



MANIPAL UNIVERSITY JAIPUR

Established under the Manipal University Jaipur Act (No. 21 of 2011)





Dr. TMA PAI, Padma Shri Awardee

“Give an individual professional education
and you have given him a lifestyle”

FOUNDER

MANIPAL EDUCATION & MEDICAL GROUP

Visionary | Philanthropist | Physician |
Educationalist | Banker



For and on behalf of the Board of Mangement

Annual Report 2015-16

Published by



**MANIPAL UNIVERSITY
JAIPUR**

Manipal University Jaipur

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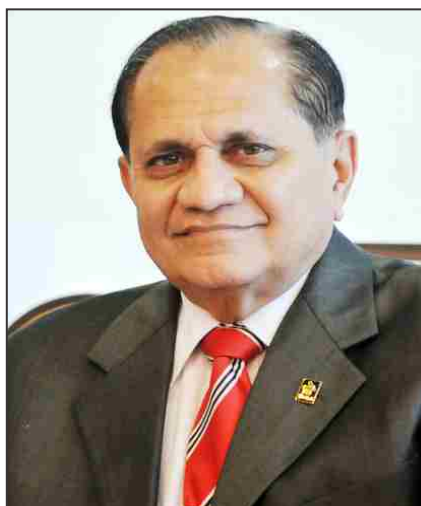
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Chairperson's Message



It gives me pleasure to see both the content and the presentation of the second Annual Report of Manipal University Jaipur. The University has been making rapid progress on all fronts, and this is evident from the varied dimensions of performance covered in the Report. The number of accolades and prizes that the University itself, and its students and faculty members have received in the last one year, is commendable, and demonstrates its commitment to realizing the vision of excellence.

In a short span of 5 years, MUJ has grown manifold not only in the number of programmes offered, number of students enrolled, the number of faculty members in place, but also in the quantity and quality of its research output, whether in terms of technical, sponsored research, or in consultancy.

It is also heartening to see the progress made in the domains of entrepreneurship and innovation, where MUJ students have made a mark for themselves, progress that is undoubtedly the result of the motivating environment offered at MUJ and best practices consistently adopted. I am sure MUJ will go from strength to strength in future years and establish itself as a reputed university in the country.

Dr. Ramdas M. Pai
Chairperson

Foreword



Prof. Sandeep Sancheti
President



Prof Kumkum Garg
Pro President



Prof Vandana Suhag
Registrar

It is with immense satisfaction that we present the second Annual Report of Manipal University Jaipur (MUJ). The Annual report is a comprehensive compilation of the array of major events and activities of MUJ conducted in various domains, integrating learning with specific skills, and teaching with research. The Report also records the meritorious achievements of MUJ as an institution, and the accolades achieved by its students, faculty and staff.

Manipal University Jaipur, within a short span of just five years, has already earned a name for itself as an institution committed to quality education, and it is our constant endeavour to work towards the university's continuing development. As we move ahead in our developmental journey we also stand committed to incorporating the best practices that mould our students as good citizens, excellent professionals required in a global context and further, to take on boldly the real-life challenges that they must meet. We have made considerable headway in strengthening our internal and external collaborations to provide our students and faculty with the choicest opportunities for academic advancement and growth.

We are grateful for the inspirational vision and values that serve as a compass in defining the direction for MUJ's advancement and we stand committed to fulfilling that grand vision with zeal and dedication, through the concerted involvement of each one of us at MUJ. We would like to convey our heartfelt and sincere thanks to the entire MUJ family, and our deepest appreciation to the team who have contributed painstakingly in the compilation of this report.

OVERVIEW

I



VISION

Global Leadership in Higher Education and Human Development

MISSION

- Be the most preferred University for innovative and interdisciplinary learning
- Foster academic, research and professional excellence in all domains
- Transform young minds into competent professionals with good human values

VALUES

Integrity, Transparency, Quality,
Team Work, Execution with Passion, Humane Touch



Awards & Recognitions



**5* Rating
GRIHA MNRE, GOI**



**LEED INDIA
Platinum Award**



Best University Campus



**Most Promising University
with Excellent Campus
in North India**



**First Smart Campus
Award Digitizing India**



**Outstanding Contribution
To Digital India Award**



**Outstanding Engineering
Institute North**



**Best Campus Management
Solution Providers**



**Most Upcoming
B-School**



**Best B - School
Award**



**Ranked No.1 in Rajasthan
Dialogue India Academia Awards**



**Indo Global Architecture
Education Excellence Award 2015**

President's Awards for dedicated service 2015-16



Dr Kusum Sharma
Associate Professor
FoA&L

Mr Prabhat Ranjan
Assistant Professor
FoE



Mr Sebom Mukherjee
Assistant Manager
MIS



Ms Sunita Saini
Jr Management Executive
MUJ

Certificates of Appreciation 2015-16



Dr Ramesh Kumar Rawat
Associate Professor
J&MC



Mr Arvind Kilaru
Assistant Professor
Information Technology



Mr Manmohan Mehta
Junior Assistant
Admission Section



Mr Naresh Pal
Associate IT
MaGE



Mr Ramesh Chand Meena
Dispatch Rider
MUJ

Visit of Dignitaries



Dr Hari Gautam
Chairman, UGC, Former
Vice-Chairman, KGML, Lucknow
Date : Sep.30, 2015



Dr Anil Kakodkar
Eminent Nuclear Scientist, Former
Chairman of Atomic Energy Commission
Date : Oct. 24-25, 2015



Dr V.K. Aatre
Former DRDO Chief and Scientific
Advisor to Raksha Mantri
Date : Oct. 24-25, 2015



Shri Dushyant Singh
Member of Parliament, Jhalawar,
Rajasthan
Date : Nov. 20, 2015



Shri Piyush Goyal
Hon'ble Minister Power,
Coal and Renewable Energy GoI
Date : Nov. 19, 2015



Dr. S.P. Singh
Scientist, National Physical Laboratory
(NPL), New Delhi
Date : Nov. 19-21, 2015



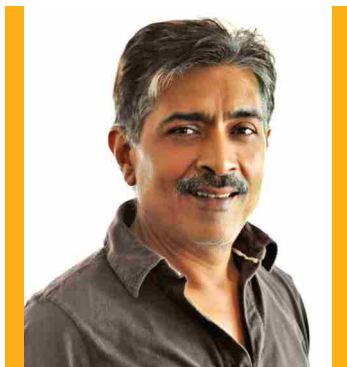
Mr K G Krishnamoorthy Rao
CEO of Future Generali
Date : March 11-13, 2016



Justice Amitava Roy
Hon'ble Judge, Supreme
Court of India
Date : Nov. 27-28, 2016

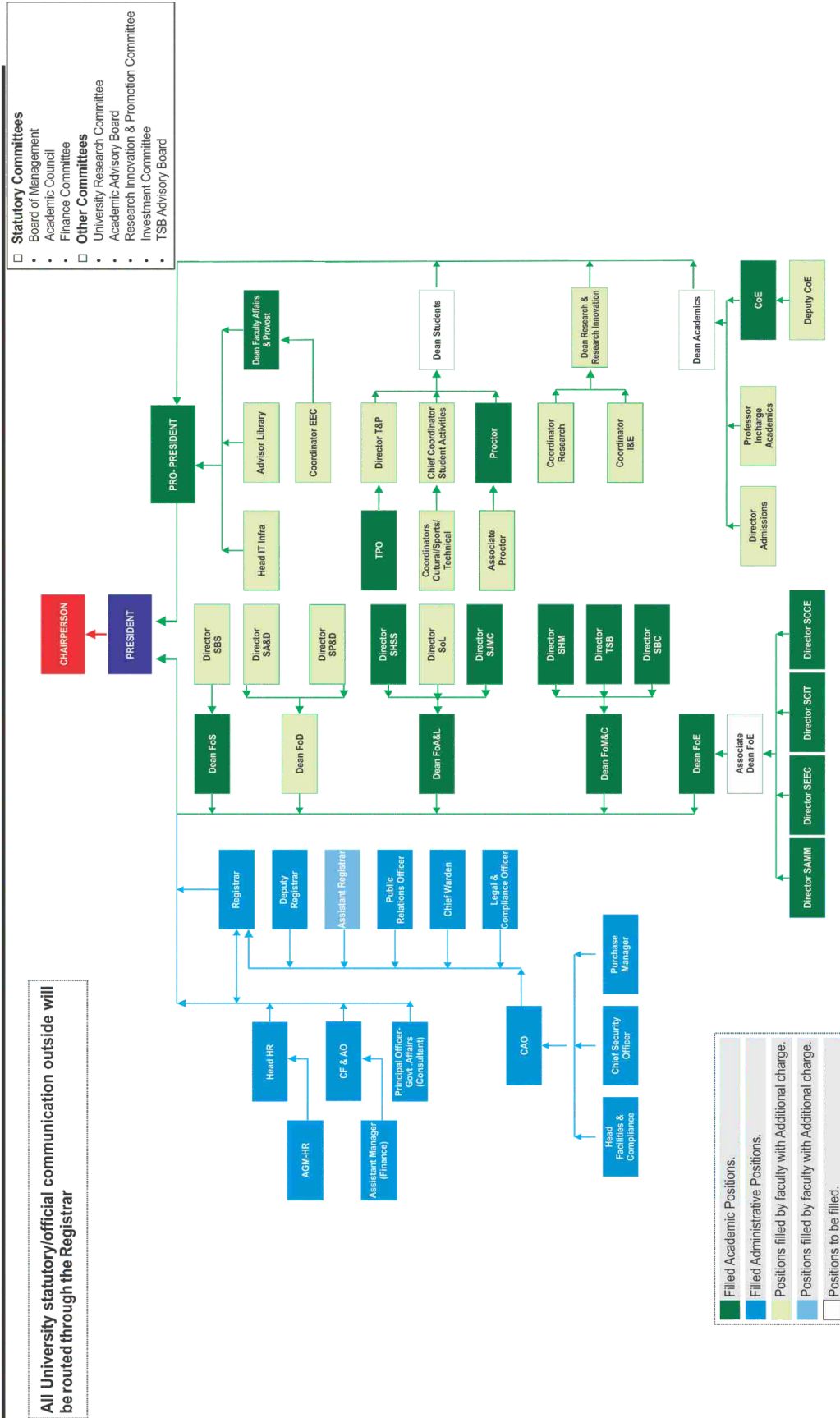


Shri Srijan Pal Singh
OSD to A P J Abdul Kalam
Date : March 11-13, 2016



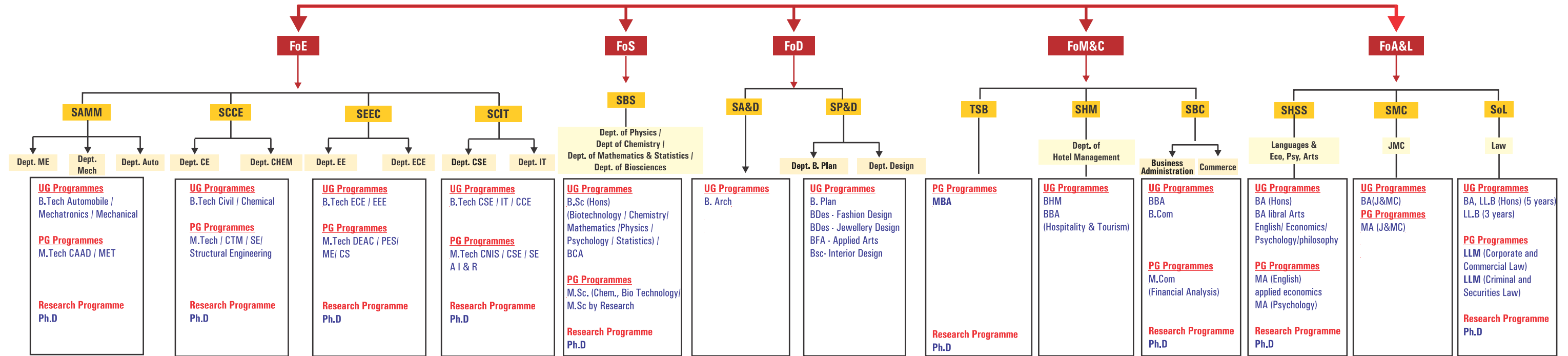
Mr Prakash Jha
Film Director
Date : February 11, 2016

ORGANOGRAM





Academic Structure



ABBREVIATIONS

- < FoE: Faculty of Engineering
- < FoS: Faculty of Science
- < FoD: Faculty of Design
- < FoM: Faculty of Management & Commerce
- < FoA&L: Faculty of Arts & Law
- < SCCE : School of Civil & Chemical Engineering
- < SAMM : School of Automobile, Mechanical & Mechatronics Engineering
- < SCIT: School of Computing & Information Technology
- < SEEC: School of Electrical, Electronics & Communication Engineering
- < SA&D: School of Architecture & Design
- < SP&D: School of Planning & Design
- < TSB: TAPMI School of Business
- < SBC: School of Business & Commerce
- < SHM: School of Hotel Management
- < SBS: School of Basic Sciences
- < SoL: School of Law
- < SHSS: School of Humanities & Social Sciences
- < SJMC: School of Journalism & Mass Communication



Members of Board of Management

Name	Designation
Dr Ramdas M Pai, Padma Bhushan Awardee	Chairperson, MUJ
Dr Ranjan Pai	MD & CEO, MEMG
Dr Sandeep Sancheti	President MUJ
Dr H P Khincha	Advisor IISc Bangalore, Chairman Karnataka Innovation Council, Former VC, VTU
Mrs Mira Mehrishi	IAS (Retd) Full Time Member, CMAC, Vice Chairman, ADMA
Shri Abhay Jain	Advisor, MEMG
Dr K. Ramnarayan	Vice President - Faculty Development & Alumni Relations, MU
Shri Sudhakar Rao	IAS (Retd.), Former Chief Secretary, Karnataka State Government
Shri Anoop Khinchi	IAS, Commissioner College Education
Shri Rajen Padukone	Group President MEMG
Dr Kumkum Garg	Pro President, MUJ
Dr B K Sharma	Dean Research and Innovation (R&I)
Dr Vandana Suhag	Registrar, Member Secretary, MUJ

Members of Academic Council

Name	Designation
Prof Sandeep Sancheti	President, Chairman
Prof K Garg	Pro President
Prof N K Garg	Professor Emeritus (Design) and Advisor, International Programmes, MUJ
Prof B K Sharma	Dean R&I
Prof M Srivastava	Dean FoA&L
Prof Awdhesh Kumar	Dean Faculty Affairs & Provost
Dr Nilanjan Chattopadhyay	Dean Faculty of Management & Commerce
Prof G C Tikkiwal	Dean FoS
Prof N N Sharma	Director SAMM
Prof Vandana Suhag	Registrar, Member Secretary, MUJ
Prof R Singh	Director TSB
Prof S N Sharan	Director SEEC
Prof R Mathur	Director SCCE
Prof R S Shekhawat	Director SCIT
Prof Ravi Chaturvedi	Director SJMC
Dr Amit Jain	Director SHM
Dr Manju Singh	Director SHSS
Dr A K Sinha	Director SBS
Dr Madhura Yadav	Director SA&D
Prof P K Pandey	Director Planning & Design
Dr Lalita Ledwani	Dept of Chemistry
Dr B P Singh	Professor, Dept ECE
Dr Ajay Kumar	HoD Mechatronics Engineering
Prof M L Vadera	Controller of Examination

Members of Academic Advisory Board

Name	Designation
Prof V S Vyas	Emeritus Professor, IDS Former Member, Economic Advisory Council to the Prime Minister Former Deputy Chairman, State Planning Board, Rajasthan
Dr Yogesh Atal	Emeritus Professor, MP Institute of Social Science Research, Ujjain Member of the Governing Board of the National Institute of Health and Family Planning, New Delhi
Prof Ramesh Takulia	Consultant, National Council for Hotel Management & Catering Technology, Ministry of Tourism
Shri DR Mehta	Former Chairman, SEBI Founder and Chief Patron Mahaveer Viklang Sahayata Samiti, Jaipur
Prof S Prasad	Director, IIT Delhi
Prof PR Mehta	Ex. President, Council of Architecture Design Action of Group
Prof S K Joshi	Former Director General, CSIR & Professor Emeritus National Physical Laboratory, New Delhi
Prof H S Ballal	Pro-Chancellor Manipal University, Manipal
Hon'ble Justice G S Singhvi	Former Supreme Court Judge Chairman Competition Appellate Tribunal New Delhi
Prof Sandeep Sancheti	President, Manipal University Jaipur

Other Committees At University Level

- Academic & Industrial Research Committee
- Committee for the Prevention of Sexual Harassment at Workplace
- Departmental Board of studies
- Entrepreneurship Cell Committee
- Faculty Selection Committee
- Fee Fixation Committee
- Finance Committee
- Purchase committee
- Research and Innovation Promotion Committee
- Students Council
- TAPMI School of Business Management Advisory Committee
- University Research committee
- Internal Quality Assurance Cell

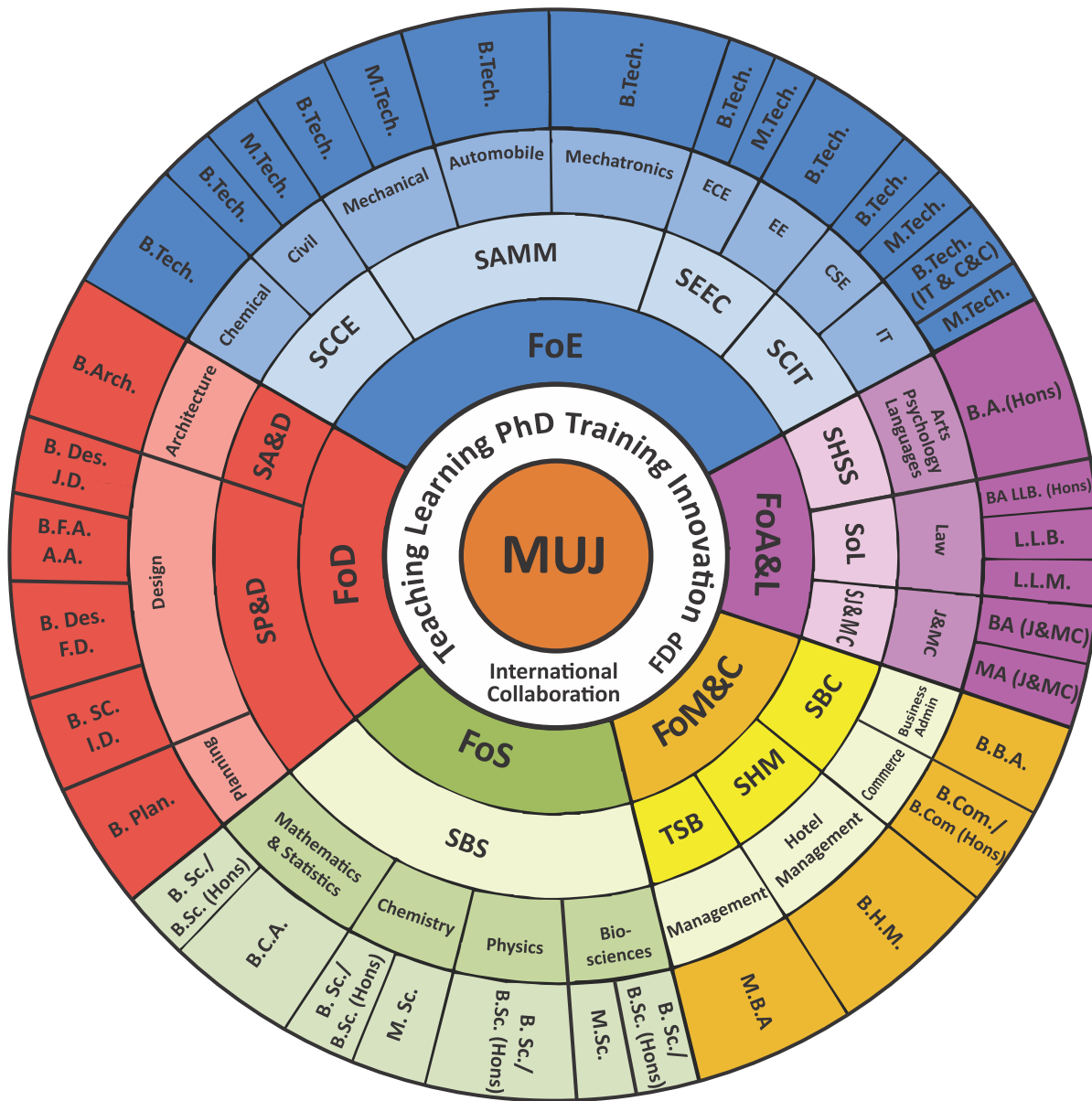
Administrative & Functional Heads

Prof. Sandeep Sancheti	President
Prof. Kumkum Garg	Pro President
Dr. B.K. Sharma	Dean, Research & Innovation
Prof. Mridul Srivastava	Dean, Faculty of Arts & Law
Prof. N. N. Sharma	Dean, Faculty of Engineering & Director SAMM
Prof. N. Chattopadhaya	Dean, Faculty of Management & Commerce
Prof. G. C. Tikkiwal	Dean, Faculty of Science
Prof. Awadesh Kumar	Dean, Faculty Affairs & Provost
Dr. Naresh Kumar Garg	Professor Emeritus Design & Advisor International Programs
Dr. Vandana Suhag	Registrar
Dr. M. L. Vadera	Controller of Examination
Mr. Sujiban Ghosh	Chief Finance & Accounts Officer
Dr. Manju Singh	Director School of Humanities & Social Science
Dr. Ravi Chaturvedi	Director School of J&MC
Dr. Rajesh Mathur	Director School of Chemical & Civil Engg & Chief Coordinator Student Activities
Dr. S.N. Sharan	Director School of Electrical, Electronics & Communication Engg & Chairperson Library Advisory Committee
Dr. R. S Shekhawat	Director School of Computing & IT
Dr. Raghuvir Singh	Director TAPMI School of Business
Dr. Amit Jain	Director School of Hotel Management
Dr. Sorab Sadri	Director School of Business & Commerce
Dr. A. K. Sinha	Director School of Basic Sciences
Col. Virendra Yadav	Chief Administrative Officer & HRO
Mr. Anil Singh	Chief Warden
Dr. Richa Arora	Director Admissions
Dr. D. P. Sharma	Prof. In-charge IT Infra
Dr. Ajay Kumar	Prof. In-charge Academics
Mr. Subhash Handa	Head Training and Placement
Col. Ratan Singh	Chief Security Officer
Mr. S. N. Bagra	Librarian
Dr. Geetika Tankha	Coordinator Technical Activities
Dr. Anthony L Savari Raj	Coordinator Cultural Activities
Dr. Pradeep Singh Chahar	Coordinator Sports Activities
Mr. Abhimanyu Maini	Chief Public Relations Officer

Heads of Departments

Dr K K Gaur	Economics
Dr Rayaz Hassan	J&MC
Prof (Dr) Sudha Rai	Languages
Dr Vijay Laxmi Sharma	Law
Dr L Anthony	Philosophy
Dr Geetika Tankha	Psychology
Dr Madhura Yadav	Architecture
Mr Anantkumar Dada Ozarkar	Design
Prof P K Pandey	Planning
Prof Rajesh Solanki	Automobile Engineering
Dr Anand Pandey	Mechanical Engineering
Dr Ram Dayal	Mechatronics Engineering
Dr Abhishek Sharma	Chemical Engineering
Dr AD Vyas	Civil Engineering
Dr Roheet Bhatnagar	Computer Science & Engineering
Dr Sumit Srivastava	Information Technology
Dr Amit Soni	Electrical Engineering
Dr Amit Rathi	Electronics & Communication Engineering
Dr Gaurav Lodha	Business & Commerce
Mr Manoj Srivastava	Hotel Management
Dr Samar Sarabhai	Management
Dr Madan Mohan Sharma	Bio Science
Dr Babita Malik	Chemistry
Dr Sunil Joshi	Mathematics & Statistics
Dr Sushil Jain	Physics

Academic Programmes



Details of Programmes

FACULTY		PROGRAMMES	DURATION	
FACULTY OF ENGINEERING	UG	B. Tech in Automobile Engineering B. Tech in Chemical Engineering B. Tech in Civil Engineering B. Tech in Mechanical Engineering B. Tech in Mechatronics Engineering	4 years B.Tech / (Lateral Entry) 3 years	
School of Automobile, Mechatronics & Mechanical Engineering (SAMM)		PG	M. Tech in Computer Aided Analysis & Design M. Tech in Construction Technology & Management M. Tech in Manufacturing Engineering & Technology M. Tech in Structural Engineering M.Tech. in Environmental Engineering M.Tech in Thermal Engineering	2 years
		PhD	In all major areas of UG & PG studies	3 years
School of Electrical, Electronics & Communication Engineering (SEEC)	UG	B. Tech in Electronics and Communication Engineering(ECE) B. Tech in Electrical & Electronics Engineering(EEE)	4 years	
	PG	M. Tech in Digital Electronics and Communication M. Tech in Power Electronics and Systems M. Tech in Micro Electronics	2 years	
	PhD	In all major areas of UG & PG studies	3 years	
School of Computing and Information Technology (SCIT)	UG	B. Tech in Computer Science & Engineering (CSE) B. Tech in Information Technology B.Tech in Computer & Communication Engineering	4 years	
	PG	M.Tech in Computer Networks and Information Security M.Tech. in Computer Sciences & Engineering M.Tech in Artificial Intelligence & Robotics	2 years	
	PhD	In all major areas of UG & PG studies	3 years	
FACULTY OF DESIGN				
School of Architecture & Design (SA&D)	UG	Bachelor of Architecture (B Arch)	5 years	
School of Planning & Design (SP&D)	UG	Bachelor of Planning (B Plan) Bachelor of Design (B Des- Fashion Design) Bachelor of Design (B Des- Jewellery Design) Bachelor of Fine Arts (BFA Applied Arts) Bachelor of Science (Interior Design)	4 years 3 years	
	PhD	In all major areas of UG & PG studies		

FACULTY OF MANAGEMENT

TAPMI School of Business (TSB)	PG	Master of Business Administration (MBA) (In Marketing, Finance, Human Resource, Operations Management)	2 years
		Executive MBA Program	2 years
	PhD	In all major areas of UG & PG studies	
School of Hotel Management (SHM)	UG	Bachelor of Hotel Management (BHM)	4 years
School of Business & Commerce (SBC)	UG	Bachelor of Business Administration (BBA)	3 years
		Bachelor of Commerce (B Com)	3 years
	PhD	In all major areas of UG & PG studies	

FACULTY OF SCIENCE

School of Basic Sciences (SBS)	UG	Bachelor of Science (Pass Course) (Bio-Sciences, Biotechnology, Botany, Chemistry, Mathematics, Computer Science, Geology, Physics, and Statistics) Bachelor of Computer Applications	2 years
	PhD	M.Sc, by Research	2 years
	PhD	In all major areas of UG & PG studies	3 years

FACULTY OF ARTS & LAW

School of Humanities & Social Sciences (SHSS)	UG	Bachelor of Arts BA (Pass Course) Economics, English Psychology and Philosophy	3 years
	PhD	Bachelor of Arts BA (Hons.) Economics, English, Psychology	3 years
	PhD	In all major areas of UG & PG studies	
School of Journalism & Mass Communication (SJMC)	UG	Bachelor of Arts in Journalism & Mass Communication	3 years
	PhD	In all major areas of UG & PG studies	3 years
School of Law (SoL)	UG	Integrated BA LL.B (Hons)	3 years
	PhD	Master of Laws (LL.M)	1 years
	PhD	In all major areas of UG & PG studies	

Faculty as on July 31, 2016

S. No.	Name of Faculty/ School/ Department	Designation	Male	Female	Total Strength
Faculty of Engineering					
1	Department of Automobile Engineering	Professor	1	-	1
		Associate Professor	1	1	2
		Assistant Professor	10	-	10
2	Department of Civil and Chemical Engineering	Professor	5	-	5
		Associate Professor	6	2	8
		Assistant Professor	14	4	18
3	Department of Computer Science & Engineering	Professor	4	1	5
		Associate Professor	4	3	7
		Assistant Professor	23	8	31
4	Department of Electrical & Electronics Engineering	Professor	3	-	3
		Associate Professor	4	-	4
		Assistant Professor	15	1	16
5	Department of Electronics & Communication Engineering	Professor	6	-	6
		Associate Professor	6	2	8
		Assistant Professor	15	6	21
6	Department of Information Technology	Professor	3	-	3
		Associate Professor	5	3	8
		Assistant Professor	18	4	22
7	Department of Mechatronics Engineering	Professor	1	-	-
		Associate Professor	2	-	2
		Assistant Professor	10	1	11
8	Department of Mechanical Engineering	Professor	6	-	6
		Associate Professor	6	1	7
		Assistant Professor	23	2	25
Faculty of Design					
9	School of Architecture & Design	Professor	-	2	2
		Associate Professor	3	2	5
		Assistant Professor	8	4	12
10	School of Planning & Design	Professor	2	1	3
		Associate Professor	-	2	2
		Assistant Professor	5	10	15
Faculty of Arts & Law					
11	School of Law	Professor	-	2	2
		Associate Professor	1	1	2
		Assistant Professor	3	6	9
12	School of Humanities & Social Sciences	Professor	1	3	4
		Associate Professor	3	2	5
		Assistant Professor	8	15	23

13	School of Journalism & Mass Communication	Professor	1	1	2
		Associate Professor	2	2	4
		Assistant Professor	5	2	7
Faculty of Science					
14	School of Basic Sciences	Professor	5	4	9
		Associate Professor	11	1	12
		Assistant Professor	15	11	26
Faculty of Management					
15	TAPMI School of Business (TSB)	Professor	3	1	4
		Associate Professor	3	-	3
		Assistant Professor	1	1	2
16	School of Hotel Management	Professor	1	-	1
		Associate Professor	2	1	3
		Assistant Professor	3	1	4
17	School of Business & Commerce	Professor	2	-	2
		Associate Professor	1	1	2
		Assistant Professor	5	7	12
Total Faculty			283	122	405

Non-teaching Staff as on July 31st, 2016

S. No.	School /Department	Male	Female	Total Strength
1	School of Engineering	54	0	54
2	School of Design	2	-	2
3	School of Arts & Law	3	-	3
4	School of Science	7	-	7
5	School of Management	4	-	4
6	Academics and Examination	5	-	5
7	Admission & Marketing	8	3	11
8	Library	6	5	11
9	Hostel	2	-	2
10	IT Infra(MAGE)	4	-	4
11	Training & Placement	1	0	1
12	Purchase	4	-	4
13	Registrar Office	4	1	5
14	Finance (MAGE)	5	1	6
15	Administration	8	-	8
16	PhD Office	1	-	1
17	Physical Education	1	-	1
18	NICOP Office	1	-	1
19	President Office	1	-	1
20	HR Office(MAGE)	4	0	4
Total		133	10	143

2nd Convocation



The **Second** Convocation was held on September 30, 2015. Dr. Hari Gautam, Former Chairman UGC, Principal Advisor to the Chairman, was the Chief Guest. 450 UG and PG students received their degrees. 19 Students, with highest CGPA in their respective classes, received Gold Medals. The Chairperson's Gold Medal for Overall Excellence was awarded to Mr. Sandeep TDS of BTech (Computer Science & Engineering).

Graduating Students 2014-15

Number of Graduatess by Faculty / Schools

S. No.	Faculty	School	Programme	Specilization	No. of Students
1	Faculty of Arts & Law	SHSS	Bachelor of Arts		6
		SJMC	Bachelor of Journalism and Mass Communication		23
		School of Law	Master of Law	Corporate Law	20
		SHSS	Ph.D.		1
2	Faculty of Engineering	School of Automobile, Mechanical & Mechatronics Engineering	Bachelor of Technology	Automobile Engineering	41
			Bachelor of Technology	Mechanical Engineering	59
			Bachelor of Technology	Mechatronics Engineering	32
		School of Civil & Chemical Engineering	Bachelor of Technology	Civil Engineering	54
		School of Computing & Information Technology	Bachelor of Technology	Computer Science & Engineering	108

5	Faculty of Science	School of Basic Sciences	Bachelor of Science	Biotechnology, Bioscience & Chemistry	20
		School of Computer Applications	Bachelor of Computer Applications		11
Total					759

Gold Medallists

S.NO.	Faculty	School	Programme	Specialization	Student Name
1.	Faculty of Engineering	School of Electrical, Electronics & Communication Engineering	B.Tech	B.Tech - Electronics & Communication Engineering	Shubham Aggarwal
2.		School of Electrical, Electronics & Communication Engineering	B.Tech	B.Tech - Electronics & Communication Engineering	Siddharth Srivastava
3.		School of Civil & Chemical Engineering	B.Tech	B.Tech - Civil Engineering	Rishab Bajaj
4.		B.Tech - Computer Science & Engineering	B.Tech	B.Tech - Computer Science & Engineering	Aaditi Gupta
5.		B.Tech - Information Technology	B.Tech	B.Tech - Information Technology	Bhavini Mohan
6.		B.Tech - Civil Engineering	B.Tech	B.Tech - Civil Engineering	Simran Choudhary
7.		B.Tech - Electronics & Communication Engineering	B.Tech	B.Tech - Electronics & Communication Engineering	Avani Agarwal
8.		B.Tech - Automobile Engineering	B.Tech	B.Tech - Automobile Engineering	Ankul Kithania
9.		B.Tech - Civil Engineering	B.Tech	B.Tech - Civil Engineering	Swati Choudhary
10.		B.Tech - Mechanical Engineering	B.Tech	B.Tech - Mechanical Engineering	Aakash Bhattacharjee
11.		B.Tech - Mechatronics Engineering	B.Tech	B.Tech - Mechatronics Engineering	Himanshu Singhal
12.		School of Computing & Information Technology	MCA		Chetan Prakash Kumawat
13.		School of Automobile Mechanical & Mechatronics Engineering	M.Tech	M.Tech - Computer Aided Analysis & Design	Sachin S Deshpande
14.		School of Electrical, Electronics & Communication Engineering	M.Tech	M.Tech - Digital Electronics & Communication Engineering	Himani Gandhi
15.		School of Computing & Information Technology	M.Tech	M.Tech - Computer Networks & Information Security	Prerit Jain

16	Faculty of Arts & Law	BJMC & B.A		BJMC	Mahima Satpathy
17		LLM		LLM	Hemant Kumar
18	Faculty of Management and Commerce	BHM			Bhawani Singh
19		BBA			Nikita Bhowmik
20		B.Com			Atul Jakhar
21		MBA			Karan Gupta
22	Faculty of Science	B.Sc		B.Sc	Sudipta Pathak
23		BCA		BCA	Savi Khuraniya



**GLIMPSES OF THE
UNIVERSITY**

II

Admissions

Student Statistics as on May 31, 2016

S.No.	Department	Programme	Male	Female	Total
Faculty of Engineering					
1	Automobile Engineering	B.Tech	158	2	160
		M.Tech	-	-	-
2	Civil Engineering	B.Tech	334	35	369
		M.Tech	23	0	23
3	Computer Science & Engineering	B.Tech	426	163	589
		M.Tech	6	9	15
4	Electrical Engineering	B.Tech	214	52	266
		M.Tech	6	1	7
5	Electronics & Communication Engineering	B.Tech	382	161	543
		M.Tech	13	6	19
6	Information Technology	B.Tech	350	115	465
		M.Tech	6	0	6
7	Mechatronics Engineering	B.Tech	209	10	219
8	Mechanical Engineering	B.Tech	525	9	534
		M.Tech	25	4	29
9	Chemical Engineering	B.Tech	37	10	47
10	Computer & Communication Engineering	B.Tech	65	22	87
Faculty of Design					
11	Architecture	B.Arch.	83	69	152
12	Planning	B.Plan	21	9	30
13	Fashion Design	B.Des	3	44	47
14	Jewelery Design	B.Des	2	3	5
15	Interior Design	B.Sc	14	19	33
16	Applied Arts	B.Des	6	17	23
Faculty of Arts & Law					
17	Law	BA,LLB	91	58	149
		LLB	3	2	5
		LLM	7	13	20
18	Journalism & Mass Communication	BA(J&MC)	100	57	157
19	Humanities & Social Sciences	BA	24	37	61

Faculty of Science					
20	Basic Science	B. Sc.	64	37	101
		BCA	54	4	58
		MCA	15	1	16
Faculty of Management					
21	Business & Commerce	BBA & B. Com	348	83	431
22	Hotel Management	BHM	68	6	74
23	Management	MBA	69	27	96
Grand Total			3751	1085	4836



University Examinations

ACADEMIC SESSION 2015-16

Batch	Programme Offered	Specialization	Semester	No. of Students Appeared	No. of Students Passed	Pass percentage
2015	B.TECH	FIRST YEAR	I - II	1027	846	82.38
2015	M.TECH	COMPUTER SCIENCE & ENGINEERING	I - II	5	5	100.00
2015	M.TECH	POWER ELECTRONICS & SYSTEMS	I - II	1	1	100.00
2015	M.TECH	CONSTRUCTION TECHNOLOGY & MANAGEMENT	I - II	9	9	100.00
2015	M.TECH	MANUFACTURING ENGINEERING & TECHNOLOGY	I - II	12	12	100.00
2015	M.TECH	STRUCTURAL ENGINEERING	I - II	6	6	100.00
2015	B.ARCH		I - II	40	39	97.50
2015	B.Sc INTERIOR DESIGN		I - II	33	24	72.73
2015	B.DESIGN	FASHION DESIGN	I - II	24	18	75.00
2015	B.DESIGN	JEWELLERY DESIGN	I - II	5	3	60.00
2015	B.PLAN		I - II	12	9	75.00
2015	BFA		I - II	14	14	100.00
2015	BBA		I - II	165	105	63.64
2015	B.COM		I - II	55	34	61.82
2015	BHM		I - II	39	25	64.10
2015	B.A. HONOURS	PSYCHOLOGY	I - II	13	8	61.54
2015	B.A. HONOURS	ENGLISH	I - II	7	3	42.86
2015	B.A. HONOURS	ECONOMICS	I - II	19	14	73.68
2015	BJMC		I - II	79	44	55.70
2015	BA LLB		I - II	97	82	84.54
2015	LLB		I - II	5	4	80.00
2015	LLM	CORPORATE	I - II	9	9	100.00
2015	LLM	CRIMINAL	I - II	11	11	100.00
2015	BCA		I - II	29	16	55.17
2015	B.SC HONOURS	BIO - TECHNOLOGY	I - II	23	18	78.26

2015	B.SC HONOURS	PHYSICS	I - II	5	2	40.00
2015	B.SC HONOURS	MATHAMATICS	I - II	9	6	66.67
2015	B.SC	PHYSICS, CHEMISTRY, MATHS	I - II	10	1	10.00
2015	MBA		I- II - III Trimester	51	33	64.71
2014	M.TECH	COMPUTER SCIENCE & ENGINEERING	III - IV	9	9	100.00
2014	M.TECH	COMPUTER NETWORKS & INFORMATION SECURITY	III - IV	6	6	100.00
2014	M.TECH	DIGITAL ELECTRONICS & COMMUNICATION	III - IV	14	14	100.00
2014	M.TECH	MICRO ELECTRONICS	III - IV	3	3	100.00
2014	M.TECH	COMPUTER AIDED ANALYSIS AND DESIGN	III - IV	12	12	100.00
2014	M.TECH	MANUFACTURING ENGINEERING & TECHNOLOGY	III - IV	3	3	100.00
2014	M.TECH	POWER ELECTRONICS & SYSTEMS	III - IV	5	5	100.00
2014	B.TECH	CIVIL ENGINEERING	III-IV	102	61	59.80
2014	B.TECH	COMPUTER SCIENCE & ENGINEERING	III-IV	181	166	91.71
2014	B.TECH	INFORMATION TECHNOLOGY	III-IV	164	118	71.95
2014	B.TECH	ELECTRONICS & COMMUNICATION ENGINEERING	III-IV	176	156	88.64
2014	B.TECH	ELECTRICAL & ELECTRONICS ENGINEERING	III-IV	82	65	79.27
2014	B.TECH	CHEMICAL ENGINEERING	III-IV	30	20	66.67
2014	B.TECH	AUTOMOBILE ENGINEERING	III-IV	43	36	83.72
2014	B.TECH	MECHA TRONICS ENGINEERING	III-IV	79	51	64.56
2014	B.TECH	MECHANICAL ENGINEERING	III-IV	182	150	82.42
2014	B.ARCH		III-IV	38	34	89.47
2014	B.DESIGN	FASHION DESIGN	III-IV	16	16	100.00
2014	B.PLAN		III-IV	12	10	83.33
2014	BFA	APPLIED ARTS	III-IV	9	8	88.89
2014	B.A HONOURS	PSYCHOLOGY	III-IV	6	3	50.00
2014	B.A HONOURS	ENGLISH	III-IV	4	3	75.00
2014	B.A HONOURS	ECONOMICS	III-IV	5	5	100.00
2014	BJMC		III-IV	47	45	95.74

2014	BA LLB		III-IV	45	32	71.11
2014	BBA		III-IV	84	62	73.81
2014	B.COM		III-IV	45	34	75.56
2014	BHMCT		III-IV	11	8	72.73
2014	BCA		III-IV	15	11	73.33
2014	B.SC	BIO-TECH, BIO-SCIENCES & CHEMISTRY (BBC)	III-IV	10	8	80.00
2014	B.SC	CHEMISTRY, BOTANY, BIOLOGY (CBB)	III-IV	8	4	50.00
2014	B.SC	PSYCHOLOGY, BIO-SCIENCE & BIO-TECH (PBB)	III-IV	5	4	80.00
2014	B.SC	BOTANY, PSYCHOLOGY & BIO - TECHNOLOGY (BPB)	III-IV	1	1	100.00
2014	B.SC	PHYSICS, CHEMISTRY, MATHS (PCM)	III-IV	7	4	57.14
2014	MBA		IV - V - VI Trimester	46	46	100.00
2013	E-MBA		II-III	20	20	100.00
2013	B.TECH	CIVIL ENGINEERING	V - VI	93	81	87.10
2013	B.TECH	COMPUTER SCIENCE & ENGINEERING	V - VI	122	113	92.62
2013	B.TECH	INFORMATION TECHNOLOGY	V - VI	86	76	88.37
2013	B.TECH	ELECTRONICS & COMMUNICATION ENGINEERING	V - VI	102	91	89.22
2013	B.TECH	ELECTRICAL & ELECTRONICS ENGINEERING	V - VI	66	57	86.36
2013	B.TECH	MECHANICAL ENGINEERING	V - VI	113	102	90.27
2013	B.TECH	AUTOMOBILE ENGINEERING	V - VI	37	34	91.89
2013	B.TECH	MECHATRONICS ENGINEERING	V - VI	46	38	82.61
2013	B.ARCH		V - VI	35	33	94.29
2013	B.DESIGN	FASHION DESIGN	V - VI	7	7	100.00
2013	B.PLAN		V - VI	6	6	100.00
2013	BBA		V - VI	42	40	95.24
2013	B.COM		V - VI	21	20	95.24
2013	BHM		V - VI	7	7	100.00
2013	BJMC		V - VI	24	23	95.83
2013	B.A.		V - VI	7	7	100.00

2013	BCA		V - VI	11	11	100.00
2013	MCA		V - VI	16	15	93.75
2013	B.SC	BIO-TECH, BIO-SCIENCES & CHEMISTRY (BBC)	V - VI	13	12	92.31
2013	B.SC	CHEMISTRY, BOTANY, BIOLOGY (CBB)	V - VI	2	2	100.00
2013	B.SC	PHYSICS, CHEMISTRY, MATHS (PCM)	V - VI	6	6	100.00
2012	B.TECH	AUTOMOBILE ENGINEERING	VII - VIII	42	42	100.00
2012	B.TECH	CIVIL ENGINEERING	VII - VIII	55	54	98.18
2012	B.TECH	COMPUTER SCIENCE & ENGINEERING	VII - VIII	107	106	99.07
2012	B.TECH	ELECTRONICS & COMMUNICATION ENGINEERING	VII - VIII	104	103	99.04
2012	B.TECH	ELECTRICAL & ELECTRONICS ENGINEERING	VII - VIII	57	56	98.25
2012	B.TECH	INFORMATION TECHNOLOGY	VII - VIII	35	34	97.14
2012	B.TECH	MECHANICAL ENGINEERING	VII - VIII	59	58	98.31
2012	B.TECH	MECHA TRONICS ENGINEERING	VII - VIII	32	32	100.00
2012	B.ARCH		VII - VIII	37	33	89.19
2012	BHM		VII - VIII	6	5	83.33
Total				4735	3938	83.17



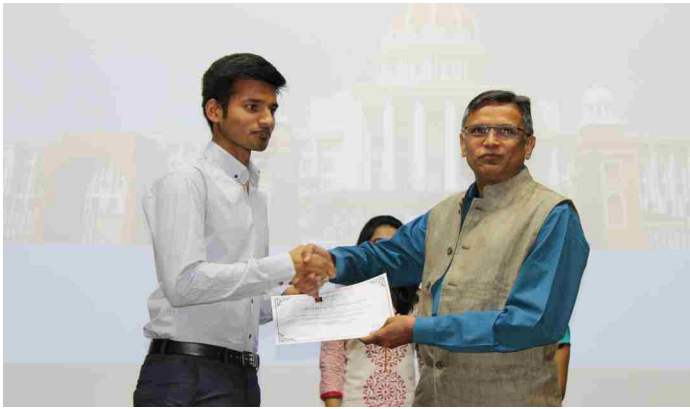
Scholarships 2015-16

In the year 2015-16, a total of 121 scholarships were given to meritorious students of different programs at MUJ. The total outlay for the same was Rs. 63,84,900/-

Scholarship awarded	No. of Students	Amount
Fee waiver for Local Region		
Faculty of Arts & Law	2	130000
Faculty of Management	4	146500
Faculty of Science	7	250500
Merit cum Means Scholarships for MBA Student		
Faculty of Management	8	900000
Merit Scholarship for Non Engineering students		
Faculty of Arts & Law	3	97500
Merit Scholarships for Non-Engineering students		
Faculty of Arts & Law	12	225000
Faculty of Design	9	323750
Faculty of Management	12	241000
Faculty of Science	8	127750
Rajasthan Merit Scholarship		
Faculty of Arts & Law	2	200000
Rajasthan Merit Scholarship (Special Case)		
Faculty of Engineering	1	115000
Rajasthan Merit Scholarships		
Faculty of Arts & Law	2	96000
Faculty of Design	4	350000
Faculty of Engineering	12	1200000
Faculty of Management	3	245000
Faculty of Science	2	126000
Scholarships for Lateral Entry(Diploma)/ Transfer cases		
Faculty of Engineering	2	46000
TMA Pai Engineering Scholarships		
Faculty of Engineering	5	422400
TMA Pai Excellence Scholarship		
Faculty of Arts & Law	4	247500
TMA Pai Excellence Scholarships		
Faculty of Arts & Law	5	198500
Faculty of Design	5	310000
Faculty of Management	5	262000
Faculty of Science	3	77250
Tuition fee Concession		
Faculty of Management	1	47250
Total	121	6384900

Student Council 2015-16

Post	Name	Programme
President	Mr Rishab Bajaj	B Tech (Civil Engineering)
General Secretary	Mr Abhay Pratap Singh	B Tech (Civil Engineering)
Treasurer	Mr Shantanu Shivam	B Tech (Mechanical Engineering)
Cultural Secretary	Mr Shahzeb	B Tech (Electrical & Electronics Engineering)
Technical Secretary	Mr Dhruvak Aggarwal	B Tech (Mechatronics Engineering)
Sports Secretary	Mr Sagar Agrawal	B Tech (Automobile Engineering)
Member - FoS	Ms Sudipta Pathak	BSc
Member - FoA&L	Mr Sumeet Sharma	BALLB (Hons.)
Member - FoD	Ms Harshita	B Design (Fashion Design)
Member - FoE	Ms Gaytri Khatwani	B Tech IT
Member - FoM	Ms Monika Sharma	MBA



Student Achievements

- MBA students bagged 3rd position in FMSCI approved 'Polaris Rally cross Jaipur 2015' in August 2015
- Mr. Nikhil Dixit, student of 3rd year B.Tech (CSE) won the top prize in Top-Coder Hackathon event, twice in a row, in August 2015 and 2016.
- Ms. Seema Dhayal, Research Scholar, Department of Chemistry, received the split-side PhD Fellowship

from Bar-Llan University, Israel in August 2015.

- Mr. Lakshya Dabas, MBA student, won 4 Trophies in Speed Sprint Single Stage Car Rally held at Manesar Gurgaon, in May 2016.
- Ms. Pakhi, student of 2nd year B.Tech (IT), is an international blogger, writer, poet and the youngest Google certified data analyst.



Skill Development

In order to bridge the industry academia gap, Manipal University Jaipur signed a MoU with National Development Skill Corporation (NSDC), New-Delhi on July 9, 2015. NSDC has developed a unique model to integrate skill based training into the academic cycle of the University. These training are being provided on the basis of National Occupational Standards set by industry through sector skill councils. The job roles offered are designed to be progressive in nature on National Skills Qualification Framework (NSQF).

Keeping the available infrastructure and job prospects in mind, the university identified the need for taking initiative to six sectors, namely, Vehicle Testing, Software Development, Tourism, Acting, Banking and Fashion Technology.

As a pilot project, a qualification programme in 'Meeting, Conference and Event Planner' (level 5) under National

Skills Qualification Framework (NSQF) was offered to the students of SBC and SHM in the even semester of Academic Session 2015-16. The programme was delivered by Manipal City & Guilds (MCG), an accredited partner of NSDC and Tourism & Hospitality Skill Council (THSC).

67 students were enrolled for this programme and 57 appeared for the assessment. All the students had successfully qualified and received joint certification of NSDC and MUJ.

A Certificate course on 'Advanced MS-Excel' was also taken by ProLearn, a Manipal educational setup, for the students.

A lecture on 'Life Skills in the 21st century' was given Prof Kumkum Garg, Pro President on the occasion of Founder Day on April 30, 2016.



Endowment Fund

Endowment Fund

An Endowment Fund has been created in the name of Dr. Ramdas M Pai and Mrs. Vasanthi Pai, by the Manipal Education and Medical Group (MEMG), for Academic development, Students scholarships and Employee welfare in its Group Universities. The Endowment Fund amount for MUJ is of Rs. 20 Crores, is to be given in yearly installments of Rs. 2 Crores. This is proposed to be utilized in the academic year 2016-17 for the following purposes.

- a) **Quality Improvement Programme (QIP) for faculty:** for deputing young faculty to reputed institutions like IITs and NITs, for doctoral and/or post-doctoral studies and to incentivize them on their return to MUJ.
- b) **Faculty visits to international Institutions:** for deputing faculty members to work at reputed Institutions abroad, (for about two weeks each), for exposure to the best practices in academics and research.
- c) **Faculty visits to industry:** To strengthen industry-academia relations and for exposure to the state-of-the-art industrial processes, faculty members would be deputed to relevant industries during the Summer vacation, to enable them to have a first-hand view of the problems faced by industry, as also their areas of interest and what they need from academia by way of research. Most importantly, it would help in getting our students placed with them.
- d) **Short term Visiting/Chair Professorships:** It is industry and academia outside or within India, as short-term Visiting or Chair Professors, to interact with the students and faculty and seed new activities, particularly in research.
- e) **Enhanced Seed Grant:** Young faculty members, who show potential for research, will be identified and offered enhanced grant to facilitate their research work at MUJ.
- f) **Promotion of Innovation and Entrepreneurship:** Students who show interest in entrepreneurship projects, both at the undergraduate and postgraduate level, will be given necessary grants to promote their innovative ideas.
- g) **High-end research equipment:** high-end research and measurement equipment will be made available to faculty and students to engage in meaningful research.
- h) **Enhanced research scholarships:** In order to attract the best research scholars and strengthen doctoral research work, the PhD Fellowship for full-time external research scholars will be enhanced to be at par with the IITs and Central Universities.
- I) **Scholarships for M.Tech students:** To attract quality M.Tech students, scholarships at par with IITs will be given to all GATE-qualified M.Tech students.
- j) **Scholarships for international students:** to encourage diversity of student intake, international /NRI students will be provided scholarships.



Entrepreneurship Cell (E-cell)

An Entrepreneurship Cell with 500-strong membership has been set up to encourage innovation and entrepreneurship among students. Entrepreneurship as an optional Major Project in B.Tech (Final Year) was introduced in 2015-16. One student has taken advantage of it by incubating 'Martopolis.com'. Lab space is provided to these start-ups.

A Satellite Centre of the Manipal University Technology Business Incubator (MUTBI) is functional on MUJ Campus and the following start-ups are registered through it.

- First company incubated: 'The Smart Techies(P) Ltd' Jaipur
- Also incubated 'Piltover Technologies Pvt Ltd.'
- One more startup 'Saathi' is under consideration

The major events held under E-cell are as follows:

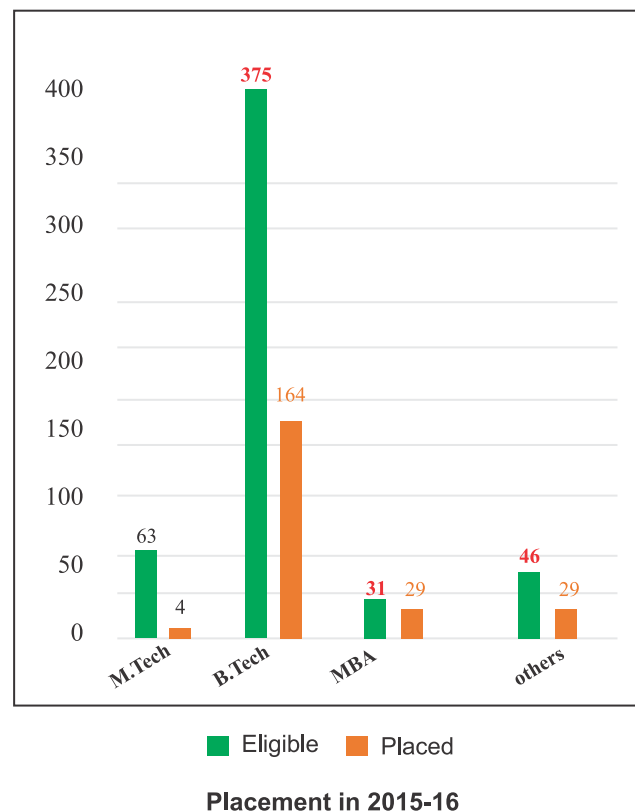
- Intel Ideation Workshop conducted both for faculty and students
- Entrepreneurship Awareness Camp conducted
- Educational visit to Startup Oasis, Jaipur
- Invited talks and Extension lectures
- E-Conclave 2016 and National Workshop on IPR and GI

Achievements by students in various off-campus events

- 1st position in B-Plan and Case Study competition at JNIT, Jaipur
- 2nd Prize in B-Plan competition at LNMIIT, Jaipur
- Finalist in National Entrepreneurship Challenge at IITB
- In top 12 teams of Crowd pitching competition of IITB
- In top 5 teams of Udaipur Startup Festival

Training and Placement

Around 50 companies took part in placement of students in 2015-16, at MUJ and for pooled campus outside MUJ. Some of the major companies which hired our students were Directi, Amazon, Dell, Sapient, Metacube, Asahi India Glass, IBM, TCS, etc. The highest package offered was Rs. 14.22 lakhs per annum from Directi for a B.Tech (CSE) student and the average was Rs. 4.98 per annum.



The complete list of companies is given below:

On-Campus

Sapient | Secure Meters | NSE Infotech | Eurovision | Gravita | Dell | Think and Learn | Abyeti Technologies | Cruise Line Foundation | IBM | TCS | Vodafone | Idea Cellular | Genpact | Airtel | ICICI BANK | Club Mahindra | Directi | Asahi India Glass | Mettl

Off-Campus

Amazon | Drishti Soft | Act21 Software | Infoway Tech | Magic Pin | Puzzolana | Trignodev | AT Drive | Mphasis | Persistent | NIIT Technologies | ZS Associates | IC Labs | Fantek | Tayana | Cadence | Startup Labs | Metacube | Short Formats | Faraye | Lead Square | Quantis Tech | Customized Tech | Josh Technology | Naggaro

Faculty Development Programmes

The following programmes and training were conducted for the benefit of faculty

- Induction Training was conducted for new faculty in August 2016
- FDPs were also conducted on 'Pedagogy and Professional Development' by faculty from Manipal University
- Many faculty members successfully undertook MOOC / NPTEL courses. These were supported through the faculty members' Professional Development Allowance
- Synergic Manipal Integrated Leadership Engagement' (SMILE) programme was initiated for enhancing leadership capabilities of senior faculty. 22 faculty members have benefited from this programme this year
- Open Houses were conducted with faculty, students and staff, separately, to encourage, discuss and promote their ideas.
- Many other faculty development programmes in teaching, learning & research were conducted throughout the year.



Societal Connect

- Green and Swachh Bharat drive was done in the nearby village
- Dispensary for the welfare of local people is operational
- Many Interaction Programmes with Celebrities were organized
- Job opportunities have been given to local people in Projects and regular jobs
- Scholarships and financial support has been made available for local students
- Literacy drive is undertaken for local villagers
- Legal aid Awareness Programme was held for the benefit of the villagers
- Road infrastructure development and Road Safety Awareness drive was held for the benefit of local people



Sports

The following indoor and outdoor Sports facilities are now available in the campus:

- Standard Turf Pitch Cricket field
- Four Basket-Ball Courts
- Four synthetic Tennis Courts
- Four Volley Ball Courts with AstroTurf Flooring
- Four Squash Courts under construction
- A lush green Football Ground
- Athletics track
- Badminton Court
- Table-Tennis Tables
- Modern Gymnasium, Sauna and Jacuzzi

Regular Sports activities are organized for students and staff. The list given below is indicative only:

- MUJ sports festival 'Abhivarta' was held during Feb 12-13, 2016.
- Inter-branch competitions were held for all major indoor and outdoor sports, for both students and staff
- Students participated in various competitions organized by different universities & Association of Indian Universities and won many prizes
- Yoga training, meditation and Aerobic classes were frequently held
- An Open Elective course on 'Physical Health and Sport Education' has been offered to students in the even semester 2015-2016.



University Hostels

1. General

The hostels at Manipal University Jaipur provide suitable accommodation for both male and female students. The student housing is provided by Manipal Integrated Services (MIS) under their Hostel brand “Yoho” (short for YOUTH HOSTELS), located across the street from the University campus. Yoho provides bespoke hostel facilities for students, by creating a living experience for the students which is safe, smart, convenient and fun. The infrastructure and facilities within the hostel campus match or even beat most of the international housing campuses. All the students are provided with wooden beds, mattresses, pillows, side table, study table, chair, curtains and an individual wooden cupboard. A comfortable temperature is maintained in all the rooms by a centralised HVAC system. All the rooms have attached washrooms with hot and cold water facility. All hostel blocks are fully Wi-Fi zones.

We strongly recommend and encourage students to go for hostel accommodation and enjoy sharing quality time with their friends and fellow students. This enriches both their personal and educational exposure. The hostel provides safe and very comfortable environment both inside and outside the rooms. Fun activities are held from time to time within the hostel campus for the residents.

2. **Hostels** Presently, there are 07 hostel blocks for boy students and hostel block for girl students. B1, B2 and B3 blocks 03 for boys and G1 is for girls. These hostel blocks are spread over 30 acres of land. Each hostel block has a warden, who is supported by a team of caretakers, security, housekeeping and maintenance staff. Presently our hostel houses around 2500 students. The Chief Warden, Mr. Anil Sing, is in overall charge of the Hostels.
3. **Common Facilities** Besides the comfortable and well planned rooms, the hostel campus also offers a variety of facilities like shopping, food and other conveniences. There are North Indian and Chinese

restaurants within the hostel campus. Also, students can pamper their taste buds by going to other eating joints available in the campus, like the Airtel Kiosk, Saras Dairy, Departmental Store, Stationery Shop, Gift Shop, Bakery, etc. There is a well-equipped Gym and many dedicated sports courts areas for Volleyball, Basketball, and Badminton, etc.

A new **Gym** has been provisioned on 2nd Floor of the new food court in the hostel. This Gym is one of its kind in Jaipur and around. It has ultramodern facilities and equipment, separate steam and sauna bath for boys and girls and a well-qualified coach and his staff for proper guidance and training. Similarly, the **laundry** provisioned in the hostel gives an international experience to students. All the machines are of international standards and commissioned in such a way that students feel happy to do their own laundry. Also there is a laundry service available on payment basis in the hostel, but students are encouraged to do their own chores.

4. **Food Courts** There are two food courts for students, which can cater to approximately 5000 students at a time. Chef on Wheels, a sister undertaking of MIS, runs these food courts. The meticulously planned and well maintained student food court serves delicious, hygienic and healthy vegetarian and non-vegetarian food that covers International and Indian cuisine at very reasonable prices. Keeping in mind that students come from different parts of country, Chef on Wheels ensures that the mess menu includes delicacies from all parts of country. Students also contribute towards betterment of services by sharing their inputs through a Students' mess committee.
5. **Guest Houses for Parents** Recognising the need of parents/guardians to spend a few days with their children, a very well laid out guest house facility is located conveniently within the hostel campus, at a fraction of the cost of a hotel. The guest house is supported by a 24X7 reception team.

The team managing the hostels has a strong track record in property management with years of experience in the student sector. But it is the level and quality of our service which sets us apart from regular hostel services. We bring a flexible, professional and student-focused approach to the hostels.

YoHo at Manipal University Jaipur justifies a paradigm shift in student living culture. It has transformed the idea of student living by adding both tangible and intangible value in the life of a student. We encourage students to be on campus and engage in campus life, help develop new and unique student leadership opportunities, conduct Student Outreach and Support programmes and continuously identify prospective and current student needs. We are committed to student safety and encourage health & wellness initiatives.

Yoho Highlights

- Land area of approx. 57 Acres
- Built up area 11,47, 202 Sq. ft
- Student capacity of more than 5000
- 7 Boys hostels and 3 Girls hostels
- 38 Rooms/Suites for Parents/Guests
- Hostel area has its own power backup, STP & WTP
- 5 Ponds have been built for Water Conservation, with the biggest having a capacity of 13 lakh litres
- All built-up spaces are centrally air-conditioned
- Medical facility with 24x7 Ambulance in place
- Separate fee is charged for hostels
- Food Court and Restaurants
- Gymnasium, Sauna and Jacuzzi
- Commercial areas (Grocery, Travel, Book shops etc..)
- Fully automated Launderette
- Wi-Fi connectivity provided in the Hostel area
- Student Activity Area, with TV facility available
- Easy access, through lifts for differently-abled students
- IP based CCTV cameras for Security
- Managed by Chief Warden, Wardens, Caretaker and other staff
- Services to the hostels and their maintenance & security is provided by MIS



IT Resources

Hardware

- Servers – Physical as well as Cloud based
- About 870 Desktop Computers and 4900+ Laptops
- 150 High End LCD Projectors
- Supercomputer Param Shavak from CDAC
- Cisco Switches: 110 L2, 7 L3 and 6500 Core switch
- Firewall and Routers
- 120 Printers, Plotters, 3D Printers, Colour Laser Printers
- Scanners, Photocopiers
- Audio Visual Systems
- Video Conferencing system
- 5 Intelligent Interactive Panels, 84” Screens
- 35 Smart video phones and 500 IP phones
- 600+ CCTV cameras

Software

- Around 57 licensed software and 20+ open source Tools
- Microsoft volume licensing subscriber
- Unix, Linux, Fedora, Microsoft OS, MacOS
- Easylib for Library, with EPAC tool
- Mycampusdays.com for Hostel management
- YOHO for hostel access and registration
- Relyon for payrolls and Tally for accounting
- AMS for academic management
- Microsoft Dynamics NAV based Integrated ERP solution for Finance, Admissions, Examinations, Training & Placement and Purchase (under development)
- MHRD supported QEEE system based on A-View

Services

- Wi-fi bandwidth of 480 Mbps, from ISPs Tata, BSNL, Reliance
- 1 Gbps CAT 6 Intranet
- Central Computing Facility
- MHRD's QEEE Infrastructure
- Microsoft Exchange Mail Servers
- Wi-Fi facility throughout the campus
- Website hosting all University details

- Library access
- Complaint resolution and maintenance
- Security through CCTV cameras
- Video Conferencing
- State of the art website - hosted on Amazon Cloud, designed using Adobe CQ and AEM
- Virtual Classroom (under process)



Library – the Learning Resource Center

Physical Infrastructure: The MUJ Libraries, comprising of the Central Library, the Law Library and the Faculty of Design Library have a total area of 1838 Sq m, with 284 Seating capacity and Reading, self-study and group study spaces of 350 sq m. In addition, there are 60 cubicles for self-study, 8 rooms for group study and discussion, 22 computers for library users and one Reprographic machine. Some Schools/Departments also maintain separate libraries. The Libraries are

manned by a staff of eighteen persons, as given under.

Supports and Services: The Library provides the following services and support to its readers: Access through EasyLib software, Online Journals & E-books, Reprographic facilities, Reference section, Complete NPTEL web and video based courses, Book Fairs for the benefit of students and staff, Library orientation programmes and extended timings during examination periods. Students are permitted to carry laptops inside the library.

The holdings in the Library are given below:

S.No.	Name of library	Total No. of Titles	Total No. of Volumes	Total No. National Journals (Print)
1.	Faculty of Engineering	4320	22845	84
2.	Faculty of Science	337	935	62
3.	Faculty of Arts & Law	460	4034	05
4.	Faculty of Management	2117	5022	19
5.	Faculty of Design	1658	3350	14
Total		8892	36186	184

E-books: 471

Magazines (Print) 79

E- Resources 18 Databases/15381 Online Journals

FoE

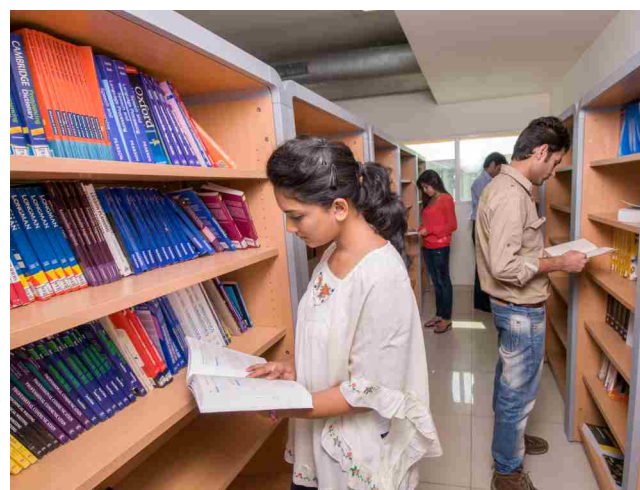
1. IEL Online
2. ASME (The American Society of Mechanical Engineers)
3. ASCE (American Society of Civil Engineers)
4. ASTM (American Society for Testing and Materials)
5. McGraw Hill Engineering
6. Science Direct- Engineering & Computer Science (under process)
7. DELNET ProQuest Engineering/Technology Collection
8. DELNET Infotrac Engineering Science & Technology

Management

1. EBSCO- Business Source Elite – Plus
2. ProQuest
3. Ivey Cases
4. Ace Equity

Hotel Management

1. EBSCO – Hospitality & Tourism



MOUs Signed in 2015-16

International

The following list show the Memoranda of Understanding signed this year and the scope of their agreement :

1. **National Education Foundation (NEF) Washington DC in August 2015**
 - Enhancement of employability and industry suitability of students
2. **T&R Consulting Pvt Ltd, Australia in September 2015**
 - Continuing Professional Education Program Skill Development
 - Internship Programs for Students
 - Faculty Development Program
 - Faculty Exchange Program
 - Hosting Webinars and Seminars
 - Campus Recruitment & Careers International
 - Smart Varsity Solutions
 - Value added programs
3. **Hochschule Bremen University, Germany in \ October 2015**
 - Exchange of teaching and research staff
 - Exchange of administrative and other professional staff
 - Development of credit transfer or double degree options
 - Collaboration in research projects
 - Exchange of academic publication, data & information
4. **M/s EdGate Technologies Pvt Ltd, Bangalore, University Program Partner of Texas Instruments, India in October 2015**
 - Setting up of lab and provide initial training and learning materials
 - Explore ways to introduce lab based course using Texas instruments
 - Help faculty in teaching Analog Attached & Analog Teaching Lab
5. **Electronic & Computer Engineering Division, Ngee Ann Polytechnic, Singapore in October 2015**
 - Exchange of students/faculty members & researchers
 - Sharing of information and academic resources
 - Conducting activities such as collaborative research, joint symposia and exchange lecturers
6. **University of Missouri- Kansas City (UMKC) in January 2016**
 - Joint research and educational activities at both the undergraduate and postgraduate levels
 - Exchange of invitations to scholars to participate in lectures, conferences and symposia
 - Exchange of faculty, staff and research personnel for study and research
 - Exchange of postgraduate and undergraduate students
7. **L'Ecole Bleue School of Global Design, Paris, France in January 2016**
 - Exchanges of faculty, researchers and students
 - Develop joint research projects and promote a broad range of scholarly and educational exchange
8. **Association of Chartered Certified Accountants (ACCA) U. K. in February 2016**
 - Enable students to inculcate the finance and business intelligence which the employers look forward and to develop the Skills for tomorrow
9. **International Skills Development Corporation (ISDC) in February 2016**
 - To develop, promote and deliver B Com (Hons) in accounting incorporating ACCA curriculum
10. **Plymouth University's CogNovo UK - on (18.04.2016)**
 - Multinational doctoral training programme that offers research training in cognitive innovation, both as a new field of scientific investigation and as a strategy for research and innovation.
11. **Szechneyi Istvan University, Győr, Hungary in May 2016**
 - Exchange of scientific experience in the areas of common interest on the basis of invitation of faculty to departmental programmes to give lectures
 - Exchange of experience with regard to the development of B.Sc, M.Sc and PhD and other educational exchange programmes

12. **ESTACA – Ecole Superieure des Techniques Aeronautiques et de Construction Automobile, France in May 2016**
- Exchange of students from each party and exchange of academic personnel for teaching / research
 - Organization of joint seminars and conferences, hosting of visiting faculty from the other party and for exchange of academic program materials
 - Development of joint research and publications
13. **CESI, France, - n+I Group in July 2016**
- Establish and encourage mutually beneficial scientific, technological, educational and other relations
 - Placement opportunities in specific research projects
 - Exchange of students and faculty for the purpose of research and teaching
- National**
1. **JCB Jaipur - on (14.10.2015)**
- Learning needs of JCB employees and automobile engineering students by utilizing value stream transformation methods and lean six sigma body of knowledge.
2. **M/s EdGate Technologies Pvt Ltd, Bangalore, University Program Partner of Texas Instruments, India - on (21.10.2015)**
- Setting up of lab and provide initial training & learning materials for utilisation of lab.
 - Explore ways to introduce lab based course using Texas instruments.
 - Help faculty in teaching Analog Attached & Analog Teaching Lab.
3. **EDS Technologies Pvt. Ltd (EDST), Bangalore – on (15.12.2015)**
- To jointly promote Dassault Systems V6 Software solutions and help MUJ to achieve academic excellence.
4. **Dassault Systems India Private Limited New Delhi. – on (15.12.2015)**
- To jointly promote Dassault Systems V6 Software solutions and help MUJ to achieve academic excellence.
5. **Manipal City & Guilds Pvt Ltd - on (20.01.2016)**
- Imparting skill based training to the students of MUJ on Tourism and Hospitality sector.
6. **Ayushraj Enterprises Pvt Ltd, Jaipur - on (25.01.2016)**
- Promote joint Research activities and exchange programme/ activities for faculty and students.
7. **Net metering inter connection, SE (JPDC) JVVNL Jaipur – on (28.04.2016)**
- To provide grid connectivity electricity generated from SPV plant.
8. **Centre for Development of Advance Computing (CDAC) Pune - on (16.06.2016)**
- Collaborative Master's programmes in software Architecture, Networking and Embedded System.
 - Exchange expertise in designing and formulating course structure.
10. **Bosch Limited – on (21.06.2016)**
- Establishment of joint training centre for students and joint certification program to cover Jaipur.
 - Will act as the bridge to address the technologies gap and focus on various technical training programme for Bosch network.



RESEARCH

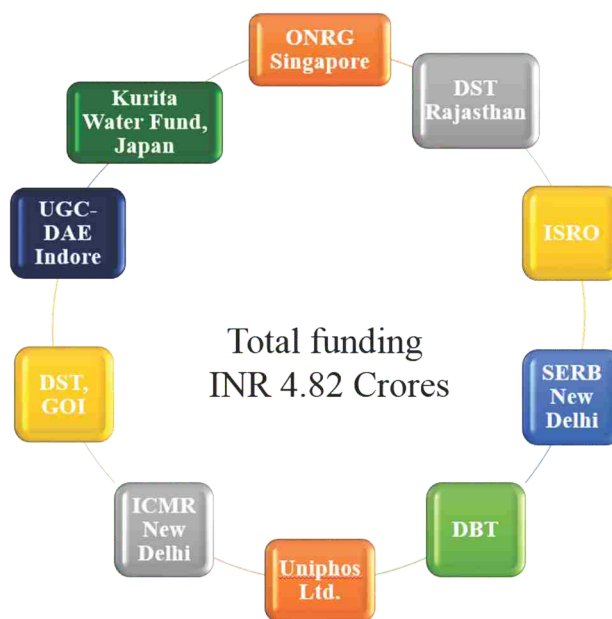
III

Thrust Areas of Research



Sponsored Research Projects

External Funding Agencies



Consultancy
Projects worth
around INR 83
Lakhs are also
in place
from USAID,
CRISIL, JCB and
ADB, JDA, IL&FS

Consultancy Projects

Name of Faculty	Consultancy Firm /Funding agency	Project Title & Duration	Amount
Prof. Anil Dutt Vyas	Asian Dev. Bank through RUIDP	Water & Sanitation studies in Rajasthan towns; April 2016 to March 2017	50 Lakh

External Research Projects

PI & Co-PI	Title of Project & Duration	Funding Agency	Amount
Prof Lalita Ledwani, A D Vyas & Dr Pushpendra Kr	Water sector Grant; 1 Year	Kurita Water Environment Fund, Japan	300,000 Yen
Dr Abhijeet Singh & Dr Madan Mohan Sharma	Targeted delivery of dexamethasone-encapsulating PLGA nanoparticles to treat neuronal inflammations: A hallmark of neurodegenerative disorders; 3 Years	DST, Rajasthan	Rs.16,06,200/-
Mr. Ankit Chokriwal	Screening, isolation and identification of carotenoid producing bacteria along with biomimetic synthesis of silver nanoparticles by optimizing physico-cultural conditions and their biomedical applications; 3 Years	ICMR for award of SRF	12,69,600/-
Dr. Manish	Development of conformationally intact immunogen against malaria; 3 Years	SERB-DST-GOI	22,91,200/-
Dr Shikha Jain & Dr Lalita Ledwani	Production of mycosporine like amino (MAAs) from Cyanobacteria isolated from the hypersaline environments; 3 Years"	DST- GOI	32,03000/-
Dr Anupam Sharma & Dr Ramjanai Chaudhary	In- situ Exchange Bias study of magnetic nanocaps deposited onto self-assembled polystyrene nanospheres"; 3 Years	UGC-DAE Consortium for Scientific Research- Indore	2,46,600/-
Dr Monika Sogani, Dr Meena Kumari Sharma & A D Vyas	Enhanced biodegradation of organic pollutants as well as micro-pollutants; 3 Years	SERB, DST,GOI	Rs. 45,000,00

Principal Investigator (PI)	Co-PI (If any)	Area of Project	Funding Agency	Amount In INR
Dr. Lalita Ledwani	A D Vyas, Dr Pushendra Kr	Water sector Grant	Kurita Water Environment Fund, Japan	3,00,000 Yen
Dr Abhijeet Singh	Dr MM Sharma	Dexamethasone-encapsulating PLGA nanoparticles	DST, Rajasthan	Rs.20,86,200/-
Dr. AK Sinha	NA	Hydrogeomorphometry of the Martian Surface	ISRO	Rs. 16,25,180
Dr. Sandeep Srivastava	NA	Multi-drug resistance	DBT	Rs. 67,00,000
Mr. Ankit Chokriwal	NA	Synthesis of silver nanoparticles in biomedical applications	ICMR (SRF)	Rs. 12,69,600/-
Dr. Manish	NA	Development of conformationally intact immunogen against malaria	DST, New Delhi	Rs. 22,91,200/-
Dr Monika Sogani	Dr Meena Sharma, Mr. A D Vyas	Enhanced biodegradation of organic pollutants as well as micro-pollutants	SERB, DST, GOI	Rs. 45,00,000 /-
Dr. Anupam Sharma	Dr. Ramjanai Chaudhary	In situ exchange bias study of magnetic nanocaps deposited onto self assembled polystyrene nanospheres.	UGC-DAE, Indore	Rs. 2,46,600/-
Dr. Abhishek Sharma	SRICT, Gujarat	Municipal solid waste conversion to fuel & energy	Uniphous Ltd.	Rs. 46,62,000
Dr. Anil Kumar	NA	Thermionic sheet beam electron gun design	SERB	Rs. 32,78,000

The following scholars have successfully completed PhD :

Name	Faculty	Department	Supervisor & Co-supervisor
Ms. Jyotika Sharma	F o A&L	Psychology	Prof. Geetika Tankha
Col. Sanjeev Tomar	FoE	ECE	Prof. Ajay Kumar
Ms. Shabori Bhattacharya	FoS	Chemistry	Prof. Lalita Ledwani
Ms. Seema Dahil	FoS	Chemistry	Dr. Tanmoy Chakraborty & Dr. P.J. John

Registered Research Scholars in Academic Session 2015-16

Name	Full Time	Part Time	Total
Faculty of Arts & Law	5	17	22
Faculty of Design	0	1	01
Faculty of Engineering	1	19	20
Faculty of Management & Commerce	2	12	14
Faculty of Science	4	7	11
Total	12	56	68

Seed Money Research Projects

Investigator (PI or Co-PI)	Title of Project	Total Project Fund Rs.
Dr Sanchita Bandyopadhyay Ghosh	Cellulose Nano fibre Reinforced Bioactive Foam Scaffold for Biomedical Applications	1,00,000/-
Dr Subrata Bandhu Ghosh	A Sustainable Approach Development of High Performance Bio-nan composite Film from Renewable Feedstock	1,00,000/-
Dr Ram Dayal	Discrete particle modelling for thermodynamic analysis of sintering of metal	1,00,000/-
Mr Jaiveer Singh	Development of Degradable Metallic Foam Composite for Bone Tissue Engineering	1,00,000/-
Mr Ashish Goyal	Investigation of the effects of cryogenic treatment on machining of super alloy using WEDM by Taugchi's DoE	1,00,000/-
Dr Pushpendra Kumar	“Synthesis and Characterization of Si nanoparticles from Electrochemically prepared Porous Silicon”	1,00,000

Special Facilities

MUJ has collaborated with Industry and established the following Centres in the academic session 2015-16, for enhancing teaching-learning and research. These are given below:

1. Siemens PLC control and automation lab in Electrical Engineering
2. Bosch skill centre in Automobile Engineering
3. Bosch-Rexroth Sensoric lab in Mechatronics
4. Industry class CATIA Center with Dassault Systems in Mechanical Engineering
5. Semiconductor Fab lab in Electronics
6. High Performance Parallel Computing facility from CDAC
7. Nvidia CUDA Teaching Centre
8. INDAG Centre for rubber nano-composites development and
9. Naval International supported corrosion-resistant coatings lab.



**ACADEMIC FACULTIES/
SCHOOLS / DEPARTMENTS**

IV

Faculty of Engineering

School of Automobile, Mechanical & Mechatronics

The School of Automobile, Mechanical & Mechatronics Engineering (SAMM) is instituted with a well-defined vision of achieving international repute in education, training and research in the core and allied fields of Mechanical, Automobile and Mechatronics Engineering. The school offers basic and advanced training programs to its students and exposes them to related research in contemporary and futuristic technologies, by way of continual improvement and consistent innovation in material and intellectual infrastructure.

Department of Automobile Engineering

The department of Automobile Engineering is equipped with state-of-the-art facilities wherein students “learn by doing”. Our B. Tech curriculum has been kept updated to meet Automotive Sector Council's requirements for engineers entering R&D, Sales Engineering, Service Engineering or Automobile Manufacturing functions. Our capstone final semester internship project is based on Lean Six Sigma methodology that is used extensively in automobile OEM and ancillary industries. The department is well equipped with laboratories such as, automobile engine assembly and disassembly, IC Engine testing, automobile transmission, and automotive electrical & electronics systems, CAD/CAM/CAE labs. Software packages available include Creo (Pro-E), ANSYS, Minitab, AutoCAD

Discovery for faculty and aspiring students to pursue their research and project work in automobile engineering.

Academics Programs with intake

B.Tech (Automobile Engineering), 60 students per/academic year

New initiatives

Bosch and MUJ Joint Certification Centre

Bosch Ltd, in collaboration with MUJ, launched a training centre located in the Department. The Joint Certification Centre was set up in April, 2016. Spread across 2000 sq. ft., and has been set up to provide quality training to students. Bosch Service centre and Dealership Technicians will impart training in areas of diesel systems, gasoline systems, diagnostics and auto electrical, Automobile Air Condition and Climate Control.

JCB and MUJ MoU

JCB Jaipur and Automobile Engineering Department MUJ agreed to collaborate for further learning needs of JCB employees and Automobile Engineering students by utilizing value stream transformation methods and Lean Six Sigma body of knowledge, led by Prof. Rajesh Solanki, HoD as Principal Consultant and Co-Consultant, Dr. Rachna Ganwar, Associate Professor, TSB. It was signed in October 2015.



Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Prof. Rajesh Solanki	Associate Professor & Head	Lean Six Sigma (DMAIC), DFSS, Lean Mfg.
2.	Dr. Aparna Pareek	Associate Professor	Material science and metallurgy, Manufacturing materials, Surface and interface science
3.	Dr. Kamlesh Kumar	Associate Professor	Polymer Science, Liquid Crystal Materials, Micro- and nanostructured materials
4.	Mr. Upendra Kulshrestha	Assistant Professor	Fault Diagnosis & trouble shooting, Service & Maintenance C Engine, Rubber Science Tech.
5.	Mr. Satish Namdev	Assistant Professor	Kinetic & Dynamics of Automobiles, Strength of Materials, Vehicle Maintenance
6.	Mr. Dharmesh Yadav	Assistant Professor	Transmission Systems, Chassis Systems Automobile Air Conditioning
7.	Mr. Yogesh Bhatshwar	Assistant Professor	Hybrid Electric Vehicle, Automotive Electronics Microcontrollers for Automotive Systems
8.	Mr. Dalip Singh	Assistant Professor	Automobile engineering, Corrosion prevention metal oxide coatings.
9.	Mr. Rakesh Kumar	Assistant Professor	Automobile design, IC engines, Advanced Production Sys,
10.	Mr. Ashu Yadav	Assistant Professor	Automobile Design, Advanced Mechanics of Solids, Strength of Materials,
11.	Mr. Pankaj Sen	Assistant Professor	Noise, Vibration & Harshness, Finite Element Analysis, Strength of Material,
12.	Mr. Binay Kumar Rajak	Assistant Professor	Industrial Engineering, Operation Research, Quality Engineering,
13.	Mr. Vinoth R Agarvas	Assistant Professor	IC Engines, Alternative Fuels, Thermal Sciences

**Extension Activities: Conferences/ Seminar/
Workshop organized**

1. Team Vortex organized Two Days Workshop on “Robot with Intelligence” in collaboration with Kyrian Digital Securities, (17&18th Oct. 2015)
2. Auto Show 2015, (30 & 31st Oct. 2015)
3. Road Safety Awareness Program Safety, Safety Awareness campaign at Ajmer Highway toll booths. (28th Nov. 2015)
4. Road Safety Week “Ekjut Sansthan” Theater play “Aaropi Hazir Ho” (22nd Jan. 2016)
5. Workshop on Computer Integrated Manufacturing at BSDC, (3rd Feb. 2016)
6. Bosch Workshop: (4th Feb. 2016)
7. Single stage RALLY SPRINT was conducted during Techideate on March 12, 2016.

Visitors /Invited Lectures

1. SAE Lecture on Silent Cabin was conducted by Mr. Sameer Srivastava, Manager Interior Trim & NVH

System, on from Maruti Suzuki Gurgaon on India. 25th September, 2015.

2. Expert Lecture on “Trends in Automotive Industries” by Mr. Maruti Khaire, “General Manager, Research & Development Technology Functions, National Engineering Industries Limited”, 7th October, 2015.
3. Invited talk on “Reliability Engineering and Research” by Prof. Om Prakash Yadav, Professor and HoD, Industrial and Quality Engineering Department, North Dakota State University, Fargo, North Dakota, USA, 16th December, 2015.
4. Expert Lecture on “5S and Problem Solving Methods at Mahindra & Mahindra Tractors”. 28th Apr. 2016. By Mr. Praveen Sharma & Ms. Rashi.

Publication in International Journals

1. Binay Kumar Rajak, "Value analysis of Rack & Pinion" International journal of Scientific Research (IJSR), Page 193-195, ISSN No. 2277-8179,

- Volume-4, Issue-8, Aug-2015
2. Ashu Yadav, Manoj Kumar Yadav, Bijender Saini, "Experimental Analysis Of Mechanical Properties of Al6063 And SiC Composite" International Journal of Mechanical and Industrial Technology Vol. 3, Issue 1, ISSN 2348-7593, pp 221-227, Sept.-2015.
 3. Y.K. Bhatshvar & H.D. Mathur, "Two Stage Optimized Fuzzy Controlled Multi-Area System for AGC in Smart Grid Age", Procedia Technology, Vol. 21, pp. 381-385, Nov, 2015.
 4. Kamlesh Kumar, Albertus P. H. J. Schenning, Dirk J. Broer, and Danqing Liu, Regulating the modulus of a chiral liquid crystal polymer network by light, Soft Matter, 2016, 12, 3196-3201, Feb 2016.
 5. Y.K. Bhatshvar & H.D. Mathur, "Power Frequency Oscillation Suppression using Two-Stage Optimized Fuzzy logic Controller for Multi-Generation System", Advances in Fuzzy System, pp 1-13, Vol. 2016, Mar. 2016.
 6. Kamlesh Kumar, Michael G. Debije, Christopher Knie, David Bléger, Mark A. Peletier, Heiner Friedrich, Stefan Hecht, Dirk J. Broer, and Albertus P. H. J. Schenning, A Chaotic Self-Oscillating Sunlight Driven Polymer Actuator, Nature Communication, doi:10.1038/ncomms11975 July 2016.
- Vinoth R, Vijayakumar S, Manikandan S "Experimental investigation on ZnO coated MG AZ91D alloy and its feasibility in Engine Applications" Accepted Manuscript, Journal of Surface Coatings and Technology, Elsevier 2016.
- International/National Conferences**
1. Y.K. Bhatshvar and H.D.Mathur, "Two Stage Optimized Fuzzy Controlled MultiArea System for AGC in Smart Grid Age", In the proceedings of International Conference on Smart Grid Technologies, August 7-8, 2015, Coimbatore, India.
 2. Kamlesh Kumar, Michael Debije, Albert Schenning, Tuning the stiffness of materials withlight, 13th European Conference on Liquid Crystals, Manchester, UK, 7-11 Sept 2015
 3. Manoj Kumar Yadav, Ashu Yadav, Suresh Kumar "Comparative Investigation of Wear Property of Al6063 and SiC Composite" presented in "International Conference on Advances in Mechanical Engineering (ICAME-2015)", held on October 15-16, 2015 at University College of Engineering, Villupuram.
 4. Vinoth R, "Investigation on the Corrosion Behavior of Magnesium AZ91D alloy coated using ZnO and its Feasibility in Engine Application", International Conference on Advances in Mechanical Engineering, Anna University, Villupuram, Oct 15-16, 2015
 5. Binay Kumar Rajak, A. D. Gupta; "Analysis of abnormal sound of Dieselmex engine using basic quality control tools" presented paper in International Conference on Advances in Mechanical Engineering (ICAME-2015) Organized by Department of Mechanical Engineering, University College of Engineering, Villupuram (A Constituent College of Anna University, Chennai) Kakuppam, Villupuram, Tamil Nadu, India on October ,15-16 2015.
 6. Y.K.Bhatshvar, H.D.Mathur, "Four Step based ACO Optimized Fuzzy Logic Controller for Inter-area Oscillation Control in a Interconnected Power System" , National Conference on Advances in Microelectronics, Instrumentation and Communication (MICOM) , November 20-22, 2015, BITS Pilani, Pilani Campus, Pilani, India.
 7. D Tripathi, Shashi Bhushan, Ashu Yadav "Study of Electromagnetohydrodynamics in presence of Peristaltic Transport" presented in "60th Congress of The Indian Society of Theoretical and Applied Mechanics (An International Conference)" , held on December 16-19, 2015 at Malaviya National Institute of Technology (MNIT) Jaipur.
 8. Yogesh Krishan Bhatshvar, Hitesh Datt Mathur, Houria Siguerdidjane, "Power Frequency Balance in Multi-Generation Smart Grid System with V2G option" 12th IEEE India International conference Indicon, December 17-20, 2015 Jamia Millia Islamia, New Delhi.
 9. Vinoth R, Saatwick Mathur, Anmol Sharma "Performance and Emission Characteristics of Diesel engine fuelled with Ethanol blended Diesel" A review. National Conference on Green Energy,

- Asians Institute of technology, Tonk, Rajasthan Feb 04, 2016.
10. Kamlesh Kumar, Albert Schenning, (2016) Dutch Polymer days, March, 7-8th 2016 Lunteren, The Netherlands.
11. Rakesh Kumar and Anand Pandey, "Electrical Discharge Machining of super Alloys: A review", in the proceedings of IWCEM 2016, 4-6 Jun, 2016, Jaipur, India.

Department of Mechanical Engineering

S.NO.	Name of Faculty	Designation	Specialization
1.	Dr Niti Nipun Sharma	Prof & Dean, FoE	Dynamics, Nano-robotics, MEMS Nanomaterial reinforced Metals
2.	Dr. Anand Pandey	Asso. Prof & HOD	Advanced Manufacturing; Micro Machining; EDM
3.	Dr. D C Agarwal	Professor	Corrosion Eng; Coatings
4.	R A Dubey	Professor	Thermal Sciences, Energy
5.	Dr. Ashok Kumar Sharma	Professor	Manufacturing Performance
6.	Dr. R. K. Gupta	Professor	Reliability Engineering
7.	Dr. Rahul Goyal	Professor	IC engine, Cogeneration, Regeneration system,
8.	Dr. Dharmendra Tripathi	Associate Professor	Bio-Mechanics, CFD, Nano-fluid
9.	Dr. Subrata B Ghosh	Associate Professor	Polymers and composites, Composite micromechanics, Bio-composites
10.	Dr. Sanchita B Ghosh	Associate Professor	Composite materials
11.	Dr. Vinod Singh Yadav	Associate Professor	I C Engines, Alternate Fuels
12.	Mr. Lav Maheshwari	Associate Professor	Thermal sciences
13.	Mr. Santosh Patil	Associate Professor	FEM
14.	Dr. Jaiveer Singh	Assistant Professor	Material Sciences
15.	Mr. Anurag Joshi	Assistant Professor	Production Eng.
16.	Mr. Shashi Bhushan	Assistant Professor	Heat Transfer
17.	Mr. Shyam S Sharma	Assistant Professor	CAD, CAM
18.	Mr. Rishi Choudhary	Assistant Professor	Operation Research
19.	Mr. Vijay S Kumawat	Assistant Professor	Material Sciences
20.	Mr. Ashish Goyal	Assistant Professor	CAM
21.	Mr. Ankur Srivastava	Assistant Professor	Heat Transfer
22.	Mr. Ravindra Jhorar	Assistant Professor	Metallurgy
23.	Mr. Krashn K Dwivedi	Assistant Professor	CAD, CAM
24.	Mr. Somenath Gorai	Assistant Professor	CFD
25.	Mr. Ashish Sharma	Assistant Professor	CFD
26.	Mr. G.S.S. Adithya	Assistant Professor	CAD, CAM
27.	Mr. Abhay Pratap Singh	Assistant Professor	Thermal Sciences
28.	MS. Pooja Singh	Assistant Professor	Thermal Sciences
29.	Mr. Alok Kumar Ansu	Assistant Professor	Heat Transfer
30.	Mr. Rakesh Kumar	Assistant Professor	CAD, CAM
31.	Mr. Rahul Khatri	Assistant Professor	Renewable Energy
32.	Mr. Prashant Shrotriya	Assistant Professor	Thermal Engineering

33.	Mr. Krishnamurti Singh	Assistant Professor	CNC Machining
34.	Mr. Arpit Khandelwal	Assistant Professor	Design Engineering
35.	Ms. Priyanshu Sharma	Assistant Professor	Design Engineering
36.	Mr. Vivek K Barnwal	Assistant Professor	Production Engineering
37.	Mr. Abhishek K Tiwari	Assistant Professor	Orthopaedic Biomechanics, Computational Mechanics

R&D Activities: The following faculty members received Seed Grant of Rs.1,00,000 from MUJ:

Prof. R A Dubey, Development of a heat pipe for extracting geothermal energy

Dr. Subrata B Ghosh, A Sustainable Approach Development of High Performance Bio-nan composite Film from Renewable powders

Dr. Sanchita B Ghosh, Cellulose Nanofibre Reinforced Bioactive Foam Scaffold for Biomedical Applications

Mr. Jaiveer Singh, Development of Degradable Metallic Foam Composite for Bone Tissue Engineering

Mr. Ashish Goyal, Investigation of the effects of cryogenic treatment on machining of super alloy using WEDM by Taguchi's DOE approach

Sponsored /Consultancy Projects undertaken Research Consultancy Project of Rs 30 Lakhs from Indag Rubber Ltd., Himachal Pradesh, received to Dr. Subrata B. Ghosh & Dr. Sanchita B. Ghosh in the area of Nano-Bio composite.

Formation of student chapter:

Institution of Mechanical Engineers (Student Chapter) was formed on 22nd September, 2015

Centre of Excellence:

Department of Mechanical Engineering, in association with Dassault Systems and EDS Technologies Gurgaon established and inaugurated Collaboration Learning & Innovation Centre (CLIC) Center for Excellence for CATIA & ABAQUS software on 15 Dec. 2015.

International Student guided:

Ms. Fernanda Goncalves de Araujo, Bachelor on Production Engineering, Federal University of Sao Joao del Rei, Brazil completed 45 days internship program on Some studies on Materials, Design & Machining process, September- October 2015 supported by IAESTE under guidance of Dr. Anand Pandey, Associate Professor & Head, Mechanical Engineering.

Awards & Fellowships:

Dr. Dharmendra Tripathi, Indian National Academy of Engineering (INAE) Fellowship June 2015 -July 2016 (IIT Kharagpur), under supervision of Prof. Suman Chakraborty

Extension Activities: Conferences/ Seminar/ Workshop organized

1. International Conference & Technology meet on Military & Marine (IWCEM 2016) 4-6 June 2016 at Jaipur.
2. FDP on Futuristic Advancement in Materials and Manufacturing sustainability, 11-16 July 2016 at MUJ.
3. International Symposium on Computational Fluid Dynamics (CFD) was held on December 18, 2015.
4. A Quadcopter workshop was organized from 20th to 22nd September, 2016 in which 102 students participated from different streams of engineering.
5. Student Technical Seminar- STS-2015-16 was organized at MUJ on 22-23 Dec.2015.
6. Training on CATIA software has been conducted for B.Tech students from 5/10/2015 to 17/10/15 for 100 hours in association with EDS Technologies, Gurgaon.
7. A workshop on COMSOL MULTIPHYSICS(R) version 5.1 has been conducted on October 16, 2015 for students and faculties.
8. International Conference on Emerging Technologies from Micro to Nano (ETMN 2015) from 24-25 October 2015.

Visitors/Invited Lectures

1. Ms. Philippa Oldham Head, Manufacturing and Transport vertical, IMechE HQ, London, has delivered a lecture on "Importance of productivity in a manufacturing setup, good processes and efficient utilization of capacity" 21st Jan, 2016.

2. Prof. Prabhat Munshi, Prof. in Mechanical Engg, IIT Kanpur, has delivered a lecture on “Fukushima Disaster: Lessons Learned and The Way Ahead InThe Indian Context” 11th April, 2016.
3. Prof. S. Chakraborty, IIT, Kharagpur, has delivered a lecture on Microfluidics and Nano-fluidics in “Knowledge Dissemination Programme on Microfluidics” March 30, 2016.
4. An Industry Invited Lecture has been taken by Shri C. Narendra , Director & Head, National Productivity Council for students of B.Tech 7th semester on 21 Nov. 2015.
5. An industry invited lecture has been taken by Shri. R. N Saran, Quality Manager, Bosch India Pvt. Ltd. (Jaipur) for students of M.Tech (MET) in 1st semester on 22 Nov. 2015.

Book Published

1. Tanmoy Chakraborty, Prabhat Ranjan, Anand Pandey, Computational Chemistry Methodology in Structural Biology and Materials Sciences, Apple Academic Press, CRC Press, Taylor & Francis Group (In production July 2016)

Book Chapters

1. N.N. Sharma, Ford Lumban Gaol, Jamil Akhtar (Ed.), Proceeding of 2nd International conference on Emarging Technology.-Micro to Nano[ETMN 2015], organized by Manipal University Jaipur, BITS Pilani & CEERI, Pilani. at Manipal University Jaipur, during October 24-25, 2015
2. S. Rathore, N.N. Sharma, Engineering Nanorobots: Past, Present and Future Perspectives, chapter in CRC Concise Encyclopedia on Nanotechnology, CRC Press, Taylor and Francis, Boris Kharisov, Oxana Kharissova and Ubaldo Ortiz-Mendez (Editors), 2015, ISBN: 9781466580343 / 1466580348, pp 816-845.
3. Anand Pandey, Electro-Chemical Process: Review on Research Applications in Machining of Advanced Materials, Research Methodology in Chemical Sciences Experimental and Theoretical Approach, CRC Press, a Taylor & Francis Group, pp. 271-279, 2016 edition (Editors: Dr. Tanmoy Chakraborty & Dr. Lalita Ledwani).

Publication in International Journals

1. Srikant Damodara, N.N. Sharma, “Energy harvesting for Micro/Nano Robots using a Micro Scale Vertical Axis Wind Turbine Farm based on Movement of Fish in

a School”, Computer Society of India, Vol 40, Issue 4, July 2016, PP26-29.

2. Dinesh Kumar & Gupta R K “Parametric and Performance Analysis of Turbojet Engine through MATLAB”. International Journal for Technological Research in Engineering ISSN (Online): 2347 - 4718, Volume 3, Issue 10, June-2016, PP.2653-2657
3. Dinesh Kumar & Gupta R K “Evaluating the Boundary Condition of Turbojet Engine in MATLAB”. International Journal for Technological Research in Engineering ISSN (Online): 2347 - 4718, Volume 3, Issue 10, June-2016, pp.2887-2892
4. Kavita Gambhir & Gupta R K (2016), “2D Nozzle Design Technique In Matlab And Extention Research Using Fdm”. International Journal for Technological Research In Engineering ISSN (Online): 2347 - 4718, Volume 3, Issue 10, June-2016, pp.2880-2886
5. Megha Verma, Jitendra K Katiyar and R K Gupta, “Improvement of Tribology and Mechanical Performance of SU-8 by Boron Nitride as Filler”, 6th International and 27th All India Manufacturing Technology, Design and Research (AIMTDR) Conference, 16th-18th December 2016
6. Rahul Goyal, Dilip Sharma, S. L. Soni, Pradeep Kumar Gupta, Dheeraj Johar, Experimental investigation on latent heat thermal energy storage system for stationary C.I. engine, Applied Thermal Engineering, (Elsevier) 104 (2016) 64-73
7. Rahul Goyal, Arun kumar kulhari, Suveg singh, Enhancement in the performance of thermal radiant cooling system, International Journal of Engineering Sciences & Research Technology, 5(6) June, 2016
8. Dharmendra Tripathi, Shashi Bhushan and O. Anwar Béq, Transverse Magnetic Field Driven Modification in Unsteady Peristaltic Transport with Electrical Double Layer Effects, , Colloids and Surfaces A: Physicochem. Eng. Aspects 506 (2016) 32–39, [Impact Factor: 2.752]
9. Aditya Bandopadhyay, Dharmendra Tripathi and Suman Chakraborty, Electroosmosis-modulated peristaltic transport in microfluidic channels, Physics of Fluids 28 (2016) 052002. [Impact Factor: 2.031]
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 12. Noreen Sher Akbar, Naeem Kazmi, Dharmendra Tripathi, and Nazir Ahmed Mir, Study of heat transfer on physiological driven movement with CNT nanofluids and variable viscosity, *Computer Methods and Programs in Biomedicine*, 136 (2016) 21-29 [Impact Factor: 1.862]
 13. Noreen Sher Akbar, A. Bintul Huda and D. Tripathi, Thermally developing MHD peristaltic transport of nanofluids with velocity and thermal slip effects, *Eur. Phys. J. Plus* (2016) 131: 332. [Impact Factor: 1.521]
 14. Vineet Srivastava, Dharmendra Tripathi, and O. Anwar Bég Numerical Study of Oxygen Diffusion from Capillaries to Tissues with External Force Effects, *Journal of Mechanics in Medicine and Biology*, 17 (2), (2016) 1750027.1-1750027.20 [Impact Factor: 0.797]
 15. Dharmendra Tripathi, Shashi Bhushan and O. Anwar Bég, Analytical Study of Electro-osmosis Modulated Capillary Peristaltic Hemodynamics, *Journal of Mechanics in Medicine and Biology*, *Journal of Mechanics in Medicine and Biology* (2016) Accepted. [Impact Factor: 0.797]
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 17. Dharmendra Tripathi, Shashi Bhushan, O. Anwar Bég and Noreen Sher Akbar, Transient Peristaltic Diffusion of Nanofluids: A Model of Micropumps in Medical Engineering, *Journal of Hydrodynamics, Ser. B* (2016) Accepted [Impact Factor: 0.659]
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 19. D. Tripathi, O. Anwar Bég, PK Gupta, G. Radhakrishnamacharya and J. Mazumdar, DTM Simulation of Peristaltic Viscoelastic Biofluid Flow in Asymmetric Porous Media: A Digestive Transport Model, *Journal of Bionic Engineering*, 12 (2015) 643–655. [Impact Factor: 1.632]
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 23. M.K. Chaube, Dharmendra Tripathi, Osman A. Beg, Shashi Sharma, and Vinay Shankar Pandey, Peristaltic creeping flow of power law physiological fluids through a non-uniform channel with slip effect, *Applied Bionics and Biomechanics*, (2015), Article in Press
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 26. Kuppusamy C. S., Karuppanan, S., and Patil S. S., Buckling Strength of Corroded Pipelines with Interacting Corrosion Defects: Numerical Analysis, *International Journal of Structural Stability and Dynamics*, 16(4), 1550063.

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28. Tripathi, D., Bhushan, S. and Béq, O. A., "Transverse Magnetic Field Driven Modification in Unsteady Peristaltic Transport with Electrical Double Layer Effects", Colloids and Surfaces A: Physicochemical and Engineering Aspects 2016
29. Rakesh Kumar, Dutta "Application of semi-analytical mathematical approach for thermal analysis of convective-radiative fin with variable specific heat" in Journal Perspectives in Science (2016)
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32. Tiwari, A. K., and Kumar N., "A Neural Network Model to Investigate the Effect of Frequency and Time on Loading Induced Osteogenesis", Advanced Problems in Mechanics (Russian Academy of Sciences), Vol. 2016, Page no. 404-411
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35. V. V. Singh, M. C. Rangasai, S. H. Bhosale, and S. B. Ghosh, " Renewable resin precursor & residual filler modified poly (vinyl chloride) foam-investigation of microcellular development and moisture absorption behavior "Polymer-Plastics Technology and Engineering, 54 (12), 2015, 1263-1269.
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38. Gulshan Kumar Ramesh Singh Jaiveer Singh D. Srivastava G.K. Dey I. Samajdar, Defining the stages of annealing in a moderately deformed commercial Zirconium alloy, Journal of Nuclear Materials 466 (2015) 243-252 (2015).
39. Mr Jaiveer Singh G. K. Dey N. Saibaba Prita Pant D. Srivastava I. Samajdar S. Mahesh_ Gulshan Kumar, Deformation Twinning in Zirconium: Direct Experimental Observations and Polycrystal Plasticity Predictions, Metallurgical and Materials Transactions A46 (2015) 5058-5071.
40. Mr Jaiveer Singh G. K. Dey N. Saibaba Prita Pant D. Srivastava I. Samajdar S. Mahesh_ Gulshan Kumar, Texture Development and Plastic Deformation in a Pilgered Zircaloy-4 Tube, Metallurgical and Materials Transactions A46 (2015) 1927-1947.
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International/National Conferences

1. Vijay Kumar, Paridhi Puri, Shivani Nain, K.N. Bhat, N.N.Sharma, "Self assembled monolayers of octadecyltrichlorosilane for dielectric materials", AIP Proceedings 2nd International Conference on Emerging Technologies: Micro to Nano 2015 (ETMN-2015), Vol. 1724, doi: 10.1063/1.494525, April 2016, pp 020131-1–020131-5
2. Supriya Yadav, Robin Joyce, Akash Kumar Sharma, Himani Sharma, Niti Nipun Sharma, Soney Varghese, Jamil Akhtar, "Process sequence optimization for digital microfluidic integration using EWOD technique", AIP Proceedings 2nd International Conference on Emerging Technologies: Micro to Nano 2015 (ETMN-2015), Vol. 1724, doi: 10.1063/1.494520, April 2016, pp 020085-1–020085-4

3. Sachin Belgamwar, U., Niti Nipun Sharma, “Copperphilic carbon nanotubes”, AIP Proceedings 2nd International Conference on Emerging Technologies: Micro to Nano 2015 (ETMN-2015), Vol. 1724, doi: 10.1063/1.494518, April 2016, pp 020065-1–020065-6
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5. R.S. Kotesa, J.S. Rathore, N.N. Sharma, “investigations on a Tapered Flagellated Nanoswimmer Propelling through a Helical Wave”, 8th IEEE International Conference Humanoid, Nanotechnology, Information Technology Communication and Control, Environment and Management (HNICEM), Institute of Electrical and Electronics Engineers Inc. (IEEE) – Philippine Section 9-12 DECEMBER 2015, pp 1-6
6. Anand Pandey, Experimental investigation & optimization of machining parameters of aerospace material using Taguchi's DoE approach, International Conference on Advancements in Aeromechanical Materials for Manufacturing (ICAAMM), 7-9 July, 2016, MLR Institute of Technology, Hyderabad, India.
7. Anand Pandey, Study on Ni-based super alloy using cryogenic treated electrode by Taguchi Methodology, 5th International Conference on Materials Processing & Characterization (ICMPC), Materials today proceeding, Elsevier, 12-13 March 2016, PP.105
8. Rahul Goyal, Dilip Sharma, S. L. Soni, Pradeep Kumar Gupta, Dheeraj Johar, Experimental Optimization of CI Engine Operated Micro-Trigeneration System for Power, Heating and Space Cooling, 14th International Conference on “Sustainable Energy Technologies-SET 2015, 25- 27 of August 2015, Nottingham, UK.
9. Dharmendra Tripathi, Analytical approach to heat transfer and entropy generation analysis of nanofluids flow through ciliated porous medium, *60th Congress (an International Conference) of Indian Society of Theoretical and Applied Mechanics* (i.e., ISTAM 2015) held at MNIT Jaipur, during 16-19 December, 2015.
10. Dharmendra Tripathi, Janak Mulchandani, and Shubham Jhalani, Electrokinetic Transport in Unsteady Flow through Peristaltic Microchannel, “*International Conference On Emerging Technologies: Micro To Nano*” ETMN-2015, October 24-25, 2015 held at Manipal University Jaipur. *AIP Conf. Proc.* 1724, 020043-1–020043-5; doi: 10.1063/1.4945163
11. D Tripathi, Temporal Peristaltic Transport of Nanofluids, “*International Conference on Recent Advances in Mathematical Biology, Analysis and Applications*” (ICMBAA-2015), 4-6 June 2015, Department of Applied Mathematics, Aligarh Muslim University, India
12. D Tripathi, A Numerical Study on MHD Peristaltic Transport in Rheo-Physiology, “*International Conference on Recent Trends in Mathematics*” (ICRTM 2015) organized by the Department of Mathematics, University of Allahabad on July 10-12, 2015.
13. S. B. Ghosh, U. Kulshrestha, and N. N. Sharma, “Investigation of rheological and physical properties of selective carbon black nano-particulate reinforced rubber composites”, International Conference on Nanotechnology & STEM-ER, March, 2016, Aligarh, India.
14. S. B. Ghosh, “Sustainable nanomaterials from nature: a myth or a reality?” International conference on Technological Drift in Mechanical and Automobile Engineering, ICTDMAE-16, February, 2016, Newai, India, (Keynote Speaker).
15. S. B. Ghosh and S. Bandyopadhyay-Ghosh, “Developing high performance structural composites with plastisol modified biobased co-matrix and fillers, coupled with acousto-ultrasonic investigation-an integrated approach”, International Conference on Advancements in Polymeric Materials, APM 2016, February, 2016, Ahmedabad, India (Invited Speaker).
16. S. Bandyopadhyay-Ghosh and S. B. Ghosh, “Fabrication of biobased nanocomposite foam scaffold for bone tissue engineering”, International Conference on Advances in Bioprocess Engineering and Technology, ICABET-16, January, 2016, Kolkata, India.
17. S. B. Ghosh, S. Bandyopadhyay-Ghosh and M. Kumar, “Interconnected micro-channel based implantable bone scaffold using 3d printed fugitive bio-polymeric mould and starch consolidation”, International Conference on Advances in Bioprocess Engineering and Technology, ICABET-16, January, 2016, Kolkata, India

18. S. Bandyopadhyay-Ghosh, and M. Sain, “Hierarchical Synthesis of Cellulose Nanofibres and Its Toxicological Evaluations – A sustainable Approach”, International Conference on Advancements in Polymeric Materials, APM 2016, February, 2016, Ahmedabad, India.
19. S. B. Ghosh and S. Bandyopadhyay-Ghosh, “Developing high performance structural composites with plastisol modified biobased co-matrix and fillers, coupled with acousto-ultrasonic investigation-an integrated approach”, International Conference on Advancements in Polymeric Materials, APM 2016, February, 2016, Ahmedabad, India.
20. S. Bandyopadhyay-Ghosh and S. B. Ghosh, “Fabrication of Biobased Nanocomposite Foam Scaffold for Bone Tissue Engineering”, International Conference on Advances in Bioprocess Engineering and Technology, ICABET-16, January, 2016, Kolkata, India.
21. S. B. Ghosh, S. Bandyopadhyay-Ghosh and M. Kumar, “Interconnected Microchannel Based Implantable Bone Scaffold using 3D Printed Fugitive Biopolymeric Mould and Starch Consolidation”, International Conference on Advances in Bioprocess Engineering and Technology, ICABET-16, January, 2016, Kolkata, India.
22. Dr Ravi Kumar, Anurag Joshi, Umesh Gurnani (2016). Comparison of Roll deformation in 4 Hi Rolling Mill and 20 Hi Rolling Mill due to Thermal Stresses, Overloading, Spalling and Design Parameters. International Journal of Design and Manufacturing Technology (IJDMT), Volume 7, Issue 1, (January-April 2016)
23. Anurag Joshi, Mathematical Analysis of Roll deformation in 4 Hi Rolling Mill and 20 Hi Rolling Mill due to Thermal Stresses, Overloading, Spalling and Design Parameters, International Conference of Marine and Defense (IWCEM 2016) on topic “.” From 4th June 2016 to 6th June 2016 held at Hotel Crowne Plaza Jaipur.
24. Somnath Gorai, “Experimental and Numerical Analysis of Double Layer Micro channel for Microscale Cooling” in 42nd National Conference on Fluid Mechanics and Fluid Power held at NIT Surathkal from 14th-16th Dec, 2015.
25. Vivek Kumar Barnwal, K. Narasimhan, Sushil K Mishra, Asim Tewari, Improvement in formability of AA-6061 aluminum alloy sheet using single point incremental sheet forming process, IWCEM-Jaipur, June 2016.
26. Vivek Kumar Barnwal, K. Narasimhan, Sushil Mishra, Asim Tewari, Large plastic deformation in AA-6061 aluminum alloy using multistep incremental sheet forming, ICEMS-Jaipur, March 2016.



Department of Mechatronics Engineering

The department offers B.Tech degree with an intake of 120 students. In the academic year 2013-14 PhD program has also been added to the department. The objective is to impart state of art knowledge in designing, prototyping and interfacing. To prepare students for project management, analyzing & practical problem solving and also to undertake focused research in the field of automation & controls.

Mechatronics is a multidisciplinary field of engineering with a rich knowledge base formed by various disciplines of engineering. Hence an integrated curriculum is designed

so to provide a broad-based education in the basic principles of electrical, electronics, computing, mechanical and control systems. Such a varied and diverse course is gaining much recognition and importance with every passing day and has become an engineering discipline high on demand. In short, “Mechatronic engineering is the engineering discipline concerned with the research, design, implementation and maintenance of intelligent engineered products and processes enabled by the integration of mechanical, electronic, computer, and software engineering technologies”.

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Dr. Ajay Kumar	Professor, HOD	Nano Electronics
2.	Dr. Ram Dayal	Associate Professor	Thermal Sciences, CFD
3.	Dr. K.K.M Pandey	Assistant Professor-I	Nanoelectronicis
4.	Dr. Amrita Biswas	Assistant Professor-II	Electronics
5.	Mr. Manish Rawat	Assistant Professor-II	Production
6.	Mr. Varun Jurwal	Assistant Professor-II	Manufacturing, Industrial Engineering
7.	Mr. Prabhat Ranjan	Assistant Professor-II	Density Functional Theory, Computational Nanomaterials
8.	Mr. Hemant Kumar	Assistant Professor-II	Energy Engineering, Alternatives Fuels
9.	Mr. Kumar Gaurav	Assistant Professor-II	Water Quality, Chemometrics
10.	Mr. Ashok Kumawat		Control & Instrumentation
11.	Mr. Anil Sharma		Mechatronics, MEMS
12.	Mr. Mohit Jain		Hydropower Plant, Fluid Mechanics, IC Engine
13.	Ms. Princy Randhawa		Control Systems , Instrumentation, Modeling Simulation
14.	O.P.Gujela		Robotics
15.	Mr. Nikhil Shrivias		Autotronics, Mechatronics

Visitors to the Dept/invited lectures:

S.NO.	Date	Invited Lectures	Topic of Lecture
1.	7th March 16	Peter Gorzyza, Director Global and Business Head, Drive and Control, Bosch Rexroth, Germany	Recent trends / Developments in Industry
2.	18th -19th April 2016	Jayant Deo, CEO, DC Automation Pune	PLC and SCADA
3.	30th September 2016	Mr. Ritesh Kumar, Scientist CSIR, Chandigarh	Artificial Intelligence
4.	1st October 2016	Prof. K.Gopinath, IISC Bangalore	Artificial Intelligence
5.	6th October 2016	S.N Joshi, Emeritus Scientist, CEERI, Pilani.	Inauguration of Mechatronics Students Chapter and also lecture given on Microwave tubes

Departmental/Students Activities and Achievements

1. Organized a workshop on “Internet of Things” on 30 - 31 Jan 2016 in association with Robokart.com
2. Organized 2nd International Conference ETMN: Emerging Technologies: Micro to Nano on October 24th -25th 2015.
3. National Colloquium on “Advanced Control & Industrial Automation” in Association with IIT Bombay.
4. Robotics Workshop in collaboration with ARK Techno-solution Bombay. (23rd -25th Feb. 2014)
5. “PCS7-DCS” workshop in collaboration with Prolific Systems & Technologies Pvt. Limited. (24th – 26th Jan. 2015)
6. Mr. Prabhat Ranjan got a grant of Rs 1,00,000 from MUJ on a research project titled as “Computational study of Bi-metallic Nano Engineering materials involving DFT based descriptors.
7. The Department is connected through ARM University Program and got a support of Hardware platforms.
8. Three students from Robotics club won 1st prize in an Inter College/university Project competition held at Malviya National Institute of Technology on 26th October 2015.
9. Inter college competition “ROBO WAR, LINE FOLLOWER and PROTODEV. (Techideate-2014-15).
10. Three students got internship in Germany and Mexico through IAESTE.

Industrial Collaboration

Advance Technology, Chandigarh, a company of Electronics Design & Development (Useful for Students Internship with Live Projects & Knowledge Sharing)

New Lab Development

The Sensoric Lab has been established in the collaboration with Bosch Rexroth Germany

Publications (Journals)

1. Ajay Kumar, Prabhat Ranjan, Seema Dhail, Srujana Venigalla, Lalita Ledwani, Tanmoy Chakraborty, A Theoretical Analysis of Bi-metallic (Cu-Ag)_{n=1-7} Nano Alloy Clusters Invoking DFT Based Descriptors, *Mat. Sci. Pol.*, 33, 719 (2015).
2. Ajay Kumar, Prabhat Ranjan and Tanmoy Chakraborty, Computational Study of AuSi_n (n=1-9) Nanoalloy Clusters Invoking DFT Based Descriptors, *AIP Conf. Proc.*, 1724, 020072 (2016)
3. Ajay Kumar, Prabhat Ranjan, and Tanmoy Chakraborty Theoretical Analysis: Electronic and

- Optical Properties of Gold-Silicon Nanoalloy Clusters, *Mat. Today Proc.*, 3, 1563 (2016)
4. Ajay Kumar, Sanjiv Kumar Tomar Design of a triple band notched UWB planar Monopole, *Journal of Microwave, optoelectronics and Electromagnetic Application*, Vol.-14, No-2, Dec 2015.
5. Ajay Kumar and Sanjiv kumar Tomar, Design of compact Dual band notched UWB Antenna *Microwave Review*, Vol-21, No.2, December 2015.
6. Seema Dhail, Prabhat Ranjan, Tanmoy Chakraborty, Correlation of the Experimental and Theoretical Study of Some Novel 2-Phenazinamine Derivatives in Terms of DFT Based Descriptors, *Crystallizing Ideas- The Role of Chemistry*, Springer International Publishing, Switzerland, ISBN- 978-3319317588, pp. 97 (2016).
7. Kumar Gaurav, Pooja Devi, Baban Kumar S. Bansod, “Study of effect of interferent in the determination of nitrate in water”, *Aquatic Procedia*, Vol. 4, pp. 1094-1098, 2015
8. Princy Randhawa, Concept of operations to system design and development-An integrated system for Aircraft Mission Feasibility Analysis using STK Engine, MATLAB and LABVIEW”, *International Journal of Instrumentation and Control System*, Volume 5, No.4, Oct 2015
9. Ram Dayal, Tatiana Gambaryan-Roisman, A novel numerical method for radiation exchange in granular medium, *Heat and Mass Transfer*, Springer, 2016.
10. Muzamil Bokhari, Ajab Khan Kasi, Jafar Khan Kasi, Om Prakash Gujela, Nitin Afzulpurkar, “Improving Photoelectric Conversion Efficiency Using ZnO/ZnPC Composite Materials”, *Int. J. Nanomanufacturing* (Inder Science Publishers), Vol. 11, pp. 56-63 (2015).

Publications in Conferences

1. Prabhat Ranjan, Ajay Kumar and Tanmoy Chakraborty, Theoretical Analysis: Electronic and Optical Properties of Gold-Silicon Nanoalloy Clusters, *Recent Advances in Nano Science And Technology 2015 (RAINSAT2015)* at CSIR-Central Leather Research Institute and Sathyabama University, Chennai (8th – 10th July 2015).
2. Prabhat Ranjan, Ajay Kumar and Tanmoy Chakraborty, Electronic, Optical and Magnetic Properties of Si doped Au Nanoalloy Cluster, *Virtual Conference on Computational Chemistry 2015 (August 01-31st, 2015)* at University of Mauritius, Mauritius.

3. Prabhat Ranjan, Ajay Kumar and Tanmoy Chakraborty, Computational Study of $AuSi_n$ ($n=1-9$) Nanoalloy Clusters Invoking DFT Based Descriptors, 2nd International Conference on Emerging Technologies: Micro to Nano 2015 (ETMN 2015) at MUJ, 24–25, October, 2015
4. Prabhat Ranjan, Ajay Kumar and Tanmoy Chakraborty, Computational Study of Au_mSi_n ($m+n=2-6$) Nanoalloy Clusters Invoking DFT Based Descriptors, XXVII IUPAP Conference on Computational Physics (CCP 2015) at Indian Institute of Technology, Guwahati, (2-5, December 2015)
5. Prabhat Ranjan, Ajay Kumar and Tanmoy Chakraborty, Computational Study of Bimetallic Silver-Gold, Virtual Winter School on Computational Chemistry (3-9 February, 2016) at University of Mauritius, Mauritius.
6. Prabhat Ranjan, Ajay Kumar and Tanmoy Chakraborty, Computational Study of Au Doped Cu Nano Alloy Clusters, International Conference on Nanoscience and Nanotechnology for Energy Applications (EApp-2016) at Sathyabama University, (27-29, June, 2016).
7. Prabhat Ranjan, Ajay Kumar and Tanmoy Chakraborty, Computational Investigation of Ge Doped Au Nanoalloy Clusters at Amrita University, Bangalore, (14-16, July, 2016).
8. Ashok Kumar Kumawat, Rana, S., Kumawat, A.K., Kumar, P., “Dual output Voltage Differencing Buffered Amplifier based Wave Active Filter”, IEEE UPCon-2015, ISBN: 978-1-4673-8507-7.
9. Anil Sharma Design and Analysis of a Touch Mode MEMS Capacitive Pressure Sensor for IUPC VLSI Society of India and Institute of Technology, Nirma University.
10. Vidhatri Gujela, Om Prakash Gujela, “Simulation of cantilever beam using ANSYS for nano manipulator”, International Conference on Microelectronics, Computing and Communication (MicroCom 2016), Durgapur, India, Jan 23-25, 2016.

Text Book

B. P. Singh, Ajay Kumar and Prabhat Ranjan, Basic Electronics, New Age International Publishers, ISBN-9789385923777 (2016).

PhD completed

Development of Miniaturized Antenna for Ultra Wideband Indoor Wireless Communication System, by Sanjiv Kumar Tomar, under the Guidance of Dr. Ajay Kumar.



School of Civil and Chemical Engineering

Department of Civil Engineering

The School of Civil & Chemical Engineering (SCCE) is instituted with a well-defined vision of achieving international repute in education, training and research in the core and allied fields of Civil & Chemical Engineering. The school offers basic and advanced training programs to its students and exposes them to related research in contemporary and futuristic technologies, by way of continual improvement and consistent innovation in

material and intellectual infrastructure.

The Department of Civil Engineering aims to provide quality education and hence to empower students to handle any position in civil engineering industries, to entrepreneurship and also research in allied areas. The department offers the following UG, PG and a PhD programs.

Sl.No.	Program	Intake
1	B.Tech. Civil Engineering	120
2	M. Tech. Structural Engineering	18
3	M.Tech. Construction Engineering	18

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Prof. A. D. Vyas	Associate Prof & Head	Environmental Engg.
2.	Prof M.K. Mittal	Visiting Professor	Hydraulics
3.	Prof. Raj Kishore Pareek	Professor	Project Management
4.	Prof. K.J. Sharma	Professor	Transportation Engg.
5.	Dr. Nitin Goyal	Associate Professor	Environmental Engg.
6.	Dr. Meena K. Sharma	Associate Professor	Environmental Science
7.	Dr. Monika Sogani	Associate Professor	Environmental Science
8.	Dr. Gaurav Sancheti	Associate Professor	Artificial Intelligence
9.	Col. P. M. Meena	Associate Professor	Concrete Technology
10.	Dr. Tej Bahadur	Associate Professor	Geology
11.	Dr. Harshavardhana B. G.	Assistant Professor	Marine Geology
12.	Dr. Priyansha Mehra	Assistant Professor	Concrete Technology
13.	Mr. Vikram S. Kasyap	Assistant Professor	Structural Engg.
14.	Mr. Firoz Alam Faroque	Assistant Professor	Structural Engg.
15.	Mr. Alok Damare	Assistant Professor	Structural Engg.
16.	Mr. Sourav Kumar Das	Assistant Professor	Structural Engg.
17.	Mr. Rishikesh Kumar	Assistant Professor	Structural Engg.
18.	Mr. Raghuvesh Tiwari	Assistant Professor	Structural Engg.
19.	Mr. Debasnana Jena	Assistant Professor	Structural Engg.
20.	Mr. Sanchit Anand	Assistant Professor	Transportation Engg.
21.	Mr. Sagar Gupta	Assistant Professor	Traffic & Transportation Engg.
22.	Mrs. Meghna Sharma	Assistant Professor	Geotechnical Engg.
23.	Mr. Sri Nagesh M.	Assistant Professor	Environmental Engg.
24.	Mr. Kamal Kumar	Assistant Professor	Structural Engg.
25.	Mr. Rudhra Halder	Assistant Professor	Structural Engg.

IAESTE Research Projects:

- Mr. Lucas Pais is working on Enhancing the Flexural Strength of Concrete by adding human hair as fibres under the guidance of Dr. Gaurav Sancheti.
- Begum Topcu (Yıldız Technical University, Istanbul, Turkey) and Sohaib Malkawi (Jordan University of Science and Technology Irbid, Jordan) have worked on Performance Analysis of the Common Effluent Treatment Plant of Jaipur Integrated Textcraft Park Private Limited, Bagru, Jaipur, under the supervision of Dr. Monika Sogani in 2015.

Research Projects:

- Rupees 40 lakh has been sanctioned by Science and Engineering Research Board (SERB), Department of Science and Technology (DST), New Delhi, to Dr. Monika Sogani [Principal Investigator (PI)] and Co-PIs Prof Anil Dutt Vyas and Dr. Meena K Sharma for their project on Enhanced biodegradation of organic pollutants as well as micro-pollutants like Endocrine Disrupting Compounds (EDCs) from dairy farm wastewater in a single chambered Microbial Fuel Cell for three years from 2016.
- Prof Anil Dutt Vyas was sanctioned a project on Ground Water Contamination around Jaipur City for Rs 2 lakh, by Kurita Water Environment Fund, Japan.

Special Grant:

- Dr. Monika Sogani has obtained Schlumberger Foundation's Faculty for the Future Grant (US \$ 40,000 per annum) for Post Doc Research at University of Cambridge, UK, for 2017-18. She would be working on Industrial wastewater treatment using Microbial fuel Cell Technology targeting toxic micro pollutants and bioactive chemicals.

Consultancies:

- Several consultancy projects have been sanctioned to Prof Anil Dutt Vyas that are listed below.
- Water Sanitation for Urban Poor (WSUP), UK, Andhra Pradesh Govt and United States Agency for International Development (USAID) project sanctioned 2 lacs INR consultancy under Swach Bharat Mission of Govt of India for redrafting the retro fitting manual on toilets – Ongoing
 - USAID through Management Systems International (MSI), USA, sanctioned Rs 28 lakh (Feb 2015 - April 2017) for monitoring & evaluation project on Water and Sanitation in Sudan, Africa – Ongoing.

Faculty Publications:

1. Gune, M., Harshavardhana, B. G., Balakrishna, K., Udayashankar, H. N., Shankar, R. and Manjunatha, B. R. (2016). Rock magnetic finger-printing of soil around a coal-based thermal power plant. *Environmental Monitoring and Assessment*, 188 (5) 272, pp. 1-13.
2. Sharma, M.K., Tyagi, V.K., Saini, G. and Kazmi, A.A., 2016. On-site treatment of source separated domestic wastewater employing anaerobic package system. *Journal of Environmental Chemical Engineering*, 4(1), pp.1209-1216.
3. Sharma, M.K. and Kazmi, A.A., 2016. Performance evaluation of package plant for treatment of single household domestic wastewater. *Water Practice and Technology*, 11(1), pp.1-9.
4. Thomas, B., S., Gupta, R., C., Mehra, P., Kumar, S. (2015). "Performance Of High Strength Rubberized Concrete In Aggressive Environment". *Construction And Building Materials*, 83, 320-326.
5. Mehra, P., Gupta, R., C., Thomas, B., S. (2016). "Properties Of Concrete Containing Jarosite As A Partial Substitute For Fine Aggregate". *Journal of Cleaner Production*, 120, 241-248.
6. Mehra, P., Gupta, R., C., Thomas, B., S. (2016). "Assessment of Durability Characteristics of Cement Concrete Containing Jarosite". *Journal of Cleaner Production*, 119, 59-65.
7. Thomas, B., S., Kumar, S., Mehra, P., Gupta, R., C., Joseph, M., Czetenyi, L. (2016). "Abrasion resistance of sustainable green concrete containing waste tire rubber particles". *Construction And Building Materials*, 124, 906-909.
8. Gupta, R., C., Mehra, P., Thomas, B., S. "Utilization of copper tailing in developing sustainable and durable concrete", accepted for Publication, *Journal of Materials in Civil Engineering*, American Society of Civil Engineers.
9. Sogani, M., Mathur, N. and Bakre, P. P. (2015). Sustainable technology for integrated achievement of bioremediation and bioactive synthesis. *Current Challenges in Drug Discovery Research (CCDDR-2015)*, Malviya National Institute of Technology, Jaipur (India), November 23 -25.
10. Sogani, M., Bakre, P. P., Mathur, N. and Sharma, P. (2016). Isolation, Identification and Characterization of Agrobacterium Species from Soil of Effluent Site of Pharmaceutical Industry for Bioremediation of Amides. *National Seminar on Recent Trends in Chemical Research (NSRTCR 2016)*, Jai Narayan Vyas University, Jodhpur (India), February 5 – 7.

11. Vyas, A. D., Sharma, M. K. and Sogani, M. (2016). Water scarcity and fluoride mitigation in worst affected districts of Rajasthan. National Symposium on Geogenic Contamination of Ground Water, TERI University, 22nd April, 2016.
12. Sharma, M. K., Vyas, A. D. and Sogani, M. (2016). Cost-effective evaluation of different techniques of fluoride removal from drinking water. National Symposium on Geogenic Contamination of Ground Water, TERI University, 22nd April, 2016.

PhD awarded:

1. Dr. Meena K Sharma, on 'Integrated Settler and Anaerobic Filter Based Onsite Sewage Treatment Systems' from Indian Institute of Technology (IIT), Roorkee.
2. Dr. Gaurav Sancheti on 'Artificial Intelligence' from MNIT, Jaipur.
3. Dr. Priyansha Mehra was awarded PhD for her work on 'Use of Jarosite as part replacement of fine aggregates in Concrete and Its effect on Durability' from MNIT Jaipur.

Industrial/ Field visits:

- INFOSYS-Green Building, Jaipur: to get conversant with the Green Building construction, January 21, 2016.
- Bisalpur Dam, Tonk: to study hydraulic structures, on March 10, 2016.
- Durgapura Railway station: to study steel structures on January 15, 2016.
- (CDOS), Jaipur to upgrade Geology Laboratory, MUJ on November 25, 2015.
- Gujarati Mineral Laboratory, Beawar: to upgrade

Geology Laboratory, MUJ on October 3, 2015.

- Second Phase Metro Project site at Durgapura, Jaipur: site visit for M. Tech students on October 15, 2015

Invited Guest Lectures:

1. Mr. Alok Sood, Corporate Resource Person, introduced the Fundamentals of rocks and secondary structures, and their Engineering Application on 22nd and 23rd August 2016.
2. Dr. Sanjay Mathur, Professor, Dept of Civil Engineering, MNIT, Jaipur, lectured on Green Building on April 26, 2016.
3. Mr. Alok Sood, Corporate Resource Person, spoke on the Influence of palaeo-channels in civil engineering on 13th and 14th April 2016.
4. Mr. Alok Sood, Corporate Resource Person, explained about the Advance methods of applied geology in dam and tunnel construction on 16th and 17th April 2016.
5. Mr. Manish Aggarwal, Vice President and Regional In-charge, IL and FS, discussed about Project Formulation, Tenders and Contracts on December 01, 2015.
6. Mr. Prasad Naik, Engineer, WAPCOS, New Delhi, gave a talk on Challenges in Professional Life of Young Engineers and Personality Development on November 28, 2015.
7. Mr. Gagandeep Singh, Scientist, FPD, CRRI, shared his views about Design of Flexible Pavement on 27 November 2015.
8. Mr. Alok Sood, Corporate Resource Person, discussed about the Plate Tectonics and geological consideration in dam construction on 20th and 21st November 2015.



Department of Chemical Engineering

The Department of Chemical Engineering was established in 2014 to prepare the students to take leadership positions in chemical and related industries by imparting quality education in chemical engineering, allied areas and encouraging entrepreneurship and research.

The department is currently offering Bachelor programs in Chemical Engineering with an intake of 60 students. Students have the flexibility to select any of the two different minor streams either related to Petroleum Engineering or Energy and Environment. The department is also offering a PhD program under the supervision of an experienced faculty.

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Prof. Raj Sharma	Professor (Emeritus)	Oil and Gas, Simulation and optimization, Process design
2.	Prof. Vishnu Pareek	Professor (Adjunct)	
3.	Dr. Abhishek Sharma	Associate Professor & Head	Multi-scale modelling, Oil and gas, Renewable energy
4.	Dr. Anand Chakinala	Associate Professor	Industrial waste/produced water treatment, Thermochemical conversion of biomass, Catalysis
5.	Dr. Manisha Sharma	Assistant Professor	Modeling and Simulation, Water/ wastewater treatment, Reactive adsorption
6.	Dr. Subhajit Majumder	Assistant Professor	Bio-based Pollutant Removal Techniques, Environmental Biotechnology, Process Design,
7.	Mrs. Nandana Chakinala	Assistant Professor	Residue gasification, Liquid-solid binary mixture fluidization

Conferences attended:

1. Dr. Abhishek Sharma, 10th European Congress of Chemical Engineering, Nice, France from 27/09/2015-01/10/2015.
2. Dr. Abhishek Sharma, CHEMCON 2015, Guwahati, India, 27/12/2015-30/12/2015.

Projects:

Dr. Abhishek Sharma, 'Conversion of municipal solid waste to fuel and other value added products', from Bharuch Enviro Infrastructure Limited, Gujarat, India, outlay INR 46,62,000, 2016.

Publications:

1. Sharma, A., Wang, S., Pareek, V., Yang, H., Zhang, D., "Multi-fluid reactive modelling of fluidized bed pyrolysis process", 2015, Chemical Engineering Science, 123, 311-321.
2. Sharma, A., Pareek, V., Zhang, D., "Biomass pyrolysis—A review of modelling, process parameters and catalytic studies, 2015, Renewable and Sustainable Energy Reviews, 50, 1081-1096.
3. Sharma, A., Shinde, Y., Pareek, V., Zhang, D., "Process modelling of biomass conversion to

- biofuels with combined heat and power", 2015, Bioresource Technology, 198, 309-315.
4. Gupta, V. K., Sharma M., Singh, K., and Vyas, R. K., "Reactive adsorption of phenol onto Fe-GAC: Parallel pore batch modeling and experimental studies", 2016, Journal of the Taiwan Institute of Chemical Engineers, 63, 116-124.
5. Sharma, M., Vyas, R. K., and Singh, K., "Theoretical and experimental analysis of reactive adsorption in a packed bed: Parallel and branched pore diffusion model approach", 2016, Industrial & Engineering Chemistry Research, 55 (20), 5945–5954.
6. Gupta, V. K., Sharma M., and Vyas, R. K. "Hydrothermal modification and characterization of bentonite for reactive adsorption of methylene blue: An ESI-MS study", 2015, Journal of Environmental Chemical Engineering, 3 (3), 2172–2179.
7. Majumder, S., Raghuvanshi, S., Gupta, S., "Sequestration of Zn²⁺ from aqueous solution using Klebsiella pneumoniae: Batch kinetics and continuous studies", 2016, Journal of Water Process Engineering, 12, 89-104.

8. Majumder, S., Gupta, V., Raghuvanshi, S., Gupta, S., "Simultaneous sequestration of ternary metal ions (Cr^{6+} , Cu^{2+} and Zn^{2+}) from aqueous solution by an indigenous bacterial consortium", 2016, Process Safety and Environmental Protection, 102, 786-798.
9. Majumder, S., Raghuvanshi, S., Gupta, S., "Application of a hybrid biofilter column for the removal of Cr (VI) from aqueous solution using an indigenous bacterial strain *Pseudomonas taiwanensis*", 2016, Bioremediation Journal, 20 (1), 10-23.
10. Majumder, S., Gangadhar, G., Raghuvanshi, S., Gupta, S., "A Comprehensive Study on the Behavior of a Novel Bacterial Strain *Acinetobacter guillouiae* for Bioremediation of Divalent Copper", 2015, Bioprocess and Biosystems Engineering. 38 (9), 1749-1760.
11. Majumder, S., Gangadhar, G., Raghuvanshi, S., Gupta, S. "Biofilter column for removal of divalent copper from aqueous solutions: performance evaluation and kinetic modeling", 2015, Journal of Water Process Engineering, 6, 136-143.
12. Sharma, A. "A novel biomass pyrolysis process for production of biofuel with combined heat and power", 10th European Congress of Chemical Engineering (ECCE10), Nice, France (27/09/2015-01/10/2015).
13. Sharma, A. "Power generation using Intermediate Fluid Vaporization in LNG Regasification Process", CHEMCON 2015, Guwahati, India (27/12/2015-30/12/2015).
14. Singh, A., Majumder, S. "Modeling, Simulation and Optimization of Crude Distillation Unit", 2015 AIChE Annual Meeting, Atlanta, US (08/11/2015-13/11/2015).

PhD awarded:

Dr. Manisha Sharma, on "Experimental Study and Mathematical Modelling of Reactive Adsorption of Phenol" at MNIT, Jaipur in December 2015.

Student Activities: Elien Van Houwenhove, an IAESTE student from University of Ghent, Belgium has worked on novel cycle for power extraction using LNG regasification process under the guidance of Dr. Abhishek Sharma.



School of Computing & Information Technology

About SCIT

The School of Computing and Information Technology (SCIT) comprising of the Department of Computer Science & Engineering and the Department of Information Technology, offers three undergraduate programmes, viz., Computer Science & Engineering, Information Technology and Computer and Communication Engineering.

Career Opportunities are available in the following companies, but not limited to, Google, Microsoft, Oracle, IBM, Cisco Systems, Intel, Samsung, Honeywell, Amazon, Deloitte, Infosys, TCS, Wipro, Accenture, etc.

The School has a highly qualified and motivated faculty members in its departments. The faculty members are not only engaged in teaching and research, but also offers their expertise through various Conferences, Seminars and Workshops, to private and public sector industry employees as well as to various government agencies. The SCIT has collaborative programs for students and faculty, with IT giants like Microsoft IT Academy, EMC², Nvidia, Intel, etc.

Department of Computer Science & Engineering

Department of Computer Science & Engineering provides students with a healthy combination of research and practice. The programs have been planned to offer a blend

of computers, communication technologies and other information retrieving/processing tools, so as to provide the student with the requisite know-how for solving real life problems and enabling them to enter the world of opportunities with flying colors and capitalize on the huge IT market.

The department is one of the largest in the University. Industrial internship/project work is an integral part of the curriculum. Its UG & PG curricula keep pace with the latest industry demands through higher semester elective courses and internships.

New programmes, labs/initiatives started

1. An 'IoT' lab was established, consisting of Arduino kits, ATMEL kits etc. for the benefit of students & faculty members.
2. A new collaborative M.Tech program on 'High Performance Computing' in association with CDAC, Pune was approved and will start from the next academic session.
3. High Performance Computing lab utilizing PARAM-SHAVAK, the desktop supercomputer from CDAC, was established for academics & research purposes.

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Dr. Kumkum Garg	Professor, Pro-President	AI, Mobile Computing, IoT
2.	Dr. R. S. Shekhawat	Professor, Director	AI, Soft computing, Real Time Systems, IoT
3.	Dr. Roheet Bhatnagar	Professor & Head	Software Engineering, Databases, Big Data
4.	Dr. U. S. Rawat	Professor	Information System & Security
5.	Dr. Sandeep Joshi	Professor	Network & Security
6.	Dr. S C Kulhari	Professor	Adv. Computer Arch., Automata Theory
7.	Dr. Sandeep Chaurasia	Associate Professor	Supervised Machine Learning
8.	Dr. Jyoti Grover	Associate Professor	VANET Security
9.	Dr. Prakash Ramani	Associate Professor	Machine Learning
10.	Dr. Sunita Singhal	Associate Professor	Distributed Computing, Soft Computing
11.	Dr. Pooja Sharma	Associate Professor	Fluid Dynamics, Heat Transfer, MassTransfer
12.	Mr. Vivek S. Sikarwar	Assistant Professor	Artificial Intelligence & Robotics
13.	Mr. Jayakrishna R	Assistant Professor	High Performance Computing
14.	Mr. Saurabh Gupta	Assistant Professor	Cloud Computing
15.	Mr. Tarun Jain	Assistant Professor	Sentiment Analysis
16.	Mr. Satyabrata Roy	Assistant Professor	Cryptography
17.	Mr. Rishi Gupta	Assistant Professor	Image Processing

18.	Mr. Nitesh Pradhan	Assistant Professor	Data Mining, Information Retrieval
19.	Mr. Saket Acharya	Assistant Professor	Information Security
20.	Mr. Ashish Kumar	Assistant Professor	Data Mining
21.	Mr. Anubha Parashar	Assistant Professor	Robotics and Machine Learning
22.	Mr. Manu Srivastava	Assistant Professor	Parallel processing & Malware Detection
23.	Mr. Harish Sharma	Assistant Professor	Info. Retrieval, Image Processing, NLP
24.	Mr. Ankit Shrivastava	Assistant Professor	Biometrics
25.	Mr. Mahesh Jangid	Assistant Professor	Image Processing, computer vision
26.	Ms. Anubha Parashar	Assistant Professor	Machine Learning and Robotics
27.	Mr. Prashant Manuja	Assistant Professor	Information Security, Image Processing
28.	Mr. Jigyasu Nema	Assistant Professor	Approximation Algorithms, AI
29.	Mr. Ravinder Yadav	Assistant Professor	Big data, Networks, Cloud Computing
30.	Mr. Priyank S. Hada	Assistant Professor	Big Data Analytics & Cloud Computing
31.	Ms. Anita Shrotriya	Assistant Professor	Real Time Application, Cloud computing
32.	Mr. Arvind Kumar	Assistant Professor	Machine Learning
33.	Mr. Vikram Raju R	Assistant Professor	Security in Ipv6 (Mipv6)

Sponsored/consultancy projects undertaken

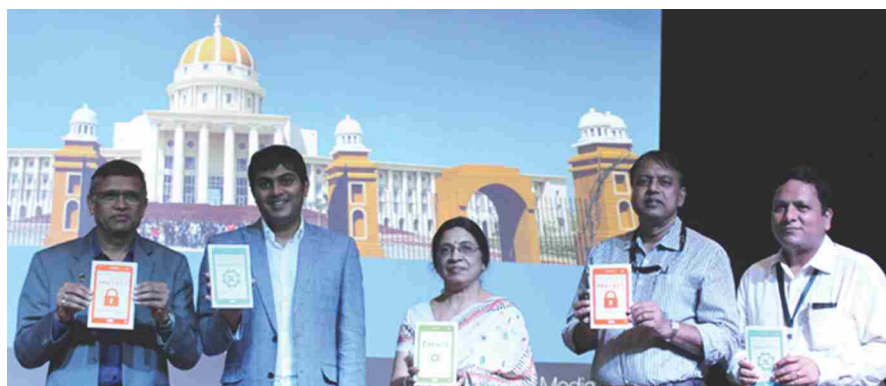
1. Manipal University Jaipur – Online Faculty Information System (MUJ-OFIS)' – ongoing internal project under the guidance of Prof. Roheet Bhatnagar and Mr. Ashish Kumar, being developed by Mr. Shubham Gupta, 4th year B.Tech (CSE) student.
2. Manipal University Jaipur – Alumni Portal' – ongoing internal project being developed and maintained for MUJ Alumni and other stakeholders, under the guidance of Prof. Roheet Bhatnagar (Coordinator Alumni Cell) and Mr. Ashish Kumar (Co-coordinator Alumni Cell) and is being developed by Mr. Karan Malhotra & Mr. Nikhil Dixit, 3rd year BTech CSE students.
3. Mr. Karan Malhotra, 3rd year BTech CSE student secured position in CodeChef competitive coding competition.
4. Mr. Pranjal Awasthi, CSE-3rd Semester bagged 1st position in the state level event of the Institution of Engineers India in connection with the Engineer's Day Celebrations. The event was held on 13th Sep 2015 in the IEI Jaipur Headquarters.
5. Aakash Jain, Achintya Mohan, Prarbdh Ranjan, Mariam Tariq (TEAM: PARAM), BTech CSE students bagged 1st prize and also the rolling trophy for the Quiz competition held on the occasion of Engineer's Day celebrations at MUJ on 18th Sep 2015.

Student activities

1. The 5th issue of 'Data Capsule' a quarterly Newsletter was launched in this Academic Year. It is managed by the student's vis-à-vis the design & contents under the guidance of faculty advisor, randomize (); the SCIT club.
2. Mr. Nikhil Dixit, 3rd year B.Tech CSE student secured 1st position in Topcoder 2016, coding

Extension activities

1. The SCIT Technical Club 'randomize ();' organized a 2-day technical symposium, 'Tech-Tales', on 21st – 22nd November, 2015.
2. ACM student chapter established in 2015.
3. CSI Institutional Membership/Chapter was opened in 2015.



Important MOU Signed

1. An MOU was signed between MUJ and the Centre for Advanced Computing (CDAC), Pune on 7th October 2015, for collaboration in the areas of common interest such as Research & Development, Education & Training and execution of projects, for advancements in Information & Communication Technologies (ICT), High Performance Computing (HPC) and Applications of Artificial Intelligence (AAI). The MoU was signed by Dr. Hemant Darbari, Executive Director, CDAC Pune and Prof. Kumkum Garg, Pro President and Dean Faculty of Engineering, MUJ, at Pune.
2. MOU with Ngee Ann Polytechnic, Singapore for PG students exchange
3. MOU with Texas Instruments for Embedded and IoT Education
4. Agreement with ARM University for Embedded Systems and IOT
5. Renewal of NVIDIA CTC for AY 2015-16
6. Agreement with Kryptos Mobile Development Platform C/o Telecom Centre of Excellence, GoI
7. Department of CSE is a recognized Center of Academic Excellence (CoAE) by EMC²

Book chapters published

1. Ankit Shrivastava and Devesh Kumar Srivastava, "A Review on Pixel-Based Binarization of Gray Images", Advances in Intelligent Systems and Computing, Springer Singapore, 357-364, 2016, 978-981-10-0754-5.
2. Ashish Kumar, Roheet Bhatnagar, Sumit Srivastava, "Can We Use Mass Based Similarity Measure in Classification?", Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing, Springer, 813-820, 2016, 978-81-322-2636-9

Conference/symposia/workshops/seminars papers presented

1. Mahesh Jangid and Sumit Srivastava, "Accuracy Enhancement of Devanagari Character Recognition by Gray Level Normalization", in 7th ACM International Conference On Computing, Communication And Networking Technologies (7ICCCNT), July 06-08, 2016, Dallas, TX, USA.
2. Payal Goel and Tarun Jain, "M.P.S Bhatia Learning from Training Query in Meta Search using Artificial Neural Network", in Electronics, Energy, Environment, Communication, Computer, Control, Dec 2015.
3. S. Roy, J. Karjee, U. S. Rawat, P. Dayama and N. Dey, "Symmetric Key Encryption Technique: A Cellular

- Automata based Approach in Wireless Sensor Networks", International Conference on Information Security and Privacy, Nagpur, India, December 10-12, 2015.
4. Jeril Kuriakose and Sandeep Joshi, "Removing the Outliers of Diverse Zero-Knowledge Proof Systems using Mahalanobis Distance", in Proceeding of 7th ACM International Conference of Computing, Communication and Networking Technologies (ICCCNT), July 06-08, 2016 Dallas, USA.
5. Pradeep Kumar Tiwari and Sandeep Joshi, "A Review on Load Balancing of Virtual Machine Resources in Cloud Computing," in Proceedings of the International Conference on ICT for Intelligent Systems (ICTIS), Ahmedabad, India.
6. Pradeep Kumar Tiwari and Sandeep Joshi, "Resource Management using Virtual Machine Migrations", Proceedings of the International Congress on Information and Communication Technology, (ICICT-2015), Udaipur, India.
7. Sandeep Joshi and Pradeep Tiwari, "Load balancing using Virtual migration machine", at Proceedings of the 4th World Conference on Applied Sciences, Engineering and Technology 24-26 October 2015, Kumamoto University, Japan, ISBN 13: 978-81-930222-1-4, pp 287-290.
8. Devesh Kumar Srivastav and Ravinder Yadav, "Map-Reduce Programming Model for Parallel K-Mediod Algorithm on Hadoop Cluster", accepted in IEEE supported International Conference on Communication Systems and Network Technologies, March 6-7, 2016.

Papers published by faculty in Journals

1. Mahesh Jangid and Sumit Srivastava, "Handwritten Devanagari characters recognition using correlation of gradients in local neighbors", Journal of Scientific Research and Development ISSN: 1115-7569, 3 (1) 2016, Pages: 107-114, (In Thomson Reuters).
2. Dhiraj Pandey and U. S. Rawat, "Chaotic Map for Securing Digital Content: A Progressive Visual Cryptography Approach", International Journal of Rough Sets and Data Analysis, Vol. 3, Issue 1, pp. 21-36, 2016.
3. Dhiraj Pandey and U. S. Rawat, "A Novel Progressive Visual Cryptography Approach with Chaotic Map for Securing Digital Contents", Journal of Information Security Research, Vol. 7, No. 1, pp. 1-10, 2016.
4. S. Roy, J. Karjee, U. S. Rawat, P. Dayama and N. Dey, "Symmetric Key Encryption Technique: A Cellular Automata based Approach in Wireless Sensor

Networks", Elsevier Procedia Computer Science, Vol. 78, pp. 408-414, 2016.

5. Pradeep Tiwari and Sandeep Joshi, "Data Security for Software as a Service", IGI Global, International Journal of Service Science, Management, Engineering, and Technology" 6(3), 47-63, July-September 2015.

Expert Lectures/Talks

1. Prof. Nirmala Shenoy, Professor from Rochester Institute of Technology (RIT), Rochester, NY, USA delivered a lecture on "Virtual Mobility Domains and Seamless Roaming" on 23 December, 2015.
2. Prof. Virendra Singh, Professor, IIT-Bombay, delivered a talk on "Computer Architectures in 21st Century" on 22 August, 2015

Workshops Organised

1. A 3-day workshop was organized on high performance computing (HPC) paradigms jointly with M/s Intel Corp and CDAC from 8th -10th January 2016 at MUJ.
2. A 1-Day workshop was organized on Cloud Computing using IBM Bluemix on 11th January 2016.
3. A 2-day workshop was organized on Internet of Things (IOT) in collaboration with Forsk Technologies, was organized on 16-17 April, 2016.
4. A Workshop on Robotics by Techniest and IIT Bombay was organized on 19-20 Sep, 2015



Department of Information Technology

New programme started

Collaborative M. Tech with C-DAC in IT Systems and Networks, to start in 2017.

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Dr. Devi Prasad Sharma	Professor & Head	High Performance Computing
2.	Dr. Sumit Srivastava	Professor	Data Mining, Data Sciences
3.	Dr. Devesh Kumar Srivastava	Associate Professor	Software Engineering
4.	Mr. Manoj Bohra	Associate Professor	Network on Chip
5.	Dr. Kalpna Sharma	Associate Professor	Fluid Dynamics
6.	Dr. Dasari Nagaraju	Associate Professor	Algebra
7.	Dr. Vipin Pal	Associate Professor	WSN
8.	Mr. Ashish Jain	Associate Professor	Network security and Cryptography
9.	Dr. Devershi Pallavi Bhatt	Associate Professor	WSN, Data Mining, Cloud Computing
10.	Dr. Akhilesh Kumar Sharma	Associate Professor	Data Mining, Big Data
11.	Dr. Pratistha Mathur	Associate Professor	Soft computing and DIP
12.	Dr. Arjun Singh	Associate Professor	Mobile Grid Computing
13.	Mr. Shashank Sharma	Assistant Professor	Software Engineering, Process Mining
14.	Mr. Lokesh Sharma	Assistant Professor	MANET
15.	Mr. Arvind Kilaru	Assistant Professor	Cloud Computing
16.	Mr. Ravi Raj Holla	Assistant Professor	Function and logic programming, OOMD
17.	Mr. Pradeep Kumar	Assistant Professor	Medical Image Processing
18.	Mrs. Kuntal Gaur	Assistant Professor	Medical Image Processing
19.	Mr. Virender Deharu	Assistant Professor	Browser Vulnerability
20.	Mr. Rohit Kumar Gupta	Assistant Professor	Computer Network, P2P computing, Cloud
21.	Mr. Krishna Kumar	Assistant Professor	Computer Network, routing algorithms
22.	Ms. Monika Jain	Assistant Professor	HPC, Networking
23.	Mr. Rahul Saxena	Assistant Professor	HPC, Parallel Processing
24.	Mr. Vivek Kumar Verma	Assistant Professor	DIP, NLP, Computer Graphics
25.	Mr. Ravinder Kumar	Assistant Professor	Data mining
26.	Mr. Venkatesh Gauri Shankar	Assistant Professor	Information Security, Mobile Big Data
27.	Mr. Shashank M Satapathy	Assistant Professor	Software Engineering, Machine Learning
28.	Mr. Ankit Mundra	Assistant Professor	Computer Network, Information Security
29.	Mrs. Anju Yadav	Assistant Professor	Computer Graphics, Fractal and Chaos
30.	Mr. Nikhil Raj	Assistant Professor	Low power circuits designs
31.	Mr. Vidyadhar J Aski	Assistant Professor	IOT
32.	Ms. Bhavna Saini	Assistant Professor	Cloud Computing and Data mining
33.	Mr. Ashwin Ganesan	Assistant Professor	Algorithm and Graph Theory
34.	Mr. Anurag Bhatnagar	Assistant Professor	Software Engineering
35.	Mrs. Ginika Mahajan	Assistant Professor	Software Engineering, Malware Analysis
36.	Mr. Gaurav Aggarwal	Assistant Professor	Machine Learning and Speech Processing
37.	Ms. Vineeta Soni	Assistant Professor	Information security, Neural Network
38.	Mr. Gaurav Prasad	Assistant Professor	Information Security
39.	Mr. Pragnesh V Thaker	Assistant Professor	Virtualization and Machine learning
40.	Mrs. Neha V Sharma	Assistant Professor	Natural Language Processing
41.	Ms. Kavita	Assistant Professor	Software Engineering
42.	Mrs. Alka Chaudhary	Assistant Professor	WSN security, Soft computing
43.	Mr. Saurabh Gupta	Assistant Professor	Cloud Computing

Student achievements

Pakhi Dixit, 2nd Year IT student, has been awarded as Google Certified Analytics for her successful completion of the Google Analytics certification exam.

Visitors to the Dept/invited lectures

1. Expert talk on “Cyber & Information Security” by Maj Gen Sandeep Sharma on 2nd May 2016.
2. Expert talk on on “Virtual Mobility Domains and Seamless Roaming” by Prof. Nirmala Shenoy from Rochester Institute of Technology, Rochester, NY, USA on 23rd December 2015.
3. Expert talk on “Computer Architectures in 21st Century” by Prof. Virendra Singh, Professor from IIT-Bombay, on 22nd August 2015.

Significant awards/distinctions

1. Mr. Lokesh Sharma, selected for Summer Faculty Research Fellow Program (SFRF-2016) under Continuous Education Program held at IIT Delhi.
2. Mr. Venkatesh Gauri Shankar received best paper award for his research paper at 1st International Conference on Information Security and Privacy (ICISP 2015) published in Procedia Computer Science, Elsevier.

Papers Published in Journals

1. Sumit Srivastava, “Improved Classification of the High-Resolution Image Data Using Hoeffding Algorithm”, Annals of Data Science, Springer, Vol. 3, Issue 1, pp. 63-70, March 2016. DOI: 10.1007/s40745-016-0070-3. ISSN: 2198-5812 (SCI Indexed)
2. Shashank Mouli Satapathy, Barada Prasanna Acharya and Santanu Kumar Rath, "Early Stage Software Effort Estimation using Random Forest Technique based on Use Case Points", IET Software, Vol. 10, No. 1, pp. 10-17, February, 2016. ISSN: 1751 – 8814. DOI: 10.1049/iet-sen.2014.0122 (SCI Indexed)
3. Manoj Kumar, Vijay Laxmi, Manoj Singh Gaur, Masoud Danesh Talab, Mark Zwolinski and Seok-Bum Ko, “Improved Adaptive Routing for Networks-on-Chip”, in Electronics Letters, Vol. 51, No. 25, pp. 2092-2094, October 2015. (SCI Indexed)
4. Anju Yadav, Mamta Rani, “Alternated superior Julia sets”, Chaos, Solitons & Fractals, Vol. 73, pp.1-9, April 2015. (SCI Indexed)
5. Devesh Kumar Srivastava, “Reliability Measurement of Square Model”, Asian Journal of Mathematics and Computer Research, Vol. 7, Issue 3, pp. 118-126, Oct 2015. ISSN: 2395-4205

Papers published in**Conference/symposia/workshops/seminars**

1. Rahul Saxena, R Jaya Krishna and D.P. Sharma, “Faster Load Flow Analysis”, Proceedings of International Conference on ICT for Sustainable Development, published in Advances in Intelligent Systems and Computing series, Springer Vol. 408, pp. 45-54, 2016.
2. Chayan Bhatt, Rahul Saxena, D.P. Sharma and R Jaya Krishna, “Parallelization of Load Flow Analysis”, in Proceedings of International Conference on ICT for Sustainable Development, published in Advances in Intelligent Systems and Computing series, Springer, Vol. 409, pp. 427-435, 2016.
3. Rahul Saxena and D.P Sharma, “Parallel Computing of Load Flow Analysis”, in Proceedings of Second International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2015), published in International Conference Proceedings Series (ICPS), ACM, Vol. 10, pp. 1-8, 2016.
4. Ankit Srivastava and Devesh Kumar Srivastava “A Review on Pixel Based Binarization of Gray Images”, in Proceedings of International Congress on Information and Communication Technology (ICICT-2015), Springer Singapore, pp. 357-364, 2016.
5. Manjet Gupta, Devesh Kumar Srivastava and Durg Singh Chauhan, “Security Challenges of Virtualization in Cloud Computing”, Proceedings of the Second International Conference on Information and Communication Technology for Competitive Strategies, pp. 101:1-101:5, ACM.
6. Lokesh Sharma, Chhagan Lal and D P Sharma, “Improving QoE using Link Stability for Video Streaming in MANETs”, 15th International Conference, ADHOC-NOW 2016, Lille, France, pp. 339-353, July 4-6, 2016.
7. Venkatesh Gauri Shankar and Gaurav Somani, “Anti-Hijack: Runtime Detection of Malware Initiated Hijacking in Android”, 1st International Conference on Information Security & Privacy, Procedia Computer Science, Elsevier, Vol. 78, pp. 587-594, April 2016.
8. Lokesh Sharma, Chhagan Lal and D P Sharma, “Implementation and Performance Evaluation of Link-Disjoint Multipath AODV Routing Protocol”, in Proceeding of International Conference on Computing and Communication (ICC16), published in International Journal of Computer Application, pp. 20-23, 11-12 March, 2016.

9. Niyati Gupta, Manoj Kumar, Vijay Laxmi, Manoj Singh Gaur, Masoud Daneshtalab and Masoumeh Ebrahimi, "Improved Route Selection Approaches using Q-learning framework for 2D NoCs", 3rd ACM International Workshop on Many Core Embedded Systems (MES), Portland, USA, pp. 33-40, Aug 2015.
10. Niyati Gupta, Manoj Kumar, Vijay Laxmi, Manoj Singh Gaur and Mark Zwolinski, "A σ LBDR: Congestion-aware Logic Based Distributed Routing for 2D NoCs", in Proceedings of 19th IEEE International Symposium on VLSI Design and Test (VDATE), pp. 1-6, Sep 2015. DOI: 10.1109/ISVDATE.2015.7208058
11. J. Upadhyay, Akash Deep Garg, Monika Jain, Avanish Ojha, Y. Tyagi, M.L. Sharma, T.A. Puntambekar, C.P. Navathe, and H.S.Vora, "Measurement of longitudinal electron beam parameters using indigenously developed streak camera system at indus-1 synchrotron radiation source", Indian Particle Accelerator Conference (InPAC-2015), pp. 355-358, December 21-24, 2015.
12. Anju Yadav and Mamta Rani, "Modified and extended logistic map in superior orbit", J. Procedia Computer Sci., Vol. 57, pp- 581-586, August 2015.

Workshops/seminars Organised

1. Workshop on "IoT Bootcamp", organized by School of Computing and Information Technology, MUJ dated April 16-17, 2016.
2. IETE Zonal Seminar (A National Conference) held at MNIT, Jaipur on March 5, 2016.
3. Hands-on Training on "TIVA Launch Pad & ASLK PRO System Lab in collaboration with TI (Texas Instruments) India University Program & EdGate Technologies Pvt. Ltd. on January ,23rd & January 25th 2016 covering Embedded system & Analog system.
4. National Workshop on High Performance Computing (HPC-2016) held at MUJ in Collaboration with C-DAC, Pune on January 8 - 10, 2016.
5. 2nd International Conference on Emerging Technologies: Micro to Nano held at MUJ on October 24-25, 2015.



School of Electrical, Electronics & Communications

Department of Electrical Engineering

Faculty members & their specializations:

S.NO.	Name of Faculty	Designation	Specialization
1.	Dr Shivendra Nath Sharan	Professor & Director	Energy
2.	Dr. Sharavan Kumar Jhajharia	Professor & Coordinator First Year B.Tech.	Power Systems
3.	Dr Amit Soni	Professor & Head	Power Systems
4.	Dr Amit Saraswat	Associate Professor	Power Systems
5.	Dr. Shahbaz Ahmed Siddiqui	Associate Professor	Power Systems
6.	Mr. Manish Thukral	Associate Professor	Power Electronics
7.	Mr Sunil Goyal	Associate Professor	Power Systems
8.	Mr.Vishnu Goyal	Assistant Professor	Industrial System and Drives
9.	Mr.Vinay Gupta	Assistant Professor	Measurement & Control System
10.	Mr. Samarendra Pratap Singh	Assistant Professor	Power Systems
11.	Mr. Peeyush Garg	Assistant Professor	Instrumentation
12.	Mr. Abhishek Kumar	Assistant Professor	Control System
13.	Mr.Ritesh Singh	Assistant Professor	Control System
14.	Mr.Vikas Kumar Boradak	Assistant Professor	Electronic Design and Technology
15.	Mr. Satya Narayan Agarwal	Assistant Professor	Control & Instrumentation
16.	Mr. Himanshu Priyadarshi	Assistant Professor	Solid State Electronic Materials
17.	Mr. Maruti Nandan Mishra	Assistant Professor	Control & Instrumentation
18.	Mr.Mahipal Bukya	Assistant Professor	Electrical Engineering-HVE
19.	Mr.Divya Rishi Shrivastava	Assistant Professor	Power & Energy Systems
20.	Mr Devesh Chandra	Assistant Professor	
21.	Mr Amit Kumar Singh	Assistant Professor	VLSI System and Technology

Sponsored / Consultancy Projects Submitted / Undertaken

A. CSIR Project Detail

Project Title: “Study on highly adequate and flexible Perovskites ($\text{CH}_3\text{NH}_3\text{MX}_3$ (M= Pb, Sn; X = I, Br, Cl)) thin film solar cell materials for small scale applications.”

Principal Investigator (PI): Dr. Jagrati Sahariya

Co-Principal Investigator (PI): Prof. Amit Soni (PhD) & Dr. S. A. Siddiqui (PhD)

Funding Agency: CSIR

Proposed Fund: Rs. 16.66 lakh

B. ENDOWMENT FUND-Seed Grant, MUJ

Project Title: Experimental study on highly adequate and flexible Perovskites ($\text{CH}_3\text{NH}_3\text{PbX}_3$ (X = I, Br, Cl)) thin film solar cell materials for small scale applications.

Principal Investigator (PI): Prof. Amit Soni (PhD)

Co-Principal Investigator (PI): Dr. Jagrati Sahariya, & Dr. S. A. Siddiqui

Funding Agency: Manipal University Jaipur

Proposed Fund: Rs. 280,000/-

R&D Activities

A. Workshops / Short-Term Courses organized by EE department

1. A one-day workshop on “Renewable Sources of Energy (RSE-2016)” on 8th June 2016. The technical topics were presented by many eminent resource person: Dr. Prem Pal from IIT Hyderabad, Dr. G. D. Agarwal from MNIT Jaipur, Dr. T. D. Senguttuvan and Dr. Sanjay Srivastava from National Physical Laboratory, Delhi.
2. A two-day workshop on “Industrial Automation & Drives (IAD-2016)” on 27th - 28th May 2016. External resource person: Dr. Rajesh Kumar and Dr. Nitin Gupta from MNIT, Jaipur gave the talks on various issues related with “Power quality & Automation, Electric Drives”. Mr. Shashi Bhargava, MD, Jhons Electric, Jaipur gave insight about the “PLC Applications”.

- one-day workshop on “Smart Grid and Clean Energy Technologies (SGCET-2015)” on 28th November 2015. The Chief Guest of the workshop Shri. B.N. Dosi, MD, RRECL highlighted the recent developments on the electronic sensor devices to increase the efficiency and reliability of the existing electrical grid. Eminent speakers: Prof. K R Niazi, Dr. Rajesh Kumar, Dr. Anil Swarnkar, from MNIT, Jaipur and Prof. Rajveer Shekhawat, Director SCIT, MUJ, Jaipur addressed the students / participants and suggested to work together on smart grid and clean energy technology in order to develop India in a clean and green way.

Journal Papers published by the Faculty

- Pancham Kumar, Amit Soni, Jagrati Sahariya, K. C. Bhamu, “Optoelectronic behavioral study of defect-chalcopyrite semiconductors XGa₂Te₄ (X = Zn, Cd)” Materials Research Bulletin, Elsevier, October 2016. (Ref: MRB_2016_315) (Accepted for Publication)
- Sunil Kumar Goyal, D.K. Palwalia, “A comprehensive analysis of optimal performance parameters of stand-alone generator”, *Indian Journal of Science and Technology*, vol. 9, No. 25, pp. 1-12, July 2016. ISSN: 0974-6846. DOI: 10.17485/ijst/2016/v9i25/90004. SCI Indexed Journal.
- Sunil Kumar Goyal, D.K. Palwalia, “Analysis of performance parameters and estimation of optimum capacitance for asynchronous generator”, *International Journal of Engineering Science and Technology* (in Press). Publisher: Elsevier, ISSN: 2215-0986. DOI: <http://dx.doi.org/10.1016/j.jestch.32016.05.015>.
- Baibhav Bishal, Akash Saxena and Sunil Kumar Goyal, “Social swarm optimization for damping controlling of multimachine power system”, *International Journal of Science, Engineering and Technology Research (IJSETR)*, vol. 4, No. 7, pp. 2609-2616, July 2015. ISSN: 2278-7798.
- Shahbaz.A.Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, “A unified control scheme for power system transient stability enhancement through preventive and emergency control” *International Transactions on Electrical Energy Systems*, (Earlier European Transactions on Electrical Power) early access articles, 2015; ISSN (Online) 2050-7038. (Wiley, Impact Factor: 0.654).
- Shahbaz.A.Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, “Preventive and Emergency Control of Power System for Transient Stability Enhancement” *Journal of Electrical Engineering & Technology*, 10(1), pp. 83-91, 2015; ISSN (Online) 2093-7423. (KIEE, Impact Factor: 0.517). DOI: /10.5370/JEET.2015.10.1.742.
- P. Gautam, R. Mishra, S.A. Siddiqui, G.D. Sharma, “Donor–acceptor– π –acceptor based charge transfer chromophore as electron donors for solution processed small molecule organic bulk heterojunction solar cells”, *Organic Electronics*, Elsevier, Vol., 19, pp. 76-82, 2015; 1566-1199.ISSN (Online) 2093-7423.(Elsevier, Impact Factor: 3.676). DOI:10.1016/j.orgel.2015.01.032.
- C.V. Kumar, L. Cabau, E.N. Koukaras, Shahbaz A. Siddiqui, G.D. Sharma, E. Palomares, “Efficient bulk heterojunction solar cells based on solution processed small molecules based on the same benzo[1,2-b:4, 5-b'] thiophene unit as core donor and different terminal units”, *Nanoscale*, early access articles, 2015; ISSN (Online) 2040-3364.(RSC, Impact Factor: 6.739). DOI: 10.1039/C5NR01037C.
- M.L. Keshtov, D Yu Godovsky, F.C. Chen, A.R. Khokhlov, S.A. Siddiqui, G.D. Sharma “Synthesis and characterization of π -conjugated copolymers with thieno-imidazole units in the main chain: application for bulk heterojunction polymer solar cells”, *Physical Chemistry Chemical Physics*, Vol. 17, pp. 7888-7897, 2015; ISSN (Online) 1463-9076.(RSC, Impact Factor: 4.198). DOI: 10.1039/C5CP00017C.
- Kwangseok Do, Nara Cho, S.A. Siddiqui, Surya Prakash Singh, Ganesh D. Sharma, Jaejung Ko, “New D-A-D-A-D push-pull organic semiconductors with different benzo[1,2-b:4, 5-b'] dithiophene cores for solution processed bulk heterojunction solar cells”, *Dyes and Pigments*, Elsevier, early access articles, 2015; ISSN (Online) 0143-7208. (Elsevier, Impact Factor: 3.468). DOI:10.1016/j.dyepig.2015.04.012
- Athanassios G. Coutsolelos, G. D. Sharma, S.A. Siddiqui, Agapi Nikiiforou, Galateia E. Zervaki, Irene Georgakaki, Kalliopi Ladomenou, “A mono(carboxy) porphyrin-triazine-(bodipy)₂ triad as a donor for bulk heterojunction organic solar cells”, *Journal of Mater. Chem. C*, RSC. ISSN (Online) 2050-7526 (Accepted for publication). (RSC Publications) DOI: 10.1039/C5TC01076D
- Shahbaz A. Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, “Generator rotor angles prediction for on-line transient stability assessment using radial basis function neural network” *Research Journal of Applied Sciences, Engineering and Technology*. 8(14) September 2014. ISSN (Online): 2040-7467.

Conferences Papers

1. S. K. Jhajharia, "Thyristor Converters are more energy Efficient than Diode Converters for the Electrolysis of the non-ferrous metals -A case study in Aluminum Smelters at Hindalco, India", has been accepted for the presentation for the IEEE Seventh Power INDIA International Conference (PIICON 2016). Which is going to be held between 25th and 27th November 2016 at Govt. Engineering College, Bikaner.
2. Pancham Kumar, Amit Soni, Jagrati Sahariya, "Investigation of Electronic and Optical Properties of CuGaS₂: First principle mBJ Exchange Correlation Potential", 31st National Convention of Electronics & Telecommunication Engineering and National Seminar on Electronics and Telecommunication Engineering of Sustainable Development, Manipal University Jaipur, 3rd–4th October, 2015.
3. Pancham Kumar, Amit Soni, Jagarti Sahariya, K. C. Bhamu, "Electronic and optical properties investigations of CdGa₂S₄ and CdGa₂Se₄: FP-LAPW calculations," 8th National Conference on Advances in Energy Conversion Technologies, 2016, pp. 1-5.
4. Pancham Kumar, Amit Soni, Jagarti Sahariya "First Principles Optoelectronic Analysis for CdGa₂(S, Se)₄ Materials" International conference on computational technologies, 2016.
5. Pancham Kumar, Amit Soni, Jagarti Sahariya, "Opetoelectronic modeling of ternary ZnGa₂S₄ and CdGa₂S₄ solar cell compound," National Conference on Renewable Energy and Energy Conservation (NCREEC-2016), 2016.
6. Pancham Kumar, Amit Soni, Jagrati Sahariya, "Structural and optical investigations of ZnGa₂S₄: First principle FP-LAPW calculations" National Workshop on Advancement in Material Science and Physics, Manipal University Jaipur, 19th – 21st November 2015.
7. S. Singh, S. Agrawal, D. V. Avasthi and Amit Saraswat, "Electrical energy analysis and optimization of single pass unglazed PVT system using evolutionary algorithm," Next Generation Computing Technologies (NGCT-2015) 1st International Conference on, Dehradun, pp. 814-819, 04th–5th September 2015.
8. Shahbaz A. Siddiqui, Kusum Verma, K. R. Niazi, Manoj Fozdar, "Wide area Synchrophasor measurements based transient stability assessment and emergency control" in Proceedings IEEE PES General Meeting-2014, 27-31 July 2014, Washington DC, USA.

Guest Lectures / Invited Talks organized

1. "Organic Solar cells: Fundamentals, Opportunities and Challenges" given by Prof. G. D. Sharma (Director R & D, JEC Group of Institutions) on 1st October, 2015.
2. Industrial Expert Lecture in the course of Generation, Transmission & Distribution on the topic of "Erection & Charging of the Transmission Lines" by Sh. B. N. Saini (Ex-Director RVPNL on 17th October, 2015.
3. Industrial Expert Lecture in the course of Power System Analysis and Power System Operation & Control on the topic of "Power Trading and Management" by Shri. C. S. Chandalia (Ex-Director, RVPNL) on 03rd November, 2015.
4. Industrial Expert Lecture in the course of Generation, Transmission and Distribution on the topic of "Power Management System in INDIA" by Mr Sanjay Kumar (Supdt. Engineer, RVVNL) on 30th November, 2015.



Department of Electronics & Communication Engineering

Faculty associated in department with specialization

S.NO.	Name of Faculty	Designation	Specialization
1.	Prof. Sandeep Sancheti	President MUJ	Optical Communication
2.	Prof. Awdhesh Kumar	Dean-Faculty Affairs & Provost	Communication & Broad Casting
3.	Prof B. P. Singh	Professor	VLSI
4.	Prof. V. N. Tiwari	Professor	Antenna Technology
5.	Prof. Manish Tiwari	Professor	Photonics, Optoelectronics & Optical Communication
6.	Dr. Amit Rathi	Associate Professor & Head	Microwave Antenna, Optoelectronics Devices & Microelectronics
7.	Dr. Tarun Kumar Dubey	Associate Professor	Wireless Sensor Networks
8.	Dr. Shilpi Birla	Associate Professor	VLSI
9.	Dr. Renu Kumawat	Associate Professor	VLSI & Embedded
10.	Dr. Krishna Gopal Sharma	Associate Professor	VLSI Design
11.	Mr. Sanjiv Jaswal	Associate Professor	Communication Systems
12.	Dr. Abhishek Shrivastava	Associate Professor	Electromagnetic Fields
13.	Dr. Sourav Dhar	Associate Professor	Electronics Engineering
14.	Dr. Himanshu Chaudhary	Associate Professor	Robotics & Networking
15.	Dr. Sanyog Rawat	Associate Professor	Antenna Technology
16.	Mr. Chandra Prakash Gupta	Assistant Professor	Communication Engineering
17.	Mr. Tejpal	Assistant Professor	Electronics & Communication Eng.
18.	Ms. Neha Singh	Assistant Professor	VLSI Design
19.	Ms. Madhuri Sahal	Assistant Professor	Electronics & Communication Eng.
20.	Ms. Pallavi Yarde	Assistant Professor	Embedded Systems
21.	Ms. Neetu	Assistant Professor	Microwave Antenna
22.	Mr. Dinesh Yadav	Assistant Professor	Microwave Antenna
23.	Mr. Suddhendu Das Mahapatra	Assistant Professor	Wireless Communication
24.	Mr. Dhyanendra Parashar	Assistant Professor	Microwave Electronics
25.	Ms. Deepika Bansal	Assistant Professor	VLSI Design
26.	Mr. Rohit Mathur	Assistant Professor	Digital Communication
27.	Mr. Rahul Pal	Assistant Professor	Embedded System & VLSI Design
28.	Ms. Neha Chaudhary	Assistant Professor	Photonics
29.	Mr. Chusen Duari	Assistant Professor	VLSI
30.	Mr. Nitin Gupta	Assistant Professor	VLSI
31.	Mr. Ashish Vijay	Assistant Professor	System & Control
32.	Dr. Lokesh Garg	Assistant Professor	VLSI
33.	Mr. Bharat Tiwari	Assistant Professor	Optoelectronics Communication
34.	Mr. Vishal Das	Assistant Professor	Digital Electronics & Communication
35.	Dr. Prashant Poveldwivedi	Assistant Professor	Laser Science & Applications
36.	Mr. Saugata Dutta	Assistant Professor	Antenna
37.	Mr. Mohit Kumar Sharma	Assistant Professor	System & Control
38.	Mr. Shashi Kant Sharma	Assistant Professor	VLSI Design
39.	Mr. Shashank Kumar Gupta	Assistant Professor	Signal Processing

Papers Published in National/International Journals

1. H.K. Nirmal, S.G. Anjumb, Pyare Lal, Amit Rathi, S.Dalela, M.J.Siddiqui, P.A.Alvi “Field effective band alignment and optical gain in type-I $\text{Al}_{0.45}\text{Ga}_{0.55}\text{As}/\text{GaAs}_{0.84}\text{P}_{0.16}$ nano-heterostructure”, *Optik*, 127 (2016) 7274–7282, Elsevier, Pages 7274–7282, June 2016.
2. H.K. Nirmal, Nisha Yadav, S. Dalela, Amit Rathi, M.J. Siddiqui, P.A.Alvi, “ Tunability of optical gain (S W I R region) in type - I I $\text{In}_{0.70}\text{Ga}_{0.30}\text{As}/\text{GaAs}_{0.40}\text{Sb}_{0.60}$ nano-heterostructure under high pressure”, *Physica E: Low-dimensional Systems and Nanostructures*, Volume 80, Elsevier, Pages 36-42, June 2016.
3. Jyoti Yadav, Neeraj Kr Shukla, Pulkit Bhatnagar and Shilpi Birla, “Design and Analysis of a Novel Ultra-Low Power SRAM Bit-Cell at 45nm CMOS Technology for Bio-Medical Implants”, *Intl J Com. App.* 115 (18), , pages 1-16, 2015.
4. Shrivastava A, Hmadi MSA., “Simulation of Weighted Fair Queuing Techniques WFQT in Traffic Shaping Using OPNET”, *Inter Journ of Engg Res in Man. & Tech.*; 4(8): 78-80, Aug. 2015.
5. Neetu, Ganga Prasad Pandey and V. N. Tiwari, “An overview of feeding techniques of Magneto- Electric dipole antenna,” *International Journal of Advanced Engineering Management and Sciences*, vol.1, no.3, pages 1-5, 2015.
6. Neetu, Ganga Prasad Pandey and V.N. Tiwari, “Design of Circularly Polarized Planar Magneto-Electric Dipole Antenna”, *Progress in Electromagnetic Research C*, Vol. 67, pp. 21-29 2016.
7. Neetu and V. N. Tiwari, " A Novel Magneto-Electric Dipole Antenna for Ku Band", *Invertis Journal of Science and Technology*, Vol. 9, No. 3, pp. 1-9, 2016.
8. Neetu, Ganga Prasad Pandey, V.N. Tiwari and Sarabjot Singh Marwah, “A Novel Ultra-Wide Band Magneto-Electric Dipole Antenna with Cavity Reflector”, *Progress in Electromagnetic Research C* Vol. 63, pp. 143–152, 2016.
9. Neetu, Ganga Prasad Pandey, V. N. Tiwari and Sarabjot Singh Marwah, “A Novel Magneto-Electric Dipole Antenna with Modified Ground Plane”, *Journal of Telecommunications and Radio Engineering*, Volume 75, Issue 8, pp. 693-704, July 2016.
10. Neetu, Ganga Prasad Pandey, V. N. Tiwari and Sarabjot Singh Marwah, “A Novel Wideband Magneto-Electric Dipole Antenna with Improved Feeding Structure”, *Advanced Electromagnetics*, Vol 5, No 2, pp. 10-16, 2016.
11. Neetu, Ganga Prasad Pandey, V. N. Tiwari and Sarabjot Singh Marwah, “A New Ultra-Wide Band Magneto-Electric Dipole Antenna”, *The Mediterranean Journal of Electronics and Communication* April 2016.
12. Harsha Garua, Keshav Sharma and Chusen Duari, ”Verification of AMBA AXI Bus Protocol implementing INCR and WRAP burst using System Verilog”, *International Journal of Research in Engineering and Technology (IJRET)*, Vol. 5, issue 3, ISSN: 2319-1163, pp. 201-206, March 2016
13. Khandelwal, S., Garg, L., Boolchandani, D., "Reliability Aware Support Vector Machine Based High Level Surrogate Model For Analog Circuits," *Device and Materials Reliability, IEEE Transactions on*, vol.PP, no.99, pp.1,1, 2015.
14. R. Kumawat, V. Sahula, and M. S. Gaur, "Probabilistic Model for Nanocell Reliability Evaluation in presence of Transient Errors", *IET Computers & Digital Techniques*, Special Issue on "Designing with Uncertainty – Opportunities & Challenges", vol. 9, no. 4, pp. 213-220, ISSN 1751-8601, 2015.
15. Dinesh Yadav, Srikirthi Kandala and Vivekanand Tiwari, “Microstrip patch antenna for Wi-Max 2.5 GHz application using frequency slective surface with enhanced gain,” *31st National Convention & National Seminar on Electronics & Telecommunication Engineering for Sustainable Development*, IEI, 3rd and 4th Oct. 2015.

National/International Conference

1. Ekta Rewar, B.P. Singh, S.K. Lenka , “A Review on Digital Image Processing”, Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on "Electronics and Telecommunication Engineering For Sustainable Development, at MUJ, 3-4 October, 2015.
2. V N Tiwari et.al, “ Superstrate layer in Patch Antenna-A Review”, Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on Electronics and Telecommunication Engineering for Sustainable Development, at MUJ, 3-4 October, 2015.
3. V N Tiwari et.al, “ A Novel Design of Triple-Slot Rectangular Patch Antenna for Dual Broadband Applications”, Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on Electronics and Telecommunication Engineering for Sustainable Development, at MUJ, 3-4 October, 2015.
4. V N Tiwari et.al, “ Microstrip Patch Antenna for Wimax 2.5 GHz Application using Frequency Selective Surface with Enhanced Gain”, Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on Electronics and Telecommunication Engineering for Sustainable Development, at MUJ, 3-4 October, 2015.
5. V N Tiwari et.al, “ Compact Circularly Polarized Elliptical Patch Antennas”, Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on Electronics and Telecommunication Engineering for Sustainable Development, at MUJ, 3-4 October, 2015, MUJ.
6. Amit Kumar Singh, Md. Riyaj, P.A. Alvi, Amit Rathi, “Design and Parametric Investigations of Quantum well Heterostructures for Optoelectronic Devices”, National Conference on Advancements in Nanoelectronics and Communication Technologies (ANCT-2016), Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, 18th March, 2016.
7. Md. Riyaj, Amit Kumar Singh, P.A. Alvi, Amit Rathi, “Optimization of Laser Beam Brightness as a Parameter in Material Processing”, National Conference on Advancements in Nanoelectronics and Communication Technologies (ANCT-2016), Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, 18th March, 2016.
8. Anurag Anupam, Amit Rathi, “Recent trends in Antenna designs for Wireless Capsule Endoscopy”, Information and Communication Technologies (ICTs) for Health-care, IETE Zonal Seminar, MNIT, Jaipur, 5th March, 2016.
9. Amit Rathi, Amit Kumar Singh, “Enhancement of Patch Antenna using Metamaterial Structure for GPS and ZigBee”, Asian American Conference for Engineering and Technology, Nanyang Technological University, Singapore, 12 to 15 January 2016.
10. Shubham Gupta, Abhishek Bhushan and Amit Rathi, “Role of technology in unlocking the clean energy for smart grids” (Poster), one day workshop on “Smart Grid and Clean Energy Technologies-2015”-(SGCET-15)”, MUJ, 28 November 2015.
11. Mangal Das, Amit Kumar Singh, Amit Rathi and Sonal Singhal, “Memristor Based Startup Circuit for Self Biased Circuits”, 2nd International conference on emerging technologies: Micro to Nano, MUJ, 24-25 Oct 2015.
12. Harish Singh Kanyal, Ajay Kumar Bairwa, Amit Rathi, “Analyzing the effect of ellipticity on dispersion property of PCF”, Thirty first national convention of electronics and telecommunication engineers and national seminar on 'Electronics and telecommunication engineering for sustainable development, MUJ, October 3rd – 4th, 2015.
13. Rohit Mathur, Tarun Kumar Dubey, “Localization in Wireless Sensor Networks: A Survey”, in Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on "Electronics and Telecommunication Engineering For Sustainable Development, at MUJ, 03 -04 October 2015.
14. Renu Kumawat, Vineet Sahula, M.S. Gaur, “ Organic Molecules for future Molelectronics subsystems',

- Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on "Electronics and Telecommunication Engineering For Sustainable Development at MUJ, 03 -04 October 2015.
15. Aayush Panwar, Anadita Singh, Isha Gaur, Karan Datta, Renu Kumawat, "Smart home Automation using Internet of Things", Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on "Electronics and Telecommunication Engineering For Sustainable Development at MUJ, 03 -04 October 2015.
 16. N.S. Reddy, M.S. Saketh and S. Dhar, "Review of Sensor Technology for Mine Safety Monitoring Systems: A Holistic Approach", IEEE CMI 2016 CONFERENCE, Jadavpur University, Kolkata, January 8-10, 2016.
 17. Neha Singh, Sandeep Joshi, "*Digital Image Forensics: Progress and Challenges*", Proc. of 31st National convention of Electronics and Telecommunication Engineers, at MUJ, 03 -04 October 2015.
 18. Dinesh Yadav, Srikirthi Kandala, V. N. Tiwari, "*Microstrip Patch antenna for Wimax 2.5 GHz application sing frequency selective surface with enhanced gain*", Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on "Electronics and Telecommunication Engineering For Sustainable Development at MUJ, 03 -04 October 2015.
 19. Dinesh Yadav, Srikirthi Kandala, V. Sarala, Vivekanand Tiwari, "*Gain Enhancement of Microstrip Patch Antenna for Wi-Max 2.5GHz Application*", The 9th Annual International Conference on Antenna Measurement and Test Society (ATMS – 2016), Feb. Candolim, Goa, India, 1st–3rd Feb., 2016.
 20. Shruti Kadam, Sudhendu DasMahapatra, S. N. Sharan, "*Studies on optimization techniques in spectrum sensing and Cognitive Radio*", in Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on "Electronics and Telecommunication Engineering For Sustainable Development, at MUJ, 03 -04 October 2015.
 21. S. DasMahapatra, Rohit Sharma, S. N. Sharan, "*A review on cognitive radio: Smart Device for mix generation Wireless Network*", Second International Conference on Innovative Advancements in Engineering & Technology (IAET-2016), 1-2 April, 2016.
 22. Neetu, Ganga Prasad Pandey and V.N. Tiwari, "*A novel shorted magneto-electric dipole antenna*", proceedings of *National Conference on Recent Advances in Electronics & Computer Engineering*, pp.16-19, 2015
 23. Neetu, Ganga Prasad Pandey and V.N. Tiwari, "*A novel Magneto-Electric Dipole antenna*", research paper selected for presentation in *Manipal Research Colloquium, 2015*.
 24. Neetu, Ganga Prasad Pandey and V. N. Tiwari, "*A New Wideband End-Fire Magneto-Electric Dipole Antenna*", IEEE-MTT, Asia Pacific Microwave Conference, 8 December 2015.
 25. Deepika Bansal, B. P. Singh, Ajay Kumar, "*A Novel Low Power Keeper Technique for Pseudo Domino Logic*", IEEE CONECCT 2015, IIIT Bangalore, July 10th-11th, 2015.
 26. Parul, Deepika Bansal, "*Controlled X-Ray Beam Position Monitor*", National seminar on Electronics & telecommunication Engineering for sustainable development, The Institution of Engineers, MUJ, October 3rd-4th, 2015.
 27. Deepika Bansal, B. P. Singh, Ajay Kumar, "*Comparative analysis of improved Pseudo Domino logic*", National seminar on Electronics & telecommunication Engineering for sustainable development, The Institution of Engineers, at MUJ, October 3rd-4th, 2015.
 28. Chusen Duari, B. P. Singh, "*Low Power VLSI design strategies and methodologies: A Review*", in Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on "Electronics and Telecommunication Engineering For Sustainable Development, at MUJ, 03 -04 October 2015.

29. Rahul Pal, Kanishk katare, V.N. Tiwari, '*Helium wind turbine*', in Thirty First National Convention of Electronics & Telecommunication Engineers and National Seminar on "Electronics and Telecommunication Engineering For Sustainable Development, at MUJ, 03 -04 October 2015.
30. Renu Kumawat, Vineet Sahula, "*Molelectronics: An Alternative for future nanoscale subsystems*", International Conference and Technology Meet on Military and Marine Applications (IWCEM 2016), June 4 -6, 2016, Jaipur, India.

Workshops, Seminars, Conferences organized

1. A two day National Seminar on "Electronics and Telecommunication Engineering for Sustainable Development", Thirty First National Convention of Electronics & Telecommunication Engineers from 3 –4, October, 2015 at MUJ.
2. One day National Workshop on "Industrial Automation (PLC/SCADA) and Embedded system with Robotics" by Sofcon India Pvt. Ltd., from 21

- Nov., 2015 at MUJ.
3. A two-day workshop on "TIVA Launch Pad & ASLK Pro System Lab" jointly organized by MUJ and EdGate Technology, Bangalore (Texas Instruments India Program Partner) on 23rd and 25th January, 2016 at MUJ.
4. A two-day workshop on "Technical Manuscript Preparation with LaTeX" from 5th – 6th May, 2016 at MUJ.
5. A two day workshop on Industrial Automation & Drives (IAD-2016) from 27-28 May, 2016 at MUJ.

Invited Talk/Guest Lecture

1. "Design and Development of Micro-structured Optical Components for Photonic Integrated Circuit (PICs) applications" by Prof. Toshihara Saiki, Department of Electrical and Electronics Engineering, KEIO University Tokyo, Hiyoshi Campus Kanawava, Yokohama (Japan) on 06 Nov., 2015.
2. "Journey of NOKIA" by Dr. Sandeep Girotra, Vice and Country Head, Nokia (INDIA) on 12 Jan., 2016.



Faculty of Design

- > Architecture
- > Planning
- > Fine Arts
- > Fashion Design
- > Jewellery Design
- > Interior Design
- > Research



In the Faculty of Design we define design as a triangle of an exploratory, explanatory and logical process that includes creativity through the availability of design and innovation through latest technology. The combination of Design (for communication), Art (for creation) and Science (for innovation) to develop a product, are the foundation of the framework, program and curriculum at FoD. It is committed to the new educational model inspired by the idea of design and innovation as transformative forces in society. It is continuously developing the latest infrastructure to impart professional education.

FoD comprises of two Schools as given below.

School of Architecture & Design (SA&D) runs the Bachelor of Architecture (B. Arch), a five year program, which strives for excellence in architectural education and training for changing socio-cultural aspirations, environmental compulsions, material & technological innovations, the IT revolution and globalization of economies. Intake of this program is 40.

School of Planning & Design (SP&D) offers B.Plan, B.Des (Fashion Design, BFA (Applied Arts) and BSc (Interior Design) programmes.

Bachelor of Planning (B. Plan) is multi-dimensional in its scope and is applicable to complex technical and

social systems - this is what distinguishes it from other professions related to spatial context. Intake of this program is 40.

B. Des (Fashion Design) offers research and development based market oriented demanding career in the field of fashion. Development of a distinctive, qualitative, individual style in designing with innovation, understanding of market/client, skill development and technical know-how are the key points of the programme. Intake of this program is 40.

Bachelor of Fine Arts (Applied Arts) is an intensive and creative program to serve as an effective educational platform for students to ignite the innovative passion in them and develop them for a highly creative job oriented career. Intake of this program is 40.

B. Des (Jewellery Design) aims to prepare professionals to work on technicalities of jewellery design, production, quality control, promotion, branding and management. Intake of this program is 20.

B.Sc (Interior Design) involves creation of objects that influence the living habitat and workspace around humans. The program provides an integrated approach to the design of spaces redefining the boundaries of human lifestyle. Intake of this program is 60.

FOD Activities

“Foundation Day Celebration” of Faculty of Design (October 2015)

- INTACH membership to connect students with the rich heritage of Rajasthan
- Darpan', a students' magazine is published regularly

**Bachelor of Architecture (B.Arch) programme
New programs, labs, or initiatives started**

NATA Centre: To enable perspective students of Architecture for Online Aptitude Test



Bachelor of Architecture (B.Arch) programme

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Dr. N. K. Garg	Professor Emeritus (Design) & Advisor IP	Architectural Design, Thermal Environmental Control of Building Envelopes
2.	Dr. Madhura Yadav	Professor, Director - I/C & Head	Sustainability in Cities and Buildings, Architecture – Ecology Interface
3.	Ar. Sunanda Kapoor	Professor	Climate Responsive Architecture, Development of peri-urban areas
4.	Ar. Siddhartha Koduru	Associate Professor	Microgeneration and Energy Sustainability
5.	Ar. Swati Dutta	Associate Professor	Environmental Planning for eco-fragile & urban areas and Sustainable Urban Design Strategies
6.	Ar. Satish Vayuvegula	Associate Professor	Sustainability, Innovations in Architectural design, Professional Practice
7.	Ar. Sneha Singh	Assistant Professor	Interior Design, Building Services, Signages
8.	Ar. Neha Saxena	Assistant Professor	Architectural Conservation
9.	Ar. Bibhu Kalyan Nayak	Assistant Professor	Environmental Sustainability and Evolution of Indian Building Forms
10.	Ar. Bineet Chhajer	Assistant Professor	Building Materials, Construction and Services, Landscape architecture
11.	Ar. Siddhant Walia	Assistant Professor	Project management, Building Structures
12.	Ar. Manish Sharma	Assistant Professor	Urban Planning, Transportation Planning
13.	Ar. Abhas Verma	Assistant Professor	Architectural Design, Building Construction
14.	Ar. Vaibhav Kulshrestha	Assistant Professor	Working Drawing, Building Construction, Urban planning
15.	Ar. Jeevanti Satyarthi	Assistant Professor	Architectural Design, Urban planning

16.	Ar. Ruchi Raghuvanshi	Assistant Professor	Architectural and Urban Design
17.	Ar. Akshay Gupta	Assistant Professor	Architectural and Urban Design
18.	Ar. Vandana Patel	Assistant Professor	Architectural Design, Urban Planning
19.	Ar. Raunak Prasad	Assistant Professor	Housing, Urban Planning

Allied Faculty

S.No.	Name of faculty	Specialization
1.	Mr. Anant Kumar Ozarkar, Associate Professor	(Applied Arts, Basic Design, Visual Arts, Illustration, Design and Advertising)
2.	Mr. Muralidhar Kamath, Assistant Professor	(Concrete Technology, RCC, SOM, Structure, Construction Technology and Management and Green Buildings)
3.	Dr. Meenakshi Joshi, Assistant Professor	(Communication Skills, Vocational Psychology, Social Psychology and Gerontology)

Visiting Faculty

Ar. Shamini	Practicing Architect, Jaipur	Architectural Design
Ar. Puneet Duha	Practicing Architect, Jaipur	Urban Design
Ar. Anshuman Sharma	Practicing Architect, Jaipur	Architectural Design

R&D activities

1. Study model of Heliodon to understand the type and size of shading devices for climate responsive buildings – Ar. Sunanda Kapoor and Ar. VaibhavKulshreshtha (February 2016 – June 2016)

Student activities

1. Foundation Day 2015 was organized by students
2. Summer School to Vienna and Romania by 4th year students Ali Reza and Ananta DuttaMr. Hakim Ali Reza received a scholarship from Charles Correa Foundation for his academic performance (June-July 2015)
3. Study tour to Heritage Sites in Jaipur City for 1st year students (September 2015)
4. INTACH workshop on Heritage conservation and Documentation, organized by SA&D (October 2015)
5. Study trip to Sonipat and Delhi by 3rd year students to study Prefabricated construction techniques and sustainable building practices (October 2015)
6. CII-IGBC Students Chapter was inaugurated with an aim to inspire, instill and imbibe “Green”

approach for a sustainable tomorrow and a workshop on “Towards a Greener Tomorrow” was conducted for the students (February 2016)

7. Study tour to Aurangabad and Mumbai: Students of 2nd year SA&D along with the faculty members went on a study tour to Aurangabad to witness the historical City and its rich heritage (February 2016)
8. Study tour to Kerala: Students of 3rd year SA&D along with the faculty members went on a study tour to Kerala to study and document the works of the eminent architect Laurie Baker along with the vernacular architecture of the state (February 2016)
9. Design Workshop by Ar. Neelkanth Chhaya for the 4th year students (March 2016)
10. Concrete Testing And Construction Techniques: A day Field trip was organized for the 2nd year students (March 2016)
11. Student Visit to IIID Natcon, Indore: The theme for this year for IIID Natcon was 'Taking Design to the masses'. The theme discussed architecture and how we can mould it to make it available and pleasing to the masses (February 2016)

12. 'Portfolio Design' workshop was organized by SA&D. The aim of the workshop was to help the students present their portfolios in a presentable and creative manner. There were four sessions

during the workshop. These were based on Architectural Portfolio, Digital Tools, Current Trends in Portfolio and Market Expectations (May 2016)



Visitors to the Dept/invited lectures:

1. School of Architecture and Design organized a lecture by eminent architect Shirish Beri on the topic "Design Inspired by Nature" (Date: 10th Feb 2015)

Villages: A Case Example of Village in Mathura District at IEEE International Conference, Chennai on 15th and 16th July 2016.

Significant awards/distinctions

School of Architecture and Design, Manipal University Jaipur has been awarded prestigious "Indo Global Architecture Education Excellence Award" for promoting quality education in the field of Architecture and helping society in creating a vibrant and knowledge based student community, 28th December, 2015

Seminars and workshops organized

CII-IGBC Student chapter was organized in January 2016.

Conference papers

Sunanda Kapoor, 'Sustainable Development of

Department of Planning

B Plan Programme with 40 students

New Programme, Labs or Initiatives Started

Well-equipped GIS & Photogrammetry Lab with world class facilities has been established for mapping exercises at regional level, city level, and neighborhood level.



Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Prof. Pradeep Kumar Pandey	Professor & Head	Urban & Regional Planning
2.	Dr. Rachna Gangwar	Associate Professor	Traffic & Transportation Planning
3.	Ar. Sidharth Soni	Assistant Professor	Urban & Regional Planning
4.	Mr. Sandeep Reddy	Assistant Professor	Housing
5.	Mr. Ankur Yadav	Assistant Professor	Urban Planning
6.	Ms. AnushaVaddirajPallapu	Assistant Professor	Urban & Regional Planning
7.	Dr. Tejbhadur	Assistant Professor	Geology

Students Activities

Students of Planning have attended the Jaipur Literature Festival during 21-25 January, 2016.

Seminars/Workshops

A 4 day Workshop conducted on “Applications of Remote Sensing in Planning” from 11th-14th August 2015.

Visitors to the Department/ Invited Lectures

Lecture on "Right to the City" by Ms. Aruna Roy, Indian Political and Social Activist, Founder - MKSS (Mazdoor Kisan Shakti Sangathan), on 8th January, 2016.

**Department of Arts****Fine Arts Programme**

The Programme is supported by well-equipped Photography Studio, Computer Lab, Workshops and Visual Communication Studio.

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Mr. Anantkumar Dada Ozarkar	Professor & Head	Applied Arts, Basic Design, Visual Arts
2.	Ms. Pooja Jain	Assistant Professor	Graphic Designing, Content writing
3.	Dr. Kusum Kanwar	Assistant Professor	Theatre, stage designing
4.	Ms. Sherin Mathew	Assistant Professor	Graphic Designing
5.	Ms. Shraddha Shukla	Assistant Professor	Illustration

Students Activities

- Educational tour to Aurangabad and Mumbai (Date: 10th January – 15th January 2016)
- Exhibition & Display by Students at The Occasion of 3rd Science Congress, at MUJ, 28th Feb 2015
- Visit to The Annual Art Exhibition of IIS University 'Abhiviyakti- EkPrayass' at Jawahar Kala Kendra, 23rd Feb 2015
- Visit to Jaipur Literature Festival – 2015, 24th Jan 2015
- The Students of First Year B.F.A. (Applied Art) Participated in “Zest '15” Organized by St. Xavier's College, Jaipur, 16th-17th Jan 2015
- “Makar Sankranti Celebration”, 14th Jan 2015
- day visit to “Zee Jaipur Literature Festival” world's largest literary festival at Diggi Palace, Jaipur on 23rd January 2016.

Extension Activities

1. A Two day campaign planning workshop” by Mumbai based eminent applied artist & academician Prof. Ganesh Tayde (Date- 30th Sept – 1st Oct 2015)



Papers in Conferences:

Mahesh Jampala, “Awareness of the new media technologies in the classroom teaching among students in Jaipur City, India: An empirical research” in the 3rd International Conference on Applied

2. A two day calligraphy workshop by Jaipur based eminent calligraphy artist Shri Harishankar Balothia (13-15 Nov 2015), at MUJ
3. Organized “Drawing & Colour Study” workshop by a well renowned Kolkata based artist Mr. Shuvankar Biswas from 14-18th March 2016.



Business and Economic Research, New Delhi on July 30-31, 2016 and the paper was published in International Journal of Applied Business and Economic Research, Volume. 14, No. 4 (2016) issue.

Fashion Design Programme

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Ms Pratibha	Associate Professor	Design Methodology and Pedagogy
2.	Ms Deepshikha Sharma	Associate Professor	Hand made Textiles, Fashion Forecasting and Design Methodology
3.	Mr Harshwardhan Soni	Assistant Professor	Hand made Textiles, Fashion Forecasting and Design Methodology
4.	Ms Garima Gupta	Assistant Professor	Product Realization and Quality Control
5.	Ms Prabhjot Kaur	Assistant Professor	Garment Construction

Student activities

1. Fashion Design Students have participated in International Design Festival conducted by Society for Dyers and Colorists on 13th Aug 16.
2. Fashion Design students Visited to Handloom Expo. Jaipur on 18th Sep 2015
3. Students Visited to Ratan Exports, Jaipur on 19th September 2015
4. Fashion Design Department participated and displayed student's work at International Textile & Apparel Trade Fair –VASTRA 2015 from 28th-30th Sep 15.
5. Study Tour to Delhi and Gurgaon by Fashion & Jewellery design students from 22nd Oct. 15 to 25th Oct. 15.
6. Fashion Design Department Volunteered in “Sakhi Fashion Show” (an initiative of Hindustan Zink to promote Women Empowerment) at Clarks Amer Jaipur on 28th Oct 15.
7. Third Year Fashion Design students Visited to Nash Fashions on 28th Nov. 2015.
8. Educational Trip to Bhilwara to visit Textile Industries on 9th Feb 16 by 2nd Year Fashion Design Students.
9. Educational trip to Surajkund and India Design 2016, Delhi from 12th Feb to 13th Feb 16 for Fashion Design students.
10. Third Fashion Design Students have attended a Symposium on Crafts: A Contemporary Vision on 15th Feb 16 and interacted with world known Fashion Designer Ms Bibi Rushell from Bangladesh.
11. Traditional Textile Exhibition and Fashion Show “Kalasanstuti” by Department of Fashion Design students on 5th March 16
12. Second Year Fashion Design students visited at AMAZON FASHION WEEK 2016 on 17th March 16.
13. Third Year Fashion Design students visited at LAKME FASHION WEEK 2016 on 30th March 16.
14. MUJ Students won 2nd prize in fashion show competition at G D Goenka University on 18th March 16.

Conferences/Seminars/Workshops organized

1. Sustainable Craft workshop on 'Patwa Jewellery' 27th August 15 held in Fashion Design Department
2. Workshop on WGSN Forecasting Software from 27th Oct. 15 held in Fashion Design Department
3. Workshop on Surface Embellishment by Artisans from 23rd & 24th Feb 16 held in Fashion Design Department
4. Workshop on AUDACES by WELCO garment machinery pvt. Ltd. from 23rd May to 28th May 16 in Fashion Design Department
5. Fashion Show in Cultural Fest “ONEIROS 15” 9th Oct 15 and won First prize.

Visitors to the Dept/invited lectures:

1. Workshop on Fashion Forecasting & Design by Ms Harshmeet Hora, Fashion Stylist from Mumbai on 5th & 6th Feb 16 held in Fashion Design Department.
2. Workshop on Traditional Dyeing & Printing Craft of Rajasthan (Dabu & Tie & Dye) by world known Shilp Guru Badshah Miyan & R. K. Derewala from 20th Feb to 23rd Jan 16 held in Fashion Design Department.

Awards:

Ms Pratibha has been recognized as Program Reviewer for Design Education Quality Mark by INDIA DESIGN COUNCIL from 2015-2018



Jewellery Design Programme

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Ms. Ruchi Jain	Associate Professor & Programme Coordinator	Design, Marketing, Development of Resource centre
2.	Ms. Megha Kapoor	Assistant Professor	Design, Idea conceptualization, Gemology
3.	Ms. Sonali Sharma	Assistant Professor	Jewellery fabrication, Design entrepreneurship, Gemology

Activities

- Participation in career fair (May 20-22, 2016) for counselling sessions for FOD in Birla Auditorium, Jaipur.
- A talk on Careers in Jewellery at a design institute "Colorbox" (June 28, 2016) conducted by Mrs. Ruchi Jain

Interior Design Programme

Faculty members & their specializations

S.NO.	Name of Faculty	Designation	Specialization
1.	Ar. Richa Jagatramka	Assistant Professor	Craft Process, Collaboration and Design
2.	Ar. Apurwa Agrawal	Assistant Professor	History Theory and Criticism
3.	Ar. Chavi Jain	Assistant Professor	Interior Design
4.	Ar. Ankita Bhokad	Assistant Professor	Building Energy Efficiency

Student activities

- Field Trip to Wooden Furniture Factory, Sitapura Industrial Area, Jaipur and Stone and Light Studio, Mansarovar, Jaipur
- Study Tour to Bhopal and Gwalior as part of their educational tour.
- Management from IGNOU: March 2016
- Mr. Harshwardhan Soni has successfully completed SAKSHAM - IT CHAMPION TRAINING PROGRAMME from 11th to 16th March 2016 in MUJ
- Ms. Garima Gupta participated the workshop on "Pedagogic & Personal Effectiveness" on 21st to 23rd April 2016
- Ms. Garima Gupta completed the Summer Workshop on "Clay Modeling to Create Character" from 23rd to 27th May 2016 conducted by Industry and Online Programmes in NID
- Dr. Deepshikha Sharma successfully completed the Short Course in Fashion Forecasting from University of Arts London, Central Saint Martin, in June 2016
- Ms Pratibha attended a workshop on Thematic Costume Design by Craft Village Delhi on 18th to 19th June 2016

Conferences/Seminars/Workshops/Recognition

- Ms. Pratibha has been recognized as Program Reviewer for Design Education Quality Mark by INDIA DESIGN COUNCIL from 2015-2018
- Mr. Harshwardhan Soni visited KALA GODHA FESTIVAL on 12th Feb 16 to 13th Feb 2016
- Ms. Pratibha attended a Workshop on Colour Next 16 Trend spotting on 13th Feb 2016
- Ms. Pratibha attended a Symposium on Crafts: A Contemporary Vision on 15th Feb 16
- Mr. Harshwardhan Soni attended "Garment Technology Expo 2016 NSIC Okhla New Delhi on 27th - 28th Feb 2016
- Mr. Harshwardhan Soni completed Diploma in

Faculty of Arts & Law

School of Law

The School of Law follows a unique teaching pattern which includes extensive and intensive class room teaching with emphasis on participative learning. The thrust of the course is not just learning but also on professional training.

Modeled on the inputs provided by judges, legal practitioners and faculty, this 21st century institution is designed to give the students a stimulated real world experience in practicing their legal skills, ensuring that

after graduation, they will be able to walk into any courtroom and feel right at home.

The curriculum will be reviewed and redrafted every semester by incorporating new developments in emerging concepts. Teaching methodology will be to teach critical and analytical skills so as to comment & envisage transformation not only in law but also in administration of law. We ensure learning through research and teaching.



Faculty members & their specializations

S.No.	Name of faculty	Designation	Specialization
1.	Dr. Mridul Srivastava	Dean FoA&L	Mercantile Law
2.	Dr. Vijaylaxmi Sharma	Head	Mercantile Law
3.	Prof. T. Bhattacharyya	Prof. Emeritus	Tort and Crime
4.	Dr. Manivinder Singh Pahwa	Associate Professor	Corporate Law/ Finance
5.	Dr. Sony Kulshrestha	Assistant Professor	Mercantile Law
6.	Ms. Sunita Singh Khatana	Assistant Professor	Tort and Crime
7.	Ms. Shilpa Rao Rastogi	Assistant Professor	Constitutional Law/ Human Rights
8.	Ms. Vini Kewaliya	Assistant Professor	Tort and Crime
9.	Ms. Komal Jain	Assistant Professor	Administrative Law
10.	Ms. Kanika Dhaka	Assistant Professor	Criminal and Security Laws
11.	Mr. Vikram Singh	Assistant Professor	International Law
12.	Mr. Pradeep Kumar	Assistant Professor	Mercantile Law

Academic Programmes / Student intake

B.A., LLB (HONS):	120 Students
LLB:	60 Students
LLM:	30 Students

Department/ Student Activities:

- Organized Quiz Competition on August 7, 2015.
- Organized special lecture by Justice V S Dave on August 4, 2015.
- Organized guest lecture by Mr. R D Rastogi, Add. Solicitor General of India, on August 5, 2015.
- Organized special lecture by Justice G S Sanghvi on September 19, 2015.
- Organized Mock Parliament on September 26, 2015.

Conferences//Seminars/Workshops organized:

1. Workshop on “Formation/ Incorporation of Companies”, June 1-3, 2016.

2. National Moot Court Competition, on February 27-28, 2016, in association with Ranka Charitable Trust. Thirty-six teams from various Law Universities covering 18 States of India participated in the competition. The inaugural session was graced by Honorable Mr. Justice Amitava Roy, Supreme Court of India. Cash prizes were given to the Winning and Runner up teams, Best and second best student Advocates and Best Researcher.

School of Humanities & Social Sciences

Department of Economics

New lab: Faculty Research Lab has been started on 12th May 2016.

Faculty members & their specializations

S.No.	Name of faculty	Designation	Specialization
1.	Prof Manju Singh	Professor & Director	Developmental Economics, Gender and Environment
2.	Dr. Kamalkant Gaur	Associate Professor & Head	Labor Economics & Social Security
3.	Dr. Mahendra Parihar	Associate Professor	Transport, Infrastructure, Industrial & Agricultural Economics
4.	Dr Aparna Makkar	Assistant Professor	Economics of Education
5.	Dr Shilpi Gupta	Assistant Professor	Environmental Economics, Mathematical Economics, Statistics
6.	Dr Oum Kumari R	Assistant Professor	Energy Economics
7.	Ms. Varuni Sharma	Assistant Professor	Econometrics, Statistics, Microeconomics
8.	Dr. Pallavi Tak	Assistant Professor	Urban Sustainability, Development Economics, Entrepreneurship, Green Agriculture
9.	Dr. Manas Roy	Assistant Professor	Development Economics, Econometrics, Statistics

Sponsored/consultancy projects undertaken:

1.	Title	‘An Economic Analysis of State Transport Undertaking – A Case of Rajasthan State Road Transport Corporation (RSRTC)
	Faculty Member	Dr Mahendra Parihar & Dr Shilpi Gupta
	Funding organization	MUJ
	Year, Duration & Outlay	2015-16, 1 Year & 1 Lakh
2.	Title	Entrepreneurship and Employability
	Faculty Member	Dr Manju Singh
	Funding organization	FAEA, New Delhi
	Year, Duration & Outlay	2016-17, 7 Days & 6.5 Lakhs

R&D activities

1. Manju Singh, "Environment sound technologies: exploring and modeling barriers using modified UTAUT model" published in IJPMB, March 2016.
2. Manju Singh, "Generating New Venture Ideas: The use of consciousness of Abstracting in Entrepreneurship Education", Entrepreneurship Education: Experiments with Curriculum, Pedagogy and Target Groups, Thomas Springer Nature Singapore Pvt. Ltd, April 2016.
3. Manju Singh, "Enablers and Barriers of Flexible Green Supply Chain Management: A Total Interpretive Structural Modeling Approach", Global Journal of Flexible System Management, Springer, May 2016.
4. Manju Singh, "Enablers and Barriers of Mobile Banking Opportunities in Rural India: A Strategic Analysis", International Journal of Business Excellence, April 2016.
5. Mahendra Parihar, "Economics of Energy and Infrastructure: A Case of Road Goods Transport Industry in India" published by Excel Publishing House, New Delhi, February 2016.
6. Mahendra Parihar, "Scarcity of Drivers in Road Goods Transport Industry in India: A Challenge to India's trade at National and International Level" published by Business Sandesh International Journal of Multidisciplinary Research, January 2016.
7. Shilpi Gupta, "Decoupling: A step towards sustainable Development with reference to OECD countries", International Journal of Sustainable Development & World Ecology (Taylor & Francis)(DOI: 10.1080 / 13504509.2015. 1088485), September 16, 2015.
8. Shilpi Gupta, "Economics of Climate Change & the Global Combat Mechanism", International Journal of Research, Vol-02, Issue-05, 2015 pp. 113-135, ISSN 2348-6848.
9. Oum Kumari R, "Analysis of Residential Electricity Demand for Demand Side Management in Rajasthan", International Journal of Economic Research, June 2016.
10. Oum Kumari R, "Role of Financial Literacy for Financial Inclusion", International Journal of Business and Applied Research, June 2016.
11. Oum Kumari R, "Sustainable Residential Electricity Consumption - A study of Jaipur City", Indian Journal of Applied Research, August 2015.

Student activities:

1. 8 students have undergone summer internship program to various institutes in India and abroad during June-July, 2016.

Conferences//Seminars/Workshops organized:

1. A Seven Day workshop on "Entrepreneurship and Employability", held on 11 to 17 January 2016.
2. A Three Day workshop on "Paper Writing", held on 25 to 27 June 2016.
3. A One Day workshop on "How to Write Scientific Research Proposal", held on June 03, 2016.
4. A One Day workshop on "Training on Excel and SPSS", held on March 28, 2016.
5. A One Day workshop on "Revisiting a curriculum Development", held on March 14, 2016.
6. A one Day workshop on "Basic Understanding of Econometrics", held on March 01, 2016.

Visitors to the Department/invited lectures:

1. Dr Anoop Kumar Atrey, Department of Economics Government College, Ajmer, "Interactive Session Let's Understand basic elements of Macroeconomics" on March 18, 2016.
2. Dr. Rajesh Tandon, Founder of Participatory Research In Asia (PRIA), "Discussion Meeting on Community Based Research" on March 18, 2016.
3. Dr. L. David Brown, Researcher-Consultant on Civil Society and Development, Harpswell, Maine, "Discussion Meeting on Community Based Research" on March 08, 2016.
4. Dr Ruth Kumari, Assistant Prof, London School of Economics, "Multidisciplinary Learning in Institutions of Higher Learning" on March 01, 2016.
5. Mr. Partho Sengupta, National Creative Head of Times Response at The Times of India, "LSD (Life. Stories. Design)" on January 16, 2016.
6. Mr. Sidharth Tuli, Human Resources Professional, "Think Like a Champion" on January 15, 2016.
7. Prof. Madan Mohan Pant, Former Professor and Head of Computer Science Department at IIT Kanpur and former Pro-Vice-Chancellor, IGNOU, "Mega Trends in Computer

8. Technology” on January 12, 2016.
Mr. M L Bapna, Former CEO of HV Axles and HV Transmissions, “Guest Lectures 'Entrepreneurship and Innovation' and 'Expect the Unexpected-Life Skills’ on January 12, 2016.
9. Professor Vrajendra Raj Mehta, Chief Mentor of

the Foundation for Academic Excellence and Access (FAEA) and former Vice-Chancellor, University of Delhi, “Inaugural Speech at the National Workshop on Entrepreneurship & Employability Skill Development” on January 11, 2016.



Department of Languages

The Department of Languages is committed to the promotion of critical thinking, humanistic values, connectivity amongst cultures and linguistic competence, through its various programmes in the domain of literature and language. The BA Honours programme in English prepares students to develop and upgrade their language competence, gain training in critical inquiry and debate, and develop their literary sensibility. The PhD Programme of the Department of

Languages caters to research scholars in English and in Hindi. The Department also runs a Certificate programme in German. German and French courses are taught in different faculties with a view to preparing students for exchange programmes and work opportunities abroad. The department is committed to develop professional standards of communication in students across various disciplines.

Faculty members & their specializations

S.No.	Name of faculty	Designation	Specialization
1.	Prof. Sudha Rai	Professor & Head	Migration and Diaspora Studies, Postcolonial Literatures, Disability Studies
2.	Prof. Richa Arora	Professor & Director Admissions	Communication Skills, British Literature, Indian Writing in English
3.	Dr. Priyanka Chaudhary	Associate Professor	Indian Writing in English, Australian Literature, Diaspora Literature
4.	Dr. Rabindra K Verma	Assistant Professor	British Literature, Gender Studies
5.	Dr. Arun Dev Pareek	Assistant Professor	Diaspora Studies, Indian Writing in English
6.	Dr. Yashoda Kumari	Assistant Professor	African Literature
7.	Dr. Gaurav Mathur	Assistant Professor	Literature and Cinema
8.	Dr. Arun Kumar Poonia	Assistant Professor	Multimodal Discourse Analysis
9.	Mr. Skand	Assistant Professor	Historical Narratives and Regional Identity
10.	Dr. Arpit Kothari	Assistant Professor	Indian Writing in English
11.	Ms. Atika Srivastava	Assistant Professor	French Language
12.	Mr. Hemant Agrawal	Associate Professor	German Travel Literature on India

Academic programmes

B.A English (Hons.): 20 students
 Certificate Course in German: 65 students
 PhD (English & Hindi)

Any new programs, labs, or initiatives started:

The content for French, German and Hindi languages has been installed in the Language Lab in July 2016.

Department Activities:

9. Professor Vrajendra Raj Mehta, Chief Mentor of the Foundation for Academic Excellence and

Student activities:

- A Workshop on “Business Communication Techniques” was organized on March 31st, 2016.
- Matra-Bhasha Divas was organized on March 3, 2016.

4. Conference/symposia/workshops/seminars papers by faculty:

- Matra-Bhasha Divas was organized on March 3, 2016.
- Kusum Sharma, “Sathiya: Kavya Sankalan: Ek Samiksha” Spandan, Mahila Saikhnik Sansthan, 15th May 2016.
- Hemant Agarwal, “Goethes literarische Reisen”, Goethe Society of India & Indo German Society Jaipur, 15th - 16th

December 2015.

- Arun Dev Pareek, “Impact of Literary Texts on Environment Conservation, Department of Zoology and Biotechnology, Govt. Girls PG College, Ujjain, 19-20 September 2015



Department of Psychology

The Department of Psychology was established in August 2012 and is a part of School of Humanities and Social Sciences. The department has faculty with specializations in Applied Psychology, Clinical Psychology, Vocational and Counselling psychology and I/O Psychology. The Year 2013 marked the start of PhD program in Psychology and in the following year of 2014, B.A. Hons. Psychology was introduced along with Psychology being offered as a subject in B.Sc as a subsidiary course. The department has a well-equipped laboratory with psychological tests and experimental apparatus which forms a base for any psychological laboratory. The laboratory also has a biofeedback section

that is used to train the students on the biofeedback therapy. The department actively engages itself in activities all throughout the year such as mental health week, guest lectures, workshops, seminars and conferences. Eminent resource person are invited for the workshops, seminars and guest lectures organized by the department. Department also organizes educational visits to impart practical knowledge to the students to develop expertise in the subject.

Academic Programmes:

	Student Strength
B.A Honors	12
PhD	02 (part-time)

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Dr. Geetika Tankha	Professor & Head	Applied Psychology, Positive Psychology, Clinical Psychology
2.	Dr. Meenakshi Joshi	Assistant Professor	Vocational & counselling Psychology
3.	Dr. Charu Dhankar	Assistant Professor	Health, Clinical, Abnormal Psychology
4.	Dr. Gargi Sharma	Assistant Professor	Social & Positive Psychology
5.	Dr. Kriti Vashishtha	Assistant Professor	Social, Organizational, Counselling Psychology, Sports Psychology
6.	Dr. Prashasti Jain	Assistant Professor	Industrial, Positive and Applied Psychology
7.	Ms. Bhawna	Assistant Professor	Cognitive & clinical Psychology

Research:

1. An MOU has been signed with the Cognovo research program and Plymouth University, UK, under which a research scholar from University of Plymouth would pursue his secondment in the department.

Student Activities:

1. Three students completed the internship during summer vacation, June-July 2016.

Departmental Activities:

1. Organized "Mental Health Week" during 6 -8 October, 2015.
2. Visit to "UMANG"- An NGO for Special Children on 7 October, 2015.
3. Poster making Competition on the theme "Act, Belong, Commit" on 8 October, 2015.
4. Organized Workshop on "Career development skills" on 29 March 2016.

Papers published by Faculty Members:

1. Sharma, J., & Tankha, G. (2015). Perceived parenting style and hardiness in rural and urban adolescents. Indian Journal of Health & Well-being, Vol.6, 958-962. ISSN.2229-5356.
2. Dhankar, C. (2015). Reverberations of Hypertension on Psychological Wellbeing of Individual. ERPA International Journal of Economic Growth & Environmental Issues, August 2015, InnoSpace, ISSN: 2347-4378. IF-3.059.
3. Dhankar, C. (2015). Exploring the role of dermatoglyphics in learning- A case study. International Journal of Social Sciences and Management vol.2, No. 3, July 2015, SEM-Biotech, 301-303, ISSN: 2091-2986 (online). IF-3.389.
4. Sharma, G, Kaur, S., & Pandav, K. (2015). Role of Family Environment on Adolescent Well Being. International Journal of Recent Scientific Journal, 6(12) IF-5.

5. Sharma, G., & Khan, I. (2015). The Relationship between Cognitive Abilities with Big Five Personality Factors" The International Journal Of Humanities & Social Studies (ISSN 2321 - 9203) Volume 3, Issue 12, December, 2015.
 6. Vashishtha, K. (2015). Treatment of Separation Anxiety Disorder- A Clinical Case Study. International Journal of Case Studies vol. 4, issue 6, July 2015, 14-20, ISSN: 2305-509X (online). IF- 3.582.
 7. Vashishtha, K. (2015). Relation of economical, physical, psychological, social and educational status of Indian adolescents. ERPA International Journal of Economic Growth & Environmental Issus, August 2015, InnoSpace, ISSN: 2347-4378. IF-3.059.
- Paper presented in Conferences/Seminars by Faculty Members:**
1. Tankha G., "Big five personality and Psychological capital among final year medical students" .In 1st Asia Pacific conference on Pursuit of Happiness, organized by University of Rajasthan, Jaipur, from 1st-2nd March 2016.
 2. Tankha G., "Relationship of trait emotional intelligence and big five personality traits in college going students". In 1st Asia Pacific conference on Pursuit of Happiness, organized by University of Rajasthan, Jaipur from 1st -2nd March 2016.
 3. Dhankar C., "Integrated interventional approach aiming for weal". In 1st Asia Pacific conference on Pursuit of Happiness, organized by University of Rajasthan, Jaipur, from 1st -2nd March 2016.
 4. Sharma G. & Jain P., "A comparative study of stress, self-esteem and job satisfaction among teachers". In 1st Asia Pacific conference on Pursuit of Happiness, organized by University of Rajasthan, Jaipur from 1st -2nd March 2016.
 5. Vashishtha K. "Personality, Anxiety and Adjustment of Learning Disabled Children". In 1st Asia Pacific conference on Pursuit of Happiness, organized by University of Rajasthan, Jaipur from 1st -2nd March 2016.
 6. Vashishtha K. "Impact of learning empathy and assertiveness on adolescents' aggression and adjustment". In International Conference, organized by Indian Association of Health, Research and Welfare from 16th -18th January 2016.
 7. Vashishtha K. "Hardiness and Psychological Wellbeing". In International Conference organised by Department of Physical Education, Punjab University, Patiala from 18th -20th February 2016.
 8. Jain P., "Happiness - A search in the woods". In 1st Asia Pacific Conference on A pursuit of Happiness organized by University of Rajasthan, from 1st-2nd -March 2016.



Psychological Laboratory

Department of Arts

Art is that by which we “art”iculate our lives. The Department of Arts was newly created in December 2015 under the School of Humanities and Social Sciences, Faculty of Arts and Law. It consists of Philosophy,

Physical Education and Political Science, and seeks to enhance and effect the “art”iculation of life in unique and creative ways through its specially designed programs.

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Prof. (Dr.) Anthony Savari Raj	Professor & Head	Philosophy (Intercultural Philosophy)
2.	Dr Rina Poonia	Associate Professor	Physical Education (Sports Psychology)
3.	Dr Pradeep Singh Chahar	Assistant Professor	Physical Education (Exercise Physiology)
4.	Dr Radhika Mohan Gupta	Assistant Professor	Political Science (International Relations)
5.	Dr Divya Agnihotri	Assistant Professor	Political Science (South Asian Studies)
6.	Dr Robin Luke Varghese	Assistant Professor	Philosophy (Philosophy of Mind)

R&D Activities:

1. Savariraj Anthony, "Cosmic Confidence in Interreligious Dialogue" CIRPIT REVIEW, No. 5, Revisita Internazionale on-line, MIMESIS, Milan, Italy, September, 2015.
2. Savariraj Anthony, "The 'Hope' of Traditions for Human Future," CIRPIT REVIEW, No. 5, Revisita Internazionale on-line, MIMESIS, Milan, Italy, September, 2015.
3. Savariraj Anthony, "Universalizing the Human Rights or Humanizing the Cosmos: Theorizing a mutually Fecundating Knowledge" in Knowledge, Theorization and Rights: Renegotiating the Connectives, Salesian College Publication, Siliguri, December, 2015.
4. Savariraj Anthony, "Development as Cultural Innovation: Some Cross-cultural Considerations", New Horizons of Human Development, Studera Press, Delhi, October, 2015.
5. Poonia Rina, "The Effect of Anuloma Viloma Pranayama and Kapalhati on Resting Pulse Rate and Stress of School Going Children in Jaipur" American Research Thoughts, Volume 1, Issue 12, October 2015.
6. Chahar Pradeep, "Eating disorder among

Adolescents: A cause of concern" International Journal of Physical Education, Sports and Health, March, 2016.

Student Activities:

1. 1st National Sports Day –27th August 2015.
2. Seminar on Dilemmas of Students, 31st Oct. 2015.
3. Two day Workshop on Yoga and Wellness, 17-18 March 2016.
4. Open Debate Session on "Technology has Enhanced Life" at TECHIDEATE '16.
5. Harmony Trip, 20 Feb 2016.
6. "Essay Writing Competition" on the Occasion of the 153 Birth Anniversary of Sardar Vallabhbai Patel. Essay Title: "Patel's India Symbol of Unity or Uniformity?" 30 Oct 2015.
7. Sophia Quiz during ONEIROS '15, 9 Oct 2015.

Extension Activities:

1. National Workshop on "Research Methodology for Sports Sciences using SPSS" from Oct. 26 to Nov. 01, 2015.
2. Two Day Workshop on Yoga and Wellness, 17-18 March 2016.
3. One Day Workshop on Healing Therapy, 26th April, 2016.

Department of Journalism and Mass Communication

The growth of Communication and Media Studies beyond their epistemic and ontological boundaries is internationally acknowledged and explored for establishing a system of democratic global community. For proliferating the same vision among the learners, the Manipal University Jaipur has started Bachelor of Journalism and Mass Communication Programme (3-years) in 2012 and PhD under the Department of Journalism and Mass Communication. The curriculum covers all major & minor areas of Journalism Mass Communication and Film Studies.

The School has recruited industrially skilled faculty members and scholars of their specific domains. The department also stands for contemporary advanced course in Journalism and Mass Communication that open immense opportunities for the students.



New programmes, labs, or initiatives started -

- a) Lab Details:
 - Editing Lab
 - Audio Recording Studio
 - Mini Studio
 - Projection Room
 - Studio One (Workshop Zone)
 - Print Media Lab
- b) Certificate Course in Acting

Academic Programmes:

	Student Strength
B.A (J&MC)	261
M.A (J&MC)	11
Ph.D.	10



Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Prof. Ravi Chaturvedi	Director	Film Studies
2.	Dr. Rayaz Hassan	Associate Professor & Head	Photography, Television and Video Programme Production,
3.	Dr. Ramesh Rawat	Associate Professor	Print Media, Advertising, PR&CR,
4.	Dr. Subhash Kumar	Associate Professor	Print Media, Media Writing, Reporting
5.	Dr. Oinam Bedajit Meitei	Assistant Professor	Film Studies, Designing for Print Media
6.	Dr. Saad Ullah Khan	Assistant Professor	Print Media, Mass Communication Theories and Practices, Science Communication
7.	Mr. Tanveer Ahemad	Assistant Professor	New Media, Print Media and Event Management
8.	Ms. Vaishali Kapoor	Assistant Professor	TV and Radio journalism, Web Journalism, Heritage and Cultural tourism
9.	Mr. Rahul Babu Kodali	Assistant Professor	Broadcast Media, Communication, Advertising
10.	Ms. Ambika Bhagat	Assistant Professor	Visual Communication, Visual Culture, Communication Theories & Practice
1.	Honorary Adjunct Faculty: Prof. Ram Sharan Joshi		

Sponsored/consultancy projects undertaken:

Tanveer Ahmed, "A Media Perspective of Expectations and Challenges to the Small Scale Printing Industries in Bagru town" funded by Manipal University Jaipur, duration 2 years (2014-16), outlay 1 lakh, continuing.

Research papers published in Journals:

1. Oinam Bedajit Meitei, "Intertextuality of Film Remakes of Devdas: Romanticism from the Perspective of Indian Aesthetics", South Asia Research, Sage Publication, Vol.36, No.1, Page 24-40. February 2016.
2. Saad Ullah Khan, "Coverage of the Indian Cricket Team in World Cup 2011 by the Times of India: A Content Analysis", International Journal of Multifaceted and Multilingual Studies, Vol. 2(1), Sept 2015.
3. Saad Ullah Khan, "Assessing the Importance of Globalization and New Media Technology in 21st Century: An Analytical Overview", International Journal of Multifaceted and Multilingual Studies, Vol. 1(4). ISSN: 2350-0476, Dec 2015.
4. Tanveer Ahemad, "Digital Media and Culture: The Divide between Traditional and Modern Communication Culture", International Journal of Higher Education & Research Studies, Vol 3(2), October 2015.
5. Tanveer Ahemad, "Socio-religious advocacy in Persian and Urdu Press and its Role in First War of Independence: An Analytical Overview", International Journal of Multifaceted and Multilingual Studies (IJMMS), Vol2 (3), February 2016.

Student activities:

1. Visits throughout the year to heritage city of Jaipur, Dainik Bhaskar and Samachar Jagat, DNA News Paper offices, MY FM Studio, etc. Also regularly organized intra-class debate, photography exhibition.
2. Participated in Doordarshan Jaipur Quiz Competition, etc.
3. Attended Two-Day International Conference

held at Hotel Fort Canning, Singapore,

Conferences/Seminars/Workshops organized:

1. Jaipur Photojournalism Seminar in collaboration with Imagine Photojournalist Society, 1 October 2015.
2. Puppet Making Workshop, 17-22 November, 2015.
3. Two Day S &T Communication Programme, DST, GOI, during December 2015.
4. Film Projection during JIFF, 2- 6 January, 2016.
5. R J Hunt, MYFM 94.3 on 1 February, 2016.

Visitors to the Department/invited lectures:

1. Dr. Pamposh Kumar, FIC, Scientist 'E' & Member Secretary of Tech. Advisory Committee in NCSTC, DST, GOI.
2. Prof. Rajan Mahan, Professor, Harideo Joshi Journalism Institute, Rajasthan University, Jaipur.
3. Prof Ram Sharan Joshi, Senior Journalist & Former VC, MCJMU Adjunct Professor.

Conference/symposia/workshop papers by faculty:

1. Ramesh Kumar Rawat, "Print industry Trends and Developments" in International Conference organized by Department of Business Finance and Economics, Faculty of Commerce and Management Studies, Jai Narain Vyas University, Jodhpur, India, 8-10 October, 2015.
2. Ramesh Kumar Rawat, "News Content Analysis about violence against Women in Print Media: A Study of Major Hindi Newspapers Published in Jaipur", All India Media Educators Conference organized by University of Rajasthan, Lok Samvad Sansthan, 22-24 April, 2016.
3. Oinam, B.M., "Digital Technology and the Reinvention of the Manipuri Moving Image Experience" at International Conference on Media & Communication, Amity School of Communication, AMITY University Jaipur, 20 - 22 November, 2015.
4. Oinam, B.M., "Manipuri Cinema through the Lens of Aribam Syam Sharma- An Analytical Study," UGC sponsored National Conference on 'Indian Cinema: Past, Present & Future' at VPM

5. College, Thane, Mumbai, 8-9 January, 2016.
5. Khan, S.U., “Daughters of USSR: Soviet Women contribution in WWII” in Seminar held at Russian Culture House; Embassy of Russia, New Delhi, June 13, 2016.
6. Khan, S.U., “Assessing the Pashtun Cultural Dynamics and its impact on South Asian Region: A comprehensive Overview” held at Guru Nanak Dev University, Amritsar, March 25-26, 2016
7. Khan, S.U., “Assessing the importance of religion in the historical development of science: An Analytical overview” International Conference held at Khalsa College, Anandpur Sahib, November 27-28, 2015.
8. Khan, S.U., “Socio-Religious Advocacy in Persian and Urdu Press and its role in First War of Independence (1857): An Analytical Overview” organized by Khalsa College, Anandpur Sahib, October 16-18, 2015.
9. Tanveer Ahemad, “Digital Media & Culture” organized by Higher Education Society, Mumbai at Vasanttrao Naik Institute of Arts & Science, Nagpur, September 11-12, 2015.
10. Tanveer Ahemad, “Socio- Religious Advocacy in Persian & Urdu press”, South Asian Conference on Religion & Culture organised by Punjabi University, Patiala (Punjab), October 16-18, 2015.
11. Ambika Bhagat, “Critical Approach to Media Education” during conference organized by Media Education by Don Bosco University, Guwahati, Assam, November 2-3, 2016.

Department Activities

1. Organized One Day Seminar on the topic 'Critical Appraisal Skills for Media Reporting on Health', on August 11, 2015.
2. Organized One Day Seminar through Skype on Media Doctor on August 28, 2015.
3. Organized Jaipur Photojournalism Seminar in collaboration with Imagine Photojournalist Society on October 1, 2015.
4. Organized Photography Workshop – Canon and MUJ on March 28-29, 2016.

5. Organized Three Day Film Appreciation Workshop on June 2-4, 2016.



Faculty of Management and Commerce

TAPMI School of Business (TSB), is mentored by TMA Pai Management Institute (TAPMI). TSB operates with a vision to make it a world class Centre of excellence in business management education. It has a right blend of faculty drawn from industrial background as well as rich academic experience which helps in the holistic development of students.

The school provides a rich learning environment comprising of a portfolio of pedagogical tools that includes class room interactions, case study discussions, role play, group discussions, film shows, games, field projects and seminars by various industry experts and eminent academicians.

It provides a right balance of classroom learning and practical exposure to turn students into successful professionals and inspiring business leaders. It lays

emphasis on experiential learning process. The learning environment, curriculum, ambience etc., are conducive for the all-round growth of students as required by corporate world.

TSB Collaborations

1. MoA with TAPMI, Manipal
2. MoA with GlobalNxt University, Malaysia
3. MoU with California State University, Monterey Bay, California, USA.

Academic Programmes

1. Master of Business Administration (MBA), student intake 120.
2. Executive MBA, student intake 25

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Prof Nilanjan Chattopadhyay	Prof & Dean FoM&C	Information Management
2.	Prof Raghuvir Singh	Director	International Business & Strategic Management
3.	Prof Amit Jain	Professor	Marketing
4.	Prof Vidu Soni	Professor	Human Resource
5.	Dr Samar Sarabhai	Associate Prof & HOD	Marketing
6.	Dr C Anirvinna	Associate Professor	Economics
7.	Dr Umesh Solanki	Associate Professor	Finance
8.	Dr Sankersan Sarkar	Associate Professor	Finance
9.	Dr Deepti Sharma	Assistant Professor	Human Resource
10.	Mr Rahul Sharma	Assistant Professor	Finance

International Faculty

1. Prof Wing Lam – VC, Global Nxt University, Malaysia.
2. Prof Shyam Lodha – Chairman, Marketing Department at Southern Connecticut State University, USA.
3. Dr Jay P Mulki, D'More – Mckim School of Business, Boston, USA.

Student Activities

1. Induction programme for new entrants. & HR Conclave August 2015.
2. Fresher's Party – September, 2015.
3. Industrial visit to Rajasthan Co-operative Dairy & Akshay Patra - October, 2015.

4. Outdoor Management games – November, 2015.
5. Industrial visit to World Trade Park – February, 2016.
6. Product Mela – March, 2016.
7. Team building trip MBA 1st year – March, 2016.
8. Industrial visit to Mahindra & Mahindra – April, 2016.
9. Industrial visit to Hotel Jaipur Ashok
10. Farewell party to outgoing batch 2013-2015.

Conferences/Seminars/Workshops organized

1. Workshop on BRM, using SPSS organized, July, 2015.
2. HR Conclave – August, 2015
3. Grooming Workshop on Dinning etiquettes, social etiquettes, handling GD & PI and other

- managerial communication skills.-October, 2015.
4. HELM (Higher Education Leadership Meeting) – December, 2015.
 5. Post Budget Seminar – March, 2016

Experts from Academia invited

1. Prof SS Bhakar, Director, Prestige Institute of Management, Gwalior.
2. Prof Anil Mehta, Rajasthan University Jaipur
3. Prof Raghuram, Dean (Faculty), IIM Ahmedabad.
4. Dr Swati Soni, Faculty Jaipuria Institute of Management, Jaipur.
5. Dr Karunesh Saxena, Director, FMS, MLS University, Udaipur.
6. Prof Supriya Agarwal, HOD, Department of Social Sciences, Central University Rajasthan.
7. Prof RC Natarajan, Director, TAPMI Manipal.
8. Prof Gururaj Kidiyoor, Dean (Faculty) TAPMI, Manipal.
9. Dr Sangeeta Sharma, Faculty, BITS Pilani.
10. Dr Sachin Kumar, Faculty, Govt College Chowari, Chamba, HP.
11. Prof Madhu Veeraghavan, Faculty, TAPMI, Manipal.
12. Prof CP Shrimali, Director, MDI, Gurgaon.
13. Prof Som Dev, Advisor, ICCSR, New Delhi.
14. Prof SK Chaubey, Centre for Public Planning & Development Studies, New Delhi.
15. Dr SS Rao, Institute of Rural Management, Jaipur

Experts invited from Industry

1. Mr Apurva Kumar, Executive Director, Hotel Clarks Amer, Jaipur
2. Mr Narip Bajwa, Assistant Vice President, Marketing, Shree Cement.
3. Mr Sudhir Arya, Manager HR Vodafone
4. Mr Kishore Chainani, GM, HR, Genpact, Jaipur.
5. Mr Thakur Bhaskar, National Head & Sr Vice President Kotyack Mahindra, Jaipur
6. Mr Prashant Sipani, CA, Jaipur
7. Mr Ashish Dhayal, Marketing Manager, Bajaj Auto, Pune.
8. Mr Mohan Tiwari, CEO Student Destination,

9. Bangalore.
10. Mr Keerti Prasanna, Marketing Consultant of Bangladesh Govt.
11. Mr GP Garg, Chartered Accountant, Jaipur
12. Mr Vikas Chaudhary, Senior Economist, World Bank
13. Mr Ashok Singh, Head, Mahindra Tractor Plant Jaipur
14. Mr Abhinav, Area Sales Manager, JK Helen Curtis, Mumbai.
15. Mr Sidharath Tuli, HR Head, L&T Hydrocarbon
16. Mr Sshish Anand, Vice President, Marketing & Operations, Hotel OM Towers, Jaipur
17. Mr Amit Tyagi, Manager HR, JCB, Jaipur
18. Mr Sachin Chaudhary, Director, Hashtagit, Gurgaon
19. Mr Rajesh Krishnia, Manager, VM Waves, Mumbai
20. Mr Rishi Shah, Chief Economics, Delloitte, Gurgaon.
21. Mr Bhupendra Mantri, Chartered Accountant, Jaipur
22. Dr Arvind Kalia, Advisor (Marketing) Rajasthan Patrika, Jaipur

Foreign Faculty

1. Dr Olin Oedekoven, President & CEO, Peregrine Leadership Institute VW, USA.
2. Prof Kim Shyan, Victoria Univerjsity, Wellington, New Zealand
3. Dr Laszlo Jozsa, Szechenyi Istvan University, Hungary
4. Dr OP Yadav, University of South Dakota, UK

Honors & Awards

1. Awarded best B School by Dewang Mehta Business School Award – Nov 2015.
2. Ranked 30th Best Business School by Business India Magazine – Dec 2015.
3. Ranked 4th in best infrastructure & 2nd in faculty in top 50 Best Business School by Career Link Magazine in Jan 2016 issue.
4. Awarded “Most Upcoming B School” by ASSOCHAM in Feb 2016.



School of Hotel Management

The School of Hotel Management has a high standard of teaching, learning and a UGC-recognized programme which makes it a perfect choice for undergraduate studies. It also has strong industry integration with 100% training and placement assistance.

USPs of the School: Hotel Management at MUJ is the combination of Manipal University which is an inspiring leader in the field of education, and location of Jaipur; together these make it a unique destination for hospitality education in India.

- It has quality and internationally experienced faculty to groom students to be the perfect hospitality professional.
- Infrastructure, in the form of laboratories, equipment and class rooms is modern and designed to facilitate learning.
- The flexible nature of the program allows students to choose courses related to their choice

areas of study from the Bouquet of Open Electives offered by other departments at MUJ.

- Field trips, industry visits, organizing events, participating in culinary competitions, industry related projects and many more activities are part of the curriculum to enhance the learning skills of students.
- Apart from a dedicated semester of Internship, students are sent for a short term industrial exposure during each semester.

The basic objective of the BHM program is to provide to the hospitality industry a steady stream of competent young men and women with the necessary knowledge, skills, values and attitudes to occupy key operational positions. The course structure of the given BHM program is designed in keeping in view the basic objective stated above. Consequently certain essential features of such model program structures would be used to impart the latest and

relevant knowledge from the field of hotel management theory and practice. To provide opportunities to the students, within and outside the institution, for developing necessary operating skills relating to the Hotel Industry. To develop the right kind of values and attitudes for function effectively in the hospitality trade. The following considerations have been taken into account: The knowledge inputs and opportunities for skill development have been offered in an evenly distributed and logically sequenced manner. There is a

major focus of attention on group specialization in the final year.

Major Areas covered: Hospitality, Tourism, Management

Other value added courses: The following Open Elective courses are offered by the SHM for the students. Corporate Grooming & Etiquette, Travel & Tourism Management.

New labs started:

1.	Basic Training Kitchen	For individual Practical
2.	Quantity Training Kitchen	High pressure burners and bulk cooking equipment
3.	Advanced Training Kitchen	Individual cooking attached with a restaurant
4.	Larder Kitchen	Cold kitchen
5.	Bakery & Confectionery	Confectionery
6.	Bakery	Basic baking
7.	Basic Training Restaurant	Individual Training
8.	Advanced Training Restaurant cum Bar	Attached with Ad. Kitchen
9.	Housekeeping Practical Lab	For HK Practical's
10.	Front Office Lab	Front Office Counter + Lobby + Bell Desk

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Manoj Srivastava	Professor & Head	Tourism Management, Bakery & Conf.
2.	Dr. Gaurav Bhattacharya	Associate Professor	Food Production, HR Management
3.	Amit Datta	Associate Professor	Bakery & Conf.
4.	Dr. Sonal Karnik	Associate Professor	Food & Beverage Services
5.	Aravind K. Rai	Assistant Professor	Food Production
6.	Deepak Pokhriyal	Assistant Professor	Housekeeping
7.	Shweta Upamanyu	Assistant Professor	Front Office
8.	Mukesh Shekhar	Assistant Professor	Food & Beverage Services

3. **Sponsored/consultancy projects undertaken:** Nil

4. **R&D activities: Research paper published in research Journals:**

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| <p>1. Aravind Kumar Rai, "The Relationship between Perceived Service Quality and Positive Word of Mouth Effect in terms of Four Star Hotels Growth", International Conference on Emerging Trends in Hospitality & Tourism Sector (ISBN - 978-93-85000-47-8) Volume 1, page 27-32, November 2015.</p> | <p>2. Mukesh Shekhar, "Need for Vocational Education & Training Industry of India", International Conference on Emerging Trends in Hospitality & Tourism Sector (ISBN - 978-93-85000-47-8) Volume 1, page 18-19, November 2015</p> |
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Student activities:

S.No.	Name of Activity	Date	Class
1.	Participated in Chef Competition	29-30, September, 2016	III Semester
2.	Participated in Run to Health organized by Hotel Le Meridian	07, September, 2016	I & III Semester
3.	Celebrated World Tourism Day	27, September, 2016	All Semester
4.	Celebrated Christmas Day	25th Dec.2015	All Semesters

Conferences/Seminars/Workshops organized

S.No.	Name of Activity
1.	One day Workshop on "Ease of Doing Business for Higher Productivity and Sustainable Growth", on 16th Feb. 2016.
2.	Mock Tail workshop for IIS University students, on 4th March 2016.
3.	International Culinary Workshop for Representatives of IAESTA from 5 countries, in September, 2015

Visitors to the Dept/invited lectures:

S.No.	Name of Visitor	Designation of Visitor	Affiliation	Topic of Lecture
1.	Dr. Szandra Gombos	Professor	Faculty of Szechenyi, Istvan University, Hungary	Importance of Hotel Industry
2.	Mr. Vikram Sharma,	Director, HRM	Hotel Marriott Jaipur	Skill Management
3.	Mr. Nemi Chand Chaudhry and Mr. Vaibhav Tandon	HR Manager	Clarks Amer Jaipur	Management Training Programme
4.	Prof. Raju Rathod	Professor	GH Patel PG Institute of Business Management	Motivation Entrepreneurship Scope
5.	Mr. Anurag Bayani	Director	Bionic Hospitality	in hospitality industry
6.	Dr. Saurabh Shekhawat	Art of living Youth Trainer	Art of living	Stress Management

Significant awards/distinctions:

Limca Book of Record World Record - Chef Prof Manoj Srivastava & six chefs with 70 students made the biggest *Malpua*, 8ft long and 4ft wide, weighing 61.286 kg, at Manipal University Jaipur, School of Hotel

Management, on Oct 16, 2015. A special 8ft x 4ft tawa was fabricated weighing 172 Kg. The Malpua took around 8 hours to cook.



School of Business & Commerce

The School of Business and Commerce fosters excellence in teaching graduate & post graduate courses in Commerce & Management. The School focuses on the latest developments in the discipline and the needs of the students and industry. Apart from classroom learning, students are given practical exposure through frequent industry interaction and internship with reputed banks and financial institutions, chartered accountants, hotels, manufacturing and other concerned industries. The School arranges guest lectures and field visits

periodically to strengthen teaching and to expose the students to the actual work situations.

The School offers two UG programs, the aim of which is to provide opportunities to the students within and outside the institution for developing necessary operating skills relating to the industry. Students are allowed to choose open elective subjects as per their interest in any discipline. The curriculum is designed to facilitate the students in pursuing higher education in India or abroad. The syllabus is updated according to industrial developments.

Academic Programmes

Bachelors of Commerce (B. Com.), 3-years, student intake: 60

Bachelor of Business Administration (BBA), 3-years, student intake: 180

International Collaboration with ACCA:

In its continued endeavour to collaborate with frontline institutions, MUJ has signed an MOU with ACCA, U.K. & ISDC with the view to offer an ACCA embedded B.Com. Honours in accounting programme to prospective students. The students of B.Com. Honours Accounting will have an exemption of 7-9 papers of ACCA. The MOU will help:-

- 1) Open a broader horizon of opportunities to the students of B.Com. (Honours) in accounting in the Global Finance and Business Industry.
- 2) Inculcate the finance and business intelligence and develop skills for tomorrow which the employers look forward.
- 3) Create enhanced competence of career positioning for the learner to become a global professional.

With more and more countries and companies adopting IFRS (International Financial Reporting Standards) and

the shifting business environment - a globally relevant qualification like ACCA will help students of the University gain a competitive advantage through this world-class professional qualification.

International Collaboration with CIMA:

B.Com. BBA and M.Com. (Financial Analysis) programmes are collaborated with CIMA (Chartered Institute of Management Accountants) U.K., to connect our students with the world's largest professional body of management accountants. It enables students to use the Chartered Global Management Accountant (CGMA) designation and be part of a truly global network. The students of B.Com. and BBA will have an exemption of 4 papers.

CIMA is an optional qualification that offers five levels of courses. CIMA accordingly awards certificates to the students on successful completion of the prescribed papers at each level.

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Dr. S. Sadri	Director	Economy of development, ethics and governance
2.	Prof. M. L. Vadera	Professor	Accounting & Finance
3.	Prof. T. K. Jain	Professor	Entrepreneurship, Banking
4.	Prof. S.C. Sharma	Professor	Marketing
5.	Dr. Gaurav Lodha	Associate Professor & HoD	Accounting & Finance
6.	Mrs. Jayashree Sadri	Associate Professor	HR
7.	Dr. Teena Shivnani	Assistant Professor	Accounting, Direct Taxes & Research Methodology
8.	Dr. Saurabh Sharma	Assistant Professor	Indirect Taxes & Finance
9.	Dr. Tanushree Sharma	Assistant Professor	Accounting & Finance
10.	Mr. Sunny Dawar	Assistant Professor	Marketing, HRM
11.	Ms. Sunishtha Dhaka	Assistant Professor	Service Marketing, HRM

12.	Mr. Narender Singh Bhati	Assistant Professor	Operations Management
13.	Dr. Suhasini Verma	Assistant Professor	Economics & Finance
14.	Mr. Rahul Agarwal	Assistant Professor	Banking and Finance
15.	Dr. Nupur Ojha	Assistant Professor	Finance
16.	Ms. Archana Poonia	Assistant Professor	HR

1. Industrial Visit to Jaipur Dairy for BBA Students, SBC, MUJ on 23rd September 2015.
2. Industrial Visit to Anil Special Steel Industry Ltd. for BBA Students, on 25th September 2015.
3. Industrial Visit to Dainik Bhaskar for BBA Students, on 19th October 2015.
4. Industrial Visit to Dainik Bhaskar by BBA & B.Com. Students, 7th March, 2016.
5. Students participated in the “Prashnottari” of Jaipur Doordarshan, on 23rd April 2016.
6. Industrial Visit to Dainik Bhaskar for B.Com. students on 6th October 2016.

Conferences/ FDP/Workshops Organised:

1. Interaction and FDP with CIMA delegates on 5th October 2015.
2. Training for CIMA Qualification exams & Interaction with Mr. Ayan Mahapatra, Ms. Kanwaljeet on 8th - 9th March 2016.
3. Training for CIMA Qualification exams & Interaction with Mr. Deepak Wadhawa on 8th - 9th March 2016.
4. ACCA Training for Financial Accounting Paper of ACCA by Mr. Deepak Agarwal, CA and ACCA on 25th July 2016.
5. ACCA online Webinar on Business Analysis by Nick Ryan on 19th July 2016.
6. ACCA online Webinar on Governance, Risk and Ethics by Nick Ryan on 20th July 2016.
7. ACCA online Webinar on Audit and Assurance by Keith Rye on 26th July 2016.
8. ACCA online Webinar on Corporate and Business Law by Kim Smith on 27th July 2016.

Department/ Invited Guest Lectures:

1. Lecture by Prof. Rajesh Kothari on 'Career Opportunities in Commerce and Management' on 3rd August 2015.
2. Actualizing the Supply Chain' by Dr. Pawan Agarwal (Mumbai Dabbawala) on 12th August

- 2015.
3. Invited Lecture by Prof. Kumkum Garg on 'Artificial Intelligence', 19th August 2015.
4. Motivational Talk' by Prof. Awdhesh Sharma on 26th August 2015.
5. Guest Lecture on “Make in India Movement” by Prof. Rajesh Kothari, 9th September 2015.
6. Guest Lecture on “Pahla Kadam-Financial Literacy for Youngsters!” by CS Mukesh Bansal on 27th January 2016.

Symposia/Workshop/Seminar papers:

1. Prof. M.L. Vadera “The role of Accountant's in attaining awareness of innovative banking services among Customers of India”, 38th All India Accounting Conference, Punjab University, Chandigarh, Dec. 5-6, 2015
2. Prof. S.C. Sharma, chaired a technical session on 9th October 2015, in an International Conference on Recent Trends in Business Finance and Economics, organized by the Department of Business Finance and Economics, Faculty of Commerce & Management Studies, Jai Narain Vyas University, Jodhpur.
3. Tanushree Sharma, “Price Discovery and Causality in Selected Agricultural Commodities” at IIM Kozhikode on 4-7 January 2016.
4. Tanushree Sharma, presented paper on the topic “Measuring Volatility of spot Price Using GARCH Model- A Study of Pepper” at ICEIM 2016 conference held at School of Petroleum Management, Pandit Deendayal Petroleum University, 18-19th February 2016.
5. Tanushree Sharma “Urbanization, energy consumption, economic growth and Co2 Emissions - An Econometric Analysis” Vth Annual SUS-CON Conference at IIM Shillong, 17-20 March 2016.
6. Ms. Savita Panwar, “Antecedents of App based shopping: An application of UTAUT” in Indian

- Retail Conference, organized by School of Business, Public Policy and Social Entrepreneurship, Ambedkar University Delhi, February 2016.
7. Sunny Dawar, Influence of brand experience and satisfaction on consumers' brand loyalty: an analytical study in electronic consumer durable industry, in International conference on brand management at IIT Delhi, 16-17 April 2016.
 8. Sunishtha Dhaka, International Conference on Global Research Conference 2016, “diverse categories of co-creating consumers for operative co creation in hospitality service perspective: an empirical study in Indian context” at Double Tree by Hilton Goa on 8-10 Jan, 2016.
 9. Sunishtha Dhaka, International Conference on Brand Management IIT Delhi, Influence of brand experience and satisfaction on consumer's brand loyalty: an analytical study in electronic consumer durable industry at IIT Delhi on 16-17 Apr, 2016.
 10. Nupur Ojha, “Contemporary assessment of three school of thoughts of micro finance on Indian woman institute of rural management”, Jaipur National Conference, 23rd–24th June, 2016.
 11. Teena Shivnani, “Impact of Internet Banking on Customer Brand Loyalty: An Empirical Study” International Conference on Brand Management, IIT Delhi, 16th–17th April 2016.
 12. Teena Shivnani, 'Evaluation of PMJDY: A study of Bagru Village in 3rd International Conference on Business, Management, Economics, Finance and Social Sciences, 31st July 2016 at Hotel Hans New Delhi.
 13. Teena Shivnani, UID: Leading the way for implementation of UAN in India”, All India Accounting Conference and International Seminar on Accounting Education and Research, All India Commerce Association, Panjab University Chandigarh, 5th–6th Dec. 2015.
 14. Teena Shivnani, “The Impression of Banking Facilities on Moneylenders in Rural India: An Analytical Study”, International Academic Conference on Social Sciences, Hong Kong, 16th–18th December, 2015.
 15. Narender Singh Bhati, 'An empirical study on factors influencing consumer's online purchase intention: role of consumer attitude', 3rd International conference on applied business and economic research' by serial publication, July 2016.
- Publication in International Journals:**
1. Gaurav Lodha, “E-Commerce: Privacy in Payment Transactions”: is published Research Hub: International Multidisciplinary Research Journal, Vol. 2, issue 11, November 2015, pp 1-2. (ISSN-2349-7637).
 2. Gaurav Lodha, “Elucidation of Security threats in Online Business”: is published Research Hub: International Multidisciplinary Research Journal, Vol. 2, issue 12, December 2015, pp 1-3. (ISSN-2349-7637).
 3. Gaurav Lodha, “Effectiveness Analysis of Risk Management regarding Lack of Effective Transition & Missing or Incomplete Documentation in software maintenance projects”: is published in Aagam- International Journal of Humanities, Social Science, Management and Technology, Vol. 2, issue 2, June 2016, (ISSN-2454-1567).
 4. Gaurav Lodha, “Analysis of Critical Success Factors (CSF) for remote IT Infrastructure Management (RIM) Services in India”: is published Research Hub: International Multidisciplinary Research Journal, Vol. 3, issue 7, July 2016, pp 1-4. (ISSN-2349-7637).
 5. Teena Shivnani & Ahuja M., “Rural Development in India through Banking: A study of Government schemes” in EPRA International Journal of Economics & Business Review Vol. 3 Issue 11 page no 254-259. ISSN 2347-9671.
 6. Sorab Sadri, Multiple Perspectives in Human Resources Management in International Journal of Application or Innovation in Engineering and Management, Vol 4 Issue 10, October 2015.

7. Narender Singh Bhati, An Empirical Study of Electronic Service Quality in Online Purchase: Role of Demographic Differences, Publication in international journal “Amity Management Review” (2230–7230), December 2015.
8. Narender Singh Bhati, An empirical study on factors influencing consumer's online purchase intention: role of consumer, Publication in international journal” I J A B E R” (4507 - 4522), July 2016.
9. Dhaka. S., Co-creation: Literature Review and Research issues, International Journal of Research- Granthaalayah, Vol.3, Issue 2, 2015.
10. Savita Panwar, “Materialism and its role on consumer intentions to purchase counterfeit fashion products: a study of consumers of Rajasthan”, IITM Journal of Management and IT, July-Dec 2015, ISSN: 0976-8629.
11. Savita Panwar, “Customer Perception towards Organic Food Products in Selected Regions of Mumbai”, PRiMa: Practices and Research in Marketing, Volume 7, Issue 1 & 2, 2016, ISSN: 2230-844X.
12. Savita Panwar, “Consumer orientations towards counterfeit fashion products: A qualitative analysis”, IUP Journal of Brand Management, September 2016, ISSN: 0972-9097.
13. Suhasini Verma, “Role of Financial Literacy in

Achieving Financial Inclusion' International Journal of Economic Research (ISSN 0972-7302) July 2016, Volume 14, Issue 6.

14. Suhasini Verma, “Analysis of Residential Electricity Demand for Demand Side analysis in Rajasthan”, International Journal of Economic Research (ISSN 0972- 9380) July 2016, Volume 13 Issue-6.

Publication in National Journals:

1. Teena Shivnani & Ahuja M., “ Emerging Possibilities for Last Mile Payment System in Banking Sector of India: An Exploratory Study”, Journal of Advances in Economics & Business Management, Vol. II, No.1, page no.49-52.
2. Saurabh Sharma, “Study on Impact of Reforms in E-Commerce Business in India through Foreign Direct Investment” Amity Management Review 2015, Vol. 4, No. 2.

Books/ Chapters Published:

1. Dr. Sorab Sadri, Business Excellence through Ethics and Governance (2013) (2016) (Co-authored) Bharti Publications, New Delhi.
2. Dr. Gaurav Lodha, Co Author of Book Titled “Business Statistics” published by Ajmera Book Company, Jaipur (ISBN 81-89314-62-9), 2015 (Reprint).



Faculty of Sciences

School of Basic Sciences

The Faculty of Science comprises of four departments namely Biosciences, Chemistry, Mathematics & Statistics and Physics. It is responsible for taking care of undergraduate and postgraduate teaching of Science, Engineering and allied courses. The faculty offers B.Sc.

programmes (both Pass and Hons.) in Physical, Mathematical and biological groups with various course combinations, BCA programme. It also offers M.Sc. by Research, and Ph.D. Programmes in the respective disciplines.

Academic programmes

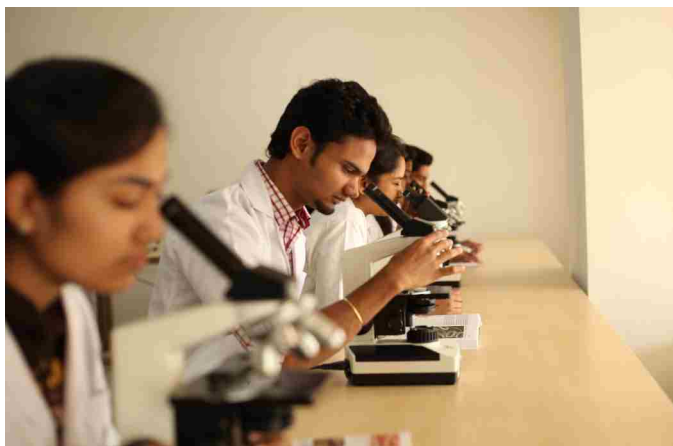
1. Bachelor of Science B.Sc. (Pass). Subjects offered (any three)
 - a. Biosciences b. Biotechnology c. Botany d. Chemistry e. Computer Science f. Economics g. Geology h. Mathematics i. Physics j. Psychology k. Statistics
2. M.Sc. by Research
 - a. Biotechnology b. Chemistry c. Physics d. Mathematics
3. BCA

The Faculty of Science had successfully organized a five-day 2nd INSPIRE Science Camp sponsored by Department of Science and Technology, Government of India from December 17-21, 2015. The camp was attended by 150 students of various schools from all over Rajasthan state. There were many eminent speakers of the likes of Eminent Physicist Prof. S. Lokanathan, Professor (Retd.) of Physics, University of Rajasthan. Prof. R.T. Pardasani, Dean, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, Prof. Y.K. Vijay, President, Vivekanand Global University Jaipur, Dr. M. K. Pandit, Principal Maharaja College, Jaipur and Professor of Geology at University of Rajasthan, Prof. R. S. Sharma, INSA Fellow, Prof. S. L. Kothari, Dean Faculty of Science, Amity University Jaipur, Prof. A. B. Gupta, Professor Civil Engg. Dept.

MNIT Jaipur, Prof. Javed Iqbal, Director, Institute of Life Sciences, Hyderabad, and Prof. N. S. Shekhawat, Department of Botany, Jai Narayan Vyas University, Jodhpur.

The student participants of the camp were also enthused with the expert lectures from in-house speakers like Prof. Kumkum Garg, Pro-President, Prof. B.K. Sharma, Dean FoS, R&I, Prof. G.C. Tikkiwal Director and Prof. Lalita Ledwani.

Besides the experts lectures on all three days, afternoon sessions were devoted to Hands-on experience with experimental demonstrations of different models by Shri Dhananjay Rawal, Ankur Hobby Center, Gujarat. It was then followed by practical sessions in different science laboratories where students got a real life experience of various models and experiments.



Department of Biosciences

The Department of Biosciences has a vision to provide quality teaching and research in the fields of Bioscience and Biotechnology. The Department has well qualified, experienced and dedicated faculty members with specialization in plant tissue culture, molecular biology, bio-nanotechnology, metabolite analysis, vaccine development and biochemistry, which has been proved by their research publications in peer reviewed National and International journals of repute.

The programmes offered by the department are envisioned to expose the students to recent exciting developments in the area of Biotechnology/ Bioscience and their applications in the industry, agriculture, pharmaceutical and medicine. The course curriculum is regularly updated to meet the demand of present

scenario. The department aims to meet the targeted demands to cater the requirements of biotechnology/ biopharmaceutical/ food and beverages industries/ testing labs./ agriculture based industries apart from fundamental research. Students are provided opportunities to carry out research projects which may help them to grasp independent projects in future. After completion, students will be acquainted with the process and products of living organisms, instrumentation, computational techniques and immunotechnology. The Department also has state of the art laboratories of Bioscience and Biotechnology and Molecular Biology which are well equipped with various instruments, plant samples of different categories, plant growth chamber, Molecular Biology and Nano-Biotechnology.

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Prof. A. K. Sinha	Professor	Environment and water resources
2.	Dr. M.M. Sharma	Associate Professor and Head	Plant tissue Culture and Nano-biotechnology
3.	Dr. Abhijeet Singh	Associate Professor	Molecular Biology and Nano-biotechnology
4.	Dr. Sandeep K. Srivastava	Associate Professor	Structural Biology and Bioinformatics
5.	Dr. Rohit Jain	Assistant Professor	Plant Tissue Culture and Metabolite profiling
6.	Dr. Manish	Assistant Professor	Infectious disease and Vaccine development (On study leave)
7.	Dr. Tikam Chand Dakal	Assistant Professor	Genetics, Molecular Biology and Computational Biology

Sponsored/consultancy projects undertaken:

1. Research project from ISRO , Govt of India entitled, “Hydrogeomorphometry of the Martian Surface : Connecting Dots to understand the Hydrologic and Climatic Evolution and Groundwater potentiality of Ma'adim Vallis region in Aeolis Qudarngle (MC-23)” for three years sanctioned to Prof. A.K. Sinha.
2. Research project from DST, Rajasthan entitled, “Targeted delivery of dexamethasone-encapsulating PLGA nanoparticles to treat neuronal inflammation: A hallmark of neurodegenerative disorders” of amount Rs. 1606200/- sanctioned to Dr. Abhijeet Singh and Dr. M.M. Sharma for three years on 31st March, 2016.
3. ICMR, SRF project entitled “Screening, isolation and identification of carotenoid producing bacteria along with Biomimetic synthesis of silver nanoparticles by optimizing

physico-cultural conditions and their biomedical applications” sanctioned to Mr. Ankit Chokriwal under guidance of Dr. Abhijeet Singh with a stipend of Rs. 28000/- per month + HRA along with an annual contingency grant of Rs. 20000 for three years on 30th March, 2016.

4. Provisional offer for JRF received under DST-INSPIRE Fellowship to Ms. Swati Gupta under guidance of Dr. Rohit Jain which includes fellowship for JRF for five years along with an annual contingency grant on 9th May, 2016.

Research papers published:

1. Mittal J, Singh A, Batra, A. and Sharma, MM. 2016. Comparative Microbicidal Efficacy of Fractionated Extracts from In Vitro and In Vivo Raised Cells of *Tinospora cordifolia* Against MDR Pathogens. Brazilian Archives of Biology And Technology.59: e16150508
2. Mittal J, Singh A, Batra, A and Sharma, MM. 2016.

Synthesis & Characterization of Silver Nanoparticles and Their Anti-Microbial Efficacy. *Particulate Science and Technology*. DOI: 10.1080/02726351.2016.1158757

3. Saxena J, Pant V, Sharma MM, Gupta S and Singh A. 2015. Hunt for Cellulase Producing Fungi from Soil Samples. *Journal of Pure and Applied Microbiology*, 9(4): 2895-2902
4. Mittal J, Mishra Y, Singh A, Batra A and Sharma, M.M. 2015. An efficient micropropagation for *Tinospora cordifolia* (Willd.) Miers ex Hook. F. & Thoms: A NMPB prioritized medicinal plant. *Indian Journal of Biotechnology*. (Accepted).
5. Jain R, Sharma N, Choudhary H, Chokriwal A and Singh A. 2015. Screening for potential carotogenic producing bacteria from soils of arid region of Rajasthan. *International journal of research methodology*. 1(2):1-7.
6. Chokriwal A, Sharma M.M. and Singh A. 2015. Screening of indigenous bacteria from arid region soil producing carotenoids". *SIES Journal of Pharma-Bio Management*. 3(1), 60-64.
7. Mishra Y, Mittal J, Singh A, Batra, A and Sharma, M.M. 2015. *In vivo* and *in vitro* histological localization of endophytic fungi in *Tinospora cordifolia* (Willd.) Miers ex Hook F. & Thomas. *Journal of Applied Research on Medicinal and Aromatic Plants*. 2(1):30-33.
8. Singh A, Upadhyay MK, Verma HN and Jain D. 2015. Simple and rapid protocol for pectinase zymography. *American Journal of Biological and Pharmaceutical Research*. 2(1):16-19.
9. Harit K, Chaothary B, Mittal J and Jain R. 2015. Analysis of steroidal lactones in *Withania somnifera* leaf and roots. *International Journal of Institutional Pharmacy and Life Sciences*. 5: 22-27.

Book chapters:

1. Jain R, Kachhwaha S and Kothari SL. 2016. *In vitro* shoot cultures and analysis of steroidal lactones in *Withania coagulans* (Stocks) Dunal. In Jain SM (Ed.) *Protocols for In Vitro Cultures and Secondary Metabolite Analysis of Aromatic and Medicinal Plants*, Second Edition, pp 259-274, Springer Protocols-Methods in Molecular Biology, Humana Press, New York.
2. Mittal J, Batra A, Singh A and Sharma MM. Effect of PGRs in *in vitro* production of secondary metabolite through tissue culture techniques. *Research Methodology in Chemical*

Sciences: Experimental and Theoretical Approaches, Apple Academic Press, Taylor & Francis Group, 2016.

Abstract proceedings:

1. Srivastava S.K. and Gopal B. 2015, Structural studies on histidine kinases involved in *S. aureus* virulence: Strategies for inhibitor design in International Conference on Current Challenges in Drug Discovery Research CCDDR-2015, organized by MNIT Jaipur from 23rd-25th Nov, 2015. Abstracts of papers ISBN No. 978-93-84869-93-9 (pp-250).

Other Publications:

Dr. Rohit Jain published Scientific Cartoons in *Current Science* in volume 9 in July, September and November 2015.

Student activities

1. Biodiversity excursion visit of B.Sc. Biotechnology students to Kulish van, JLN marg, Jaipur on 06.02.2016.
2. Industrial visit for B.Sc. Students to CEG test house, Malviya Industrial Area, Malviya Nagar, Jaipur to acquaint about the process of food testing on 17th October, 2015.

Extension activities:

1. Three days National workshop on "Hands on Training on Advances in Biotechnology" from 13-15th July, 2015, organized by Department of Biosciences.
2. Actively participated in 2nd INSPIRE Science Camp held at MUJ from December 17-21, 2015.
3. A MoU has been signed on 25.01. 2016 with state of the art laboratory- Ayushraj Enterprises Pvt. Ltd., NABL certified lab., established under the aegis of Ministry of Ayush, GOI, New Delhi.





Department of Chemistry

The Department has made significant contribution in education and research in all areas of chemistry and allied branches and offers programmes for UG such as B.Sc (Hons.); B.Sc (Pass course); and PG such as M.Sc (Chemistry) by Research, M.Sc (Chemistry) in all major areas of Chemistry. The Department also offers Engineering Chemistry course for Engineering students and Environmental Studies course for Engineering &

Non-Engineering students. The students are provided with comprehensive practical and theoretical exposures to these courses. Faculty members are pursuing research in the areas such as synthetic chemistry, natural chemistry, plasma chemistry, supra molecular chemistry, supramolecular chemistry, host-guest chemistry, polymeric nanocomposites, environmental chemistry, green chemistry, synthesis of nanomaterials.

New lab started

A new chemistry lab has been started in the new building adjacent to mechanical workshop.

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Dr. Lalita Ledwani	Professor	Natural Products, Plasma surface modification of polymers
2.	Dr. Babita Malik	Professor & Head	Synthetic organic chemistry
3.	Dr. Tanmoy Chakraborty	Associate Professor	Theoretical and computational chemistry
4.	Dr. Rahul Shrivastava	Associate Professor	Host-Guest chemistry, Molecular recognition and Supramolecular chemistry
5.	Dr. Nitu Bhatnagar	Assistant Professor	Polymeric composites & Nanotechnology, Plasma Chemistry,
6.	Dr. Veena Dhayal	Assistant Professor	Coordination chemistry, Organometallic chemistry and nanomaterials
7.	Dr. Arunava Agarwala	Assistant Professor	Inorganic Chemistry
8.	Dr. Debasis Behera	Assistant Professor	Corrosion Inhibitors, synthesis of corrosion inhibitors, corrosion monitoring
9.	Dr. Rama Kanwar Khangarot	Assistant Professor	Synthesis of biologically and medicinally important molecules
10.	Dr. Naveen Kumar Singh	Assistant Professor	Ecotoxicology & Bioremediation (Environmental Science)
11.	Dr. Praveen Kumar Surolia	Assistant Professor	Solar Energy and Photo catalysis

Sponsored research/ consultancy projects undertaken:

1. Project Title: Production of mycosporine like amino (MAAs) from cyanobacteria; Funding Agency: DST (Under WOS-A Scheme), Govt. of India; Principal Investigator: Dr. Shikha Jain, Mentor: Dr. Lalita Ledwani; Total Cost: 32.03 Lakhs; Duration: February 2016-February 2019.
2. Project Title: Textile industries and ground water contamination around Jaipur; Funding Agency: KURITA Water and Environment Foundation, Japan; Principal Investigator: Dr. Lalita Ledwani, Co-Investigators: Mr. A. D. Vyas & Dr. Pushpendra Kumar; Total Cost: JPY 300,000-; Duration: October 2015-September 2016.

Research papers published:

1. Shabori Bhattacharya, P.J. John, Lalita Ledwani, "Fungal weathering of asbestos in semi-arid regions of India" *Ecotoxicology and Environmental Safety* (Elsevier), 2016, 124, 186-192.
2. Hemen Dave, Lalita Ledwani, S.K. Nema, "Surface modification by atmospheric pressure air plasma treatment to improve dyeing with natural dyes: an environment friendly approach for leather processing" *Plasma Chemistry and Plasma Processing* (Springer), 2016, 36, 599-613.
3. Deepika Sharma, Lalita Ledwani, Nitu Bhatnagar, "Antimicrobial and cytotoxic potential of silver nanoparticles synthesized using Rheum emodi roots extract" *New Front. Chem.*, 2015, 24, 121-135.
4. Mukesh Kumar Atal, Renu Sharma, Ajay Saini, Veena Dhayal, Meena Nagar, "Synthesis and characterization of organotin(IV) semicarbazones: potential precursors for nanosized tin oxide", *J. Sol-gel Sci. Technol.* (Springer), 2016, 79, 114-121.
5. Mukesh Kumar Atal, Ajay Saini, Ram Gopal, Meena Nagar, Veena Dhayal, "Synthesis and characterization of a new class of single-phase AlVO₄ precursors", *Material Research Innovations* (Taylor & Francis) . DOI: 10.1080/14328917.2016.1198459.
6. Sanjan Choudhary, Nitu Bhatnagar, "Determination of selected pesticide residues in fruits using quechers approach and reversed-phase high performance liquid chromatography (RP-HPLC)" *International Journal of Advances*

in Science, Engineering and Technology, 2016, 4 (1).

7. Suman Swami, Nisha Devi, Arunava Agarwala, Virender Singh, Rahul Shrivastava, "ZnO nanoparticles as reusable heterogeneous catalyst for efficient one pot three component synthesis of imidazo-fused polyheterocycles" *Tetrahedron Letters* (Elsevier), 2016, 57, 1346–1350.
8. Suman Swami, Arunava Agarwala, Babita Malik, Rahul Shrivastava, "A new class of efficient 4-[(nitro substituted-phenyl)-hydrazonomethyl]-1-phenyl-1H-pyrazole-3-carboxylate derived colorimetric chemosensor for selective sensing of fluoride and other biologically important anions" *Journal of Chemical Science*(Springer), 2016, 128, 1451–1457.
9. Prabhat Ranjan, Seema Dhail, Srujana Venigalla, Ajay Kumar, Lalita Ledwani, Tanmoy Chakraborty, "A Theoretical Analysis of Bi-metallic (Cu-Ag)_n=1-7 Nano Alloy Clusters Invoking DFT Based Descriptors, *Mat. Sci.- Pol.*, (Springer) 2015, 33, 719.
10. Suman Swami, Arunava Agarwala, Rahul Shrivastava, "Indium triflate promoted one-pot multicomponent synthesis of structurally diverse 3-amino-imidazo[1,2-a]pyridines" *Molecular Diversity* (Springer), 2016 (DOI: 10.1007/s11030-016-9699-2)
11. Suman Swami, Arunava Agarwala, Rahul Shrivastava, "Sulfonic acid functionalized silica-coated CuFe₂O₄ core-shell nanoparticles: An efficient and magnetically separable heterogeneous catalyst for syntheses of 2-pyrazole-3-amino-imidazo-fused polyheterocycles" *New Journal of Chemistry (RSC)*, 2016 (DOI: 10.1039/C6NJ02264B)
12. Naveen Kumar Singh, A. S. Raghubanshi, A.K., Upadhyay, U. N. Rai, "Arsenic and other heavy metal accumulation in plants and algae growing naturally in contaminated area of West Bengal, India". *Ecotoxicol. Environ. Safety*. Elsevier, 2016, 130, 224-232.

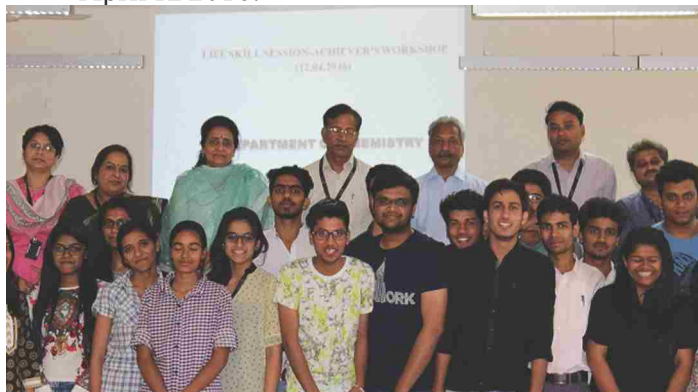
Publications in Conference Proceedings:

1. Khadeeja Parveen, Victoria Banse and Lalita Ledwani, "Green synthesis of nanoparticles: Their advantages and disadvantages" *AIP Conference Proceedings* DOI: 10.1063/1.4945168.
2. Shabori Bhattacharya, Lalita Ledwani and P.J. John, "Siderophores, the answer for micro to nanosized asbestos fibre related health hazard" *AIP*

Conference Proceedings DOI: 10.1063/1.4945222.

3. Avani Pareek, Nitu Bhatnagar, "Ayurvedic Bhasma as Nanomedicine" published in the conference proceedings of AICON'16.
4. Prabhat Ranjan, Ajay Kumar, Tanmoy Chakraborty, "Theoretical Analysis: Electronic and Optical Properties of Gold-Silicon Nanoalloy Clusters" Materials Today Proceedings, 3, 1563, 2016.
5. Prabhat Ranjan, Ajay Kumar, Tanmoy Chakraborty, "Computational Study of Au_nSi_n (n=1-9) Nanoalloy Clusters Invoking DFT Based Descriptors" AIP Conf. Proc., 1724, 020072, 2016.
6. Babita Malik, Shalini, Tanmoy Chakraborty, "A Theoretical Approach towards Computation of Atomic Hardness" Abstract published in International Conference on Nascent Development in Chemical Sciences- opportunities in Academia-Industry Collaboration, 101, 2015.

Event Organized: Second workshop on 'Life Skill Session-Achiever's Workshop' was organized on April 12 2016.



Significant awards/distinctions:

1. Dr. Tanmoy Chakraborty received the "President Award-MUJ" for the year 2016.
2. Dr. Debasis Behera elected as a Guest editor of "Journal of Chemistry" for a Special issue titled "Applied Chemistry in Upstream and Downstream Petroleum Operations", 2016.
3. Book titled "*Research Methodology in Chemical Sciences- Experimental and Theoretical Approach*" Edited by Dr. Tanmoy Chakraborty & Dr. Lalita Ledwani, published by Apple Academic Press and Distributed by Taylor & Francis Group, USA; 2016 was released on July

2, 2016 by Prof. G.C. Tikkiwal and Prof. V.S. Kulhar, in presence of HoDs, Basic Sciences.



Book Chapters:

1. Seema Dhail, Prabhat Ranjan, Tanmoy Chakraborty, Correlation of the Experimental and Theoretical Study of Some Novel 2-Phenazinamine Derivatives in Terms of DFT Based Descriptors, Crystallizing Ideas- The Role of Chemistry, Springer International Publishing, Switzerland, ISBN- 978-3319317588, pp. 97 (2016).
2. Prabhat Ranjan, Ajay Kumar, Tanmoy Chakraborty, Theoretical Analysis: Electronic and Optical Properties of Small Cu-Ag Nano Alloy Clusters, Computational Chemistry Methodology in Structural Biology & Material Sciences, CRC & Apple Academic Press, USA, ISBN- 9781771885683 (2016).
3. Prabhat Ranjan, Tanmoy Chakraborty, Ajay Kumar, A Theoretical Study of Bimetallic CuAu_n (n=1-7) Nanoalloy Clusters Invoking Conceptual DFT Based Descriptors, Applied Chemistry and Chemical Engineering, Vol. 4, CRC & Apple Academic Press, USA, ISBN- 9781771885874 (2016).



Department of Mathematics and Statistics

With qualified and committed thirteen faculty members, Department of Mathematics and Statistics provides quality education, promotes research activities in core and allied areas of Mathematics and Statistics. The Department enables students to excel in the areas of pure as well as Applied Mathematics and Statistics. Presently 16 research scholars are enrolled in PhD Programme.

In addition to the regular Mathematics and Statistics courses offered for B. Tech., B. Plan, BBA, BCA,

B.Com. MBA, M. Tech. Programs, the department offers Bsc Pass Course, BSc (Hons.), M. Sc. by research, and PhD Programmes in Mathematics and Statistics. The Major Research areas of the Department are: Fluid Dynamics, Special Functions, Integral Transforms, Fractional Calculus, Relativity, Ring Theory, Reliability Theory, Stochastic Process, Theory of Sample Surveys, Small Area Estimations, Operations Research, Mathematical Modeling and Bio-Mathematics/ Statistics.

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Dr. G.C. Tikkiwal	Professor & Director	Theory of Sample Surveys, Small area estimation, Educational Statistics
2.	Dr. Sunil Joshi	Associate Professor & Head	Special Functions and Integral Transforms and Fractional Calculus
3.	Dr. Shalini Jain	Associate Professor	Fluid Dynamics
4.	Dr. Md. Rizwanullah	Associate Professor	Optimization, Graph theory, Simulation
5.	Dr. Vikas Kumar	Assistant Professor	Fluid Dynamics
6.	Dr. Ashish Kumar	Assistant Professor	Reliability Modelling & Analysis, Stochastic Process
7.	Dr. Ram Naresh Saraswat	Assistant Professor	Information Theory, Theory of Inequalities
8.	Dr. Monika Saini	Assistant Professor	Sampling Theory & Theory of Sample Surveys
9.	Dr. Laxmi Poonia	Assistant Professor	Relativity and Cosmology
10.	Dr. Virendra S. Chouhan	Assistant Professor	Fixed point theory in fuzzy metric space
11.	Dr. Anamika Jain	Assistant Professor	Performance Modeling, Mathematical Analysis of queuing problem
12.	Dr. Giriraj Methi	Assistant Professor	Partial Differential Equation, Numerical Methods
13.	Dr. Bhoopendra Pachauri	Assistant Professor	Software Reliability

Research papers published:

1. Tikkiwal, G. C. and Khandelwal, A., Calibration of Weights in T_1 -Class under Midzuno Sampling Scheme, *Statistics and Informatics in Agricultural Research Eds. Sud, U C, Chandra H, Bhar, L M Sarkar, S K*, 49-63, 2015.
2. Mittal, E., Pandey, R. M. and Joshi, S., On Extension of Mittag-Leffler Function, *Appl. Applied Math.*, 11(1), 307-316, 2016.
3. Joshi, S., Mittal, E. and Pandey, R. M., Some Fractional Integral Inequalities Involving Appell Hypergeometric Function, *J. Sci. Arts*, 34(1), 23-30, 2016.
4. Kumar, A., Kumar, I. and Saini, M., Analysis of Various Performance Measures of a Cold Standby System with Arrival Time of server, *Int. J. Scientific Res.*, 5(2), 220-224, 2016.
5. Methi, G., Solution of Differential Equations using Differential Transform method, *Asian J.*

6. Methi, G., Numerical Solution of Some Partial Differential Equations Using Adomian Decomposition Method, *Fire J. Engg. Tech.*, 1(1), 32-38, 2015.
7. Kumar, A., Cost-Benefit Analysis of a Repairable System in Abnormal Environmental Conditions, *Palestine J. Math.*, 5(1), 111-119, 2016.
8. Kumar, A. and Baweja, S., Cost-Benefit Analysis of a Cold Standby System with Preventive Maintenance Subject to Arrival Time of Server, *Int. J. Agri. Stat. Sci.*, 11(2), 375-380, 2016.
9. Kumar, A. and Barak, M. S., Impact of Abnormal Weather Conditions on Various Reliability Measures of a Repairable System with Inspection, *Thailand Statistician*, 14(1), 35-45, 2016.
10. Kumar, A., Saini, M. and Devi, K., Analysis of a Redundant System with Priority and Weibull Distribution for Failure and Repair, *Cogent Math.*, Math. & Stat., 1, 1-5, 2016.

- 3(1), 2016.
11. Kumar, A., Malik, S. C. and Chillar, S. K., Analysis of a Single-Unit System with Degradation and Maintenance, *J. Stat. Manag. Sys.*, 19(2), 151-161, 2016.
 12. Kumar, A. and Saini, M., Analysis of a Single-Unit System with Weibull Failure and Repair densities Subject to Server Failure, *Malaysian J. Sci.*, 35(1), 16-23, 2016.
 13. Kumar, A., Saini, M. and Devi, K., Performance Analysis of a Redundant System with Weibull Failure and Repair Laws, *Revista Investigacion Operacional*, 37(3), 247-257, 2016.
 14. Jain, A. and Jain, M., Multi-server Machine Repair Problem with Unreliable Server under Asynchronous Vacation Policy, *Int. J. Math. Operations Res.*, 2015. (In Print)
 15. Chouhan, V. S., Badshah, V. H. and Chouhan, M. S., Fuzzy Metric Spaces and Fixed Point Theorems, *Palestine J. Math.*, 4(1), 206–212, 2015.
 16. Rizwanullah, Md., History of Combinatorial Optimization: Study of an Application Based Network Flows, *Int. J. Pure Appl. Math. Res.*, 1, 36-49, 2015.
 17. Saraswat, R. N. and Khatod, N., A New Non Symmetric Divergence Measure and Related Bounds, *JUET Res. J. Sci. Tech.*, 3(1), 7-15, 2016.
 18. Saraswat, R. N., Bounds on Non-Symmetric Divergence, *Int. J. Engng. Res. Gen. Sci.*, 3(5), 56-62, 2015.
 19. Saini, M., Some Estimators for Population Mean under Estimated Multi-auxiliary Information at SSU Level, *J. Stat. Manag. Sci.*, 18(3), 203-212, 2015.
 20. Saini, M. and Kumar, A., Optimum Allocation in Stratified Two Stage Design by Using Double Sampling for Multivariate Surveys, *Prostat. Forum*, 8, 19-23, 2015.
 21. Saini, M., Generalized Exponential Type Estimators Under Simple Random Sampling and Qualitative Auxiliary Information, *Elixir Stat.*, 81, 31505-31508, 2015.
 22. Saini, M., Kumar, A. and Kumar, I., Reliability Modeling of a Solar Photovoltaic System using Supplementary Variable Technique, *Int. J. Comp. Appl.*, 116(1), 41-46, 2015.
 23. Jain, S. and Choudhary, R., Effects of MHD on Boundary Layer Flow in Porous Medium due to Exponentially Shrinking Sheet with Slip, *Procedia Engg.*, 127, 1203-1210, 2015.
 24. Jain, S., Kumar, V. and Bohra, S., Entropy Generation in Generalized Couette Flow through Porous Medium with Different Thermal Boundary Conditions, *Int. J. Energy Tech.*, 7, 40-48, 2015.
- Conference/Symposia/Workshops/Seminars Attended/ Presented Papers/ Invited Talks:**
1. Shalini Jain presented a paper in International Conference of Heat and Mass Transfer organised by NIT Warangal during Nov. 30 – Dec. 2, 2015.
 2. Sunil Joshi attended a One Week Short Term Training Programme on Mathematical Modelling, Optimization, Fractional Calculus and their Computations in Engineering and Sciences (MMOFCCES-2016), SVNIT, Surat, June 21-25, 2016.
 3. Sunil Joshi presented a paper during 27th Annual Conference of Rajasthan Ganita Parishad & National Seminar on Applied Mathematics in Engineering & Technology organized by Rajasthan Ganita Parishad from 05 – 06 March, 2016 at Sobhasaria Group of Institutions, Sikar, Rajasthan.
 4. Ram Naresh Saraswat and Md. Rizwanullah attended National workshop on Computational Intelligence (NWCI-2016) organized by Department of Computer Science and Engineering, Jaypee Institute of Information Technology, from 26-28 May, 2016.
 5. Ram Naresh Saraswat and Laxmi Poonia attended National Workshop on Mathematical Modeling and Simulation organized by Department of Mathematics, Central University Rajasthan from 14-18 March, 2016.
 6. Anamika Jain, Monika Saini and Ashish Kumar presented a paper in “International Conference of Resent Trends in Engineering and Material Sciences (ICEMS-2016)” organized by Jaipur National University, Jaipur during March 17-18, 2016 held at Jaipur.
 7. Anamika Jain presented a paper in the RAOTA-2016, International Conference on Recent Advances in Optimization Theory & Applications in Memory of Professor M. C. Puri organized by the University of Delhi, during January 30-31, 2016.
 8. Laxmi Poonia attended a Short Term Training Programme on Mathematical Techniques and their Applications in Computer Domain organized by MANIT, Bhopal from June 20-24, 2016.
 9. Monika Saini, Anamika Jain and Ashish Kumar presented a paper in “International Conference of

- Resent Advances in Mathematics and Their Applications (ICRAMTA-2016)” organized by Department of Mathematics, University of Rajasthan, Jaipur during July 10-12, 2016 held at Jaipur.
10. Shalini Jain attended a two weeks compact course on Compressible Navier Stokes Equations organized by TIFR- Centre of Applicable Mathematics Bangalore during May 2-14, 2016.
 11. Ashish Kumar presented a paper “Performance Analysis of a Non-identical Unit System with Priority and Weibull Repair and Failure Laws” in International conference of Mathematics at Carmel College for Women, Goa during March 3-5, 2016.
 12. Dr. Giriraj Methi attended a One Week Short Term Training Programme on “Mathematical Modelling, Optimization, Fractional Calculus and their Computations in Engineering and Sciences (MMOFCCES-2016), SVNIT, Surat, June 21-25, 2016.
 13. Sunil Joshi presented a paper in international conference, Manipal Research Colloquium, during the month of April 3-5, 2016 at Manipal

- University.
14. Prof. G. C. Tikkiwal delivered an invited lecture titled “Data Mining through Principle Component Analysis-A case Study” in International Conference on the occasion of Silver Jubilee of the Indian society of Industrial and Applied Mathematics (ISIAM) held at Sharda University, Greater Noida from January 29-31, 2016.

Book Publication:

“Applied Numerical methods for Civil Engineering”, by Dr. Sunil Joshi, Aasirwad Publications, Jaipur, August 2015.

Extension Activities (National Workshop):

Organized 3rd National Workshop on “Scientific Computational Techniques SCT-3” Sponsored by DST, Rajasthan during March 10- 12, 2016.

Visitor/Invited lecture:

Prof. Abul Hasan Siddiqi, Ex- Vice Chancellor, AMU, Aligarh, delivered a talk on “Role of Mathematics in Emerging areas in science and technology” on November 24, 2015.

Department of Physics

The mandate of the Department is to conduct courses for students of science and engineering disciplines. The department is also involved in conducting interdisciplinary teaching and research. The faculty members have expertise in advanced areas of research e.g. Material Science, Nanotechnology, Nano-

electronics, Biophysics and Plasma Physics.

Laboratories: Department has state of art Labs for its B.Sc. as well as M.Sc programmes. In particular the department is proud of fully equipped Labs. e.g. Electronics Lab., Spectroscopic Lab., Solid state Physics Lab., Materials Research Lab., Nuclear Physics Lab, Optics Lab.

Faculty members & their specializations

S.No.	Faculty Name	Designation	Specialization
1.	Prof. B. K. Sharma	Professor and Dean	Condensed Matter Physics
2.	Dr. Vijendra S Kulhar	Professor	Scattering theory, Atomic Physics, Charge-transfer reactions
3.	Dr. Sushil Kumar Jain	Associate Professor & Head	Solid State Physics, Nanotechnology
4.	Dr. Pushpendra Kumar	Associate Professor	Graphene synthesis, porous silicon, hydrogen energy,
5.	Dr. Nilanjan Halder	Associate Professor	Graphene synthesis, porous silicon, hydrogen energy,
6.	Dr. Anupam Sharma	Assistant Professor	Magnetic Materials, Solid State Physics
7.	Dr. Kamakhya P Misra	Assistant Professor	Material Science, Thin Films
8.	Dr. Jagrati Sahariya	Assistant Professor	X-ray Scattering, Band structure Calculation
9.	Dr. Ashima Bagaria	Assistant Professor	X-ray Crystallography, Biomaterials and Biophysics
10.	Dr. Jyoti Choudhary	Assistant Professor	Theoretical Plasma Physics, Instabilities, Solitary Waves,
11.	Dr. Saikat Chattopadhyay	Assistant Professor	Semiconductor nanostructures

Details of ongoing research projects:

- a. DST Fast track Young Scientist project Sponsored by: Science & Engineering Research Board, New Delhi. Title of project: Electronic properties and Compton spectroscopy of some magnetic alloys & compounds. P.I. Dr. Jagrati Sahariya
- b. UGC-DAE CSR, Indore funded project entitled "In-situ exchange bias study of magnetic nanocaps deposited onto self-assembled polystyrene nanospheres", PI: Dr. Anupam Sharma
- c. UGC-DAE CSR, Indore funded project entitled "To study high quality ultra-thin metal islands sandwiched between thin Pt,Au or Ag layers via multilayer deposition", Co-PI: Dr. Anupam Sharma
- d. Major Research proposal to Nanomission, DST Govt of India, "Investigation of Luminescence Efficiency of Bioconjugated Eu+3 Doped ZnO Nanocrystals in View of Bioimaging Applications", (PI: Dr. K. P. Misra, Co-PI: Dr. Ashima Bagaria)
- e. Major Research project to DBT, India "Engineering Plants for Biofuel production. A structural Biology strategy", PI: Dr. Ashima Bagaria
- f. Early Career Scheme, SERB project, "Enhancing the Efficiency and life time of Hall Thrusters via study of Instabilities in Magnetized Inhomogeneous Plasmas", PI: Dr. Jyoti
- g. UGC-DAE Consortium for Scientific Research (Kalpakkam Node) project under Collaborative Research Scheme, "Growth of TiO₂ Nanowires by purely chemical approach involving chemical bath deposition on sol-gel derived TiO₂seeds", PI: Dr. Nilanjan Halder.

Seminar/Workshop/Talks Organized/Special Visits:

1. Invited talk of Dr. Pankaj Poddar, Senior Scientist at Physical and Materials Chemistry division, CSIR- National Chemical Laboratory, Pune on 2nd November, 2015 at MUJ.
2. A three day Workshop on "Advancement in Material Science and Physics" (WAMP-2015)

technically sponsored by IETE, IEI- Jaipur Chapter and financially sponsored by DST- New Delhi, DST-Rajasthan organized on 19-21 November, 2015.

3. Prof. B. K. Sharma visited Government College, Kangra, HP, as Chairman NAAC Peer Team on Feb 13 to 17, 2016.

Paper published in International/National Journal

1. K. Kabra, P. Bambhani, G. Sharma, and B. K. Sharma, "Ab-Initio Determination of Electronic Structure of PbS_{1-x}Se_x" Adv. Sci. Lett. Vol. 21, pp. 2823-2825 (2015).
2. M. Kaur, K. Kabra, R. Kumar, B. K. Sharma and G. Sharma, "Investigation of structural and electronic properties of Zn₃P₂: Theory and Experiment" J. Electronic Mat. Vol.45, pp. 2847-2854 (2016).
3. M. Vashistha, K. Kabra, V. Vyas, R. Kumar, B. K. Sharma and G. Sharma, "Electronic structure of CuO from first-principles and experiment", Quantum Matter Vol. 5, pp. 717-720 (2016).
4. M. Vashistha, D.R. Phalasal, K. Kabra, R. Kumar, B. K. Sharma, and G. Sharma, "Electronic structure of VO₂ using Compton spectroscopy" Accepted in Materials Focus, 2016.
5. Krishan Gopal Jangid, Vijay Sharma, Rajesh Sharma, V K Saxena, Deepak Bhatnagar, V.S. Kulhar, "Design of Compact Microstrip Patch Antenna with DGS Structure for WLAN & Wi-MAX Applications", European Journal of Advances in Engineering and Technology, Volume 2, Issue-1, pp-8-11, ISSN: 2394-658X (2015).
6. KG Jangid, A Tiwari, V Sharma, V S Kulhar, VK Saxena, D Bhatnagar, "Circular Patch Antenna with defected Gorund for UWB Communication with WLAN Band Rejection" Defence Science Journal 66(2), 162-167, (2016).
7. P.K.Jain, KG Jangid, V S Kulhar, D.Bhatnagar, "Compact CPW fed Broadband Planar Antenna with improved gain for WLAN & Wi-MAX application" SKIT Research Journal, Volume 5, No.2, (2015).
8. S. K. Jain, K. Govil, B. L. Prashant, S. N. Dolia and B.L Choudhary, "Structural Characteristics and Magnetic Properties of ZnO Synthesized by Sol-gel Wet Chemical Precipitation Route" and Paper accepted in Advance Science Letters ISSN: 1936-

- 6612 (Print) (2015).
9. S. K. Jain, "Study of Synthesis and Characterization of 5% Mn and 5% Fe Doped TiO₂ " Paper under review in international Journal of Advanced Science Letters.
 10. S. K. Jain and C. L. Prajapat "Magnetic and Optical studies of 5%Mn and 5%Co doped ZnO synthesized by Sol gel wet chemical precipitation route", Paper under review in Elsevier Journal "Perspective in Science.
 11. Pushpendra Kumar and Peter Lemmens: "Photoluminescence quenching and confinement effects in Mesoporous Silicon: Photoluminescence, Optical and Electrical Studies", RSC Advance, 5, 91134 (2015).
 12. J. Jain, R. Prakash, G.L.Vyas, , U N.Pal, M.B. Chowdhuri, R. Manchanda, R., N. Halder and Y. Choyal, "Simultaneous Estimation of Plasma Parameters from Spectroscopic data of Neutral Helium using Least Square Fitting of CR-model", J Theor. Appl. Phys. Vol. 9, pp-25-31 (2015).
 13. Nilanjan Halder, "Growth of cluster assembled ZnO film by nanocluster beam deposition technique", AIP Conference Proceedings 1665, 050183 (2015)
 14. B. L. Ahuja H. S. Mund, Jagrati Sahariya, A. Dashora, M. Halder, S. M. Yusuf, M. Itou, Y. Sakurai, "Temperature dependent spin and orbital magnetization in TbCo₂: Magnetic Compton scattering and first-principles investigations", J. Alloys & Compounds, Vol. 633, pp.430 (2015).
 15. K. Sharma, Jagrati Sahariya and B. L. Ahuja, "Electronic structure, optical properties and Compton profiles of RuO₂: Performance of PBEsol exchange-correlation approximation", J. Alloys & Compounds Vol. 645, pp. 414 (2015).
 16. Sachin Patodia, Deepak Chopra, Anant Vijay Varma, Swaminathan Subramanyam, Ashima Bagaria, "Flexibility analysis of Native Pyridoxal Kinase and its complexes with ATP and ADP: A Molecular Dynamics Simulation Study", International Journal for Computational Biology (IJCB), Vol.4, No.3, pp. 03-09 ISSN: 2278-8115 (2015).
 17. Patodia S, Bagaria A, Chopra D Molecular Dynamics Simulation of Proteins: A Brief Overview. J Phys Chem Biophys 4: 166. doi: 10.4172/2161-0398.1000166, (2015).
 18. Jyoti, "Numerical Study of Instabilities in Magnetized Inhomogeneous Plasmas under the effect of Ionization", Contributions to Plasma Physics, Vol 56, No.2, pp. 113-125, ISSN 1526-3986 (2015).
- Paper published in International/National Conferences**
1. KG Jangid, N Choudhary, P Jain, BR Sharma, JS Saini, VS Kulhar, D. Bhatnagar, "Circularly polarized triple band glass shaped monopole patch antenna with metallic reflector for bluetooth & wireless applications" AIP Conference Proceedings 1715, 0220030 (2016); doi: 10.1063/1.4942712.
 2. N Choudhary, A Tiwari, KG Jangid, BR Sharma, JS Saini, VS Kulhar, D. Bhatnagar, "Design of CPW fed printed slot antenna with circular polarization for UWB application" AIP Conf. Proc. 1715, 020031 (2016); 10.1063/1.4942713
 3. S. K. Jain, Presented in the workshop "Advancement in Material Science and Physics (WAMP-2015), Paper entitled "Synthesis and Characterization of semiconducting nanomaterials by Sol gel route"
 4. S. K. Jain, "Structural and Morphological Study of Ti_{0.9}Mn_{0.05}Fe_{0.05}O₂ Synthesized by Sol-gel Wet Chemical Precipitation Route" in 7th International nano workshop on "Polymer Metal Nano composites" on 2nd to 5th November, 2015.
 5. S. K. Jain, "Study of Synthesis and Characterization of 5% Mn and 5% Fe Doped TiO₂" in National Conference of Thermophysical Society of India (NCTP-2015) on dated 14th to 16th December, 2015.
 6. S. K. Jain and C. L. Prajapat, International conference on recent trends in engineering and material sciences, (ICEMS-2016) "Magnetic and optical studies of 5%Mn and 5%Co doped ZnO synthesized by Sol gel wet chemical precipitation route" March 17-19, 2016.
 7. Pushpendra Kumar and P. Huber: "Annealing Effect on Thermodynamic and Physical Properties of

- Mesoporous Silicon: A Nitrogen Sorption Study” AIP proceedings, 1724, 020071, (2016); doi: 10.1063/1.4945191.
8. A. Sharma, S. Tripathi, Dileep Gupta, N. Halder and J. Tripathi, “Effect Of Curvature On The Structural And Magnetic Properties Of Ni Film Deposited On Self-assembled Nanospheres”, AIP conference proceeding, 1728, 020363 (2016).
 9. Nilanjan Halder and Kamakhya P Misra, “Effect of Annealing on the Structural and Optical Properties of TiO₂ Powder Prepared by Sol-gel Route”, American Institute of Physics Conf. Proc. 1728, 020386 (2016)].
 10. Nilanjan Halder, “Optical Characterization of Epitaxial InAs/GaAs Bilayer QDs National Conference on condensed matter physics and applications (CMPA-2015), Department of Physics, Manipal University, Manipal, India, 27-28th March, 2015.
 11. Kamakhya Prakash Misra and Nilanjan Halder, “Red-shift in Absorption Edge of Sol-gel Derived TiO₂ Films with Annealing, International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016)”, Jaipur National University, Jaipur, India, March 17-19, 2016.
 12. J. Tripathi, A. Sharma, S. Tripathi and K. Das, “Concentration dependent optical properties of Rhodamine B doped Poly (vinyl) alcohol solutions” Accepted in Macromolecular research Journal (In press).
 13. A. Sharma, S. Tripathi and J. Tripathi, “Structural and magnetic properties of (111) oriented annealed ultrathin Co/Pt multilayers” AIP conference proceeding (In Press).
 14. J. Tripathi, S. Tripathi, P. Tiwari, A. Sharma, A. Choudhary, and T. Shripathi “Low Doping Concentration Studies Of Doped PVA-Coumarin Nanocomposite Films” AIP conference proceeding (In Press).
 15. Anupam Sharma, S. Tripathi, J. Tripathi and T. Shripathi, “Modifications of Band Gap in Si/Ge Multilayers through Vacuum Annealing” AIP conference proceeding 1728, 020541 (2016).
 16. J. Tripathi, S. Tripathi, A. Sharma, R. Bisen and J. Singh, “XPS study of annealed PVA-Rhodamine B Coumarin Nanocomposite Films” AIP conference proceeding, 1728, 020229 (2016).
 17. Anupam Sharma, S. Tripathi and J. Tripathi, “Magnetic and Structural Properties of Ni Film Deposited on Si Substrate” AIP Conf. Proc. 1665, 080048 (2015).
 18. J. Tripathi, S. Tripathi, A. Agrawal and A. Sharma, “Influence of C-F bond on the structural and optical properties of Polyvinyl fluoride blended in Poly (methyl methacrylate)” AIP Conf. Proc. 1665, 040021 (2015).
 19. Jagrati Sahariya and H.S. Mund Electronic Structure of FeTiSb Using Relativistic and Scalar-relativistic Approaches, AIP Conf. Proc. 1728, 020592 (2016)
 20. Pancham Kumar, Amit Soni, Jagrati Sahariya, K. C. Bhamu, “Electronic and optical properties investigations of CdGa₂S₄ and CdGa₂Se₄: FP-LAPW calculations,” 8th National Conference on Advances in Energy Conversion Technologies, 2016, pp. 1-5.
 21. Pancham Kumar, Amit Soni, Jagrati Sahariya “First Principles Optoelectronic Analysis for CdGa₂(S, Se)₄ Materials” International conference on computational technologies, 2016.
 22. Pancham Kumar, Amit Soni, Jagrati Sahariya, “Investigation of electronic and optical properties of CuGaS₂: First principle mBJ exchange correlation potential,” Thirty First National Convention of Electronics and Telecommunication Engineering, 2015.
 23. Pancham Kumar, Amit Soni, Jagrati Sahariya, “Optoelectronic modeling of ternary ZnGa₂S₄ and CdGa₂S₄ solar cell compound,” National conference on renewable energy and energy conservation (NCREEC-2016), 2016.
 24. Pancham Kumar, Amit Soni, Jagrati Sahariya, “Structural and optical investigations of ZnGa₂S₄: First principle FP-LAPW calculations,” National Workshop on Advancement in Material Science and Physics,” Manipal University Jaipur, November 2015.
 25. Pancham Kumar, Amit Soni, Jagrati Sahariya, “Structural and optical investigations of ZnGa₂Se₄: First principle FP-LAPW calculations,” Smart Grid and Green Energy Technologies,” Manipal University Jaipur, November 2015.

MISCELLANEOUS


V

Financial Statement

MANIPAL UNIVERSITY, JAIPUR			
Cehmi Kalan Village, Tehsil Sanganer, Jaipur Cistrict, Jaipur, Rajasthan – 303 007			
BALANCE SHEET AS AT MARCH 31, 2016			
		(In Rupees)	(In Rupees)
SOURCES OF FUNDS	SCHECULE NO	31 MARCH, 2016	31 MARCH, 2015
Corpus Fund	1	50,60,74,477.00	50,60,74,477.00
Designated, Endowment and Other Funds	2	(79,15,15,749.04)	(67,83,52,553.34)
Loan Funds	3		
1. Secured Loan		226,52,85,579.69	176,99,40,432.43
2. Unsecured Loan		52,47,00,000.00	52,47,00,000.00
TOTAL FUNDS EMPLOYED		250,45,44,307.65	212,23,62,356.09
APPLICATION OF FUNDS			
FIXED ASSETS	4		
Gross Block		320,21,26,600.93	269,16,06,757.71
Less: Depreciation		51,60,91,394.00	32,88,33,809.93
Net Block		268,60,35,206.93	236,27,72,947.78
Capital Work In Progress		7,92,64,752.74	7,01,16,169.94
		276,52,99,959.67	243,28,89,117.72
INVESTMENTS	5	11,82,00,327.75	3,78,73,743.73
CURRENT ASSETS, LOANS AND ADVANCES	6		
A. Inventory		-	-
B. Account Receivable		58,17,780.57	13,51,620.70
C. Receivable from other Institutions		5,91,391.00	-
D. Cash and Bank Balance		8,75,47,929.67	7,65,88,427.35
E. Other Current Assets		3,92,59,099.66	3,14,73,804.09
F. Loans and Advances		1,24,99,321.30	2,81,74,562.40
		14,57,15,522.20	13,75,88,414.54
Less: Current Liabilities and Provisions	7	52,46,71,501.97	48,59,88,919.90
NET CURRENT ASSETS		(37,89,55,979.77)	(34,84,00,505.36)
TOTAL ASSETS		250,45,44,307.65	212,23,62,356.09
Accounting Policies and Notes on Accounts	18	-	-

In terms of our report of even date.
For **SRIRAMULU NAIDU & CO.**
Chartered Accountants
Firm Regn.No. 008975S

(CA. SRIRAMULU NAIDU)
Partner
(Membership No. 018244)
Place: Jaipur
Date: 25.09.2016



For MANIPAL UNIVERSITY, JAIPUR

Dr. Sandeep Sancheti
President

Sujiban Ghosh
Chief Finance & Accounts Officer

MANIPAL UNIVERSITY, JAIPUR			
Cehmi Kalan Village, Tehsil Sanganer, Jaipur Cistrict, Jaipur, Rajasthan – 303 007			
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON MARCH 31, 2016			
		(In Rupees)	(In Rupees)
OPERATING RECEIPTS	SCH	31 MARCH, 2016	31 MARCH, 2015
Tution and Other Fee	8	83,22,66,159.85	54,72,61,201.96
Other Services	9	1,18,94,486.00	75,60,683.00
Interest and Dividend Income	10	2,09,39,098.33	1,79,00,535.94
Miscellaneous Income	11	3,53,58,588.88	3,54,22,586.81
TOTAL OPERATING RECEIPTS		90,04,58,333.06	60,81,45,007.71
OPERATING EXPENSES			
Staff Compensation	12	27,08,01,834.00	17,71,16,586.00
Academic Expenses	13	14,67,08,089.34	10,95,30,234.66
Utilities and Services	14	7,04,21,004.98	6,59,30,863.00
Office and General	15	10,87,91,068.73	8,21,63,251.14
Finance Charges	16	24,64,88,552.33	22,86,70,790.23
Depreciation	17	18,81,68,709.07	17,14,34,582.23
TOTAL OPERATING EXPENSES		103,13,79,258.45	83,48,46,307.26
SURPLUS/(DEFICIT)		(13,09,20,925.39)	(22,67,01,299.55)
OPERATING SURPLUS/ (DEFICIT)			
- CONSTITUENT COLLEGES/HOSTELS		-	-
OPERATING SURPLUS/(DEFICIT)		(13,09,20,925.39)	(22,67,01,299.55)
(Before Appropriations)			
Less : Appropriation to Fund		-	-
OPERATING SURPLUS/(DEFICIT)		(13,09,20,925.39)	(22,67,01,299.55)
Accounting Policies and Notes on Accounts	18		

In terms of our report of even date.

For **SRIRAMULU NAIDU & CO.**

Chartered Accountants
Firm Regn.No. 008975S

(**CA. SRIRAMULU NAIDU**)

Partner
(Membership No. 018244)

Place: Jaipur
Date: 25.09.2016



For **MANIPAL UNIVERSITY, JAIPUR**

Dr. Sandeep Sancheti
President

Sujiban Ghosh
Chief Finance & Accounts Officer

Online Faculty Information Systems (OFIS)

Manipal University Jaipur – Online Faculty Information System

The application is created to record information (both academic as well as professional) pertaining to the faculty members of the University, all in one place, and in a uniform format which will greatly facilitate generating various types of reports required by university & governmental agencies from time to time.

The system provides a user friendly interface for accessing and modifying user details from a centralized database. Problems such as multiple copies of same information, repetition of information at multiple locations can be avoided by using this application.

Salient Features

1. Data Capture Module

- Basic faculty Profile

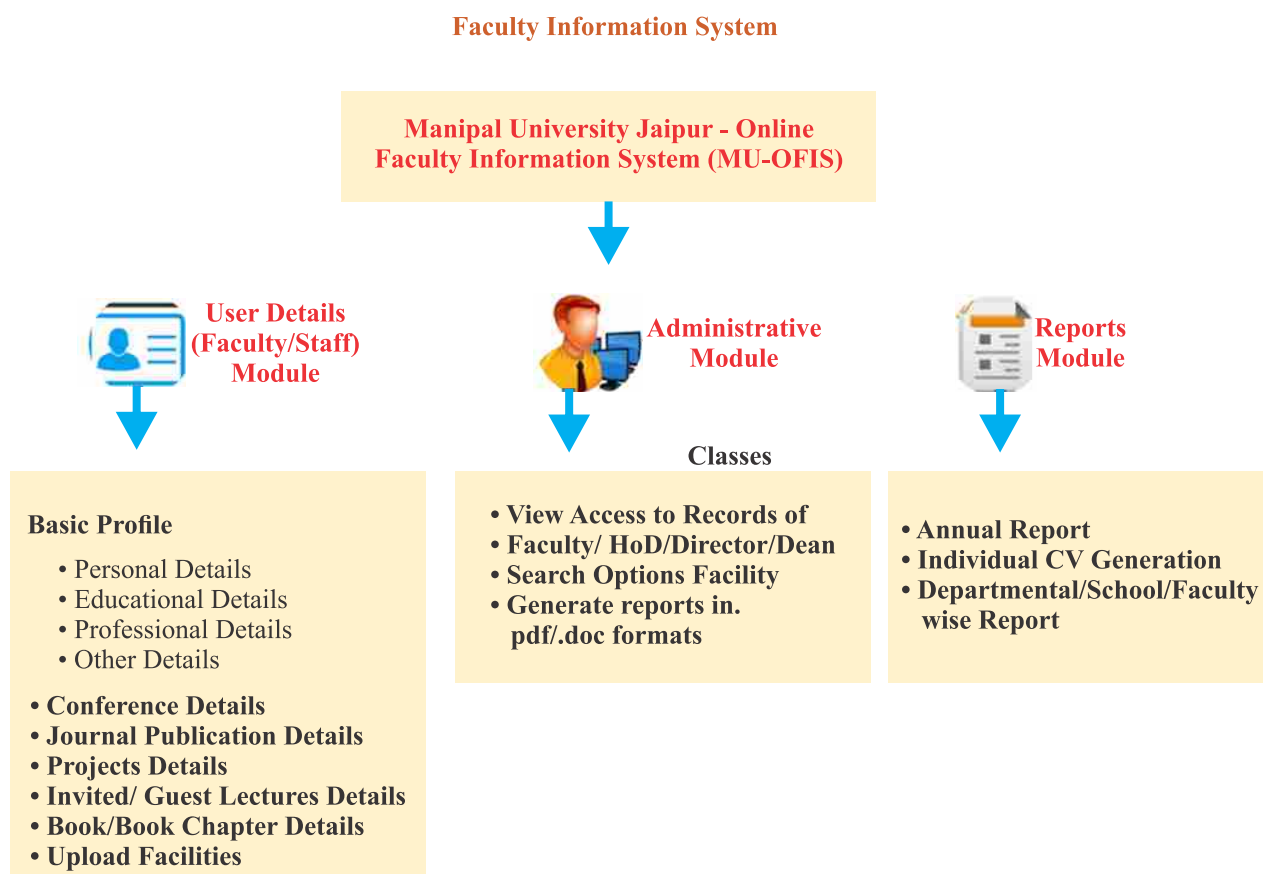
- Conference and Journal Publications
- Guest Talks/Lectures given
- Book Chapter/Book Publication
- Professional Membership
- Individual CV generation

2. Admin & Report Generation Module

- Individual Faculty detail reports
- Departmental Reports by HoDs
- School-wise Report by Directors
- Faculty-wise Report by Deans
- University Level Report by Registrar's office

Reports can be generated and saved in *.pdf or .doc/.docx format*. MUJ-OFIS is fully functional and can be accessed by providing valid username & password on the university LAN.

The structure of the OFIS is given below:



MUJ-Alumni Cell

Introduction The MUJ Alumni Cell was established in April 2015 and its web portal (www.mujalumni.in) was inaugurated on 15th August 2015 by the President MUJ. The Cell intends to strengthen the valuable bond between the Alumni and the University by cultivating links with them and involving them in institutional as well as alumni programs and activities. The portal was created to provide a platform which caters to the MUJ alumni needs and requirements. **Connect Revive Engage (CoRE)** is the motto of the cell.

Objectives

- To CULTIVATE and SUSTAIN a supportive and mutually beneficial relationship with Alumni
- To SET UP and make effective use of infrastructure for communication and linkage with Alumni
- To PLAN and work in PARTNERSHIP with alumni associations in organizing special alumni events and reunion programs
- To PROVIDE support to alumni in forming new alumni associations

Activities Carried Out

- 1084 Alumni registered successfully through the portal
- Alumni are being engaged through portal & also telephonically. Their queries regarding official transcripts, degree certificates, convocation queries etc. are being handled and answered
- The portal is regularly improved for more engagements by providing more functionalities and features.
- Social Media Pages on Facebook, LinkedIn, and Twitter for more engagements with Alumni have been created.

- To PROMOTE cooperation among alumni associations in supporting their alma mater

The portal was developed by students Karan Malhotra and Nikhil Dikshit under the supervision of Prof. Roheet Bhatnagar and Mr. Ashish Kumar

Portal Features

- Member Account Settings
 - Extended Profiles
 - Upcoming Birthdays
 - Upcoming Events and Event Calendar
 - Quote of The Day
 - Friend Connections
 - Internal Messaging
 - Notifications
 - Activity Streams
 - Projects
 - User Groups
 - Jobs and Internships Listing
 - Posting Jobs/Internships
 - Image Gallery
 - Testimonials
 - Recently Active Popular/New Members
 - FAQs
- Alumni Remembrance Wall and Visitor Book have been introduced which were filled by Alumni during the 2nd and 3rd Convocations.
 - 450 Alumni Jute Bags with MUJ Logo were distributed as memoir to Alumni during 3rd Convocation
 - An Alumni interaction lecture about future technology and how to prepare for placement was conducted for 3rd year students.
 - Industry oriented Web development special lecture series were conducted by MUJ Alumni in the month of September 2016.

Information on Registered Alumni

Year	No. Registered	Total Alumni
2014	128	128
2015	244	445
2016	712	758
Total	1084	1331

New Construction @ MUJ

1. B7 Block : Total Area - 12,900 sqm 335 Rooms

- 5 Squash courts
- 1 Tennis court
- 1 Kabadi Court
- 1 Basket Ball Court
- 1 Badminton Court

- 30 Class Rooms
- 30 Labs
- Auditorium – 376 Seating
- Courtyard Open Theatre – 3000 seating

2. MUJ NAB 2 : Total Area - 13,300 sq

- ### 3. MUJ Automobile Lab : Total Area – 1050 sq
- 1 Workshop
 - 2 Labs



NAB-1



Water Pond -2



NAB



Water Pond -1

**SIGNIFICANT EVENTS -
PHOTO GALLERY**

VI

Technical Festival - Techideate March 11-13, 2016



Cultural Festival - Oneiros October 9-11, 2015



Sports Festival - Abhivarta February 12-13, 2016



Independence Day August 15, 2015



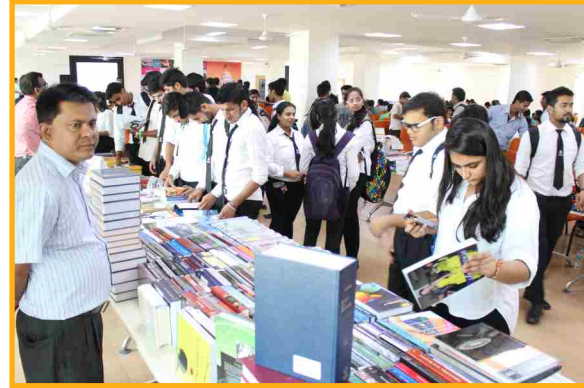
Republic Day, January 26, 2016



Manipal - Ranka Moot Court, February, 27 2016



Book Fair, August 09, 2015



Blood Donation Camp November 21, 2015



Photo Gallery



Visit of Mumbai Dabbawalas



CIMA Inaugural



Engineer's Day



Faculty Club Program



Hindi Diwas



Hotel Management Event



Rotary Club Visit



Spic Macay in MUJ



Automobile Workshop



ETMN - International Conference



HR Conclave-2015



New Zealand Delegation Visit



Shri Dusyant Raje visit



Student Technical Seminar



Fire Training in MUJ



Token for Photo Journalism



Alibaba Visit in MUJ



EESD Workshop



JIFF - 2016



MOU with Ayushraj Enterprises Pvt. Ltd



Mr. Sandeep Girotra, Nokia Networks



MUJ Calendar 2016 - Inauguration



Rajan Mahan Guest lecture



Free Coaching Classes



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