripathi, K. K. Saini and R. Kurchania . Structural, Optical And Photo Catalytic Properties Of Silver Doped Bismuth Oxychloride ö National Conference on Study of Matter Using Intense Radiation Sources and Under Extreme Conditions, 03-06 November 2016.

560. Shivangi Dubey and R. Kurchania, Effect Of Sintering Temperature On Electrical Properties of A2Bi4Ti5O18 (A= Ba, Pb and Sr) Synthesized By Solution Combustion Route ö 19th National Seminar on Ferroelectrics and Dielectrics (XIX NSFD-2016) MANIT, Bhopal, 19-21 December 2016.

561. M. M. Malik, R. Kurchania and Oroosa Subohi . Study The Effect of A-site and B-site Isovalent Doping In Bismuth Titanate Ceramics On Its Dielectric And Ferroelectric Properties ö 9th National Seminar on Ferroelectrics and Dielectrics (XIX NSFD-2016) MANIT, Bhopal, 19-21 December 2016.

562. Deepshikha Rathore, R. Kurchania and R. K. Pandey, õA Comparative Studies On Magnetic And Dielectric Properties Of Mfe2o4 (M = Co, Ni And Zn) Nanoparticles as Gas Sensor õ 19th National Seminar on Ferroelectrics and Dielectrics (XIX NSFD-2016) MANIT, Bhopal, 19-21 December 2016.

563. Gagan Kant Tripathi, K. K. Saini and R. Kurchania, Photo Catalytic Properties of Nickel Doped Bismuth Oxychloride ö IISF- [q w p i " U e k g p v k u v u ø " E q p e n c x g " * [U E +NPL", Kew f k c " H p v g Delhi, 07-11 December 2016.

564. Kumar Navin and R. Kurchania, Structural, Magnetic And Transport Properties of LSMO-BaTiO3 Nanocomposite ö 19th National Seminar on Ferroelectrics and Dielectrics (XIX NSFD-2016) MANIT, Bhopal, 19-21 December 2016.

565. Nitu Singh, Sachin Phuskele, Neha singh,Jyoti Bamne and Fozia Zia Haque, õ U v w f { " q p " N k 4 Q " F V2O5/TiO2 Nanocomposites Prepared Via Solid State React k q p " H q t " I c u " U g p 19th National C r r n e c Seminar on Ferroelectrics and Dielectrics (XIX NSFD-2016) MANIT, Bhopal, 19-21 December 2016.

566. Piyush Kumar Patel, Fozia Z. Haque and K. L. Yadav . Influence of Ba(Fe0.5Nb0.5)O3 Nanoceramic on MWCNT Reinforced PVDF Nanocomposite ö 19th National Seminar on Ferroelectrics and Dielectrics (XIX NSFD-2016) MANIT, Bhopal, 19-21 December 2016.

567. Shivangi Dubey and R. Kurchania, Effect of Sintering Temperature On Electrical Properties Of Five Layer Aurivillius Oxides Synthesized By Sol Gel Route ö 32nd MPYSC-2017, MPCST Bhopal, 10-11 March 2017.

568. Gagan Kant Tripathi and R. Kurchania, õ R j q v q e behavior of BiOX (X = Cl/Br, Cl/I and Br/I) Composites/Heterogeneous Nanostructures With Organic Dye ö 32nd MPYSC-2017, MPCST Bhopal, 10-11 March 2017.

569. M.R. Parra and Fozia Z. Haque . Facile Synthesis and Characterization of Pristine and In3+ Doped ZnO Nanoparticles for Dye-Sensitized Solar Cell Application ö 32nd MPYSC-2017, MPCST Bhopal, 10-11 March 2017.

Department of Chemistry

570. VijeshVerma, Savita Dixit and Gajendra Dixit, "Oxidative thermal degradation of the mixture of polyethlene waste and jute fiber into fuel: a green tech pqnqi{"hqt"enkocvg"eqqe ong Climate vkpö". "F change- Kvøu"korcev"qp"Citkewnvwtg."Dkqfkxgtukv{."Jgc vj of Science & Technology, Bhopal, India, 25-26 March 2017.

Department of Management Studies

571. Bikrant Kesari and Sunil Atulkar, "Creating Customer Values in Retail: A Way To Improve Retail Business Performance ö Usable, Deliverable and Updatable Research (UDUR) Models, IPER Bhopal, 19 June 2017.

572. Bikrant Kesari and Bhupendra Kumar Verma, "Transforming India into global Manufacturing Hub: Problems, perspectiv g u "cpf"tqng"q Usable, Deliverable and Updatable Research (UDUR) models IPER Bhopal, 19 June 2017.

5 Years comparative Analysis of Research Publications by the Faculty Members

No. of Research Publications
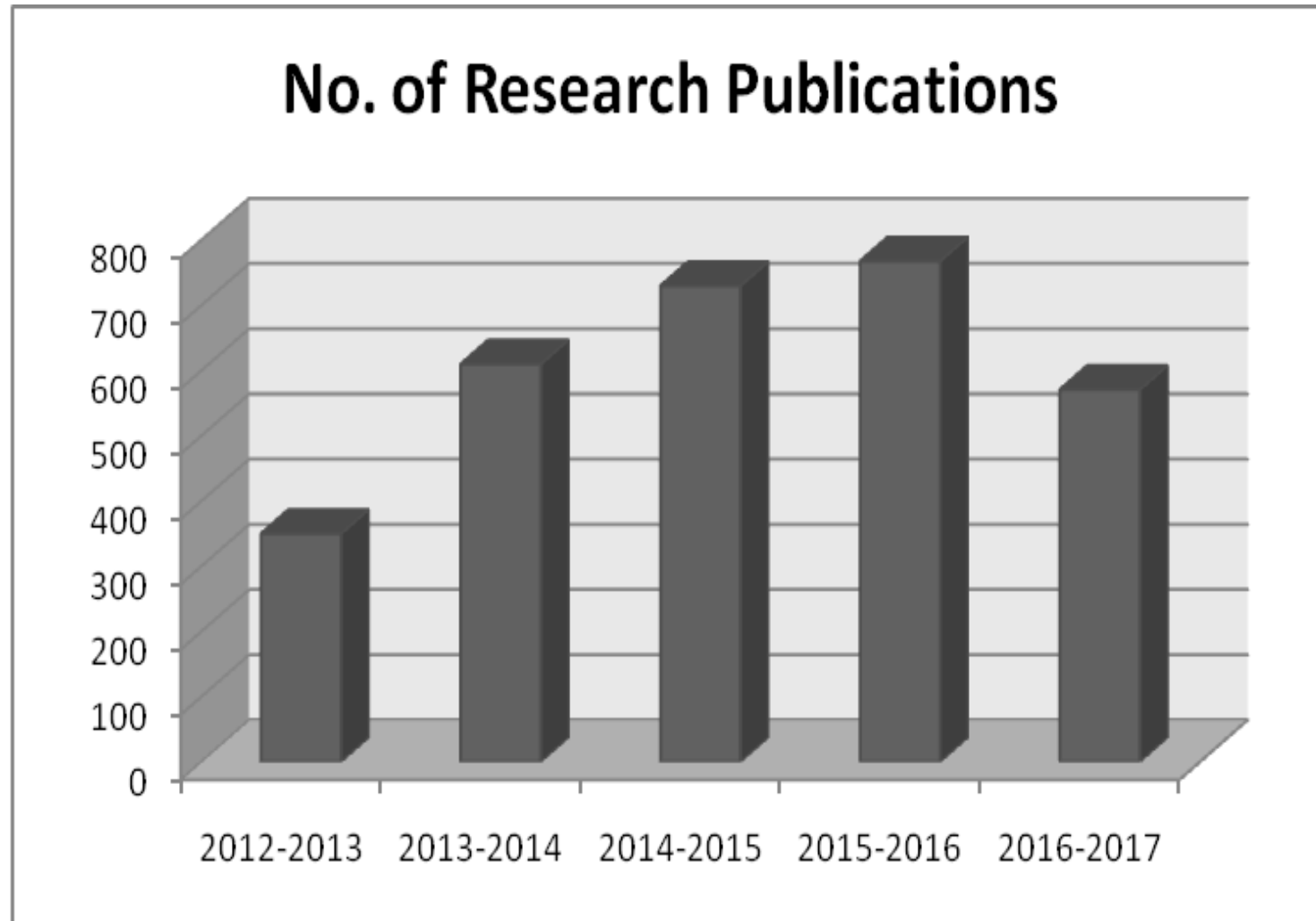
6.6 Books Published

S.No.	Title of the Book/Monograph	Name of Author(s)	Name of Publisher	Year
Department of Electrical Engineering			
1	Modeling and Simulation using MATLAB Simulink, for ECE 978-81-265-5-5949	Dr. Shailendra Jain Dr Sanjeevan Kapshe	Wiley India Pvt. Ltd.	2016
2	Power Electronics for Electric Propulsion Power Electronics Handbook	Dr. Shailendra Jain Lalit Kumar	Elsevier Inc.	In Press
3	Fundamentals of Electrical Engineering	Dr. Pankaj Swarnkar	Satya Prakashan, New Delhi	2016
Department of Civil Engineering			
4	Municipal Water Supply Services in Urban India: Sustainability Issues & Sector Performances	Dr. Mukul Kulshrestha	India Core Publications	In Press
Department of Chemical Engineering			
5	Proceeding on Recent Advances of Biotechnology & Human Health Care	Rahul Shrivastava Bharat Modhera	LAP Lambert Academic Publishing, Germany	2017
6	Biofuels and Bioenergy	Suresh S. Anil Kumar Ashish Shukla Renu Singh C.M. Krishna	Springer International	2017
Department of Energy Centre			
7	Manufacturing Process	Bhupendra Gupta, Mukesh Pandey, Anil Kumar,	Dhanpat Rai Publishing Company (P) Ltd., New Delhi-India	2017
8	Biofuels and Bioenergy (BICE2016) International Conference, Bhopal, India.	Edited by S. Suresh Anil Kumar Renu Singh Ashish Shukla C.M. Krishna	Springer Publication	2017
9	Solar Drying Technology: Design, Testing, Modeling, Economics, and the Environment	Om Prakash and Anil Kumar	Springer Publication	2017
10	An Overview of Floating Solar Power Plant	Dr.K.Sudhakar	Lambert Academic Publisher,Germany	2017

Department of Mathematics &MCA				
11	E q o r w v g t " I t c r j k (In Hindi Language)	Kavita Kanathe Dr. R. S. Thakur	Hindi Granth Academy, MP, Bhopal, 2016	Under process (Accepted)
12	Pattern Engineering System Development for Big Data Analytic , w p f g t " d q q Advances in k Data Mining and Database Management ö(ADMDM)	Dr. Vivek Tiwari Dr. R. S. Thakur	IGI Global USA, 2017	Accepted
13	Sentiment Analysis and Knowledge Discovery in Contemporary Business, under book series of õ C f x c p e g u " k p " D w Systems and Analytics (ABISA) õ	D. S. Rajput R. S. Thakur S. M. Basha	IGI Global USA, 2017	Accepted
Department of Electronics and Communication Engineering				
14	Wiley Acing the GATE óElectrical Engineering	Dr. J. S. Lather Dr Debashis Dr Lalita Gupta	Wiley	2016
15	Wiley Acing the GATE-Instrumentation Engineering	Dr. J. S. Lather Dr. Debashis Dr. Lalita Gupta	Wiley	2017
Department of Biological Sciences				
16	Proceeding on Recent Advances in Biotechnology and Human Health Care	Rahul Shrivastava Bharat Modhera	Wiley Publishers India	Jan 2016
Department of Management Studies				
17	Principles of Management	Dr. Varsha Rokade Dr. BabitaYadav	Sara Book Publication Ahmedabad	2017

6.7 CHAPTER CONTRIBUTION IN BOOKS:

S.No.	Title of the Book	Title of the Chapter	Author/s of the chapter	Name of Publisher	Year
Department of Chemical Engineering					
1		Optimization of Engineering and Process Parameters for Electro-Chemical Treatment of Textile Wastewater (299-307)	Sachin Koshti Abhinav Rai Arisutha S. Suresh S.	Springer	2017
2		Nanomaterials and food processing wastewater (479-514)	Rajani Bharti Chandrakant Thakur S. Suresh	Publisher: Academic Press, Elsevier	2017
3		A Review on	Suresh S	Springer	2017

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		Application of Integrated Solar and Bioenergy Based Technology	Anshika Rani Anilkumar	International	
4		A Review on Vermicomposting of Different Leaf Litters	R. B. Katiyar S. Suresh A.K. Sharma	Springer International	2017
5		A Review on Nano-catalyst from Waste for Production of Biofuel-Via-Bioenergy	Rajani Bharti S. Suresh	Springer International	2017
6		Review on Microbial Fuel Cell Energy Enhancement Using Nano Materials	Singh S S. Suresh	Springer International	2017
7		Nano Devices for Contaminant Detection (16th Chapter, pp 335-343)	Shivali Sahota Jaspreet Singh Pawan Kumar S. Suresh Khushhali Pandey	Academic Press, Elsevier	2017
8		Biofuels and Bioenergy (BICE-2016)	Shikha Gangil Virendra Singh Dhakar Yashwant Parihar Divya Bhagat Priyanka Bhawate Bharat Modhera	Springer Proceedings in Energy, Springer	2017
Department of Architecture and Planning					
9		Urban and Regional Planning Education Learning for India Book Chapter (Chapter 11) Page no.93-102	Dr. Preeti Onkar Dr. Krishna Kumar Dhote	Springer publication	2016
Department of Biological Science and Engineering					
10		Food Processing By-products and Their Utilization	M.K. Tripathi Rahul Shrivastava	Johns & Wiley & Sons Ltd.	2017
Department of Civil Engineering					
11	Mechanical Engineering Book Series (LNME)	Fluid Mechanics and Fluid Power-Contemporary Research (pp 765-773)	Dr. Vishnu Prasad	Springer	2016
Department of Computer Science and Engineering					
12		A Survey of Android Malware Detection:	Mohit Sharma Meenu Chawla	Springer, Singapore	2016

		Strategy And Techniques	J. Gajrani		
13		Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm Chapter- Challenges in Securing ESB Against Web Service Attacks	Rahman R. U. D. R. Sahu D. S. Tomar	IGI Global. Hershey PA, USA	2017
14		Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm Chapter- Privacy Preservation of Social Media Services: Graph Prospective of Social Media	N. K. Singh D. S. Tomar	IGI Global. Hershey PA, USA	2017
Energy Centre					
15	Geothermal, Wind and Solar Energy Applications in Agriculture and Aquaculture	Solar Drying	Om Prakash Anil Kumar	CRC Press (A. Balkema/ Taylor & Francis Group)	2017
16	Solar Drying Technology: concept design testing modeling economics and the environment	Advancement in Greenhouse Drying System (Chapter 5)	Anil Kumar Harsh Deep Om Prakash O. V. Ekechukwu	Springer Singapore	2017
17	Solar Drying Technology: concept design testing modeling economics and the environment	Energy Analysis of Solar Dryer (Chapter 8)	Anil Kumar Saurabh Ranjan Om Prakash Ashish Shukla	Springer Singapore	2017
18	Solar Drying Technology: concept design testing modeling economics and the environment	Applications of Soft Computing in Solar Drying Systems. (Chapter 14)	Om Prakash Saurabh Ranjan Anil Kumar P. P. Tripathy	Springer Singapore	2017
19	Solar Drying Technology: concept design testing modeling economics and the environment	Economic Analysis of Various Developed Solar Dryers. (Chapter 17)	Om Prakash Saurabh Ranjan Anil Kumar Ravi Gupta	Springer Singapore	2017

20	Solar Drying Technology: concept design testing modeling economics and the environment	Energy Analysis of the Direct/Indirect Solar Drying System	Om Prakash Anil Kumar Prashant Singh Chauhan and Daniel I	Springer Singapore	2017
21		Application of Nano Particle/Fluid in Performance Enhancement of Solar Still	Anil Kumar Tekasakul Perapong Prashant Singh Chauhan	Springer International Publishing AG	2017
22		Energy Security and Sustainability through Wind Energy. Energy Security and Sustainability (Chapter 10)	Om Prakash SaketPratap Anil Kumar	Amritanshu Shukla Atul Sharma Taylor & Francis Group	2016
23		Review on Performance Affected Parameters for Dye Sensitized Solar Cell (Chapter 4)	Geetam Richhariya Anil Kumar	Amritanshu Shukla Atul Sharma Taylor & Francis Group	2016
24		Carbon Sequestration Through Solar Bioreactors: Industrial Strategies. Carbon Utilization, pp143-155	K. Sudhakar Ruma Arora Soni	Springer Singapore	2017
Department of Mathematics and MCA					
25		Knowledge Based Forensic Patterns and Engineering System, Encyclopedia of Information Science and Technology, 4th edition,PP. 1376-1383	Vivek Tiwari R.S. Thakur	IGI Global, Montclair State University, USA	2017
Department of Physics and Centre for Nanoscience & Engineering					
26	The Effect of A-site and B-site Isovalent doping in Bismuth Titnate Ceramics on its Dielectric and Ferroelectric Properties ,	Advances in Materials Science Research Volume 29, pp 237-259	Oroosa Subohi M.M. Malik Rajnish Kurchania	Nova Science Publishers, Newyork, USA .	2017
27	Synthesis, Properties, and Advanced Applications, Effect of	Polymeric and Nanostructured Materials	Vaibhav Kautu M.M. Malik	Apple Academic Press, NJ, USA	2017

S.No.	Name	Title	Author	Publisher	Year
	Concentration and Temperature on ZnO Nanoparticles Prepared by Reflux Method				
28	Ferrite Nanoparticles	Advances in Materials Science Research Chapter 7 Volume 29, pp. 237- 259,	Dr. Rajnish Kurchania	Nova Science Publishers New York	2017
Department of Management Studies					
29		Managing Challenges for Higher Education	Dr Varsha Rokade Abdul Rashid	Horizon Books, Gwalior	2017

6.8 EXPERT LECTURES DELIVERED:

S.No.	Name of Faculty	Lecture delivered at(Name of the Organization)	Topic	Date
Department of Civil Engineering				
1	Dr. Nitin Dindorkar	SGSITS Indore	Soil testing for Highway and building projects.	
2	Dr. Nitin Dindorkar	M.P. Housing & Infrastructure development Board	Modern Methods of Construction	
3	Dr. Nitin Dindorkar	MANIT Bhopal	Geotechnical Provisions for Earthquake Resistant Design	
4	Dr. S. K. Dubey	WRE Department Technical officers at Academy of Administration Bhopal	Concrete Mix Design And Acceptance Criteria	
5	Dr. S. K. Dubey	M.P.Housing Board Deptt. Engineers at Academy of Administration	Engineering Materials and Testing	
6	Dr. S. K. Dubey	Short term training programme organized by Civil Engineering Department, MANIT	Characterization of Building Materials	
7	Dr. S. K. Dubey	Engineers of Urban local bodies of M.P. at DMI	Disaster Resistant Construction Techniques Including Building Codes	
8	Dr. S. K. Dubey	DMI, Bhopal	Earthquake Disaster Management	
9	Dr. S. K. Dubey	DMI, Bhopal	Earthquake Resistant Construction Techniques And Implementation Of National Building Codes	
10	Dr. S. K. Dubey	DMI, Bhopal	Building Codes For Various Types	

			Of Buildings	
11	Dr. S. K. Dubey	DMI, Bhopal	Earthquake Resistant Building Structure And Design.	
12	Dr. A.K.Sharma	Engineers of Urban local bodies of M.P	Storage Arrangement For Water Supply	
13	Dr. A.K.Sharma	Training program for JE at Nagar Palika.	Treatment Methods For Water Supply	
14	Dr. P.K. Jain	Civil Engineering. Department, MANIT Bhopal	Dynamic Properties Of Soil	16-20 January 2017
15	Dr. P.K. Jain	Civil Engineering Department, MANIT Bhopal	Deep Foundation	16-20 January 2017
16	Dr. S.K. Katiyar	LNCT Bhopal	Modern Surveying Techniques	
17	Dr. S.K. Katiyar	Patel Group of Institutions Bhopal	Remote Sensing & GIS Techniques in Surveying	
18	Dr. S.K. Katiyar	Bansal Institute of Research & Technology Bhopal	Advance Surveying & Remote Sensing	
19	Dr. S.K. Katiyar	Civil Engineering Department, MANIT Bhopal	Infrastructure Development Using Modern Surveying Techniques: Remote Sensing, GPS & GIS	16-20 January 2017
20	Dr. S.K. Katiyar	Architecture Deptt. at MITS Gwalior	Role of Geoinformatics Techniques in the Urban Infrastructure Development	15-25 March 2017
21	Dr. S.K. Katiyar	SATI Vidisha	Recent Trends in Surveying: Remote Sensing., GIS & GPS	
22	Dr. S.K. Katiyar	Induction Training program of newly recruited Engineers of MP WRD Deptt. at Academy of Administration Bhopal	New Survey Techniques, Total Station & DGPS field survey	
23	Dr. S.K. Katiyar	Civil Engineering Department MANIT Bhopal	Total Station & DGPS Survey Techniques	22-26 May 2017
24	Dr. T.S. Deshmukh	SIRT Bhopal	Unit Hydrograph Analysis	
25	Dr. T.S. Deshmukh	BODHI Bhopal	Pipe Selection for Piped Irrigation Schemes to Members Of Expert Commiittee On Pipe Selection For Lift Irrigation Schemes	
26	Dr. T.S. Deshmukh	Assistant Engineers of RES at WALMI Bhopal	Water Harvesting Tanks(Percolation And Nistari Talab): Site Selection, Appropriate Survey Methodology, Various Design Considerations, Important Issues And Precautions During Construction	
27	Dr. P.K. Agarwal	Civil Engineering Department MANIT Bhopal	Design of flexible Pavements	16-20 January 2017

28	Prof. Harsangeet Kaur	IES Group of Institutes	Solid Waste Management	
29	Dr. M.K. Choudhary	WALMI Bhopal	Advances in Surveying Technology.	
30	Dr. M.K. Choudhary	NIGUM Bhopal	Topographical Surveys & Types with modern technology	
31	Dr. M.K. Choudhary	NIGUM Bhopal	Hydrological Investigations & climate change	
32	Dr. Jyoti Sarup	Academy of Administration Bhopal	Remote Sensing & GIS applications in Geology	
33	Dr. Jyoti Sarup	Academy of Administration Bhopal	Remote Sensing & GIS applications in water resources	
34	Dr. Jyoti Sarup	DMI , Bhopal	Application of microwave remote sensing in Disaster Management	
35	Dr. Jyoti Sarup	DMI , Bhopal	Remote Sensing & GIS applications in Structures.	
36	Dr. Siddharth Rokade	MANIT, Bhopal	Rigid Pavement Design, Construction Procedure and Maintenance	
37	Dr. Siddharth Rokade	Police Headquarters Bhopal	Traffic Engineering and Management	
38	Dr. Siddharth Rokade	National Institute of Governance and Urban Management, Bhopal	Traffic and Transportation Surveys	
39	Dr. Siddharth Rokade	SGSITS Indore	Soil And Highway Material Testing	
40	Dr. Siddharth Rokade	Central Academy of Police Training, Bhopal	Global Road Safety And Road Safety Scenario In India	
41	Dr. Siddharth Rokade	Central Academy of Police Training, Bhopal	Introduction to Road Safety Audit	
42	Dr. Siddharth Rokade	National Institute of Governance and Urban Management, Bhopal	Transportation Surveys	
43	Dr. Siddharth Rokade	MANIT Bhopal	Highway Material Testing And Flexible Pavement Evaluation	
44	Dr. Siddharth Rokade	MANIT Bhopal	Flexible Pavement Design And Maintenance	
45	Dr. Siddharth Rokade	National Institute of Governance and Urban Management, Bhopal	Transportation Surveys	
46	Dr. Siddharth Rokade	Central Academy of Police Training, Bhopal	Special Efforts For Road Safety And Accident Prevention	
47	Dr. Siddharth Rokade	Central Academy of Police Training, Bhopal	Introduction To Road Safety Audit	
48	Dr. Siddharth Rokade	National Institute of Governance and Urban Management, Bhopal	Transportation Surveys	
49	Dr. Siddharth Rokade	Central Academy of Police Training, Bhopal	Traffic Management And Road Safety For Intersection	
50	Dr. Kishan Dharavath	UADD, Bhopal	Geptechnical Investigation Techniques (Soil Sampling)	

51	Dr. Kishan Dharavath	MANIT Bhopal	Geophysical Investigation Of Soil	
52	Dr. Kishan Dharavath	NITTTR, Bhopal	Soil Exploration Techniques	
53	Dr. Kishan Dharavath	Patel Engineering Collge, Bhopal	Role Of Geosynthesis In Civil Engineering Applications	
54	Dr. Rakesh Kumar	Civil Engineering Department MANIT Bhopal	Proportioning Of Footing On Chohesionless And Cohesive Soil ó Design Practices	16-20 January 2017
55	Dr. Rakesh Kumar	Civil Engineering Department MANIT Bhopal	Shallow Foundation-I	16-20 January 2017
56	Dr. Priyanka Dhurvey	PHED, Bhopal	Advanced Survey & Estimates.	
57	Dr. Vivek Garg	Human Resource Development Centre, BHEL, Bhopal	Analysis of Building Frame-Strap Footing- Nonlinear Soil System	
58	Dr. Vivek Garg	Human Resource Development Centre, BHEL, Bhopal	Indian Codal Provisions for Earthquake Resistant Design of Buildings	
59	Dr. Neeraj Tiwari	S.V. Polytechnic , Bhopal	Earthquake Resistant Building	
60	Dr. Neeraj Tiwari	Acropolis Institute, Bhopal	Vibration Analysis of Structures.	
Department of Mechanical Engineering				
61	Dr. Rajesh Gupta	B.H.E.L., Bhopal	ANSYS Fluent	
62	Dr. Rajesh Purohit	SIRT, Bhopal	Nanotechnology and their Impact on Society	
63	Dr. Rajesh Purohit	BHEL, Bhopal	Nanotechnology and Nanomaterials and their Impact on Society	
64	Dr. Rajesh Purohit	GRIET, Hyderabad	Nanotechnology and Nanomaterials	
65	Dr. Rajesh Purohit	GRIET, Hyderabad	Hydroforming and High Energy Rate Forming	
66	Dr. Vilas Warudkar	BHEL, Bhopal	Wind Energy	
67	Dr. Vilas Warudkar	BHEL, Bhopal	Operation and Safety of Nuclear Power Plants	
Department of Architecture and Planning				
68	Savita Subherwal Raje	RCVPN Academy of Administration, Bhopal For different batches of State Civil Services, Indian Administrative Services, Indian Police Services, Indian Revenue Services trainee officers	Built heritage of Bhopal	1 July 2016 to 30 June 2017 (6 lectures)

69	Savita Subherwal Raje	The Indian Institute of Interior Designers	Design for the Masses	
70	Dr. Vinay Mohan Das	Department of Civil Engineering, SRK University, Bhopal	Drawing Development and Its Implementations: Case Example: Hostels at MANIT, Bhopal	29 May 2017
71	Dr. Rajshree Kamat	Disaster Management Program for Engineers organized by Disaster Management Institute DMI, Bhopal	Architectural Aspects of Disaster Management on	4 May 2017
72	Dr. Seemi Ahmed	Organized by IITDM Jabalpur and Department of Mechanical Engineering, MANIT	Expert Lecture on Design Pedagogy	3-5 January 2017
Department of Biological Sciences				
73	NA	Department of Physics and Centre for Nanoscience & Engineering , University of Pune (Maharstra)	Green Synthesis of Bi-Metallic Nanoparticles Using Leave Extract Of Common Arrowhead Houseplant And Its Anticandidal And Antibiofilm Activity.	
74	NA	MPCST, Bhopal	Research Hypothesis & communication	
Department of Computer Science and Engineering				
75	NA	MANIT, Bhopal	Image Forensics	
76	NA	IIITDM, Jabalpur	Parallel Algorithms	
77	NA	Central Institute of Agricultural Engineering, ICAR Winter School	Internet of Things	
78	NA	MITS, Gwalior	Forensic Tools	
79	NA	National Institute of Electronics and Information Technology, Aurangabad	Web Application Vulnerabilities	
80	NA	NIST, New Delhi	Operating System Forensics	
81	NA	News 29 Channel	Ransomware	
82	NA	NIST, New Delhi	Browser Forensics	
83	NA	MANIT, Bhopal	DTN & One Simulator	
Department of Electrical Engineering				
84	Dr. R.K.Nema	3 EME Centre, Bhopal	PV Technologies: Future of Power Generation	
85	Dr. R.K.Nema	ABES Engineering College Ghaziabad	DC-DC Converter and its applications	
86	Dr. R.K.Nema	ABES Engineering College Ghaziabad	Introduction to Solar PV and its Controller	
87	Dr. R.K.Nema	NIT Raipur	PV Technologies: An Introduction	
88	Dr. R.K.Nema	NIT Raipur	Solar PV Converters	

89	Dr. Savita Nema	Academy of Administration, Bhopal	Concepts of Electrical Engineering	
90	Dr. N.P.Patidar	NITTTR Ext. Centre Ahmedabad	Recent Trends In Power System Management	
91	Dr. N.P.Patidar	BHEL Bhopal	Smart Grids and GIS Technology	
92	Dr. Suresh K. Gawre	MANIT, Bhopal (RTSWE-2016)	Fundamentals of Solar PV system	
93	Dr. Suresh K. Gawre	MANIT, Bhopal (RTSWE-2016)	Solar PV Advance Applications	
Department of Electronics and Communication Engineering				
94	NA	NITTR, Bhopal	Role of Microprocessor and Microcontroller in Automation	
95	NA	MANIT Bhopal	SS7 Signaling Technique	20 March 2016
96	NA	NITTR, Bhopal	Characteristic of CMOS circuit Low Power VLSI Design Application of VLSI Technology	
97	NA	NITTR, Bhopal	Semiconductor Device and Layout New Trends in VLSI Challenges in IC Design EDA Tools	
98	NA	NITTR, Bhopal	Introduction of VLSI Technology Implementation of VLSI through VHDL Concept of VHDL	
99	NA	NITTR, Bhopal, India	Application of Image Processing in Robotics	
100	NA	NITTR, Bhopal, India	Optical Devices	
101	NA	NITTR, Bhopal, India	Cognitive Radio	
102	NA	NITTR, Bhopal, India	Software Defined Radio	
Energy Centre				
103	Dr. Prashant Baredar	Sagar Institute of Research & Technology, Bhopal	Impact of pre-treatment and adapters in biomass generation	
104	Dr. Prashant Baredar	Thakur Shiv kumar Singh Memorial Engineering College, Burhanpur	Opportunity and challenges of biomass production	
105	Dr. Prashant Baredar	Indore Institute of Science and Technology	Green Techno-economical Approaches in Development of Smart City: Role of Science & Technology	
106	Dr. Anil Kumar	M L G Trinity College of Engineering and Research, Pune	Advancement in Solar drying system	
107	Dr. Meena Agrawal	Energy Centre, MANIT, Bhopal	Achieving Sustainable Energy Through Renewable Resources Micro Grids	
108	Dr. Meena	Sanchi Buddhist	CHAKRA ENERGY	

	Agrawal	University, at Academy of Administration, Shahpura, Bhopal		
109	Dr. Meena Agrawal	Sanchi Buddhist University, Sanchi	REIKI Alternative Healing Therapy	
Department of Material Science and Management Engineering				
110	Dr C Sasikumar	BHEL, Bhopal	Interpretation of Microstructures and its significance in Quality Improvement	5 November 2016
Department of Mathematics & MCA				
111	By Dr. K. R. Pardasani	Department of Biotechnology, Barkatullah University Bhopal	Facets of Bioinformatics to Life Sciences	
112	By Dr. K. R. Pardasani	IIITM Gwalior	Theory and Applications of Mathematical and Computational Modeling	
113	By Dr. K. R. Pardasani	Department of Mathematics, MANIT, Bhopal	Bioinformatics	
114	By Dr. K. R. Pardasani	Department of Mathematics, Motilal Nehru National Institute of Technology Allahabad Allahabad	Mathematical Sciences in Engineering and Technology	
115	By Dr. K. R. Pardasani	Department of Biotechnology, Barkatullah University Bhopal	Molecular Characterization of Microorganisms	
116	Dr. K. R. Pardasani	IPS Academy Indore	Mathematical Modelling and its Applications	
117	Dr. K. R. Pardasani	SATI, Vidisha	National Seminar on Mathematical Methods in Science and Engineering	
118	Dr. K. R. Pardasani	By Dr. K. R. Pardasani at AIIMS, Bhopal	Current Trends and Challenges in Computational Biology	
119	Dr. K. R. Pardasani	By Dr. K. R. Pardasani at SGSITS Indore	Modelling Uncertainty	
120	Dr. K. R. Pardasani	Department of Applied Mathematics & Humanities, SVNIT, Surat	Recent Advances in Computational Fluid Dynamics	
121	Dr. K. R. Pardasani	Institute of Life Sciences, Bhubneshwar	Riboswitch based drug design	
122	Dr. K. R. Pardasani	SIRTS, Bhopal	Current Trends and Challenges in Cheminformatics	
123	Dr. K. R. Pardasani	TIT Bhopal	Modelling and Simulation in Data Science	

124	Dr. K. R. Pardasani	MANIT, Bhopal	Bioinformatics	
125	Dr. R.S. Thakur	Department of Computer Applications, Anna University, BIT Campus, Trichy, TN.	Big Data Analytics	
126	Dr. R.S. Thakur	Sagar Institute of Research and Technology Bhopal.	Data Analytics and Clustering	1-10 August 2016
127	Dr. R.S. Thakur	Laxmipati Institute of Science & Technology Bhopal.	Big Data Analytics	1-10 August 2016
128	Dr. R.S. Thakur	Sathyabama University Chennai, T.N.	Big Data Analytics	
129	Dr. R.S. Thakur	Department of Mathematics and Computer Applications MANIT, Bhopal.	Big Data Analytics in Bioinformatics	01 617 October 2016
130	Dr. R.S. Thakur	Department of Computer Science Engineering & MCA, ITM Vadodara.	Machine Learning and Its Applications	27-29 Januray 2017
131	Dr. R.S. Thakur	Department of Computer Science, Govt. Degree College for Boys, Kathua (J & K).	Current Trends in IT	03 August 2016
132	Dr. R.S. Thakur	Department of Computer Science, College of Excellence, Bhopal MP.	Machine Learning and Its Applications	03 August 2016
133	Dr. R. S. Thakur	Department of Computer Science & Engineering, Sri Krishna College of Technology, Coimbatore, TN.	Machine Learning and Its Applications	
134	Dr. R. S. Thakur	Department of CSE, Oriental Institute of Science and Technology, Bhopal.	Machine Learning	
135	Dr. Usha Chouhan	Bioinformatics center, Barkatullah University, Bhopal	Clustering Analysis	
136	Dr. Usha Chouhan	MANIT, Bhopal	Computational Phylogenetics	
137	Dr. J. P. Jaiswal	Regional Institute of Education, Bhopal, M. P. India.	Teaching of Mathematical Concept through Pedagogy: Probability Theory	
138	Dr. J. P. Jaiswal	Indian Institute of Technology Roorkee, India.	Semilocal Convergence Of A Computationally Efficient Iterative Method In Banach Spaces Under Weak Condition	

6.10 AWARDS/HONOURS CONFERRED:

Name of Faculty Members	Name of Award	Awarded for	Awarding Agency	Year
Department of Chemical Engineering				
Dr. S. Suresh	Best Poster Award	NA	Indian Science Congress, DST	2016
Department of Computer Science Engineering				
Dr. Jaytrilok Chaudary	Best faculty award	-------------------------	CII- SISTec	2016
PhD Scholar Priyank Jain	Top Challenger award	-----------------------	Department of Higher and Technical Education, Govt. of Rajasthan in Big Data challenge	2017
Department of Electrical Engineering				
Dr. S. Jain	2016 IEEE Outstanding Branch Counselor Award	-----------------------	IEEE MANIT Student Branch	2016
Energy Centre				
Dr Meena Agrawal	Shubh Sankalpak Rashtriya Gaurav Samman	-----------------------	Aao Sankalp Lein, Public Trust, New Delhi	2017
NA	Research Excellence Award 2016	-----------------------	Prince of Songkla University, Hat Yai, Thailand.	2016
Dr.K.Sudhakar	Young South Asian Researcher Award	-----------------------	TERI University in association with SSDN ,UNEP and the EU through the SWITCH-Asia Programme	2016
Department of Mathematics and MCA				
Dr. J. P. Jaiswal	SERB Young Scientist awarded	-----------------------	-------------------	------------

6.11 FOREIGN VISITS:

Name of Faculty Members	Country visited	Purpose	From	To
Department of Architecture and Planning				
Prof. Alka Bharat	Australia	Invited Speaker In Conference	01May 2017	15May2017
Department of Chemical Engineering				
Dr. S. Suresh	USA	Post-doctoral Research	February2017	Till Date
Department of Electrical Engineering				
NA	Prague, Czeh Republic and Vienna, Austria	To Present Paper In International Conference	23 June2017	30 June2017
Energy Centre				
Dr. Anil Kumar	Thailand	Post Doctoral Fellowship	June 2015	May 2017
Dr. K. Sudhakar	Malaysia	On special leave	March 2017	March 2019
Department of Chemistry				
Dr. Savita Dixit	USA	International Presentation (WASET)	25May2016	26 May2016
Department of Civil Engineering				
Dr. T.S. Desmukh	Japan	Educational visit to understand Dam Safety and Management Measures	03October 2017	07-October 2017
Dr. P.K. Agarwal	China	To Attend World Conference on Transportation	09 June 2016	16 June 2016
Dr. Mukul Kulshreshtha	Czech Republic	To attend the 15th International Conference on Data Envelopment Analysis (DEA-2017) held at University of Economics, Prague	23 June 2017	30 June 2017

7.0 CENTRAL FACILITIES & SERVICES

7.1 CENTRAL LIBRARY

1. More than 1,00,000 books are available in the central library.
2. The library is open from 8:00 a.m. to 8:00 p.m. on all institute working days.
3. Book Bank Facility is also available for General & SC/ST students.
4. Number of books available in General Book Bank is more than 5,500.
5. Number of books in SC/ST Book Bank is more than 14,000.
6. More than 2,000 learning material CDs are also available.
7. The institute is a member of E-Shodhsindhu consortium. By virtue of this membership, it has access to some important online resources, including: ACM, ASCE, ASME, J-Gate, Nature, OUP, JSTOR, EPW, ASTM, ISID etc. The institute has also subscribed to ScienceDirect, IEEE (IEL), INFORMS Journals, and has membership of about 12 e-Books packages also.
8. Digital library facility is also available.
9. The institute has Central Library Advisory Committee that includes Chairman, three Members [a former Chairman (LAC), I/c Librarian and Assistant Registrar (Purchase)], and all departmental library coordinators as associate members.
10. The Central library is divided into seven distinct divisions, namely: Acquisition, Binding, Circulation, Computer Center & Data Entry, Documents & Records Keeping, and Overdue Charges. Each division is headed by a senior library professional / employee with years of experience behind him. All Divisional In-charges report to I/c Librarian and work under his supervision.
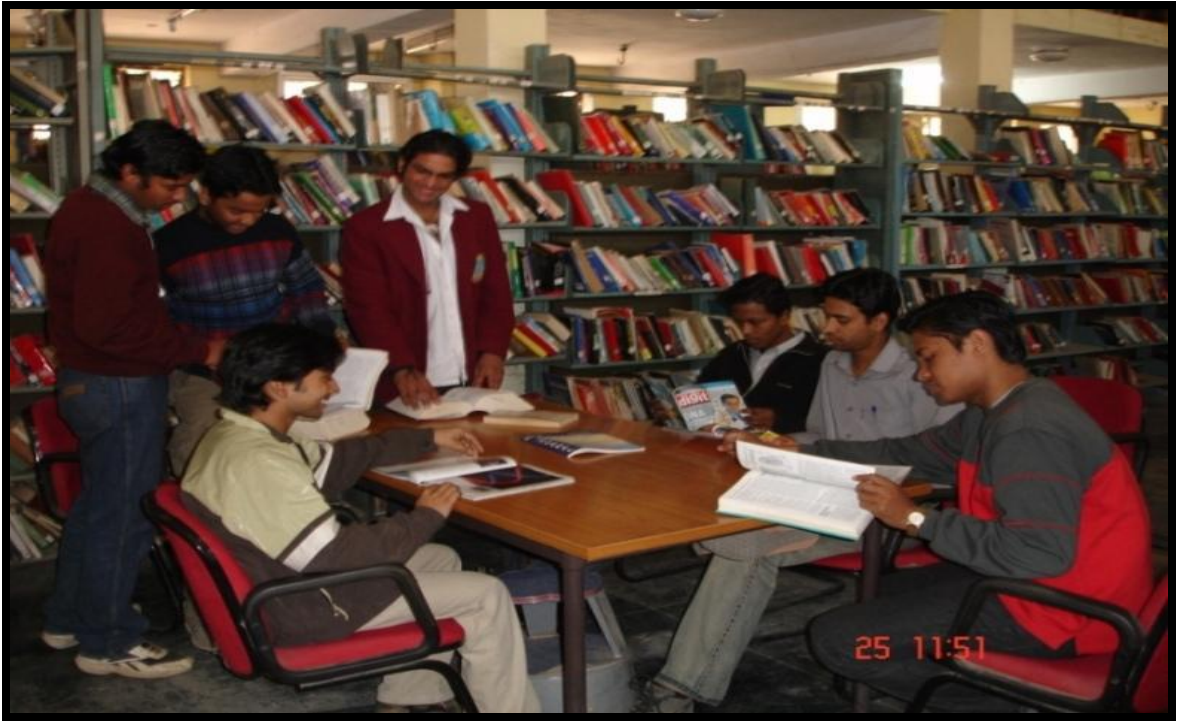
7.2 HOSTEL

Following are the details of all hostel rooms and students ' strength in hostels :

S.No	Hostel No.	No. of Alloted Room	No. of Student	
			Boys	**Girls**
1	H-1	73	288	-
2	H-2	73	283	-
3	H-3	144	305	-
4	H-4	144	307	-
5	H-5	264	348	-
6	H-6	264	369	-
7	H-7 (Girls Hostel)	340+Staff Qtrs	0	902
8	H-8 (A &B -Block)	256+(4-Halls)	598	-
9	H-9 N.R.I. Hostel	112	112	-
10	H-10	128	350	
11	FGH (Temporary Arrangement)	26	94	-
12	Energy Centre (Temporary Arrangement)	16 Hall	100	-
13	New Teaching Block (Temporary Arrangement)	4 Hall	48	
Total	**10 Hostels & 3 Temporary arrangements**	**1848**	**3202**	**902**

7.3 Rolta Innovation & Incubation Centre

1.   Incubation Centre From Concept to Reality

The objectives of making an Incubation Centre at MANIT were presented before the alumni,
Mr. Kamal K. Singh, Chairman & Managing Director, Rolta India during 2009. The concept of
Incubation Centre was appreciated and Mr. K. K. Singh readily agreed to fund the proposal. The
MANIT- ROLTA Incubation Centre was inaugurated on 4th September 2014 by Mr. K. K. Singh.
Further, Mr.Singh hinted upon additional funding and support if the centre functions in line with the
objectives and goals for the sole purpose of facilitating students to innovate and excel.

2.   The Activities In MRIC

2.1   Activities at a glance during 2014-2016
   1. Funded 14 Student Projects.
   2. Arranged 10 Expert Lectures.
   3. Organised 1 International Conference.
   4. Organised 7 Short Term Training Programmes.
   5. Organised 5 Workshops.
   6. Participated in 1 Competition

2.2   Activities Proposed & Being Undertaken Between November 2016 to May 2017

Proposed activities and plan between November 2016 to May 2017 are as follows :

‹   To activate Start up India program.
‹   To activate students to develop marketable products c p f " d g e q o g " c p " g p v t g r t g p g   t "
    ENTREPRE P G W T U ö " R t q i t c o < "
‹   To start and identify Multi-Phased and Open Ended projects.

2.2.1   To Activate Start Up India Program.

In response to the Government of India Start up India program MANIT Rolta Incubation Centre,
Bhopal has been listed in Start up India action plan document (pdf) dated 16th January 2016 as one
of the authorities to issue letter of recommendation to the start up applicants. MRIC registration
under the society act is underway. The role as an incubator to the start-ups was initiated during the
first week of the November 2016 and the applications were called from the start ups. To evaluate
 v j g " r t q r q u c n " q h " c r r n k e c p v u " v y q " e q o o k v v g g u " c t g " l
 C q o o k v v g g ö " c p f " " õ V g e j p k e c n " T g e q o o g p f c v k q p " E q o o k

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Director- MANIT. Till date we received six applications which have been scrutinised and evaluated by the TRC. Four start ups have been issued Letter of Recommendation (LOR) to start their work under the scheme while two applications have been rejected at scrutiny level. The details of their status are given in the table below:

TABLE: Details & Status of Startup Initiative at MANIT, Bhopal

Name of Start Up Entity	Support from MANIT (Space, Mentoring etc)	Remarks
M/s Prayogik Technologies LLP Date Presented: 18th Nov. 2016	‹ Space allotted in MRIC ‹ Mentor: Dr.Suresh Gawre Asst. Prof., Electrical Engg. LOR issued.	‹ Agreement with the BHEL has been done. ‹ The orders for supply of the product to ONGC underway. NOTE: MD is an Alumni
M/s Neonage Health Care Pvt. Ltd Date Presented: 18th Nov. & 20th Dec.2016	‹ Space not requested ‹ Mentor: Dr. Jyoti Lahiri CMO, MANIT Dispensary ‹ LOR issued.	‹ Initially presentation was held on 18th Nov. 2016; some queries were raised and suggestions were given. ‹ Presented again on 20th Dec.16 in front of TRC. Addressed the issues raised in previous presentation.
X c p f { V g e j ø Appln. dated 30/09/2016	*LOR not issued.*	‹ The entity could not fulfil GOI Start up India guidelines and hence the application was returned back.
M/s DAuto Engg. Pvt. Ltd Date Presented: 03rd Feb.2017	‹ Space allotted in MRIC ‹ Mentor: Dr. G. Dixit & Dr.A Rehman Professor, Mechanical Engg. ‹ LOR issued.	‹ Their previous experience of services in automotive sector would be utilised for projects related to Smart City (BSCDCL) and other sectors in Industrial clusters in and around Bhopal
M/s Vaastu Vista Smart City Soft Technologies LLP Date Presented: 10th Feb.2017	*LOR not issued.*	‹ The start up proposes to provide easy work flow management solution in corporate & government departments, with the key objective of getting the tasks completed on time. ‹ TRC raised certain queries and were asked to address issues and incorporate suggestions. ‹ Permitted to present again with desired changes.
M/s SJ TECH Solutions Private Limited Date Presented: 10th Feb.2017	‹ Space not allotted ‹ Mentor: Consent of the mentors awaited ‹ LOR issued.	A) Four products targeting the education sector: *(i)* Assignment Assister *(ii)* Notice Board *(iii)* Smart Attendance *(iv)* Smart teacher substitution B) Two products for realty sector: *(i)* Notice board *(ii)* Colony Maintenance app. C) Products for department of food and drugs, police and income tax- "Evidence Collection app" which will be used to collect tamper proof evidence. Department of food and drugs already undertaking field tests. D) For Individual safety: $ G o g t i g p Free." foC

		M.P. Police; Field tests are underway.
M/s Savneo Internet services Private Limited	‹ Space not requested ‹ LOR issued. ‹ Mentor: Dr. Shailendra Jain	They have developed an android and web based app named AMONI which they are using for Vehicle Queue Management System for automobile dealers and two wheeler service stations.
M/s Dolphinox Informatics & Technologies Pvt. Ltd	‹ Space not requested ‹ LOR issued. ‹ Mentor: Dr. Pateria	The proposed software is a school timetabling Software which can easily create school timetable having any number of working days.
M/s Vaastu Vista Smart City Soft Technologies LLP	‹ Space not requested ‹ LOR issued. ‹ Mentor: Dr. Jagdish	They are trying to develop a web and mobile app based viz. technology based solution of getting things done (GTD) to manage tasks/projects, assign deadlines, monitor, fix roles and responsibilities, goal setting with road map.

2.2.2 Students to Develop Marketable Product & Become an Entrepreneur

A competition, titled "FUTURE ENTREPRENEURS" has been proposed to activate students to develop marketable products and become an entrepreneurs. Under this programme, a team of experts would select, promote and Incubate students marketable product. The selected/awarded batches of students, in the final round, would eventually become the FUTURE ENTREPRENEURS and their product could be launched under Start-up India programme at MRIC.

In the proposed programme at VI Semester level the batches voluntarily participating in the competition would be selected at the departmental level at the end of the sixth semester. The total number of 30 batches would be selected from seven departments. In the next stage MRIC would conduct presentations of FUTURE 30 Batches by FUTURE ENTREPRENEURS EVALUATION TEAM (FEET) comprising external and internal experts. All 30 batches would get a 'Certificate of Merit' from MRIC.

At the start of VII semester, FEET would select 5 batches out of 30, for working in MRIC. Finally, at the end of VIII semester, 2 projects would be selected as FUTURE ENTREPRENEURS (award.

2.2.3 To Start And Identify Multi-Phased And Open Ended Project.

The Dean's Committee selected Nano-Satellite project, AZAD-1 for its innovativeness and creativity. At MRIC the Nano-Satellite project, AZAD-1, has been identified and selected under Multi-Phased and Open Ended project. In addition to this Development for Satellites is unique, this project can In due also be considered under the Multi-Phased and Open Ended project.

The brief details are presented in the following table :

DETAILS OF STUDENT-PROJECTS IN MRIC

S.No.	Project Title	Sub Groups	Objectives	Starting Month	Month of Completion	Faculty Advisor	Remarks
1.	Azad-1 -Nano Satellite	1. Payload 2. On-Board Data Handling Subsystem 3. Electrical Power Subsystem 4. Structural and Thermal Subsystem 5. Attitude Determination and Control Subsystem 6. Telemetry, Tracking and Command Subsystem	• Technology demonstration of an Extreme Ultraviolet (EUV) Sun Imaging Payload on a nano satellite platform. • To provide undergraduate students with a cross disciplinary research environment; to engage them in a hands-on learning experience in developing a nano satellite with a payload for scientific research.	2013	June, 2018	Dr. Shailendra Jain	Room No.: 3 63 Students
2.	Ground Station Development for Satellites	1. **TRANSCEIVER**: To transmit and receive the data on a particular set of frequencies which are of interest. 2. **ANTENNA SYSTEM**: Different antennas are needed for different frequencies. 3. **TRACKING SYSTEM**: To point the antenna towards the satellite. 4. **TEST EQUIPMENT**: For routine checks & maintenance of the ground segment	• To develop a low cost ground station and collect data from various satellites • Sharing knowledge with the students in the field of satellite communication & antenna designing • To promote amateur radio in our Institute and spread awareness about the HAM community.	2014	June, 2018	Dr. Shailendra Jain & Dr. Sangeeta Nikhate	Room No.: 7 06 Students

2.3 Activities Proposed & being undertaken between June 2017 to December 2017

‹ Initiate MOUs with different organisations.

‹ Starting Registered Certified Courses under Continuing Education Cell- MRIC.

2.3.1 Memorandum of Understanding (MOU)

1. A Tri Party memorandum of understanding is to be signed between the following:
   ‹ Bhopal Smart City Development Corporation Limited (BSCDCL), and MANIT
   ‹ D-Auto Engineering Pvt. Ltd., Bhopal

In line with the above MOU ø øwe are in the process of providing consultancy and technological inputs to BSCDCL.

2. On similar lines, a very important MOU is expected in the coming months with MP State Electronics Development Corporation Limited- IT Centre, Bhopal.

3. The discussions and expected areas where MANIT can have technological interventions is underway with BHEL, Bhopal.

2.4 Additional Activities Undertaken

2.4.1 In addition to the long term projects, few short term projects are also underway. The

projects are given in the table below:

DETAILS OF SHORT TERM STUDENT-PROJECTS IN MRIC

S.No.	Project Title	Faculty Advisor	Remarks
1.	Vehicle safety and tracking kit	Dr.R.K.Dwivedi	Room No.: 5 50 Students
2.	Hybrid Vehicle Challenge	Dr.C.M.Krishna	Room No.: 1 25 Students
3.	ROBOCON	Dr.Pankaj Swarnkar	

Out of the above, the **Hybrid vehicle** won two prizes, one in the Hybrid vehicle challenge

competition held at Buddh International Circuit, Greater Noida and another at Vigyan Mela held

by the MP State Government in Bhopal.

2.4.2 MRIC participated in the Vigyan Mela, Bhopal and won two cash prizes for the products

showcased by the students.

2.4.3 õUekgpeg"cpf Specially Abled Pgtuqpuʺ phö f"ýcu"qticpkugf"qÞ"P

Science Day Celebration by Dr.Foziya Z.Khan under Aero Astro MANIT,

Sponsored by- MP Council of Science & Technology.

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7.4 Games & Sports

Physical Education & Sports Activities 2016-17, began in the month of July 2016 with the regular practice of all the indoor as well as outdoor sports which included basketball, volleyball, cricket, football, kabaddi, chess, table-tennis, badminton and carrom. Martial Arts was added later in the session. Gym trials for all the students were carried out in the month of July. The gym scrutiny included 5km run, push ups and crunches count.
Several Inter-Hostel, Inter-Year and Inter-Branch events were also organized.
MANIT Bhopal participated in several Inter-NIT Competitions which include football, cricket, basket ball (Boys & Girls), volleyball (Boys & Girls), kabaddi and badminton (Boys & Girls).

Extramural Activities

MANIT students participated in all India ipvgt "and Inter engineering college tournaments organised at xctkqwu "alRokm oaUinter engineering tournaments:
‹ NIT Agartala football
‹ NIT Jaipur basket Ball
‹ NIT Rourkela cricket
‹ NIT Suratkal volleyball(Boys & Girls)
‹ NIT Trichy badminton (Boy & Girls)
‹ Inter Engineering Cricket Tournament organized by All Saints Engineering College.

Detailed information about the various outdoor and indoor activities during 2016-17.

Achievements

I. MANIT vgco "ugewtgf "All Saints Inter Engineering College Cricket Tournamnet. organized by All Saints College in Bhopal from 14 to 28 February 2017.

II. MANIT team was runners up in Inter- NIT Volleyball Tournament (Girls) 2017 organized by NIT, Surathkal from 14 to 28 February 2017.

III. MANIT team was runners up in Inter- NIT Football Tournament 2016 organized by NIT, Agartala from 24 to 27 September 2016.

IV. OCPKV " Vgco " ugewtgf "invInter- NIT Cricket Tournamnet "2017 organized by pNIT, Agartala from 27 to 31 January 217.

Intramural Sports Activies

Physical Education and Sports Department concentrated on intramural events, starting from the month of August 2016. This included Inter Hostel and Inter Branch, (Boys & Girls) events of table tennis, chess, carrom, football, volleyball, cricket, basketball, cross country, kabaddi etc. Besides these activities, we motivated the first year students to participate in inter hostel, inter branch, inter NIT tournaments by giving special practice sessions by experts. In addition to this, open cross country race for students (UG and PG), Faculty v/s Staff Cricket Tournaments were also conducted in 2016-17 session.

7.5 Institute Activities

Cultural Events Of Manit

Ripple 2016-17

It is the annual literary festival of the institute conducted by the literary society ÷Drishtantø This year, the theme of the festival was ÷ N g i of Hidden V g o rimwhiøh the participants had to collect tokens (by participating and winning in the literary sub-events) in the earthen pot provided to them. Participants earned the tokens on the basis of their performances in different evenst and the winner with the maximum tokens went into the next round. The various events that took place included group discussion, British Parliamentary debate, moot court and creative writing sessions. Several events like spell Bee, complete the phrase, solving the puzzle, group debate and creative writing on abstract topics took place. All the events were based on the token system only. Ripple 2017 saw participation of around five hundered students from across the country.

Maffick:

It is the annual social and cultural festival of MANIT. It is a 3-days event held usually in the second week of March every year and is attended by thousands of students from different colleges across India. It is very popular because of the wide variety of cultural events (music and dance shows), celebrities and competitions it hosts.

This year's theme was "Retro". The institute flooded with graffiti of popular music bands and artists of the 90s and hosted a crowd of thousands of students. The festival also promoted sustainable energy by its venture to invite the entire college to unite and save electricity while watching the India v/s Pakistan match in the college ground. Along with this, Maffick hosted an EDM night and a musical evening by Gajendra Verma.

Tooryanaad:

Tooryanaad is organised every year during the Hindi Week at the Institute. It promotes Hindi culture in the institute and the event has a national presence.

Major Student Associations

Drishtant

Drishtant is the literary society of MANIT and has been an organisation aiming at improving the overall literary persona of students. The very mission of Drishtant has been manifold. Transforming students from shy and diffident PCM nerds to loquacious entrepreneurs and engineers of tomorrow. By educating effective communication skills in students. All in all Drishtant endeavours to ward-off the diffidence and promotes the literary persona of the literary personality.

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1. Weekly events

Every Sunday, Drishtant invites all students to its weekly events. This year ∅ weekly events included ─RendezVous ∅ and ─Expecto Patronum ∅ Both of these events aimed towards the new batch of students to interact with each other and their seniors for sharing knowledge and experience. They had simple events like literary quizzes, idiom charades, writing and speaking tasks. As a tradition, Dishtant ended all its weekly events with Group Discussion where participants were guided thoroughly through its rules and judges gave every participant a feedback on their performance and pointers to improve in future.

2. Illuminati

Is another flagship event conducted in the Techfest of the institute, this year saw its 5th edition, themed at a 50 year old murder mystery solved through a series of literary puzzles, case studies and moot court.