



Public Pledge towards 100% Renewable Energy Beyond Campus

Manipal University Jaipur occupies a distinctive role as a leader within its communities and the broader society. By publicly committing to achieving 100% renewable energy, the institution not only reinforces this pledge on its campus but also advocates for similar initiatives beyond its boundaries. These efforts not only diminish its carbon footprint but also serve as a source of inspiration for others to adopt similar practices. In an era where the demand for sustainable energy solutions is pressing, Manipal University Jaipur exemplifies the potential outcomes of determination, innovation, and a collective dedication to a more sustainable future. The university's commitment to 100% renewable energy represents a courageous stance that it is willing to uphold. In addition to minimizing its own carbon emissions, the institution acknowledges the importance of fostering broader societal change. The transition to renewable energy sources plays a crucial role in significantly lowering carbon emissions, thereby contributing to both local and global initiatives aimed at addressing climate change. This shift often results in the creation of green jobs and stimulates regional economic development. By diversifying energy sources and prioritizing renewables, communities can reduce their vulnerability to disruptions in energy supply. Furthermore, clean energy sources enhance air quality, thereby mitigating health risks linked to pollution. Manipal University Jaipur's dedication to renewable energy also offers educational opportunities for community members, equipping them with essential knowledge and skills related to sustainability and renewable energy technologies.

The university is progressively increasing its reliance on renewable energy through the installation of solar panels on campus and collaborations with local renewable energy providers. Additionally, Manipal University Jaipur is actively engaging with local communities and municipalities to encourage the adoption of renewable energy solutions. Manipal University Jaipur is hosting informational sessions, workshops, and seminars to educate the public on the benefits of clean energy sources and how to transition to them. Manipal University Jaipur is actively advocating for supportive renewable energy policies at the local, state, and national levels. Manipal University Jaipur recognizes that policy changes are essential to creating an environment where renewable energy adoption can thrive. Manipal University Jaipur is at the forefront of renewable energy research and innovation. It is developing cutting-edge technologies and solutions that not only benefit the campus but can be shared with the broader public to accelerate the transition to renewable energy.





IEEE MTTS PRESENTS

DISTINGUISHED MICROWAVE INSTRUCTORS

Technical Event

IEEE RAS MUJ, IEEE AESS, IEEE APS, ELECTRONIC SOCIETY & IEEE SB MUJ

OFFLINE EVENT

Date of Event (10th March 2023)

(10:00 AM - 12:00 PM)



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1. Introduction of the Event

The DMI program was supported by the IEEE Microwave Theory and Techniques Society (MTT-S) and organized by its Education Committee. The DMI program aimed to stimulate interest among undergraduate or tertiary students to bridge the pathway to the development of future wireless communications and sensing systems.

Through the DMI program, world-famous educators and engineers introduced the history of wireless technologies, the evolution of modern wireless systems, and cutting-edge wireless applications in our daily lives in the foreseeable future. The DMIs also shared their own growth experiences.

2. Objectives of the Event

- The main objective of this Workshop was to encourage and enhance the knowledge of students in the field of microwave, radar systems and wireless communications.
- To provide students with a session with which they can explore and enhance their skills.

3. Beneficiaries of the Event

- MUJ Students.
- IEEE RAS MUJ Members.
- IEEE AESS MUJ Members.
- Electronic Society.
- IEEE SB MUJ Members.

4. Brief Description of the event

The webinar featured three distinguished speakers: -

- Prof. Jae-Sung Rieh (Korea University, South Korea)
- Prof. Shiban Koul (Indian Institute of Technology, India)
- Prof. Quan Xue (South China University of Technology, China)

The DMIs uncovered the mysteries of wireless technologies and demonstrated their long journey from traditional applications (30 years ago, radio, TV, and analogue mobile phones) to portable devices and wearable or implantable wireless sensors today. The participants learned about the ground-breaking achievements that microwave and wireless technologies have made in human civilization. As a result of engaging with the DMIs, participants were able to access excellent



educational resources, learn about microwave engineering's evolution, and experience the evolution of technologies like 5G/6G wireless communications, virtual reality, telepresence, and automotive radar in unmanned vehicles. During the event, refreshments were provided to participants. The webinar concluded with an interactive quiz on the discussed topics and winners were also awarded prizes and goodies.

5. Photographs

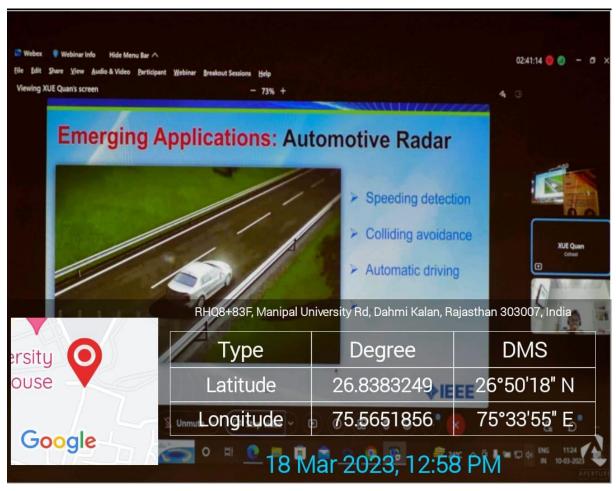






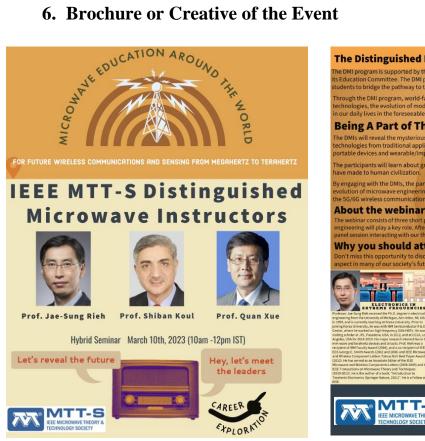








6. Brochure or Creative of the Event





7. Schedule of the event

The event was held on 10th March 2023 from 10:00 AM - 12:00 PM

8. Attendance of the event:

Total Registrations: 693



S. No.	Name of Participant	Personal Email ID	Name of Department/Branch	Name of University/College
1	Shivang Seth	shivang.seth2002@gmail.co m	в.тесн	MANIPAL UNIVERSITY JAIPUR
2	Neha Garg	nehagarg2629@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
3	Kirtish Kasar	kirtish.kasar2001@gmail.co m	ELECTRONICS AND COMMUNICATIONS	MANIPAL UNIVERSITY JAIPUR
4	Saumya Shah	26sshah@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
5	Pratham Tatraiya	pratham2001254@gmail.co m	B.TECH (EEE)	MANIPAL UNIVERSITY JAIPUR
6	Nikita Malewar	nnmalewar@gmail.com	BTECH/ECE	MUJ
7	Dhyey	dhyey.209301258@muj.mani pal.edu	B.TECH(CSE)	MANIPAL UNIVERSITY JAIPUR
8	K H Murali Naik	khmurali.n@gmail.com	ECE	VARDHAMAN COLLEGE OF ENGINEERING
9	Pulkit Jai	pulkit.209205053@muj.mani pal.edu	BTECH EEE	MUJ
10	Rishi Sharma	rishirenu13@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
11	Priyanshu Sharma	priyanshu10062003@gmail.c om	ELECTRICAL ENGINEERING	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN JAIPUR
12	Avni Jain	avnijain150103@gmail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
13	Shubhi Jain	Shubhijain19@gmail.com	ELECTRONICS AND COMMUNUCATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
14	Abhijeet Agarwal	abhijeetagarwal15102002@g mail.com	ECE	SKIT



15	Suraj Singh Shekhawat	singhsuraj1886@gmail.com	ECE	SKIT
16	Bhavesh Agarwal	Sirbhaveshagarwal@gmail.c om	ECE	SKIT
17	Jai Prakash Anand	anandjps1113@gmail.com	ECE	RTU/SKIT
18	Devang Joshi	dewangjoshi.in@gmail.com	EC	SKIT
19	Hardik Sharma	Hardikas304@gmail.com	EC	SKIT
20	Anmol Gupta	anmolmahajan875@gmail.co m	ECE	SKIT
21	Karan Sharma	karanannusharma@gmail.co m	EC	SKIT
22	Aryan Sharma	aryansudha2003@gmail.co m	ECE	SKIT
23	Jashan	jashanbhayana5@gmail.com	CSE	SKIT
24	Raj Tiwari	raj05102003@gmail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHWANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAM
25	Vipasha Goyal	Goyalvipasha07@gmail.com	ECE	SKIT
26	Siddharth Meena	meenasidd4188@gmail.com	ECE	SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY AND GRAMOTHAN SWAMI KESHAVANAND
27	Rahul Kumawat	sokilrahul@gmail.com	ECE	INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
28	Mohit Ramnani	B211118	ECE	SKIT
29	Ritu Yadav	Yritu609@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
30	Lakshya Verma	Lakshya29.verma@gmail.co m	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY JAIPUR



31	Shivani Lamba	Slamba2002@gmail.com	ECE	SKIT, JAIPUR
32	Piyush Yadav	ypiyush838@gmail.com	ECE	SKIT
33	Jatin Bhagtani	jatinbhagtani321@gmail.co m	ECE 2025	SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
34	Kashmi Choudhary	kashmichoudhary1@gmail.c om	ECE	POORNIMA COLLEGE OF ENGINEERING
35	Abhishek Kumar	abhishek76750@gmail.com	ECE	SKIT
36	Ujjawal Sharma	ujjawalsharmao77@gmail.co m	ECE	SKIT
37	Abhishek Singh Rajawat	rajawatabhishek711@gmail. com	ECE	POORNIMA COLLEGE OF ENGINEERING JAIPUR
38	Anshul Kumar Jain	2020pceecanshul01@poorni ma.org	ECE	POORNIMA COLLEGE OF ENGINEERING
39	Naman Tak	namantak6@gmail.com	ECE	SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
40	Mohd Daud Qureshi	2021pceecmohd011@poorni ma.org	ECE	POORNIMA COLLEGE OF ENGINEERING
41	Anushka Patel	2020pceecanushka02@poor nima.org	ECE	POORNIMA COLLEGE OF ENGINEERING
42	Lokesh Kumar Dhaker	lokeshkoli812@gmail.com	EC	POORNIMA COLLEGE OF ENGINEERING
43	Avinash Kumar	2021pceecavinash003@poor nima.org	ECE	POORNIMA COLLEGE OF ENGINEERING
44	Abhay Khandelwal	abhaykhandelwal024@gmail .com	ELECTRONICS AND COMMUNICATION	RAJASTHAN UNIVERSITY
45	Md Arif Alam	arifjorvee87@gmail.com	EC	POORNIMA COLLEGE OF ENGINEERING
46	Rajendra Singh Solanki	rajendrasinghsolanki8120@ gmail.com	ECE	POORNIMA COLLEGE OF ENGINEERING



47	Yash Vardhan Singh Solanki	2021pceecyash022@poorni ma.org	ECE	POORNIMA COLLEGE OF ENGINEERING
48	Tarun Verma	2020pceectarun10@poornim a.org	ECE	POORNIMA COLLEGE OF ENGINEERING
49	Ashish Kumar	2020pceecashish03@poorni ma.org	ECE	POORNIMA COLLEGE OF ENGINEERING
50	Sahil Arora	arorasahil25003@gmail.com	ELECTRONICS AND COMMUNICATION	POORNIMA COLLEGE OF ENGINEERING
51	Nikhil Chouhan	2020pceecnikhil08@poorni ma.org	ELECTRONICS AND COMMUNICATIONS	POORNIMA COLLEGE OF ENGINEERING
52	Lokesh Kumawat	lokeshkumavat95@gmail.co m	ECE	POORNIMA COLLEGE OF ENGINEERING
53	Aarohi Malsaria	aarohi03malsaria@gmail.co m	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN
54	Himanshu Agarwal	B210962@skit.ac.in	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
55	Ameen Zehra	ameenzehra786@gmail.com	ECE	SKIT
55 56	Ameen Zehra Lovesh Chhabra	ameenzehra786@gmail.com loveshchhabra070@gmail.c om	ECE	SKIT SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
		loveshchhabra070@gmail.c		SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN
56	Lovesh Chhabra	loveshchhabra070@gmail.com	ECE ELECTRONICS AND	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
56 57	Lovesh Chhabra Diya Sharma Deepanshu	loveshchhabra070@gmail.com diyajaipur.sharma@gmail.com deepanshukhandelwal187@	ECE ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND
56 57 58	Lovesh Chhabra Diya Sharma Deepanshu Khandelwal	loveshchhabra070@gmail.com diyajaipur.sharma@gmail.com deepanshukhandelwal187@gmail.com	ECE ELECTRONICS AND COMMUNICATION ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY



62	Ravi Kumar	ravikumarrj9549@gmail.com	ELECTRONIC & COMMUNICATION	RAJASTHAN TECHNICAL UNIVERSITY
63	Nandani Khandelwal	nandanikhandelwal258@gm ail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
64	Tanish Khandal	tanishkhandal15@gmail.co m	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
65	Prajjwal Nirvan	princenirvan365@gmail.com	ECE 6	SKIT JAGATPURA
66	Shivin Shyam Kasat	kasatshivin@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
67	Shivansh Agarwal	b211177@skit.ac.in	EC	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
68	Vanshaj Kataria	vanshajkataria3@gmail.com	ELECTRONICS & COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, M & G
69	Arooja Hassan	aaroojahassan@gmail.com	ECE	SKIT
70	Navneet Kaur	navneetkaur11012@gmail.co m	ECE	SWAMI KESHAVANDA INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
70 71	Navneet Kaur Satvik Priyadarshi	_	ELECTRONICS AND COMMUNICATION	INSTITUTE OF TECHNOLOGY MANAGEMENT AND
		m priyadarshisatvik8@gmail.c	ELECTRONICS AND	INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN RAJASTHAN TECHNICAL
71	Satvik Priyadarshi	m priyadarshisatvik8@gmail.c om	ELECTRONICS AND COMMUNICATION	INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN RAJASTHAN TECHNICAL UNIVERSITY SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND
71 72	Satvik Priyadarshi Saxam Dixit	m priyadarshisatvik8@gmail.com Saxamdixit3@gmail.com ramakantsharm55@gmail.co	ELECTRONICS AND COMMUNICATION ECE	INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN RAJASTHAN TECHNICAL UNIVERSITY SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN POORNIMA COLLEGE OF
71 72 73	Satvik Priyadarshi Saxam Dixit Rama Kant Sharma	m priyadarshisatvik8@gmail.c om Saxamdixit3@gmail.com ramakantsharm55@gmail.co m karishmakumawat654@gmai	ELECTRONICS AND COMMUNICATION ECE ECE	INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN RAJASTHAN TECHNICAL UNIVERSITY SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN POORNIMA COLLEGE OF ENGINEERING SWAMI KESHWANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND



77	Biswajit Dash	blackops1520@gmail.com	BTECH CCE	MANIPAL UNIVERSITY JAIPUR
78	Mihir	Guptamihir692@gmail.con	BTECH CSE	MUJ
79	Pranshu Maheshwari	mpranshu99@gmail.com	ІТ	MANIPAL UNIVERSITY JAIPUR
80	Saksham Poply	Sakshampoply@gmail.com	CCE/CSE IOT & IS	MANIPAL UNIVERSITY JAYPUR
81	Vedant Mishra	vedantmishra8770@gmail.c om	BTECH IT	MANIPAL UNIVERSITY JAIPUR
82	Devvrath Singh	2021pceecdevvrath005@poornima.org	ELECTRONICS AND COMMUNICATION	POORNIMA COLLEGE OF ENGINEERING
83	Happyn Raithatha	raithathahappyn@gmail.com	MECHATRONICS	MANIPAL UNIVERSITY JAIPUR
84	Krishna Dembla	Krishnadembla2001@gmail. com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
85	Aparna S Kumar	2021pceecaparna800@poor nima.org	ECE	POORNIMA COLLEGE OF ENGINEERING
86	Ojus	ojusav.219301153@muj.man ipal.edu	CSE	MANIPAL UNIVERSITY JAIPUR
87	Mohit	mohitgoyal7121@gmail.com	BTECH CSE IOT	MANIPAL UNIVERSITY JAIPUR
88	Mohit	mohitgoyal7121@gmail.com	BTECH CSE IOT	MANIPAL UNIVERSITY JAIPUR
89	Mansi	mansi.aggy@gmail.com	B TECH ECE	MANIPAL UNIVERSITY JAIPUR
90	Ritik Kumar	rittiksingh757757@gmail.co m	BTECH/MECHATRO NIC	MANIPAL UNIVERSITY
91	Priyanshu Soni	2021pceecpriyanshu013@po ornima.orh	ECE	POORNIMA COLLEGE OF ENGINEERING
92	Priyansh Bairwa	bairwapriyansh00@gmail.co m	ECE	POORNIMA COLLEGE OF ENGINEERING
93	Meena Ashwini Seetaram	2020pceecmeena05@poorni ma.org	ECE	POORNIMA COLLEGE OF ENGINEERING



94	Bhanu Sharma	2020pceecbhanu04@poorni ma.org	ECE	POORNIMA COLLEGE OF ENGINEERING
95	Adyasha Mahanta	adyasha.m482@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
96	Pankhuri	pankhuri.banaras@gmail.co m	BTECH ECE	MANIPAL UNIVERSITY JAIPUR
97	Moulshri Daroch	moulshri.7@gmail.com	BTECH - CSE	MANIPAL UNIVERSITY JAIPUR
98	Mohit Yadav	yadav13mohit@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, JAIPUR
99	Isha	yadav16isha@gmail.com	ENGINEERING/CSE IOT	MANIPAL UNIVERSITY JAIPUR
100	Ranjan Kumar Tiwari	ranjantiwari8039@gmail.co m	ELECTRICAL ENGINEERING	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN
101	Aarin Kachroo	aarin.kachroo@gmail.com	B TECH ECE	MANIPAL UNIVERSITY JAIPUR
102	Krishan Sherawat	krishansherawat157@gmail. com	ELECTRICAL	UNIVERSITY OF ENGINEERING AND MANAGEMENT
103	Jasjappan Singh	jasjap@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
104	Ankur Saha	ankursahasaha7@gmail.co m	ELECTRONICS AND COMMUNICATION	UNIVERSITY OF ENGINEERING AND MANAGEMENT JAIPUR
105	Romir Malik	romir.malik13@gmail.com	BTECH DSE	MANIPAL UNIVERSITY JAIPUR
106	Kirti Vyas	kirtivyas192@gmail.com	ECE	ARYA COLLEGE OF ENGINEERING AND I.T.,JAIPUR, RAJASTHAN
107	Abhik Maji	abhikmaji707@gmail.com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT JAIPUR
108	Tejasvita Jain	jaintejasvita15@gmail.com	COMPUTER SCIENCE WITH AI AND ML	MANIPAL UNIVERSITY JAIPUR
109				UNIVERSITY OF



110	Abhik Banerjee	abhikbanrg.2002@gmail.co m	ECE	UEMJ
111	Dhruv Sen	dhruvsen21@gmail.com	CSE	MANIPAL UNIVERSITY JAIPUR
112	Aryaman Singh Katoch	aryaman020@gmail.com	CSE AIML	MANIPAL UNIVERSITY JAIPUR
113	Akash Dutta Banik	akashbanik219@gmail.com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT
114	Suhrid Haldar	haldarsuhrid@yahoo.in	ELECTRICAL ENGINEERING B.TECH 3RD YEAR	UNIVERSITY OF ENGINEERING AND MANAGEMENT, JAIPUR
115	Kamlesh Kumawat	2021pceeckamlesh007@poornima.org	ELECTRONICS AND COMMUNICATION	POORNIMA COLLEGE OF ENGINEERING
116	Devang Dadhich	devangdadhich0017@gmail. com	COMPUTER SCIENCE AND ENGINEERING	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
117	Tarun Verma	tarunverma10065@gmail.co m	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT JAIPUR
118	Rahul Solanki	rahulsol870@gmail.com	ECE	UEM JAIPUR
119	Kartikey Joshi	joshicode2002@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
120	Shrashti	shrashtipatidar605@gmail.c om	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
121	Lipika Dudeja	lipika.dudeja14@gmail.com	CSE	MANIPAL UNIVERSITY JAIPUR
122	Mannan Arora	mannanarora1012@gmail.co m	BTECH IT	MANIPAL UNIVERSITY JAIPUR
123	Satvika Arora	satvikaarora1@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
124	Arham Jain	arhamjainkhater@gmail.com	CSE AI ML	MANIPAL UNIVERSITY JAIPUR
125	Aditi Sharma	aditisharma9217@gmail.co m	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
126	Tanu Tripathi	ttanu6106@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR



127	Priyansh Yadav	anitayadav.m899@gmail.co m	IT	MUJ JAIPUR
128	Dhruv Bansal	dhruvbansal2804@gmail.co m	AI ML	MANIPAL UNIVERSITY JAIPUR
129	Anisha Lamba	anishalamba20015@gmail.c om	BTECH CSE SPECIALIZATION IN IOT-IS	MANIPAL UNIVERSITY JAIPUR
130	Sanyam Modi	modisam1807@gmail.com	BTECH DSE	MANIPAL UNIVERSITY JAIPUR
131	Tanish Kesarwani	tanishkesarwani5358@gmail .com	CCE	MANIPAL UNIVERSITY JAIPUR
132	Rajveer Singh Gohil	229310183	CSE AI ML	MANIPAL UNIVERSITY JAIPUR
133	Krittika Wadhawan	Wadhawankrit30@gmail.co m	ВТЕСН ІОТ	MANIPAL UNIVERSITY JAIPUR
134	Kushagra Saxena	ksaxena149@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
135	Vidushi Gupta	gupta.vidushi2004@gmail.c om	втwсн іт	MANIPAL UNIVERSITY JAIPUR
136	Rohan Arora	rohanedusport@gmail.com	CSE(AIML)	MANIPAL UNIVERSITY JAIPUR
137	Harsh	harshsingh020202@gmail.c om	IT	MANIPAL UNIVERSITY JAIPUR
138	Praketh Voona	vpraketh@gmail.com	CCE	MANIPAL UNIVERSITY JAIPUR
139	Akash Mukherjee	akashmukherjee2004@gmail .com	ELECTRICAL AND COMPUTER ENGINEERING	IEEE MANIPAL UNIVERSITY JAIPUR
140	Sajal Panwar	Sajalp2808@gmail.com	FOD B.ARCH	MANIPAL UNIVERSITY, JAIPUR
141	Pujan Modha	pujanmodha1905@gmail.co m	DEPARTMENT OF COMPUTER SCIENCE / CSE	MANIPAL UNIVERSITY JAIPUR
142	Yash Bhargava	yash14995@gmail.com	ВАЈМС	MUJ
143	Harshneet Khanna	Harshneet.229302236@muj. manipal.edu	BTECH IT	MANIPAL UNIVERSITY JAIPUR



144	Devansh Bansal	Devanshdksb4@gmail.com	CSE HONS. AI AND ML	MANIPAL UNIVERSITY JAIPUR
145	Darshit Raichura	darshitraichura001@gmail.c om	BTECH ELECTRICAL AND COMPUTER ENGINEERING	MANIPAL UNIVERSITY JAIPUR
146	Arunabha Mukhopadhyay	arunabham2017@gmail.com	B.TECH. CCE	MANIPAL UNIVERSITY JAIPUR
147	Rashi Sharma	sharma2004rashi@gmail.co m	BTECH DATA SCIENCE AND ENGINEERING	MANIPAL UNIVERSITY JAIPUR
148	Manoviraj	manovirajgill@gmail.com	CSE	MANIPAL
149	Asis Singh Khurana	asis.khurana24@gmail.com	IT	MUJ
150	Karan Kapoor	karankapoor3008@gmail.co m	BTECH CSE (CORE)	MANIPAL UNIVERSITY JAIPUR
151	Chetanya Jolly	Jollychetanya35@gmail.com	CSE AI&ML	MANIPAL UNIVERSITY JAIPUR
152	Kanishka Chaudhary	kanishka.chaudhary.kota@g mail.com	BTECH ECE	MANIPAL UNIVERSITY JAIPUR
153	Shristi Krishna	shristikrishna2003@gmail.c om	BTECH CSE CORE	IEEE MANIPAL UNIVERSITY JAIPUR
154	Arvind Nair	Arvindnair1004@gmail.com	CSE CORE	MANIPAL UNIVERSITY JAIPUR
155	Vikrant Kawadkar	vikrantkawadkar2099@gmail .com	DEPARTMENT OF COMPUTER SCIENCE ENGINEERING/ CCE	MANIPAL UNIVERSITY JAIPUR
156	Aman Sethi	amansethi2003@gmail.com	CSE	MANIPAL UNIVERSITY JAIPUR
157	Pawan Ram	Pr4463174@gmail.com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT JAIPUR
158	Sparsh Garg	sparshgarg1377@gmail.com	B.TECH CSE	MANIPAL UNIVERSITY JAIPUR
159	Bhavik Jain	sweetbhavikjain@gmail.com	B.TECH DSE	MANIPAL UNIVERSITY JAIPUR
160	Aanchal Singh	singhaanchal752@gmail.co m	BTECH IT	MANIPAL UNIVERSITY JAIPUR



161	Mahak Lashkary	mahaklashkary19@gmail.co m	BTECH CSE (IOT)	MANIPAL UNIVERSITY JAIPUR
162	Mayank Kumar Mishra	mk02mishra@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
163	Ashutosh Biswal	ashutoshbiswal500@gmail.c om	IT	MANIPAL UNIVERSITY JAIPUR
164	Aashi Sharma	sharma.aashi2004@gmail.co m	BTECH DATA SCIENCE ENGINEERING	MANIPAL UNIVERSITY JAIPUR
165	Aish Sinha	aish.sinha26@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
166	Priyanshu Choudhary	priyanshu6beta@gmail.com	CCE	MUJ
167	Bhawana Sahani	Sahanibhavi1520@gmail.co m	ELECTRONICS & COMMUNICATIONS	POORNIMA COLLEGE OF ENGINEERING
168	Anvit Dadape	anvit.dd@gmail.com	BTECH CSE IOT	MANIPAL UNIVERSITY JAIPUR
169	Bharvi	bharvipatel1534@gmail.com	B. TECH. ELECTRONICS & COMMUNICATION ENGINEERING	MANIPAL UNIVERSITY OF JAIPUR
170	Gunn Verma	gunnverma04@gmail.com	DEPARTMENT OF MECHATRONICS	MUJ
171	Gunn Verma	gunnverma04@gmail.com	DEPARTMENT OF MECHATRONICS	MUJ
172	Anshika Singh	rblanshika.05@gmail.com	B-TECH IT	MANIPAL UNIVERSITY JAIPUR
173	Aman Singh	aman.singh.456604@gmail.c om	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
174	Vishal Rai	Vishal2001rai@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
175	Raghav Srivastava	raghavsrivastava1183@gmai I.com	B.TECH ELECTRICAL AND COMPUTER ENGINEERING	MANIPAL UNIVERSITY, JAIPUR
176	Abhinav Gupta	abhigupta0603@gmail.com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT



177	Vanshika Khanna	vanshika.khanna6@gmail.co m	ВТЕСН ССЕ	MANIPAL UNIVERSITY JAIPUR
178	Ahaana Verma	ahaanaverma7777@gmail.co m	BCA	MANIPAL UNIVERSITY JAIPUR
179	Yashvi Neema	yashvi.neema.2003@gmail.c om	B.TECH/IT	MANIPAL UNIVERSITY JAIPUR
180	Dhirajprasad Mahato	Dhirajprasad98@gmail.com	B.TECH MECHATRONICS	MANIPAL UNIVERSITY JAIPUR
181	Mitul Dhing	mituldhing@gmail.com	CSE (IOT & IS)	MANIPAL UNIVERSITY JAIPUR
182	Astha Agrawal	suhanibgbr@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
183	Astha Agrawal	suhanibgbr@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
184	Souvik Das	dassouvik802@gmail.com	ECE 2ND YEAR	UNIVERSITY OF ENGINEERING AND MANAGEMENT,JAIPUR
185	Ayana Takshak	ayanatakshak@gmail.com	BA(H) PSYCHOLOGY	MANIPAL UNIVERSITY JAIPUR
186	Samvit Singh	samvit2004@gmail.com	ВТЕСН	MANIPAL UNIVERSITY JAIPUR
187	Shubham Kukreti	shubhamkukreti.0107@gmai l.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
188	Priynarayan Sahu	priya.229310115@muj.manip al.edu	CSE(AI/ML)	MANIPAL UNIVERSITY JAIPUR
189	Rishabh Shetty	rishabhshetty2704@gmail.c om	DATA SCIENCE AND ENGINEERING	MANIPAL UNIVERSITY JAIPUR
190	Raeez Mohammed K P	raeez1208@gmail.com	B.TECH DATA SCIENCE AND ENGINEERING	MANIPAL UNIVERSITY JAIPUR
191	Saanvi	saanvimanocha22@gmail.co m	B.TECH CSE	MANIPAL UNIVERSITY JAIPUR
192	Riya Mishra	riyapragati28@gmail.com	BTECH/CSE	MANIPAL UNIVERSITY JAIPUR
193	Yashansi	yashansiagg@gmail.com	CSE(AI/ML)	MUJ



194	Pavni Jain	pavnijain04@gmail.com	IT (DATA SCIENCE)	MANIPAL UNIVERSITY JAIPUR
195	Kartavya Joshi	kartavyaorkuku@gmail.com	IΤ	MANIPAL UNIVERSITY JAIPUR
196	Saniya Wadhwani	saniyawadhwani05@gmail.c om	ВВА	MANIPAL UNIVERSITY JAIPUR
197	Komal Shah	kshah0108@gmail.com	BA (HONS) PSYCHOLOGY	MANIPAL UNIVERSITY JAIPUR
198	Chetna Vijay Rai	chetna684cvr@gmail.com	ВТЕСН ІТ	MANIPAL UNIVERSITY JAIPUR
199	Harsh Kumar	hk9155.harsh@gmail.com	ECE	POORNIMA COLLEGE OF ENGINEERING
200	Gautam Kumar Yadav	silentnight6626@gmail.com	ВТЕСН/ІТ	MANIPAL UNIVERSITY JAIPUR
201	Lokesh Kumawat	lokeshkumavat95@gmail.co m	ECE	POORNIMA COLLEGE OF ENGINEERING
202	Kashish Bhasin	kashish2571@gmail.com	CSE- AI AND ML	MUJ
203	Jayant Singh Bhoj		IΤ	MUJ
204	Aziz Barwaniwala	barwaniwalaaziz56@gmail.c om	BTECH DSE	MANIPAL UNIVERSITY JAIPUR
205	Nachiketa Jha	nachiketajha2003@gmail.co m	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
206	Vedant Agarwala	vedantagarwal@gmail.com	CSE(IOT)	MANIPAL UNIVERSITY JAIPUR
207	Pratyush Srivastava	pratyush0705@gmail.com	CSE(AI/ML)	MANIPAL UNIVERSITY JAIPUR
208	G. Amit Kumar Patro	rockingamit2004@gmail.co m	CSE(IOT)	MANIPAL UNIVERSITY JAIPUR
209	Saxam Dixit	Saxamdixit197@gmail.com	ECE	SWAMI KESHAVANANDA INSTITUTE OF TECHNOLOGY MANAGEMENT AND



210	Paramesh Gurbaxani	param.gurbaxani@gmail.co m	CSE	MANIPAL UNIVERSITY JAIPUR
211	Adarsh Kumar Choudhary	choudharyadarsh713@gmail .com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT
212	Shraddha Mukherjee	shraddhamukherjee123@gm ail.com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT JAIPUR
213	Mafizur Alam	mafizuralam000@gmail.com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT
214	Vishal Prajapati	vpps45678@gmail.com	ECE	UEM J
215	Adarsh Singh	adarshsinghrajput0708@gm ail.com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT, JAIPUR
216	Animesh Jain	9animeshjain@gmail.com	ВВА	MANIPAL UNIVERSITY JAIPUR
217	Amritansh Garg	gargamritansh2018@gmail.c om	ВВА	MUJ
218	Adhayan Grover	adhayangrover@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
219	Adhayan	adhayangrover@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
220	Ananya Sinha	ananyaritul@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
221	Lala Arnav Vatsal	arnav.vatsal2213@gmail.co m	BTECH CSE (CORE)	MANIPAL UNIVERSITY JAIPUR
222	Abhinav Singh	abhinavsingh263@gmail.co m	BTECH DSE	MANIPAL UNIVERSITY JAIPUR
223	Harsh	02harshg@gmail.com	B.TECH CSE(AI/ML)	MANIPAL UNIVERSITY JAIPUR
224	Dhruv Jhadia	dhruvjhadiayyp@gmail.com	CSE WITH SPECIALISATION IN IOT AND IS	MANIPAL UNIVERSITY JAIPUR
225	Priyanshu Gupta	Priyanshu956999@gmail.co m	BTECH ECE	MANIPAL UNIVERSITY JAIPUR
226	Aryan Piyush	aryanpiyush1@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR



227	Abhinandan Kumar Tiwary	abhinandantiwary2001@gm ail.com	ECE	MANIPAL UNIVERSITY JAIPUR
228	Abhinav Kumar	abhishubh30@gmail.com	ELECTRONICS AND COMMUNICATION ENGINEERING	MANIPAL UNIVERSITY JAIPUR
229	Abhijeet Sachan	Abhijeetsachan.088@gmail. com	BTECH /ECE	MANIPAL UNIVERSITY JAIPUR
230	Himalaya Sharma	himalaya1812@gmail.com	BTECH CCE	MANIPAL UNIVERSITY JAIPUR
231	Alokik Agarwal	alokikagarwal2004@gmail.c om	B.TECH CCE	MANIPAL UNIVERSITY JAIPUR
232	Avneesh Sharma	tourist836@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
233	Daksh Lal	dakshrklal@gmail.com	CSE	MANIPAL UNIVERSITY JAIPUR
234	Arshia	arshia.moudgil@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
235	Pratyush Dube	pratyushdube23@gmail.com	BTECH/CSE CORE	MANIPAL UNIVERSITY JAIPUR
236	Gouri	Gouri.sha36@gmail.com	BTECH CCE	MANIPAL UNIVERSITY JAIPUR
237	Ashish Patil	ashishspatil04@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
238	Samyak Jain	samyak8189@gmail.com	ECE	SKIT COLLEGE
239	Abhishek Deep	abhishekdeep47@gmai.com	ECE	MANIPAL UNIVERSITY JAIPUR
240	Ajsusabi	singhajsusabi@gmail.com	ELECTRONICS AND COMMUNICATION	MANIPAL UNIVERSITY JAIPUR
241	Ananta	anantataneja@gmail.com	CSE AI ML	MANIPAL UNIVERSITY JAIPUR
242	Raghav Kalra	kalra.raghav08@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
243	Rishabh Nenawati	jain072004@gmail.com	ІТ	MANIPAL UNIVERSITY JAIPUR



244	Utkarsh Raj	utkarsh472001.ut@gmail.co m	SEEC/ECE	MANIPAL UNIVERSITY JAIPUR
245	Vansh Bhansali	bhansalivansh29@gmail.co m	ECE	MANIPAL UNIVERSITY JAIPUR
246	Tejas Malhotra	tejas.malhotra.14@gmail.co m	BTECH ECE	MANIPAL UNIVERSITY JAIPUR
247	Om Jaiswal	omkishan.jaiswal@gmail.co m	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, JAIPUR RAJASTHAN
248	Chandan Kumar	kumarchandan22042002@g mail.com	ELECTRONICS AND COMMUNICATION	SKIT
249	Dhruv Mendiratta	dhruv.mendiratta4@gmail.c om	BTECH/CSE	MANIPAL UNIVERSITY JAIPUR
250	Jagrati Garg	jagratigarg03@gmail.com	ARTIFICIAL INTELLIGENCE	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
251	Monu Kumawat	monukumawatmk9783@gma il.com	CS(AI)	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
252	Piyush Agrawal	agarwalpiyush166@gmail.co m	ARTIFICIAL INTELLIGENCE	ANAND INTERNATIONAL COLLEGE OF ENGINEERING, JAIPUR
253	Krishn Jatav	Krrishjatav5@gmail.com	COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
254	Vedant Saxena	ajjusaxena86@gmail.com	COMPUTER SCIENCE	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
255	Yuvraj Badgoti	yuvrajbadgoti@gmail.com		ANAND INTERNATIONAL COLLEGE OF ENGINEERING
256	Lukman Qureshi	qlukman17@gmail.com	CSE (AI)	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
257	Sayan Nandi	nandisayan4567@gmail.com	ELECTRICAL ENGINEERING	UNIVERSITY OF ENGINEERING AND MANAGEMENT
258	Md Dilawar Hussain	mddilawarhussaint5050@g mail.com	ELECTRICAL (EE)	UNIVERSITY OF ENGINEERING AND MANAGEMENT JAIPUR
259	Lucky Kumawat	luckymarwal2003@gmail.co m	B.TECH ELECTRICAL ENGINEERING	UNIVERSITY OF ENGINEERING MANAGEMENT JAIPUR

				!
260	Jai Yadav	jaiyadav6367@gmail.com	B TECH/ ELECTRICAL	UNIVERSITY OF ENGINEERING AND MANAGEMENT
261	Purbi Agarwal	agarwal.purbi@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
262	Rasika Sinha	rasikasinha25@gmail.com	B.TECH/ECE	MANIPAL UNIVERSITY JAIPUR
263	Sudhanshu Dixit	yash0404dixit@gmail.com	B.TECH/ELECTRONI CS AND COMMUNICATION	MANIPAL UNIVERSITY JAIPUR
264	Gautam Singh	gautams106@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
265	Mohit Nirav Jeganathan	mohitnirav2004@gmail.com	CSE CORE	MANIPAL UNIVERSITY JAIPUR
266	Hitarth Gautam	hitarthgautamaim@gmail.co m	CCE	MANIPAL UNIVERSITY JAIPUR
267	Harsh Ratna	harshratna1604@outlook.co m	ECE	MANIPAL UNIVERSITY JAIPUR
268	Neha Garg	nehagarg2629@gmail.com	B.TECH (ECE)	MANIPAL UNIVERSITY JAIPUR
269	Pranali Saxena	pranali.saxena02@gmail.co m		MANIPAL UNIVERSITY JAIPUR
270	Shivang Seth	shivang.seth2002@gmail.co m	ECE	MANIPAL UNIVERSITY JAIPUR
271	Priyanshu Mudgal	priyanshumudgal1669@gma il.com	BTECH CSE(IOT)	MANIPAL UNIVERSITY JAIPUR
272	Praneeth	praneethmaleedu970@gmail .com	ECE	MANIPAL UNIVERSITY
273	Nidhi Verma	nidhi.verma3006@gmail.co m	COMPUTER COMMUNICATIONS ENGINEERING	MANIPAL UNIVERSITY JAIPUR
274	Tanisha Joshi	tanishaj1605@gmail.com	BTECH- CSE CORE	MANIPAL UNIVERSITY JAIPUR
275	Shah Jay	shahdjay07@gmail.com	B.TECH/ ECE	MANIPAL UNIVERSITY JAIPUR

ridhi.0504@gmail.com

ECE

276 Ridhi

MANIPAL UNIVERSITY



				- N. F.
277	Nausheen	nausheen1614@gmail.com	COMPUTER AND COMMUNICATION ENGINEERING	MANIPAL UNIVERSITY
278	Abhilash Ramesh Seth	abhilashseth111@yahoo.in	B.TECH CSE	MANIPAL UNIVERSITY, JAIPUR
279	Anuj Upadhyay	uanuj57@gmail.com	EEE	MANIPAL UNIVERSITY
280	Krishnamoorthy K	krishnamoorthy.209202237 @muj.manipal.edu	B.TECH / ECE	MANIPAL UNIVERSITY JAIPUR
281	Adnan Khatib	adnan16khatib@gmail.com	BTECH COMPUTER SCIENCE ENGINEERING	MANIPAL UNIVERSITY JAIPUR
282	Nripendra Anand	nripendraanand90@gmail.co m	COMPUTER AND COMMUNICATION ENGINEERING	MANIPAL UNIVERSITY JAIPUR
283	Ron Alexis	ron.a.3674.011235813@gmai l.com	CS. AI & ML	MANIPAL UNIVERSITY JAIPUR
284	Nekunj Khanna	nekunj6407@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
285	Deepanshu Sinha	deepanshusinha2004@gmail .com	ENGINEERING/IT	MANIPAL UNIVERSITY JAIPUR
286	Sugam Nema	Sugamnema007@gmail.com	C.S.E(CORE)	MANIPAL UNIVERSITY JAIPUR
287	Naman Bhasin	namanbhasin2014@gmail.co m	ELECTRICAL AND COMPUTER ENGINEERING	MANIPAL UNIVERSITY JAIPUR
288	Sadrealam Ahmed	fashel3939@gmail.com	CSE	MANIPAL UNIVERSITY JAIPUR
289	Shubham	shubhamdabrework@gmail. com	ECE	MANIPAL UNIVERSITY JAIPUR
290	Tanusha Lamba	1tanusha.lamba@gmail.com	BTECH,COMPUTER AND COMMUNICATION ENGINEERING	MANIPAL UNIVERSITY JAIPUR
291	Raju Yadav	raju.219202055@muj.manipa I.edu	ECE	MANIPAL UNIVERSITY JAIPUR
292	Anant Sharma	anant.219202003@muj.mani pal.edu	B.TECH ECE	MANIPAL UNIVERSITY JAIPUR
293	Gargi Arora	gargigargi1816@gmail.com	BTECH CSE IN IOT	MANIPAL UNIVERSITY JAIPUR



294	Gargi Arora	gargigargi1816@gmail.com	BTECH CSE IN IOT	MANIPAL UNIVERSITY JAIPUR
295	Isha	yadav16isha@gmail.com	ENGINEERING/CSE IOT	MANIPAL UNIVERSITY JAIPUR
296	Udbhav	udbhav.pachisia@gmail.co m	ELECTRONICS AND COMMUNICATION ENGINEERING	MANIPAL UNIVERSITY JAIPUR
297	Gudiguntla Hemesh	gudiguntlahemesh@gmail.c om	ECE	MUJ
298	Erwin Pimenta	erwinpimenta1644@gmail.cl m	DEPARTMENT OF IT	MANIPAL UNIVERSITY JAIPUR
299	Ridhi Jain	ridhi.0504@gmail.com	ECE	MANIPAL UNIVERSITY
300	Himanshu Jadhav	Himanshujadhav16@gmail.c om	ECE	MANIPAL UNIVERSITY JAIPUR
301	Jinendra Bothra	jabrba10@gmail.com	COMPUTER SCIENCE & ENGINEERING (IOT & IS)	MANIPAL UNIVERSITY JAIPUR
302	Sanya Shree	sanyashreeofficial@gmail.c om	BTECH CSE IOT	MANIPAL UNIVERSITY JAIPUR
303	Ayush Balyan	ayush.balyan13@gmail.com	B.TECH CSE	MANIPAL UNIVERSITY JAIPUR
304	Shobhit Mittra	shobhitmittra2@gmail.com	ELECTRONICS AND COMMUNICATION	MANIPAL UNIVERSITY JAIPUR
305	Sanya Gulati	sanyagulati018@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
306	Siddharth Chandra	siddharth.sc007@gmail.com	CCE	MANIPAL UNIVERSITY JAIPUR
307	Mohit Kumar	kumarmohiiit123@gmail.co m	B.TECH/ C.S WITH IOT	MANIPAL UNIVERSITY JAIPUR
308	Raghav Agarwal	RAGHAV08AGARWAL@GM AIL.COM	CSE	MANIPAL UNIVERSITY JAIPUR
309	Dhruv Sharma	shruv0011sharma@gmail.co m	B-TECH , COMPUTER SCIENCE ENGINEERING	MANIPAL UNIVERSITY JAIPUR



310	Ayush Singh	ayush4052@gmail.com	SCHOOL OF ENGINEERING/IT	MANIPAL UNIVERSITY JAIPUR
311	Smriti Yadav	smreetyyadav@gmail.com	В.ТЕСН ІТ	MANIPAL UNIVERSITY JAIPUR
312	Noshita Nandkar	noshita.229109001@muj.ma nipal.edu	BTECH - CHEMICAL	MANIPAL UNIVERSITY JAIPUR
313	Kartik Mathur	mathurkartik03@gmail.com	SCHOOL OF ENGINEERING/CSE(CORE)	MANIPAL UNIVERSITY JAIPUR
314	Mannat Vij	mannatvij18@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
315	Kushagra Saxena	ksaxena149@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
316	Ayush Agrawal	agrawalayush9630@gmail.c om	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
317	Rishabh Jain	rishabh_jain2005@yahoo.co m	B TECH COMPUTER SCIENCE	MANIPAL JAIPUR
318	Aman Sharma	sharmaaman0202@gmail.co m	BTECH DATA SCIENCE	MANIPAL UNIVERISTY JAIPUR
319	Vivek Sharma	viveksharma.rj29@gmail.co m	B.TECH/ELECTRICA L AND COMPUTER ENGINEERING	MANIPAL UNIVERSITY JAIPUR
320	Sabuj		EEE	MANIPAL UNIVERSITY JAIPUR
321	Aksh			MANIPAL UNIVERSITY JAIPUR
322	Aman Tripathi	coyep80821@pubpng.com	В ТЕСН	MANIPAL UNIVERSITY JAIPUR
323	Jasanjot Singh	jsinghbasson@gmail.com	ECE (ECE)	MANIPAL UNIVERSITY JAIPUR (MUJ)
324	Brijeet Kumar Medhi	brijeetk.medhi@gmail.com	B TECH/ECE	MUJ
325	Mohit	mk2596668@gmail.com	ECE	MUJ
326	Naad Dantale	naadkd@gmail.com	B.TECH CSE	MANIPAL UNIVERSITY JAIPUR



327	Bhavya Gupta	bhavyaguptaddn7@gmail.co m	BTECH CCE	MANIPAL UNIVERSITY JAIPUR
328	Sneha Bhatia	snehabhatia2004@gmail.co m	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
329	Jitenderkrishan2000@ Gmail.Com	ranusha456@	ELECTRICAL ENGINEERING	UNIVERSITY OF ENGINEERING AND MANAGEMENT, JAIPUR
330	Harshal Nigam	harshal.nigam@skit.ac.in	ECE	SKIT, JAIPUR
331	Anushka Gupta	awesome.me.anushka@gma il.com	внм	MANIPAL UNIVERSITY JAIPUR
332	Aryan Kumar	kalkiaryan@gmail.com	LAW	MANIPAL UNIVERSITY JAIPUR
333	Muskan Gupta	muskanria0511@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
334	Sharanya Sharma	iamsharanyasharma@gmail. com	COMPUTER SCIENCE AND ENGINEERING	MANIPAL UNIVERSITY JAIPUR
335	Shaurya Singh	Shauryasingh544@gmail.co m	ВТЕСН	MUJ
336	Ashutosh Chaudhary	ashutoshchaudhary404@gm ail.com	CSE	MANIPAL UNIVERSITY JAIPUR
337	Arohi Singh	abhi15102001@gmail.com	втесн іт	MANIPAL UNIVERSITY JAIPUR
338	Yashovardhan Gupta	gyashovardhan@gmail.com	B.TECH. CSE AIML	MANIPAL UNIVERSITY JAIPUR
339	Archisha Srivastava	archishaava@gmail.com	B.TECH CSE(AIML)	MANIPAL UNIVERSITY JAIPUR
340	Vaibhav Sharma	vs9736400462@gmail.com	B.TEC/ CSE CORE	MANIPAL UNIVERSITY JAIPUR
341	Anany Shailan	ananyshailan888@gmail.co m	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
342	Ayush Srivastava	ayushsrivastava246@gmail. com	COMPUTER AND COMMUNICATION ENGINEERING	MANIPAL UNIVERSITY JAIPUR
343	Ananya Singh	bdnananya@gmail.com	CIVIL	MANIPAL UNIVERSITY JAIPUR



344	Ahmad Ullah	ahmadullah338@gmail.com	BTECH CSE AI ML	MANIPAL UNIVERSITY JAIPUR
345	Meghneel Gogoi	meghneelgogoi304@gmail.c om	BTECH CCE	MANIPAL UNIVERSITY JAIPUR
346	Raghav Bindal	raghavbindal1010@gmail.co m	DR DINESH YADAV	MANIPAL UNIVERSITY JAIPUR
347	Nived V M	nivedchemmatte@gmail.co m	ІТ	MUJ
348	Damandeep Kaur	damandeepkaur494@gmail. com	BTECH-IT	MANIPAL UNIVERSITY JAIPUR
349	Tejam Jaiswal	jaiswaltejam15@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
350	Divyansh Sarswat	praetortheking@gmail.com	B TECH CSE	MANIPAL UNIVERSITY JAIPUR
351	Erwin Pimenta	erwinpimenta1644@gmail.co m	IT	MANIPAL UNIVERSITY JAIPUR
352	Harshit Charan Agrawal	harshit.charan25@gmail.co m	CSE WITH AIML	MANIPAL UNIVERSITY, JAIPUR
353	Abhishek Kumar	abhishekkumar09022003@g mail.com	CSE WITH AIML	MANIPAL UNIVERSITY JAIPUR
354	Amartya	sharma.amartya121@gmail. com	IOT	MANIPAL JAIPUR
355	Vatsal	mishra.vatsal1604@gmail.co m	CSE IOT	MANIPAL UNIVERSITY JAIPUR
356	Lakshay Dhawan	lakshay.dhawan2004@gmail .com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
357	Ravi Ranjan	ravi.ranjan79703@gmail.co m	CSE	MANIPAL UNIVERSITY JAIPUR
358	Daksh Nirwal		CSE	MANIPAL UNIVERSITY JAIPUR
359	Atharva Rajoba	atharva2004.rajoba@gmail.c om	CSE WITH IOT	MANIPAL UNIVERSITY JAIPUR
360	Arnav Agrawal	arnav.agrawal0051@gmail.c om	CSE	MANIPAL UNIVERSITY JAIPUR



361	Chaitanya Milampure	chaitanyamilampure@gmail. com	ECE	MANIPAL UNIVERSITY JAIPUR
362	Vihaan Gadodia	vihaansoul19@gmail.com	CSE AI/ML	MANIPAL UNIVERSITY JAIPUR
363	Pranav Garg	Pranavgarg911@gmail.com	CCE	MANIPAL UNIVERSITY JAIPUR
364	Mohit Kumar Jangid	mohitkumarjangid2002@gm ail.com	COMPUTER SCIENCE AND ENGINEERING	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
365	Dhiraj Kumar	Kumardhiraj098765@gmail.c om	ECE	SKIT JAIPUR
366	Himanshu Kumar	himanshu.sonu108@gmail.c om	ECE	MANIPAL UNIVERSITY JAIPUR
367	Devang Dadhich	devangdadhich0017@gmail. com	CSE	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
368	Prince Pachauri	princepachauri57@gmail.co m	BTECH - ECE	MANIPAL UNIVERSITY JAIPUR
369	Gaurav Kumar Soni	gksoni2709@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
370	Vipasha Goyal	Goyalvipasha07@gmail.com	ECE	SKIT
371	Priya Gupta	priygupta1516@gmail.com	ECE	SKIT JAIPUR
372	Muskan Meena	muskanmeena0827@gmail.c om	ECE	SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN
373	Samridhi	Samriddhi1002@gmail.com	ECE	SKIT
374	Vyshnavi Pothireddy	vyshnavipothireddy877@gm ail.com	ECE	PRAKASAM ENGINEERING COLLEGE
375	Birudula Raviteja	birudularaviteja222@gmail.c om	ECE	PRAKASAM ENGINEERING COLLEGE
376	Pawani Bhardwaj	pawanib0405@gmail.com	EC	RTU, KOTA/SKIT, JAIPUR



377	Megha Jangid	Jangidmegha2002@gmail.co m	ECE	SKIT
378	Birudula Raviteja	birudularaviteja222@gmail.c om	ECE	PRAKASAM ENGINEERING COLLEGE
379	Prashansha Khandelwal	kpsakshi516@gmail.com	EC	RTU, KOTA/SKIT, JAIPUR
380	Tanish Khandal	tanishkhandal15@gmail.co m	ELECTRONICS AND COMMUNICATION BRANCH	SWAMI KESHVANAD INSTITUTE OF TECHNOLOGY
381	Gunjan	gunnjannbhardwaj1874@gm ail.com	MCA	MANIPAL UNIVERSITY JAIPUR
382	Seema Kasana	seemakasana987@gmail.co m	B.TECH CSE	VIVEKANANDA GLOBAL UNIVERSITY
383	Shreyansh Vashishtha	shreyanshvashishtha1999@ gmail.com	ELECTRICAL AND ELECTRONICS	MANIPAL UNIVERSITY JAIPUR
384	Mukul Shandilya	mk1shandilya@gmail.com	ELECTRONICS & COMMUNICATION	MANIPAL UNIVERSITY JAIPUR
385	Md Dilawar Hussain	mddilawarhussaint5050@g mail.com	ELECTRICAL (EE)	UNIVERSITY OF ENGINEERING AND MANAGEMENT JAIPUR
386	Dr. Ankush Kapoor	ankush8818@yahoo.com	ECE	JAWAHARLAL NEHRU GOVERNMENT ENGINEERING COLLEGE SUNDERNAGAR DISTRICT MANDI HIMACHAL PRADESH
387	Om Verma	o2004mv@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
388	Andra Naresh	Nareshandra402@gmail.com	ECE	PRAKASAM ENGINEERING COLLEGE
389	Smarth Behl	smarthbehl04@gmail.com	ELECTRONICS AND COMMUNICATION	JAWAHARLAL NEHRU GOVERNMENT ENGINEERING COLLEGE
390	Pooja Devi	Pt07234@gmail.Com	ECE	JAWAHARLAL NEHRU GOVT. ENGINEERING COLLEGE SUNDER NAGAR ,DISTT- MANDI(HP)
391	Atul Dhiman	atuldhimanece@gmail.com	ECE	JNGEC SUNDERNAGAR
392	Murakonda Sainath	sainathnitt@gmail.com	ECE	NITT



393	Darshan Kapoor	darshankapoor0626@gmail. com	MECHATRONICS	MANIPAL UNIVERSITY JAIPUR
394	Nikhil Mishra	mnikhil060@gmail.com	ECE	MUJ JAIPUR
395	Joohi Garg	Joohigrg@gmail.com	ECE	MNIT, JAIPUR
396	Navdeep Choudhary	navdeepbijarniyaagmail.com	ECE	RAJASTHAN TECHNICAL UNIVERSITY
397	Akash Rawat	akrt1192@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
398	Teena Jain	teenaruchikajain@gmail.co m	BTECH CSE IOT	MANIPAL UNIVERSITY JAIPUR
399	Shreya Gupta	shreyagupta45321@gmail.c om	BTECH IT	MANIPAL UNIVERSITY JAIPUR
400	Ritik Laxwani	ritiklaxwani14@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
401	Arohan Paul	arohanpaul04@gmail.com	BTECH MECHANICAL	MANIPAL UNIVERSITY JAIPUR
402	Divyansh Pandey	raghuveerdivyansh9988@g mail.com	AI ML BTECH CSE	MUJ
403	Parth Chaturvedi	cparth522@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
404	Yash Kamra	yashkamra11102004@gmail. com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
405	Amandeep Singh Nathawat	amandeepsingh9414@gmail. com	BTECH/CIVIL	MANIPAL UNIVERSITY JAIPUR
406	Jeet Jawale	jeet.jawale392@gmail.com	ECE	MANIPAL UNIVERSITY JAIPUR
407	Raheel Kazi	raheelk1310@gmail.com	BTECH MECHANICAL	MANIPAL UNIVERSITY JAIPUR
408	Khushant Yadav	khushantyadav98@gmail.co m	ІТ	MANIPAL UNIVERSITY JAIPUR
409	Udayan Nath Tripathi	udayannathtripathi1611@gm ail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR

				311
410	Devansh Bhatnagar	akdnaknfl@gmail.com	COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE	JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE
411	Amisha Jha	amishajha132001@gmail.co m	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN JAIPUR
412	Kanisha Bansal	kanishabansal1902@gmail.c om	BTECH CSE	MANIPAL UNIVERSITY, JAIPUR
413	Mohit Ramnani	ramnanimohit4321@gmail.c om	ECE	SKIT, JAIPUR
414	Parth Sharma	technoshr007@gmail.com	BTECH DATA SCIENCE	MANIPAL UNIVERSITY JAIPUR
415	Shivansh Pradhan	shivansh4858@gmail.com	B. TECH. CSE CORE	MANIPAL UNIVERSITY JAIPUR
416	Shreshth Purohit	shreshthpurohit@gmail.com	CSE CORE	MANIPAL UNIVERSITY
417	Akanksha Sinha	akankshasinha1144@gmail. com	IT	MANIPAL UNIVERSITY
418	Sayak Das	sayak.229302080	B.TECH IT	MANIPAL UNIVERSITY JAIPUR
419	Utkarsh Rana	utkarshranaa06@gmail.com	FOE/CSE	MANIPAL UNIVERSITY JAIPUR
420	Divya Srivastva	dsrivastva03@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
421	Pratyaksh Singhal	pratyakshh.singhal.37@gma il.com	FOE/IT	MUJ
422	Saraswat Basu	saraswat.229310331@manip al.muj.edu	BTECH CSE AIML	MANIPAL UNIVERSITY JAIPUR
423	Shreja Shekhar	shreja.27sr@gmail.com	FOE/IT	MUJ
424	Lovish Aneja	Lovishaneja29@gmail.com	CSE	MANIPAL UNIVERSITY JAIPUR
425	Sanyam Jain	jainritesh0605@gmail.com	CSE	MUJ

100
1

				715
426	Sajal Saxena	sajalsaxena02@gmail.com	BTECH/COMPUTER AND COMMUNICATION ENGINEERING SCHOOL OF	MANIPAL UNIVERSITY JAIPUR
427	Jaanavi	jaanavi1102@gmail.com	HUMANITIES AND SOCIAL SCIENCES; DEPARTMENT OF PSYCHOLOGY	MANIPAL UNIVERSITY, JAIPUR
428	Adith Antony John	adithantonyjohn@gmail.com	CSE IOT	MANIPAL UNIVERSITY JAIPUR
429	Yash Sharma	yashisharmayes@gmail.com	BTECH DATA SCIENCE	MUJ
430	Rohit Koshy	rohitkoshy2004@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
431	Meghana V Hegde	meghanavhegde24@gmail.c om	PSYCHOLOGY	MUJ
432	Anirudh Bhardwaj	Anirudh.muj@gmail.com	BTECH - DSE	MANIPAL UNIVERSITY JAIPUR
433	Nandigala Jacinth Ruel Knox	Jacinthrk@gmail.com	BTECH - DSE	MANIPAL UNIVERSITY JAIPUR
434	Karthika K.S	sgc.karthika.27oct.12sci@g mail	ECE	MUJ
435	Raeez K P	raeez1208@gmail.com	B.TECH DATA SCIENCE	MANIPAL UNIVERSITY
436	Gunn Verma	gunn.verma26@gmail.com	DEPARTMENT OF MECHATRONICS	MUJ
437	Bharvi Patel	bharvipatel1534@gmail.com	ELECTRONICS & COMMUNICATION ENGINEERING	MANIPAL UNIVERSITY JAIPUR
438	Kushar	Kusharbajaj0019@gmail.co m	CSE(AI&ML)	MUJ
439	Pratishtha Bhattacharyya	pratishtha.bhattacharyya201 7@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
440	Jahan Kakkar	kakkarjahan@gmail.com	CSE CORE	MUJ
441	Ashmit Aggarwal	ashmit12515@gmail.com	CSE (AI & ML)	MUJ



442	Bittu Kumar	bittu.209303223@muj.manip al.edu	CCE	MANIPAL UNIVERSITY JAIPUR
443	Pranav Banker	pranavmbanker@gmail.com	BTECH DATA SCIENCE	MANIPAL UNIVERSITY JAIPUR
444	Yashi Shree	yashishree24@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
445	Aditi Sharma	aditisharma9217@gmail.co m	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
446	Harsh Yadav	harshyadav2610@gmail.com	B.TECH/IT	MANIPAL UNIVERSITY JAIPUR
447	Anish Ubriani	anishubriani1234@gmail.co m	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
448	Ashmit Sharma	sharmaashmit2327@gmail.c om	CSE IOT	MUJ
449	Aditi Sharma	aditisharma9217@gmail.co m	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
450	Prerna Singh	prernasingh0508@gmail.co m	B.TECH CSE	MANIPAL UNIVERSITY, JAIPUR
451	Arunima	Arunimamishra0306@gmail.	BTECH CSE AI & ML	MANIPAL JAIPUR
452	Shristi Gupta	shriigupta334@gmail.com	ВВА	MANIPAL UNIVERSITY JAIPUR
453	Abhi Sinha	sinhaabhi036@gmail.com	BTECH CCE	MUJ
454	Sejal Agarwalla	agarwalsejal293@gmail.com	BCOM PASS	MANIPAL UNIVERSITY JAIPUR
455	Aryan Garv	amitnhpc76@gmail.com	B.TECH DATA SCIENCE	MANIPAL UNIVERSITY JAIPUR
456	Saniya Giripunje	saniyagiripunje16@gmail.co m	CSE AIML	MUJ
457	Tarun Gupta	tarungupta0714@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
458	Aryan	aryangandhi69@gmail.com	BPES	MANIPAL UNIVERSITY JAIPUR



459	Aryan Jain	aryan1452003@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
460	Aayushi Gupta	aayushigupta2107@gmail.co m	CSE CORE	MANIPAL UNIVERSITY JAIPUR
461	Avni Ahuja	ahujaavni10@gmail.com	CS(AI AND ML)	MANIPAL UNIVERSITY JAIPUR
462	Paksh Raheja	pakshraheja@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
463	Ananya Tiwari	ananya.tiwari.13.2003@gmai I.com	BTECH IT	MUJ
464	Pujan Modha	pujanmodha1905@proton.m e	BTECH - CSE	MANIPAL UNIVERSITY JAIPUR
465	Siddhartha Sood	siddharthasood.im380@yah oo.com	ВВА	MANIPAL
466	Abhishek Kashyap	abhishek.219311032@muj.m anipal.edu	CSE IOT	MANIPAL UNIVERSITY JAIPUR
467	Yuvraj Vasudev	yuvivasu2345@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
468	Shaik Rahila	rahilashaik9999@gmail.com	ECE	PRAKASAM ENGINEERING COLLEGE JNTUK
469	Mahi Tomar	mahit1089@gmail.com	BTECH CSE	MUJ
470	Sidak Taneja	tanejasidak@gmail.com	BTECH CSE	MUJ
471	Saket Patil	Saket.patil5@gmail.com	CSE IOT	MUJ
472	Devashish Singh	devashishsingh58@gmail.co m	B.TECH CSE IOT	MANIPAL UNIVERSITY JAIPUR
473	Sejal Chouhan	secho2905@gmail.com	BTECH /CCE	MANIPAL UNIVERSITY JAIPUR
474	Maulik Mehrotra	maxmehrotra@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
475	Kanishka Chaudhary	kanishka.chaudhary.kota@g mail.com	BTECH ECE	MANIPAL UNIVERSITY JAIPUR



476	Akshat Sinha	sinhaakshat2012@gmail.co m	BTECH - IT	MANIPAL UNIVERSITY JAIPUR
477	Anjali Tyagi	anjutyagi1506@gmail.com	B. TECH CCE	MANIPAL UNIVERSITY JAIPUR
478	Ailin Chen	ailinclaricechen@gmail.com	B. TECH. IT	MANIPAL UNIVERSITY JAIPUR
479	Debasish Borah	rexdebasishborah@gmail.co m	ЮТ	MANIPAL UNIVERSITY JAIPUR
480	Pranav Bhardwaj	official.pranav02@gmail.co m	BTECH IT	MANIPAL UNIVERSITY JAIPUR
481	Aryan Jain	ahjain16@gmail.com	CCE	MANIPAL UNIVERSITY JAIPUR
482	Anvit Dadape	anvit.dd@gmail.com	B.TECH CSE IOT	MANIPAL UNIVERSITY JAIPUR
483	Vidit	vidit.219310258@muj.manip al.edu	CSE AI	MUJ
484	Lakshya Mehta	lm.11072004@gmail.com	BTECH DSE	MANIPAL UNIVERSITY JAIPUR
485	Rohan Raj	rohanraj.viie@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
486	Sharath Sudhakar Pv	sharathpv.sudhakaran07@g mail.com	BTECH DSE	MANIPAL UNIVERSITY JAIPUR
487	Varun Lall Srivastava	varunlall0021@gmail.com	ІТ	MANIPAL UNIVERSITY JAIPUR
488	Siddharth Pal	siddharthpal@live.com	IT	MANIPAL UNIVERSITY JAIPUR
489	Deblina Talukder	deblinanext@gmail.com	BTECH IT	MUJ
490	Aryan Mishal	aryan.mishal.jh@gmail.com	B.TECH IT	MANIPAL UNIVERSITY JAIPUR
491	Sairaj Sirsat	sairajsirsat104@gmail.com	B.TECH CSE AI & ML	MANIPAL UNIVERSITY JAIPUR
492	Adhiraj Dhuria	ad.dhuria123@gmail.com	ВВА	MANIPAL UNIVERSITY



493	Shaurya Mehra	Shauryamehra.mehra@gmai I.com	ВВА	MANIPAL
494	Om Panda	ompanda007@gmail.com	BTRCH CCE	MANIPAL UNIVERSITY JAIPUR
495	Sidhali	sidhalisingh2310@gmail.co m	IT	MUJ
496	Shreya Singh	shreyasingh1138@gmail.co m	BTECH CS AI ML	MUJ
497	Yash Dhruv	Yashpdhruv@gmail.com	B.TECH/IT	MANIPAL UNIVERSITY JAIPUR
498	Mayank Maheshwari	mayank17022004@gmail.co m	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
499	Neha Singh	noctis24x@gmail.com	BTECH CSE AI AND ML	MANIPAL UNIVERSITY JAIPUR
500	Garvit Agarwal	garvit2004agarwal@gmail.co m	BCA	MANIPAL UNIVERSITY JAIPUR
501	Vishal Raj	Raj54321vishal@gmail.cam	в.тесн, ссе	MANIPAL UNIVERSITY JAIPUR
502	Shaurya Kumar Singh	shaurya.mzp@gmail.com	IT	MANIPAL UNIVERSITY, JAIPUR
503	Tanisha Mishra	tanishamishra56@gmail.co m	BTECH CCE	MANIPAL UNIVERSITY JAIPUR
504	Smriti	smriti.10297@gmail.com	B.TECH. IN CSE (CORE)	MANIPAL UNIVERSITY JAIPUR
505	Anmol Verma	vermaanmol010@gmail.com	BTECH. CSE AI ML	MANIPAL UNIVERSITY JAIPUR
506	Aanya Gupta	aanyag0810@gmail.com	CSE(IOT)	MANIPAL UNIVERSITY JAIPUR
507	Palak Srivastava	spalak2609@gmail.com	B.TECH IT	MANIPAL UNIVERSITY JAIPUR
508	Srivatsa Palepu	srivatsa1522@gmail.com	CSE CORE	MANIPAL UNIVERSITY JAIPUR
509	Srikruthi Neriyanuri	n_srikruthi@rediffmail.com	BTECH CSE IN IOT	MANIPAL UNIVERSITY JAIPUR



510	Karan Parashar	whyredfire@gmail.com	CSE	MANIPAL UNIVERSITY JAIPUR
511	Aaryan Jadhav	aaryanjadhav17@gmail.com	CCE	MANIPAL UNIVERSITY JAIPUR
512	Abhinav Maheshwari	abhinav.maheshwari1204@g mail.com	CSE CORE	MANIPAL UNIVERSITY JAIPUR
513	Chirag Gurnani	chandan13092003@gmail.co m	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN
514	Manoviraj Gill	manovirajgill@gmail.com	CSE	MANIPAL UNIVERSITY JAIPUR
515	Ashish	ashish.209301598@muj.man ipal.edu	CSE	MUJ
516	Radhika Soni	radhikasoni.jpr@gmail.com	CSE	SKIT
517	Harshneet Khanna	Harshjoykhanna@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
518	Tanishq Khurana	tanishqkhurana17804@gmai I.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
519	Vineet Muley	muleyvineet06@gmail.com	B.TECH CSE(AI AND ML)	MANIPAL UNIVERSITY JAIPUR
520	Manishka Vyas	manishka.229205007@muj. manipal.edu	EEE	MUJ
521	Pranjal Tiwari	pranjaltiwari504@gmail.com	BTECH CAE(CORE)	MANIPAL UNIVERSITY JAIPUR
522	Himanshu Sagar	himanshusagar478@gmail.c om	B.TECH CSE	MUJ
523	Arvind Nair	arvindnair1004@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
524	Chetanya Jolly	jollychetanya35@gmail.com	CSE AI ML	MANIPAL UNIVERSITY JAIPUR
525	Anushka Nadar	anushkanadar69@gmail.co m	MSC CLINICAL PSYCHOLOGY	MANIPAL UNIVERSITY



526	Aarush Tandon	tandonaarush2003@gmail.c om	BTECH CSE(AI&ML)	MANIPAL UNIVERSITY JAIPUR
527	Shivam Shandilya	shivamshandilya231@gmail. com	IT	MANIPAL UNIVERSITY JAIPUR
528	Saumya Malusare	saumyamalusare1230@gmai l.com	IT	MANIPAL UNIVERSITY JAIPUR
529	Kedar Joshi	joshikedar2003@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
530	Nikunj Goyal	goyalnikunj2004@gmail.com	IOT	MANIPAL UNIVERSITY JAIPUR
531	Harsh Jaiswal	harshjaiswal.bhl2000@gmail .com	IEEE	MANIPAL UNIVERSITY JAIPUR
532	Aditya Aggarwal	adityaaggarwal63524@gmail .com	CSE CORE	MANIPAL UNIVERSITY JAIPUR
533	Rohit Malviya		BTECH CCE	MANIPAL UNIVERSITY JAIPUR
534	Varshita Jain	varshita11089@loyolahallah d.com	B.TECH - IT	MANIPAL UNIVERSITY JAIPUR
535	Nikita Sharma	nikkitabhardwaj@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
536	Priyanshi Garg	priyanshigarg0906@gmail.c om	BTECH CSE IOT	MANIPAL UNIVERSITY JAIPUR
537	Priyanshu Mudgal	priyanshumudgal1669@gma il.com	ВТЕСН	MANIPAL UNIVERSITY JAIPUR
538	Sameer Pratap Singh	1094sameer@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
539	Dhruvjain	dhruvjain13022002@gmail.c om	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
540	Satvika Arora	satvikaarora1@gmail.com	AI ML	MUJ
541	Ayush Yadav	ayush7607yadav@gmail.co m	DSE	MANIPAL UNIVERSITY JAIPUR
542	Shashank Kumar	shashank200410@gmail.co m	CSE CORE	MANIPAL UNIVERSITY JAIPUR



543	Navya Gupta	guptanavya317@gmail.com	BTECH CSE (IOT)	MANIPAL UNIVERSITY JAIPUR
544	Chitrraksh Saji	chitrrakshsaji@gmail.com	MECHATRONICS	MANIPAL UNIVERSITY JAIPUR
545	Shanaya Srivastava	Shanayasrivastava24@gmail .com	BTECH DATA SCIENCE	MANIPAL UNIVERSITY JAIPUR
546	Devansh Singh	devanshkills@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
547	Chulika Parmar	chulika04@gmail.com	B.TECH CSE(IOT AND IS)	MANIPAL UNIVERSITY JAIPUR
548	Arya Dev	aryadevdhoni@gmail.com	BTECH/CSE	MANIPAL UNIVERSITY JAIPUR
549	Om Satyam Panda	omsatyampanda28@gmail.c om	CSE AI & ML.	MANIPAL UNIVERSITY JAIPUR.
550	Parv Jain	parvjain8826038451@gmail. com	B.TECH. CSE CORE	MANIPAL UNIVERSITY JAIPUR
551	Rishi Joshi	rishijoshi.outlook@gmail.co m	BTECH IT	MANIPAL UNIVERSITY JAIPUR
552	Divyansh Pareek	divyansh.209309017@muj.m anipal.edu	BTECH DATA SCIENCE	MANIPAL UNIVERSITY, JAIPUR
553	Vishwajeet Singh Rawat	vishvasingh.08@gmail.com	B.TECH	MANIPAL UNIVERSITY JAIPUR
554	Ankit Kumar	inkitkr2@gmail.com	BTECH CSE AI ML	MANIPAL UNIVERSITY JAIPUR
555	Avneet Singh	avisinghsingh471@gmail.co m	IT	MUJ
556	Dhruvi Bahety	bdhruvi14@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
557	Vishesh Anand Misra	Vishesh.misras@gmail.com	ВСА	MANIPAL UNIVERSITY JAIPUR
558	Molik Jain	molikjain2113@gmail.com	B.TECH (CSE CORE)	MANIPAL UNIVERSITY JAIPUR
559	Palak Agrawal	palak8agrawal@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR



560	Bhavya Singhvi	bhavyasinghvi2005@gmail.c om	BTECH CSE CORE	MUJ
561	Kartikey Sharma	kartikeysharma28558@gmail .com	DSE	MANIPAL UNIVERSITY JAIPUR
562	Rudra	rudrasathwaradpsv@gmail.c om	DSE	MANIPAL UNIVERSITY
563	Kartik Trakroo	Kartiktrakroo@gmail.com	CSE CORE	MANIPAL UNIVERSITY JAIPUR
564	Varun Mandloi	VARUNMANDLOI187@GMAI L.COM	ІТ	MANIPAL UNIVERSITY JAIPUR
565	Harsh Panwar	harshdpanwar@gmail.com	CSE (IOT AND IS)	MANIPAL UNIVERSITY JAIPUR
566	Bhavya Sarraf	bhavyasarraf17@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
567	Mohit Sharma	officialmohit2004@gmail.co m	ВСА	MANIPAL UNIVERSITY JAIPUR
568	Nandini Malik	Nandinimalik55@gmail.com	DATA SCIENCE BTECH	MANIPAL UNIVERSITY JAIPUR
569	Ashish Kumar Yadav	ashisharyan0010@gmail.co m	ВСА	MANIPAL UNIVERSITY JAIPUR
570	Sujal Jain	sujal.229309038@muj.manip al.edu	IT/DSE	MANIPAL UNIVERSITY JAIPUR
571	Arnav Gupta	arnav0805@gmail.com	AIML	MANIPAL UNIVERSITY JAIPUR (MUJ)
572	Suryansh Mishra	suryanshsuyu123@gmail.co m	IT	MANIPAL UNIVERSITY JAIPUR
573	Gaurav Agrawal	gauravagrawal729@gmail.co m	ВСА	MANIPAL UNIVERSITY JAIPUR
574	Devaansh Tyagi	ssupdevaansh@gmail.com	B TECH CSE CORE	MUJ
575	Atharv Nanda	atharvnanda.lm10@gmail.co m	COMPUTER SCIENCE AND ENGINEERING	MANIPAL UNIVERSITY OF JAIPUR
576	Prince Jindal	j.prince0410@gmail.com	BTECH-IT	MANIPAL UNIVERSITY JAIPUR



577	Shubham Kukreti	shubhamkukreti.0107@gmai I.com	ВТЕСН IT	MUJ
578	Ayonija	ayonijakatyayn@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
579	Vaibhav Chouhan	vaibhavchouhan.1029@outl ook.com	IT	MANIPAL UNIVERSITY JAIPUR
580	Shashwat Bhamare	shashwatbhamare4@gmail.c om	DATA SCIENCE	MANIPAL JAIPUR
581	Shivansh Mishra	Mshivansh.2293093100@mu j.manipal.edu	BTECH.DSE	MANIPAL UNIVERSITY JAIPUR
582	Naman	namansachdeva.official@g mail.com	B TECH IT	MUJ
583	Vaidic Agrawal	vaidicagrawal0908@gmail.c om	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
584	Nishtha	nishthahooda10@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
585	Kapil Raisinghani	kapil.219303130@muj.manip al.edu	B.TECH IT	MANIPAL UNIVERSITY JAIPUR
586	Bhavya Jha	nanajibhavya@gmail.com	AI/ML	MUJ
587	Sayan Nandi	nandisayan4567@gmail.com	ELECTRICAL ENGINEERING	UNIVERSITY OF ENGINEERING AND MANAGEMENT,JAIPUR
588	Abhik Banerjee	abhikbanrg.2002@gmail.co m	ECE	UEMJ
589	Mehul Kumar	Mehulkhichar@gmail.com	DEPARTMENT OF COMPUTER APPLICATION	MANIPAL UNIVERSITY JAIPUR
590	Sanidhya Shandilya	sanidhyashandilya13@gmail .com	AIML	MANIPAL UNIVERSITY JAIPUR
591	Kushal Tambi	kushaltambi2002@gmail.co m	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
592	Divyansh Sharma	yoyodivyansh15@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY



593	Parv	parvbaweja05@gmail.com	BTECH IT	MANIPAL UNIVERSITY JAIPUR
594	Vishal Bharatdwaj	Kumarvishal0280@gmail.co m	ІТ	MANIPAL UNIVERSITY JAIPUR
595	Maitreya Sawant	Sawant3y@gmail.com	EEE	MUJ
596	Priyansh Khurdia	priyanshkhurdia01@gmail.c om	EEE	MANIPAL UNIVERSITY JAIPUR
597	Gautam Kumar Kamat	gautamkamat000@gmail.co m	ECE	SKIT
598	Aniket Bhatia	aniket.bhatia24@gmail.com	BTECH DATA SCIENCE	MANIPAL UNIVERSITY JAIPUR
599	Madhav Bankeraika	bankeraikamadhav@gmail.c om	CSE CORE	MANIPAL UNIVERSITY JAIPUR
600	Dm. Ankita Priyadarshini	dmankitasamal@gmail.com	ELECTRICAL	UNIVERSITY OF ENGINEERING AND MANAGEMENT, JAIPUR
601	Krishna Jindal	jindalkrishna8@gmail.com	BTECH CSE	MANIPAL UNIVERSITY JAIPUR
602	Pukhraj Singh	pukhraj.singh2002@gmail.c om	BTECH ECE	MANIPAL UNIVERSITY JAIPUR
603	Adarsh Singh	adarshsinghrajput0708@gm ail.com	ECE	UNIVERSITY OF ENGINEERING AND MANAGEMENT, JAIPUR
604	Vaibhav Srivastava	vs811755@gmail.com	IT	MANIPAL UNIVERSITY JAIPUR
605	Hanis Gori	gorihanish@gmail.com	BTECH CSE AIML	MANIPAL UNIVERSITY JAIPUR
606	Shivam Dasauni	shivamdasauni.013@gmail.c om	BTECH/ECE	MANIPAL UNIVERSITY JAIPUR
607	Abhik Maji	abhikmaji707@gmail.com	ECE	UEM JAIPUR
608	Abhik Maji	abhikmaji707@gmail.com	ECE	UEM JAIPUR
609	Akhangsha Majumder	akhangsha2003@gmail.com	BTECH DATA SCIENCE	MANIPAL UNIVERSITY JAIPUR



610	Siddhant Sasode	siddhantsinghsasode@gmai I.com	C.S.E.	MANIPAL UNIVERSITY JAIPUR
611	Dev Pratap Singh	dsingh240204@gmail.com	BTECH CCE	MANIPAL UNIVERSITY JAIPUR
612	Arham D Jain	arhamkhater@gmail.com	CSE AI ML	MANIPAL UNIVERSITY JAIPUR
613	Anhad Sharma	anhadsharma04@gmail.com	B.TECH CSE	MANIPAL UNIVERSITY JAIPUR
614	Aadrian Routh	aadrian.routh@gmail.com	BTECH CSE CORE	MANIPAL UNIVERSITY JAIPUR
615	Ritu Yadav	Yritu609@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
616	Lavanya Bisht	lavanyabisht1105@gmail.co m	BTECH ECE	MUJ
617	Ujjawal Sharma	ujjawalsharmao77@gmail.co m	ECE	SKIT
618	Dr. Shubhi Jain	shubhijain19@gmail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
619	Summaiyya Saleem	sumaiyya.jpr@gmail.com	DEPARTMENT OF PHYSICS	UNIVERSITY OF RAJASTHAN, JAIPUR
620	Ashutosh Jangir	ashutoshjangir10@gmail.co m	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN JAIPUR
621	Sooraj Pachouri	soorajpachouri@gmail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUE OF TECHNOLOGY MANAGEMENT AND GRAMOTHON JAIPUR
622	Diya Sharma	diyajaipur.sharma@gmail.co m	ECE	SKIT, JAIPUR
623	Abhijeet Agarwal	abhijeetagarwal15102002@g mail.com	ECE	SKIT
624	Dishika Sharma	dishi.gungun@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
625	Dr. Garima Mathur	drg.mathur@poornima.org	ECE	POORNIMA COLLEGE OF ENGINEERING, JAIPUR



626	Jyotsna Joshi	jyotsna.joshi@poornima.org	ELECTRONICS AND COMMUNICATION	POORNIMA COLLEGE OF ENGINEERING, JAIPUR
627	Mutchu Vamsi	vamsimutchu92@gmail.com	ECE	PRAKASAM ENGINEERING COLLEGE, KANDUKUR
628	Likith	likithsaivemulapalli@gmail.c om	ECE	MANIPAL UNIVERSITY JAIPUR
629	Nitesh Mudgal	nitesh.mudgal@poornima.or g	ECE	POORNIMA COLLEGE OF ENGINEERING JAIPUR
630	Snehal Jain	sjsnehaljain03@gmail.com	ELECTRONICS AND COMMUNICATION ENGINEERING	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN
631	Parihar Hitesh Ramesh	hiteshrparihar@gmail.com	ECE	POORNIMA COLLEGE OF ENGINEERING
632	Nikhil Chouhan	2020pceecnikhil08@poorni ma.org	ELECTRONICS AND COMMUNICATIONS	POORNIMA COLLEGE OF ENGINEERING
633	Kashish Arora	Kashisha743@gmail.com	ELECTRONICS AND COMMUNICATIONS	SKIT JAIPUR
				CIAVA MILIZECLIVA NIA NID
634	Khushi Garg	gargkhushi483@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
634 635	Khushi Garg Harshit Parwani	gargkhushi483@gmail.com parwaniharshit@gmail.com	ELECTRONICS AND COMMUNICATION	INSTITUTE OF
	-		ELECTRONICS AND	INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF
635	Harshit Parwani	parwaniharshit@gmail.com kartik.somani500@gmail.co	ELECTRONICS AND COMMUNICATION ELECTRONICS AND	INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
635 636	Harshit Parwani Kartik Somani	parwaniharshit@gmail.com kartik.somani500@gmail.co m	ELECTRONICS AND COMMUNICATION ELECTRONICS AND COMMUNICATION ELECTRONICS AND COMMUNICATION	INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY SKIT COLLEGE
635 636 637	Harshit Parwani Kartik Somani Hemant Ameta Suraj Singh	parwaniharshit@gmail.com kartik.somani500@gmail.co m ameta7828@gmail.com	ELECTRONICS AND COMMUNICATION ELECTRONICS AND COMMUNICATION ELECTRONICS AND COMMUNICATION ENGINEERING.	INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY SKIT COLLEGE SKIT JAIPUR
635 636 637	Harshit Parwani Kartik Somani Hemant Ameta Suraj Singh Shekhawat	parwaniharshit@gmail.com kartik.somani500@gmail.com ameta7828@gmail.com singhsuraj1886@gmail.com	ELECTRONICS AND COMMUNICATION ELECTRONICS AND COMMUNICATION ELECTRONICS AND COMMUNICATION ENGINEERING. ELECTRONICS AND COMMUNICATION	INSTITUTE OF TECHNOLOGY SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY SKIT COLLEGE SKIT JAIPUR SKIT



642	Mohd Daud Qureshi	2021pceecmohd011	ECE	POORNIMA COLLEGE OF ENGINEERING
643	Anirudh Singh	asrofficial18@gmail.com	B.TECH CSE AIML	MANIPAL UNIVERSITY JAIPUR
644	Dikshant Sharma	dikshantlovi2002@gmail.co m	ECE	SKIT
645	Arun Singh	arun69487@gmail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN
646	Divyansh Gupta	guptadivyansh689@gmail.c om	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
647	Jayesh Mour	b200831@skit.ac.in	ECE	SKIT
648	Chakshit Gunidia	B200938@skit.ac.in	ECE	SKIT
649	Chirayu Jain	chirayujain105@gmail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAD INSTITUTE OF TECHNOLOGY, MANAGEMENT AND GRAMOTHAN
650	Hemant Kumar Atal	hemantkumaratal2020@gma il.com	ECE	SWAMI KESHWANAND INSTITUTE OF TECHNOLOGY
651	Anushka Jain	B200838	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
652	Varun Mathur	varun4094@gmail.com	ECE	SKIT JAIPUR
653	Rahul Kumawat	sokilrahul@gmail.com	ECE	SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN JAIPUR SWAMI KESHVANAND
654	Deepanshu Khandelwal	deepanshukhandelwal187@ gmail.com	ECE	INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
655	Anmol Gupta	anmolmahajan875@gmail.co m	ECE	SKIT
656	Dhruv Jain	dhruvjain13022002@gmail.c om	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,



657	Jai Kumar Bisaria	b210964@skit.ac.in	EC	SKIT
658	Abhishek Kumar	abhishek76750@gmail.com	ECE	SKIT
659	Piyush Yadav	ypiyush838@gmail.com	ECE	SKIT
660	Aditya Rawat	adityarawat1.com@gmail.co m	ECE	SWAMI KESHWANAND INSTITUTE OF TECHNOLOGY SKIT
661	Ayush Pandey	ayush360p@gmail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY
662	Astha	aasthajain0502@gmail.com	ECE	SWAMI KESHWANAND INSTITUTE OF TECHNOLOGY AND GRAMOTHAN
663	Aditya Narayan	narayanaditya0906@gmail.c om	ECE	SKIT, JAIPUR
664	Lovesh Chhabra	loveshchhabra070@gmail.c om	ECE	SKIT
665	Aabhas Nama	aabhasa9@gmail.com	ECE	SKIT
666	Chitvan Tak	dhaneshtak500@gmail.com	ECE	SWAMI KESHAVANAND INSTITUTE OF TECHNOLOGY
667	Kashish Sharma	Kashish	ECE	SKIT
668	Ajay Kumar Sharma	ajayoctsharma@gmail.com	ECE	SKIT, M & G
669	Himanshu Sharma	himanshusharma39692@gm ail.com	IΤ	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
670	Jagrati Meena	jagratimeena24072002@gma il.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, JAIPUR
671	Abhishek Sharma	aabsharma2000@gmail.com	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY

672	Jamuna Jangid	20eskec051	ECE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY AND GRAMOTHAN JAIPUR
673	Ankush Gupta	B200247@skit.ac.in	ELECTRONICS AND COMMUNICATION	RAJASTHAN TECHNICAL UNIVERSITY
674	Kirti Sagar	Kirtisagar676@gmail.com	ECE	SKIT JAIPUR
675	Kashish Karamchandani	kashishkaramchandani3@g mail.com	ELECTRONICS AND COMMUNICATION	SWAMI KESHWANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMMOTHAN
676	Jagrati Garg	jagratigarg03@gmail.com	ARTIFICIAL INTELLIGENCE	ANAND INTERNATIONAL COLLEGE OF ENGINEERING
677	Vaibhav Kunal	kumarashu5164@gmail.com	ECE	SKIT
678	Om Jaiswal	omkishan.jaiswal@gmail.co m	ECE	SKIT
679	Dama.Meghana	meghanadama4@gmail.com	ECE	JNTUK/PRAKASAM ENGINEERING COLLEGE
680	Somepalli Madhavi	madhavisomepalli903@gmai I.com	ECE	JNTUK
681	Hosuri Kuruva Srujitha	shrujiyadav7981@gmail.com	ECE	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
682	Archana Adireddy	archanaa02936@gmail.com	ECE	PRAKASAM ENGINEERING COLLEGE
683	Sravani	sravanisiripireddy865@gmai I.com	ECE	PRAKASAM ENGINEERING COLLEGE
684	Koppala Nandini	koppalanandini444@gmail.c om	ECE	PRAKASAM ENGINEERING COLLEGE
685	Pasam Pavithra	pasampavithra4@gmail.com	ELECTONICS AND COMMUNICATION ENGINERING	JNTUK
686	Thodeti Pravallika	thodetipravallika@gmail.co m	ECE	JNTUK
687	Tarimilla Sailaja	tarimilla sailaja@gmail.com	ELECTRONICS AND COMMUNICATION ENGINEERING	PRAKASAM ENGINEERING COLLEGE



688	Tallapalem Gamya Sree	gamyasree877@gmail.com	ECE	PRAKASAM ENGINEERING COLLEGE
689	Suhani Talreja	suhani.talreja.29@gmail.co m	BTECH CSE	MUJ
690	Khushi Rajawat	Khushirajawatnkpsem@gma il.com	ECE	SKIT
691	Dishika Sharma	dishi.gungun@gmail.com	ECE	SKIT JAIPUR
692	Jay	jaysoni6266@gmail.com	BTECH CSE	MUJ
693	Pawan Kumar	Pr4463174@gmail.com	ECE	UNIVERSITY OF ENGINEERING AND MANGEMENT



9. Feedback of the Event:

Students gained knowledge of microwave systems, radar systems, and wireless communications and the event was an overall success.

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10. Link of MUJ website:

https://jaipur.manipal.edu/muj/life-at-muj/Student-CLUBS.html

Signature of the Faculty Coordinator



MUJ/Q&C/021/F/1.01

Event Report Format

FACULTY OF DESIGN SCHOOL OF DESIGN AND ART DEPARTMENT OF INTERIOR DESIGN

Webinar on

"The Hafele LED lighting for furniture and rooms



12th May 2023

Head, Department of Interior Design
SD&A, Faculty of Design
Manipal University Jaipur





Content of Report

- 1. Introduction of the Event
- 2. Objective of the Event
- 3. Beneficiaries of the Event
- 4. Details of the Guests
- 5. Brief Description of the event
- 6. Photographs
- 7. Brochure or creative of the event
- 8. Social Media Post
- 9. Attendance of the Event





1. Introduction of the Event

The Department of Interior Design organized an online technical awareness session on lighting for furniture and rooms for the students of Architecture and Interior Design.

2. Objective of the Event

The main objective of this session was to give knowledge about new lighting systems which is introduced in the market by Hafele. Moreover, the student will be able to effectively plan the lighting needs for their design projects.

3. Beneficiaries of the Event

The students were rejoiced by the authenticity and genuineness of the speakers. All the participants ended the webinar inspired and with a new perspective about 'lighting system for furniture and rooms'.

4. Details of the Guests

Mr. Harshit Pusalkar, Hafele India Ar. Sneh Singh – HOD (department of interior design)

5. Brief Description of the event

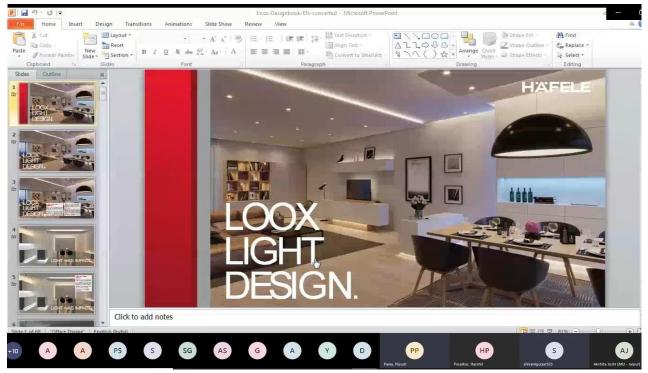
Through this informative session, team Häfele shared their knowledge and expertise in understanding the functionality of different types of lighting options and how they work effectively to enhance the interior spaces. The planning of light in furniture and furnishings puts a multitude of demands on architects, electricians, contractors, and finishers, and even developers and operators. The practical, aesthetic, and emotional aspects of lighting ensure that the proposed concepts contribute to unique and flexible room design; in residential, commercial, office and display settings as well as in hotels and serviced apartments. They at Häfele put this important element of light planning at the center of a comprehensive collection of ideas; it comes as no surprise, therefore, that they are the pioneers of 'furniture lighting' with the widest range of lighting solutions for furniture.

The students were rejoiced by the authenticity and genuineness of the speakers. All the participants ended the webinar inspired and with a new perspective about 'lighting system for furniture and rooms'.

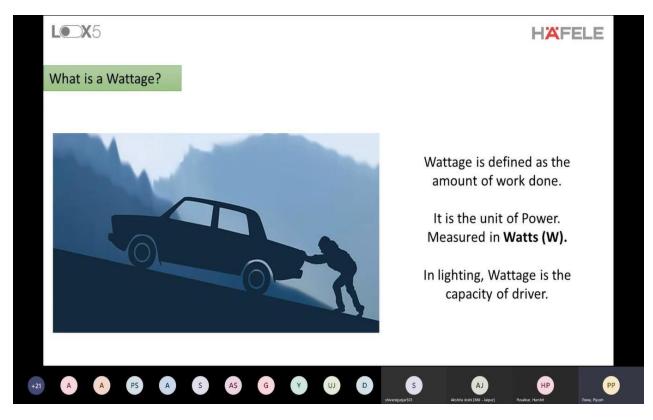




6. Screenshots of the workshop



'Mr. Harshit Pusalkar describing the new launched lighting systems and technologies for furniture and rooms lighting.'



'Mr. Harshit Pusalkar describing the technical details of the products for better understating of the students. '





7. List of Attendees:

	Interior Design, Faculty of Design, MUJ					
SI.No	Registration No.	Name				
1	200606003	Jagriti				
2	210606021	Garima vijaycharan				
3	200606005	Tresha Sharma				
4	200606018	Anjali Kiran				
5	200606024	Mahi agarwal				
6	210606026	Krishangee				
7	210606027	Madhu Tanwar				
8	210606001	Garvit garg				
9	210606041	Kashish Kriplani				
10	200606022	Harnoor Kaur Dhillon				
11	210606015	Manya Agarwal				
12	210606045	Drishti Sharma				
13	210606018	Hridyanshi Vyas				
14	210606017	Paridhi Verma				
15	210606028	Himanshi Sharma				





16	210606020	Anisha Chopra	
17	210606031	Esha giri	
18	210606008	Kumari Anjali	
19	210606038	Riddhi agarwal	
20	200606016	Haripriya Gupta	
21	210606010	Khushi bhargava	
22	210606046	Devanshi	
23	210606014	Himanshi yadav	
24	210606011	Kartik Totla	
25	210606016	Grishma Korjani	
26	210501007	Akash Singh	
27	210606047	Avinash Yadav	
28	210606039	Diya ramchandani	
29	210606035	Riya	
30	200606017	Kanak patidar	

Head, Department of Interior Design
SD&A, Faculty of Design
Manipal University Jaipur





Post Event Report

FACULTY OF DESIGN

5days Executive
Development Program
on

'Bamboo Renaissance: Modern Design Meets Sustainability'

Venue: Online platform

Time: 9:30 AM-12.00 PM (First day)

2:30 PM-4.00 PM (2nd to 5th day)

^{18th} September- ^{22nd} September 2023













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1.	Introduction of the Executive development Program	3
2.	Objectives of the Executive development Program	3
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4.	Details of the Guests	3
5.	Brief Description of the event	4
6.	Images	5
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9.	Attendance of the Event	7
10.	Weblink	7
11.	Event Coordinators:	7













1. Introduction of the Executive development Program:

On World Bamboo Day, the Faculty of Design at Manipal University Jaipur organized a 5-day Executive Development Program titled "Bamboo Renaissance: Modern Design Meets Sustainability" in collaboration with their industrial partner, KONBAC, and the Indian Bamboo Forum, in association with the IGBC Student Chapter, MUJ, and MUJ-TEC. The program was conducted in virtual mode from September 18th to September 22nd, 2023.

2. Objectives of the Seminar:

- Understanding the various application of Bamboo in Exterior and interior spaces.
- To create awareness about bamboo in different regions.
- To understand its production and preservation technique techniques.

3. Beneficiaries of the Event:

- UG Students (Architecture, Design and Construction related Fields)
- PG Students (Architecture, Design and Construction related Fields)
- Research Scholars
- Academicians, Practitioners, and Industry Professionals in the fields of Architecture, Design, Civil, and Structural Engineering.

4. Details of the Speakers:

- a) Dr. Jagdish Vengala, Head of EDC & Associate Professor at PVPSIT Vijayawada. Dr. Jagdish Vengala presented various components of bamboo and explained its diverse strength and elastic properties. He also discussed the various IS codes applicable in India for bamboo construction.
- b) Prof. Sankalp, an associate professor from CEPT UNIVERSITY. Prof. Sankalp presented various construction techniques related to Bamboo construction, demonstrating proposals from different parts of the world. He elucidated innovative joinery details pertinent to bamboo construction.
- c) Prof. Charruchandra K. faculty member at CTARA, IIT Mumbai, discussed various species of bamboo and highlighted their unique thermal, bending, tensile, and compressive strength properties. He also showcased the application of innovative joinery details using Bomcrete (HIB) technology in arch construction. In addition, Prof. Charruchandra K. presented models of bamboo structures subjected to different loads, demonstrating their strength and durability.
- d) **Mr. Sanjeev Shashikant Karpe** is a qualified Electrical Engineer has been associated with bamboo Industry for last eighteen years and has pioneered the work in setting up of self-sustainable bamboo-based enterprise in rural India. He is a Founder and Director with Konkan Bamboo & Cane Development Centre (KONBAC), an organization working for sustainable development through use of bamboo as a resource & implementing various bamboo projects successfully for last 17 years. Mr. Sanjeev Karpe explained bamboo construction in India and worldwide.













He stated that bamboo has strong potential to grow in degraded land, requires less water compared to sugarcane, and consumes less embodied energy compared to conventional materials. In the global context, countries such as Colombia and Vietnam have embarked on large-scale bamboo projects, whereas in India, despite being the world's second-largest bamboo producer, its full potential remains largely untapped. In addition, Ar. Sanjeev Karpe presented models of bamboo structures subjected to different loads, demonstrating their strength and durability. Various experiments related to straightening of bamboo and bending it to achieve the required form were also demonstrated.

e) Mr. Amitava Sil, a Scientist at IWST (Indian Wood Science and Technology), Kolkata, renowned for his extensive knowledge and experience in the preservation treatment of bamboo species. Mr. Amitava Sil provided insights into preservative treatments and fire retardancy in structural bamboo. He elucidated various treatment methods and processes, highlighting their associated benefits. Furthermore, he offered a demonstration of bamboo's structural frame by showcasing its inherent structural properties.

5. Brief Description of the event:

In the context of a Global Environmental crisis, coupled with economic and health challenges, the time has come for radical cultural awareness, politicians. architects, engineers, developers, and construction companies have an enormous responsibility as the construction industry and processes have an enormous negative impact on the environment. Bamboo is a key natural resource and, together with conscious design, draws a new direction for Contemporary Architecture. The Executive Development Program "Bamboo Renaissance: Modern Design Meets Sustainability is a comprehensive initiative designed to explore the dynamic intersection of modern design principles and sustainable practices within the realm of bamboo. This program is carefully curated to provide Industry Professionals, Academicians, and Researchers with the knowledge and tools needed to harness bamboo's immense potential as an ecofriendly resource in contemporary design and construction. The EDP 2023 will be a great opportunity to facilitate networking with industry experts and peers, enabling participants to exchange ideas, collaborate on projects, and stay updated on emerging trends and innovations in sustainable design.









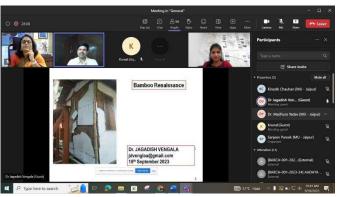




6. **Images**



1.Inaugural Address by Prof. (Dr.) Madhura Yadav, Dean, FoD 2. . First day expert lecture by Prof. (Dr.) Jagdish Vegala





3. . Second day expert lecture by Prof. (Dr.) Sankalp



5. . Fourth day expert lecture by Mr. Sanjeev Karpe



4. . Third day expert lecture by Prof. (Dr.) Charuchandra



6. . Fifth day expert lecture by Mr. Amitava Sil



7. . Valedictory session by Mr. Anand Mishra and Mr. Dhirendra Madan











7.Brochure of the event:





FACULTY OF DESIGN

in association with

IGBC Student & MUJ TEC Chapter, MUJ KONBAC Community, First IGBC

EXECUTIVE DEVELOPMENT

PROGRAM -2023 (Virtual Mode)

September 18th: 9:30am to 11 am & September 19th to 22nd, 2023; 2:30pm to 4:00 pm

BAMBOO RENAISSANCE: Modern Design meets Sustainability







ABOUT MANIPAL UNIVERSITY JAIPUR

ABOUT MANIPAL UNIVERSITY JAIPUR
Manipal University Jaipur (MUJ) has redefined academic excellence in the region and inspires students of all disciplines to learn and innovate through hands-on practical experience. The multi-disciplinary university offers career-oriented courses at all levels, i.e., U.G. PG, and doctoral across all the streams like Engineering, Architecture, Planning, Fashion Design, Interior Design, Fine Arts, Hospitality, Humanities, Journalism, Basic Sciences, Law, Commerce, Computer Applications, Management, etc. The university has been granted the ATAL Incubation Centre, funded by Niti Aayog, Government of India. Ost.

KONBAC BAMBOO PRODUCTS PRIVATE LIMITED KONBAC BAMBOO PRODUCTS PRIVATE LIMITED is classified as a non-government company and it is registered and located in MUMBAL KONBAC provides training, at a national and global level, in Bamboo cultivation, harvesting, and primary and secondary processing Manufacture of interior & and lifestyle accessories Manufacture of home and office furniture Construction of cottages, resorts, and buildings.

ABOUT EXECUTIVE DEVELOPMENT PROGRAMME

ABOUT EXECUTIVE DEVELOPMENT PROGRAMME

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The EDP 2023 will be a great opportunity to facilitate networking with industry experts and peers, enabling participants to exchange ideas, collaborate on projects, and stay updated on emerging trends and innovations in sustainable design.

ABOUT FACULTY OF DESIGN

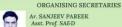
The Faculty of Design aims to nurrure it as one of its core strengths, with the mission to become the most preferred global destination in design education and research for students, researchers, faculty, collaborators, promoters, investors, and developers. Over time, the Faculty has grown into two Schools:
The School of Architecture and Design, 8 the School of Design & Art & and many departments. The Faculty of Design is backed by excellent infrastructure, and intellectual capital within the Faculty. At present Faculty of Design is offering UG, PG, and Doctoral programs in Architecture, Interior Design, Fine Art, Fashion Design and UXID.

IGBC STUDENT CHAPTER
IGBC Student Chapter Manipal University Jaipur was constituted by the
Faculty of Design. IGBC student chapter aims to explore the role of the green
building concept in the built and unbuilt environment. The chapter organized
various interactive sessions and workshops by experts.





Dr. MADHURA YADAV Dean FOD, Manipal University Jaipur



Ar. SANJEEV PAREEK Asst. Prof. SA&D Ar. KINZALK CHAUHAN





Students, Research Scholars, Academicians, and Practitioners in the field of Architecture, Design, Civil, and Structural Engineering.

REGISTRATION FEE
INR 500 - For External Participants
INR 200 - For Research Scholars & Internal Participants

NOTE





EXECUTIVE DEVELOPMENT PROGRAM -2023 (Virtual Mode)











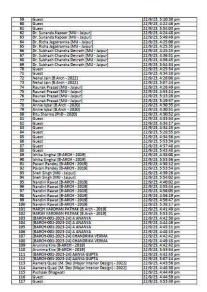


8 .Schedule of the event

S.No.	Description	Time	
1	Welcome Address by Prof. (Dr.) Madhura Yadav, Director, SA&D, Manipal University Jaipur		
2	Inaugural Address by Hon'ble Mr. Suresh Prabhu, Member of Parliament, India's Sherpa to G7 & G20	9.35 AM	
3	Address by Prof. (Dr.) Anuradha Chatterjee, Dean, FoD, Manipal University Jaipur	9.45 AM	
4	Address by Mr. Sanjeev Karpe, Director, KONBAC Maharashtra	9.55 AM	
5	Presidential Address by Prof. (Dr.) G. K. Prabhu, President, Manipal University Jaipur	10.10 AM	
6	Vote of Thanks by Prof. Kinzalk chauhan, SA&D, Manipal University 10.20 AI Jaipur		
7.	Fist day Expert Lecture by Dr. Jagdish Vengela	10.30 AM	

9. Attendance of the Event:







10.Weblink:

https://jaipur.manipal.edu/content/dam/manipal/muj/fod/Document/eventlist/EDP%200 N%20Bamboo%20-Event%20report.pdf

11. Event Coordinators:



Ar. Sanjeev Pareek (Assistant Professor, SA&D)
 Ar. Kinzalk Chauhan (Assistant Professor, SA&D)











Event Report

by

Department of Electrical Engineering

on

Team building through Games

at

Oxford International High School, Begas
02/11/2023

Content of Report

S.No.	Activity Heads Introduction of the Event	
1.		
2.	Objective of the Event	3
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4.	Brief Description of the event	3
5.	Photographs	3
6.	Brochure or creative of the event	6
7.	Schedule of the Event	6
8.	Attendance of the Event	7

- 1. Introduction of the Event: Social activity programme organized in collaboration with association with Technoelectricia club and NCC. Students planned different games to create team spirit for 5, 6, 7 class students.
 - 2. Objective of the Event: Awareness program
 - 3. Beneficiaries of the Event: School Students
 - 4. Brief Description of the event:

Team building games assist in developing an environment for effective communication and community building. They utilize mental abilities of the learner. Team-building games must be flexible enough and take into consideration the learner's who come from different backgrounds, have different mental levels, different potential, different patience rate and an amalgamation of other differences. Such games assist in employee motivation Collaborating agency: NCC

The National Cadet Corps (NCC) is the youth wing of the Indian Armed Forces with its headquarters in New Delhi, India. It is open to school and college students on voluntary basis as a Tri-Services Organization, comprising the Army, the Navy and the Air Wing, engaged in grooming the youth of the country into disciplined and patriotic citizens. The soldier youth foundation in India is a voluntary organization which recruits cadets from high schools, higher secondary, colleges and universities all over India. The Cadets are given basic military training in small arms and drill.

5. Photographs

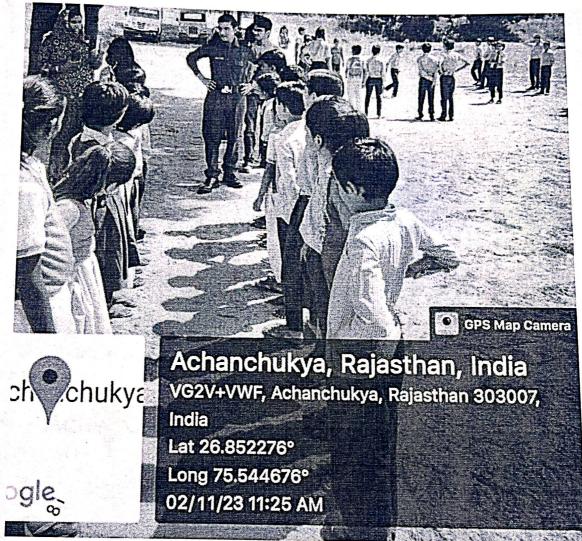


Fig. 1: Student playing games on Ground.

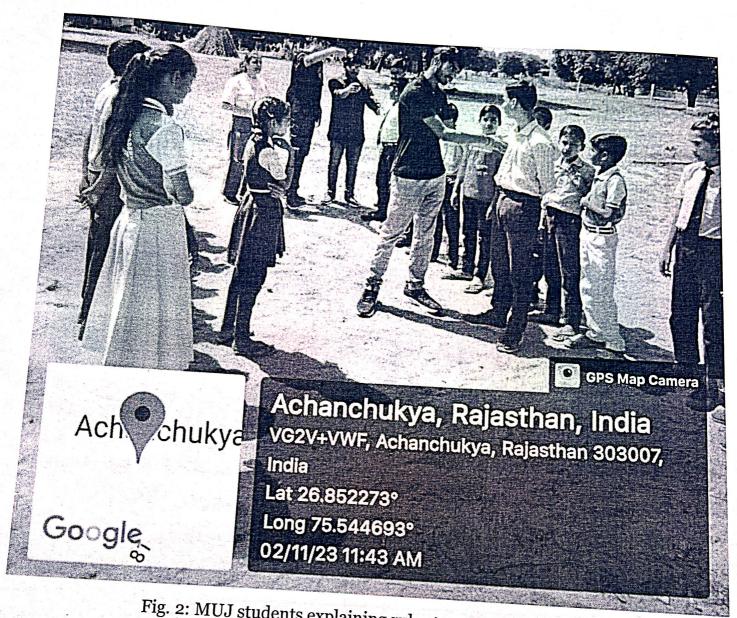
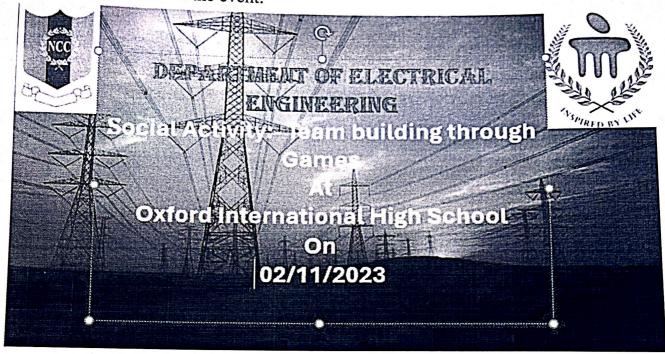


Fig. 2: MUJ students explaining rules to students

6. Brochure or creative of the event:



7. Schedule of the Event

The following personnel of EE Department has conducted social activity in "Oxford International High School, Begas on 02/11 2023.

S.NO	NAME OF THE ACTIVITY	NATURE OF THE ACTIVITY
1.	GAME-1	PLAY
2.	GAME-2	PLAY
3.	GAME-3	PLAY

Program coordinator

1. Mr. Vikash Kumar Boradak Contact No. +918619866321

Student participants

	S. No	Reg. I	No.	Name	
			9021	ABHINAV KOTHARI	
	2 222		0009	The state of the s	
	3	229209	016	ANSH JAST	
	4 229209		006	ARJAVI ARYA	
	5	229209	019	ARYAN BHATI	
-	6	229209	028	BHANU PRATAP SINGH RATHORE	
-	7	2292090	-	HARDIKA SHARMA	
-	8	2292090	-	JASKARAN A SINGH RUSTAM	
	9	2292090	_	MOHIT SHARMA	
	10	2292090	-	MUHAMMAD NASIR NIYARGAR	
	1	2292090	-	NAMAN BHASIN	
	2	2292090	-	PARTH TIWARI	
1		2292090		SAMIKSHA SHARMA	
1		2292090:	15	SANYA BAKSHI	
1		22920902	24	SIDDHARTH JANGID	
16	5	22920901		TIA JAIN	
17		22920903	0	VIKAS CHOUDHARY	
18		22920902	00000	/IVEK SHARMA	
19		22920904	V201	ANURAG SHARMA	
20		22920903	_ // // //	YUSHI MITTAL	
21		22920903	200	DIWANSHU	
22	1	229209050	200	ARSH PANWAR	
23	12	29209046	The state of the s	ARSHIITA DUA	
24	2	29209032			
25	100	29209049	1	HUSHAL KEDAWAT	
26	100	29209041	-	IMANSHA BHANDARI	
27			-	OHD ATEEK KHAN	
28	1000	29209034	-	SHIT PRADIPKUMAR DONGRE	
29		29209037	RA	GHAV BHATIA	
	III IOSHBIR	9303093	RIS	SHABH BACHANI	
30	III TO THE REAL PROPERTY.	9209040		KSHAM AGARWAL	
		9209036	SAI	NSKAR BANSAL	
32	22	9209043		RUNSH GUPTA	
33 229209038					
34		209048		HESH GUPTA	
35	1000000	209015		SHAADITYA	
36		209030		TI SINGH	
37		2000-		SH US GUPTA	
THE RESERVE TO SERVE	219	209010	FA17	SAIFI	

38	219209003	HARSH VARDHAN
39	219209023	MANDHAN VARDHAN
40	219209021	The state of the s
41	219209017	THE PROPERTY OF THE PROPERTY O
42	219209019	The same of the sa
43	219209016	THE PAINAGE
44	219209011	LINE AND AND AND KHAN
45	219209022	NAMAN SOMANI
46	219209006	NEERAJ POONIA
47	219209026	NIDHISH AGARWAL
48	219209001	NIHAR GUPTA
49	219209025	The state of the s
50	219209005	PRATYASHA MOHARANA
51	219209002	PUNKESH PUNJ
52	219209028	RAGHAV SRIVASTAVA
53	240000	SHRISH BARTAKKE
54	240200	TARUSHEE RAI KHOIWAL
55	2102000-	UDAYAN
	219209029	VIBHANSHU JAIN
56	219209018	VINEET YADAV

Vilcom larmon

HOD Engineering School of Ele

Electronics & Communica Manipal University



Event Report

by

Department of Electrical Engineering

on

Electrical System Awareness program

at

Oxford International High School, Begas

28/11/2025

Content of Report

S.No.	Activity Heads	Page no.
1.	Introduction of the Event	3
2.	Objective of the Event	3
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8.	Attendance of the Event	7

1. Introduction of the Event:

This program is designed to provide important information on the potential electrical hazards in the workplace and how to stay safe when working with electrical equipment and circuits. During the program, we will cover a range of topics, including an overview of electrical hazards, safety procedures to follow when working with electricity, and emergency procedures to follow in case of an electrical incident. The program will also provide an opportunity for you to ask any questions or concerns you may have regarding electrical safety. Social activity programme organized in collaboration with Directorate of Student's Welfare (Society Connect) Manipal University Jaipur. Students prepared a short electrical awareness video to engage 10, 11, 12 class students.

- 2. Objective of the Event: Awareness program
- 3. Beneficiaries of the Event: School Students
- 4. Brief Description of the event:
 - 1. Electrical Safety

Electricity can kill or severely injure people and cause damage to property. However, you can take simple precautions when working with or near electricity or electrical equipment to significantly reduce the risks of injury to you, your worker and others around you. This section provides a summary of those precautions.

2. Electrical Hazards

The major hazards associated with electricity are electrical shocks, fire and arc flash. Electrical shocks occurs when body becomes part of the electrical circuit, either when an individual comes in contact with both wires of an electrical circuit, one wire of an energized circuit and the ground, or a metallic part that has become energized by contact with an electrical conductor.

3. Electrical Earthing System

Earthing is a method of transmitting instant electrical discharge directly to the ground through low resistance wires or electrical cables. This is one of the significant features of electrical network. Because it builds the most eagerly and hazardous power source much secure to utilize. •

Collaborating agency: NCC

The National Cadet Corps (NCC) is the youth wing of the Indian Armed Forces with its headquarters in New Delhi, India. It is open to school and college students on

voluntary basis as a Tri-Services Organization, comprising the Army, the Navy and the Air Wing, engaged in grooming the youth of the country into disciplined and patriotic citizens. The soldier youth foundation in India is a voluntary organization which recruits cadets from high schools, higher secondary, colleges and universities all over India.

Collaborating agency: NCC

The National Cadet Corps (NCC) is the youth wing of the Indian Armed Forces with its headquarters in New Delhi, India. It is open to school and college students on voluntary basis as a Tri-Services Organization, comprising the Army, the Navy and the Air Wing, engaged in grooming the youth of the country into disciplined and patriotic citizens. The soldier youth foundation in India is a voluntary organization which recruits cadets from high schools, higher secondary, colleges and universities all over India. The Cadets are given basic military training in small arms and drill.

5. Photographs

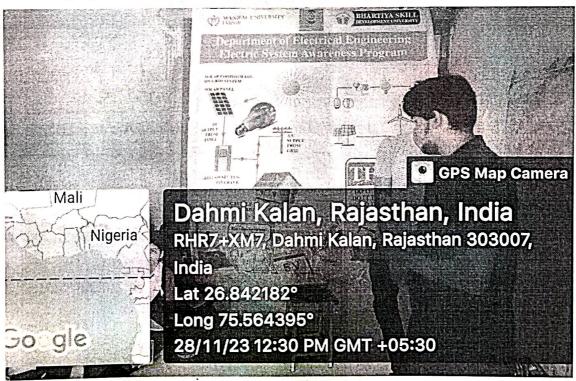
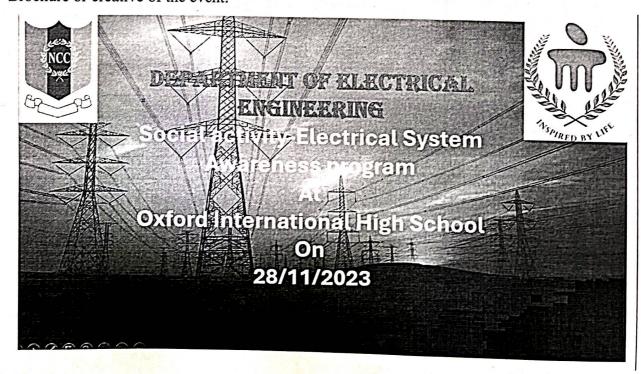


Fig. 1: MUJ Students interacting with students.



Fig. 2: MUJ students explaining about electricity.

6. Brochure or creative of the event:



7. Schedule of the Event

The following personnel of EE Department has conducted social activity in "Oxford International High School, Begas on 28/11 2023.

S.NO	NAME OF THE ACTIVITY	NATURE OF THE ACTIVITY
1.	ELECTRICAL SAFETY	INTERACTIVE TALK
2.	ELECTRICAL HAZARDS	INTERACTIVE TALK
3.	ELECTRICAL EARTHING SYSTEM	INTERACTIVE TALK

Program coordinator

1. Mr. Vikash Kumar Boradak Contact No. +918619866321

Student participants

S. No	Registration No.	Student Name
1	219209028	SHRISH BARTAKKE
2	219209019	MAYANK BAIRAGI
3	219209028	SHRISH BARTAKKE
4	219205003	RAKESH MAIWAL
5	219205016	KUNAL GUPTA
6	219205007	KM NITIKA
7	219205012	ARYAN RAI
8	219205018	ANKIT KUMAR JHĀ
9	219209021	MANASI RAJ
10	219209010	FAIZ SAIFI
11	219209029	VIBHANSHU JAIN
12	219209024	UDAYAN
13	219209011	MOHD.WASIF SAIFI
14	219209018	VINEET YADAV

Pilam ruman

Department of Electrical Engineering
School of Electrical.
Electronics & Communication (Si.EC)
Niar:ipal University Jalpur
Niar:ipal University Jalpur

NITITE CHANDIGARH

NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING & RESEARCH

An ISO-9001:2000 Certified Institute

(Ministry of Education, Govt of India)

SECTOR 26, CHANDIGARH 160 019

Ref: NITTTR/2023-24

Dated: 18.09.2023

To

Honorable Vice Chancellor / Worthy Registrar

Manipal University, Jaipur

Subject: Short Term Programme on "Energy efficient and innovative building

construction practices" from 09-13 October, 2023.

Dear Sir/Madam,

We are organizing the above cited STC for the faculty of Engineering Colleges and

Polytechnics of all northern states of the country w.e.f. 09-13 October, 2023. The above

mentioned programme is being organized with the prime to acquaint the participants about

the energy efficient innovative construction practices.

The importance of energy efficient and green buildings has assumed great urgency today. In

light of fast depleting energy resources, energy scarcity and increasing environmental

pollution, innovative ways to cut down energy consumption are necessary. The construction

industry is one of the largest energy consuming sectors. In modern buildings significant

amounts of energy are also consumed to keep the building environment comfortable.

Estimates suggest that about 20-25 percent of the total energy demand is due to

manufacturing materials required in the building sector, while another 15 percent goes into

the running needs of the building like lighting, air-conditioning, room heating and ventilation

etc.

In view of the global energy crisis and increasing energy demand is expected to continue and

apart from possible end-use restrictions, energy efficiency and energy management is

essentially required.

As Manipal University, Jaipur is a renowned university and Department of Architecture is

one of the emerging department of the institute so, we want to conduct the above mentioned programme in collaboration of your organisation. We expect the following co-operation from

your institution.

• Arrangement of one lecture hall equipped with facilities like LCD Projector, Computer and sound system for Video films show.

Field study visit to nearby educational places or site. Charges /fuel charges to the institute bus from the institute for the field visit will be paid by NITTTR,

Chandigarh

• Arrangement of few lecturers on the topics marked in the time table (send you in few days). Honorarium and TA to the experts will be paid by NITTTR,

Chandigarh

• Arrangement of one guest house rooms for NITTTR faculty from **08-13**

November, 2023 at your College/ Guest House.

• Stationary to the course participants for the programme will be provided by

NITTTR, Chandigarh.

As per the decision of the Institute, Rs.118/- (Rs. 100/- +18% GST) per

participant will be charged from all participants.

• Honorarium of Rs. 2500/- to coordinator and Rs. 1500/- to supporting staff will be

provided by NITTTR, Chandigarh

• No working lunch and tea will be provided to the participants by NITTTR,

Chandigarh.

As it is a inter-disciplinary programme so we expect a minimum number of participants

for the programme may be 30. The details of the programme will be shared on receiving

letter of acceptance from your end through the coordinators.

We will highly appreciate your timely communication and approval for the above mentioned

course.

(Dr. Amit Goyal) **Course Coordinator**

9417569559

CC:

Dr. Sunanda Kapoor, Department of Architecture, Manipal University





FACULTY OF DESIGN SCHOOL OF ARCHITECTURE AND DESIGN

Short Term Programme

on

Energy Efficient and Innovative Construction Practices

Hybrid Mode 16th to 20th October 2023





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4.	Details of the Guests	3
5.	Brief Description of the Event	4
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8.	Schedule of the Event	7
9.	Attendance of the Event	7
10.	Weblink	7
11.	Event Coordinators	7





1. Introduction

The importance of energy efficient and green buildings has assumed great urgency today. In light of fast depleting energy resources, energy scarcity and increasing environmental pollution, innovative ways to cut down energy consumption are necessary. The construction industry is one of the largest energy consuming sectors. In modern buildings significant amounts of energy are also consumed to keep the building environment comfortable. Estimates suggest that about 20-25 percent of the total energy demand is due to manufacturing materials required in the building sector, while another 15 percent goes into the running needs of the building like lighting, air-conditioning, room heating and ventilation etc. Increased development of housing and commercial buildings has imposed immense pressure on our dwindling energy sources. The availability of energy is limited and known resources of energy are exhausting fast. Therefore, energy efficiency is assuming importance in different sectors. In view of the global energy crisis and increasing energy demand is expected to continue and apart from possible end-use restrictions, energy efficiency and energy management is essentially required.

2. Objectives of the STP

The objective of STP was to discuss on the below mentioned aspects related to energy efficient and green buildings-

- ➤ Basic Knowledge of Energy Efficient Buildings
- ➤ Planning and Preparedness
- ➤ Solar Passive Architecture
- Vaastu Shastra Myths and Realities
- ➤ Innovative Practices/Research in Green Buildings
- ➤ Green Buildings-Design and Construction
- > Energy efficiency in old traditional buildings
- > Solar Devices and their Utilization

3. Beneficiaries of the Event

- Academicians
- Research Scholars
- PG Students (Architecture, Civil, Management and Allied Fields)

4. Details of the Guests

- Dr. Amit Goyal NITTTR, Chandigarh
- Dr. Sanjay Sharma NITTTR, Chandigarh
- Shashwat Singh, Energy Simulation Expert Northumbria University, UK
- Dr. J.M. Mathur, MNIT Jaipur
- Dileep Singh, BoG, ASHRAE







- Ar. Bibhu K. Nayak, Associate Professor, Manipal University Jaipur
- Dr. Madhura Yadav, Professor & Dean, Faculty of Design, Manipal University Jaipur
- Dr. Abhishek Sharma, Professor, Manipal University Jaipur

5. Brief Description of the Event

School of Architecture & Design, Manipal University Jaipur organized a five-day Short-Term Programme titled "Energy Efficient and Innovative Construction Practices" in association with NITTTR, Chandigarh. The STP aimed to introduce various Energy Efficient practices adopted in Building Construction. The Short-Term Programme was scheduled from 16th to 20th October 2023 in Hybrid mode. This event also helped to enhance the existing knowledge of various teachers and students to cater the new innovations in the field of architecture and design. The event received good feedback from faculty members and all the participants.

6. Brochure of the Event



ABOUT MANIPAL UNIVERSITY

Manipal University Jaipur (MUJ) has redefined academic excellence in the region and inspires students of all disciplines to learn and innovate through hands-on practical experience. Manipal University Jaipur (MUJ) was launched in 2011 on an invitation from the Government of Rajasthan, as a self-financed State University. MUJ has redefined academic excellence in the region, with the Manipal way of learning; one that inspires students of all disciplines to learn and innovate through hands on practical experience. Jaipur, being one of the fastest growing oties in India, has increasing demand for quality higher education in the region. Following an allotment of 122 Acres of land at Dehmi Kalan village near Jaipur, the permanent campus of the University has come up at a fast pace and is by far one of the best campuses in the region. The multi-disciplinary university offers career-oriented courses at all levels, i.e., UG, PG and doctoral and across diverse streams, including Engineering, Architecture, Planning, Fashion Design, Interior Design, Fine Arts, Hospitality, Humanities, Journalism and Mass Communication, Basic Sciences, Law, Commerce, Computer Applications, Management, etc. Some PG programmes are also available in the research mode. The university has been granted the ATAL Incubation Centre, funded by Niti Aayog, Government of India.

ORGANISING COMMITTEE

Coordinator

Prof. (Dr.) Sunanda Kapoor, Head , School of Architecture & Design, Manipal University Jaipur Co-Coordinator

Dr. Ashutosh Saini, Assistant Professor, School of Architecture & Design, Manipal University Jaipur

Contact: ashutosh.saini@jaipur.manipal.edu

ABOUT NITTTR, CHANDIGARH

Since its inception in 1967, NITTTR (formerly TTTI) Chandigarh has made rapid strides in the areas of engineering and technology and emerging areas like computer, educational technology, entrepreneurship development, rural development, industry-institute interaction and educational management. Presently, the institute conducts more than 400 short-term training programmes annually for polytechnics and engineering colleges teachers, professionals and managers of industries. The Institute also conducts a large number of AICTE sponsored Summer and Wilner Schools every year. The institute offers six postgraduate programmes in engineering and engineering education through regular and modular modes. In addition to education and training programmes, the institute renders extension services to Polytechnics, undertakes research and development projects and develops print and non-print instructional material.

ABOUT SCHOOL OF ARCHITECTURE AND DESIGN, FACULTY of DESIGN, MUJ

School of Architecture & Design, Jaipur encapsulates the philosophy of creating innovators, empowered with the knowledge for the creation of a dynamic world, pulsating with intellectual acuity and striving for the utopia of a prosperous biosphere for all. The School strives to provide world-class architectural education by coupling state-of-art facilities with a dedicated and experienced faculty team and student-centric academic practices. Also, owing to the location, we have a vantage point in understanding the state of Rajasthan, which is one of the richest states in India in terms of its culture and heritage. The School intends to create an archive of heritage documentation for the state and become forerunners in the conservation of cultural landscape and heritage of the region.

ADDRESS FOR CORRESPONDENCE

Dr. Amit Goyal, Assistant Professor
Department of Civil Engineering
National Institute of Technical Teachers' Training
and Research, Sector 26, Chandigarh 160 019
Tel: 0172- 2759656, Mobile No- 09417569559
Fax: (0172) 2793893, 2791366
E-mail: amitgoyalamit23@gmail.com,
amitgoyalamit@rediffmail.com,

SHORT TERM PROGRAMME ON ENERGY EFFICIENT AND INMOVATIVE CONSTRUCTION

INNOVATIVE CONSTRUCTION PRACTICES

From- 16-20 October, 2023
ORGANISED BY



School of Architecture & Design Faculty of Design & MUJ-TEC

Manipal University Jaipur [University under Section 2(f) of UGC Act] Dehmi Kalan, Off Jaipur-Ajmer Expressway, Jaipur, Rajasthan

In Collaboration with



National Institute of
Technical Teachers' Training and Research
Institute of Human Resource Development, Govt of India)
Sector 26, Chandigarh 160 ong

Venue-Manipal University Jaipur







INTRODUCTION AND OBJECTIVES

The importance of energy efficient and green buildings has assumed great urgency today. In light of fast depleting energy resources, energy scarcity and increasing environmental pollution, innovative ways to cut down energy consumption are necessary. The construction industry is one of the largest energy consuming sectors. In modern buildings significant amounts of energy are also consumed to keep the building environment comfortable. Estimates suggest that about 20-25 percent of the total energy demand is due to manufacturing materials required in the building sector, while another 15 percent goes into the running needs of the building like lighting, air-conditioning, room heating and ventilation etc. Increased development of housing and commercial ventation etc. Increases development of notating and commercial buildings has imposed immense pressure on our divinding energy sources. The availability of energy is limited and known resources of energy are exhausting fast. Therefore, energy efficiency is assuming importance in different sectors. In view of the global energy crisis and increasing energy demand is expected to continue and apart from possible end-use restrictions, energy efficiency and energy management is essentially required.

COURSE CONTENTS

- Basic Knowledge of Energy Efficient Buildings
- Planning and Preparedness Solar Passive Architecture
- Vastu Shatra Myths and Realities
- Innovative Practices/Research in Green Buildings
- Green buildings-Design and Construction Energy efficiency in old traditional buildings
- Solar Devices and their Utilization

Programme Coordinator : Dr. Amit Goyal, Assistant Professor, Department of Civil Engineering, NITTTR, Chandigarh Dr. Sanjay Sharma, Professor, Department of Civil Engineering, NITTTR, Chandigarh

Local Coordinators

Prof. (Dr.) Sunanda Kapoor, Head, School of Architecture & Design, Manipal University Jaipur

Contact: sunanda.kapoor@jaipur.manipal.edu

Co-Coordinator
Dr. Ashutosh Saini, Assistant Professor, School of Architecture & Design, Manipal University Jaipur

Contact: ashutosh.saini@jaipur.manipal.edu

MISTHODOLOGY
The one-weeks programme will be judiciously utilized by integrating theory classes, practicals, field visits, audio-visual presentations and educational video films shows. In order to make the programme participatory, group discussions and project formulations exercises will also be done. Besides the institute faculty, experts will be invited from research and development organizations, science and technology departments, working on green and energy efficient buildings.

TARGET GROUP

Faculty members of all Engineering Disciplines, Architectural Faculty members of all inginieering Disciplines, Architectural, Management and Humanities streams working in an AICTE approved engineering college/institute can participate in this programme. These faculty members have to get themselves sponsored from the Principal/Head of Institution and register themselves on NITTTR Chandigarh Website at www.nitttrchd.ac.in

[Note: Seats are limited, please get your admission confin

Last DATE
Last date of registration for participation in this training programme is 15 October, 2023.

Fee of Rs 118/- is chargeable from the participants engineering college teachers whose names are sponsored by the competent authority (Principal / Director). Click on the following link to register

https://fdp.nitttrehd.ac.in/backingup/

After successful registration, email the registration form and payment receipt to amittgoyalamit23@gmail.com

TA/DA

3 tier AC train travel will be paid to the participants of Govt. Institutes by NITTTR, Chandigarh.

Accompodation to the participants shall be provided on payment basis.

VENUE

Room No. 201, Lecture Hall, Second Floor, School of Architecture and Design, Dome Building, Manipal University Jaipur.

SHORT TERM PROGRAMME

Energy Efficient and Innovative Construction

Faculty of Design, Manipal University Jaipur

16-20 October, 2023

Sex: Male Female

Qualification:

Experience (Teaching/Industrial/Others):

Institution:

Address

Phone No. with STD Code

Age:

Designation:

Whether Accommodation Needed:

Yes 🗆

Signature of the Applicant

Recommendation of the Principal/Head of the Sponsoring Institute (Signature with seal) [Last Date of Submission of Application is 15 October, 2023]

Photographs of the Event 7.



Figure 1: Inauguration Ceremony

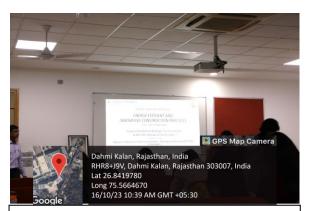


Figure 3: Registrations



Figure 2: Lamp Lighting by Dr. Sunanda Kapoor



Figure 4: Introduction to the STP







Figure 5: Expert Lecture by Dr. J.M. Mathur



Figure 9: Expert Lecture by Dr. Madhura Yadav



Figure 6: Introduction to STP by Dr. Madhura



Figure 10: Expert Talk by Ar. Sneh Singh



Figure 7: Expert Talk by Dr. Subhash Devrath



Figure 11: Expert Lecture by Dr. Abhishek



Figure 8: Felicitation of Dr. Amit Goyal



Figure 12: Group Photograph post STP



8. Schedule of the Event

Short Term Programme on 'Energy Efficient and Innovative Construction Practices' From 16-20 October 2023 at Manipal University Jaipur

Day/Date	SESSION - I	SESSION – II	1.00 to	SESSION – III
	10.00 am to 11.30 am	11.30 am to 1.00 pm	2.30 pm	2.30 pm to 4.00 pm
Monday 16.10.2023	Registration / Inauguration	Innovation in Clean Construction of Masonry Houses Dr. Amit Goyal NITTTR, Chd		Bioinspired building facade design Shashwat Singh, Energy Simulation Expert Northumbria University. UK
TUESDAY 17.10.2023	Design in Motion Ar. Bibbu K. Nayak, Associate Professor, Manipal University Jaipur	Energy Efficiency HVAC system Expert in efficient HVAC systems Dileep Singh, BoG. The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)	L U N	Sustainable Material for Net Zero Arun Jain, Energy expert in Efficient Building techniques BoG The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
WEDNESDAY 18.10.2023	Building Materials for Green construction Dr. Sanjay Sharma NITTTR, Chd	New Innovation in Earthquake Resistant Clean Construction of Masoury Houses Dr. Amit Goval NITTR, Chd	C H B	Field Visit to Trimurty Aurum C-Scheme Jaipur, first gold rated green building by IGBC in Rajasthan Dr. Amit Goval NITTIR, Chd
THRUSDAY 19.10.2023	Energy consumption in Residential Buildings Dr. J.M. Mathur, MNIT Jaipur	The Energy-Saving Potential of Bamboo-based Materials Dr. Madhura Yadav, Professor & Dean, Faculty of Design, Manipal University Jaipur	R E A	Passive Strategies in Architectural Design Dr. Tarush Chandra, Expert: Urban Planning MNIT Jaipur
FRIDAY 20.10.2023	Simplified metrics and workflows for microclimate responsive urban buildings design Mr. Naga Vankata Sai Kumar, Expert: Energy Simulation Software, Environmental Performance and Design Lab (EPDL), Technion-Israel Institute of Technology	Biochar as construction material for sustainable buildings: From Production to Application Dr. Abbishek Sharma, Professor, Manipal University Jaipur	K	Group Discussion Valedictory Session

9. Attendance of the Event

*Please see the annexure no. 1

10. Weblink

11. Event Coordinators

- Dr. Amit Goyal, NITTTR Chandigarh
- Prof. Sunanda Kapoor (Professor & Head, SA&D)
- Dr. Ashutosh Saini (Assistant Professor, SA&D)

Prof. (Dr). Sunanda Kapoor Head, Architecture (SA&D, MUJ)

Dr. Ashutosh Saini Assistant Professor

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REGISTRATION & ATTENDANCE SHEET STC ON "ENERGY EFFICIENT AND INNOVATIVE BUILDING CONSTRUCTION PRACTICES" CIVIL ENGINEERING DEPARTMENT FROM 16th to 20th OCTOBER, 2023 NITTTR CHANDIGARH Course Coordinator: Dr. Amit Goyal Venue: MANIPAL UNIVERSITY JAIPUR



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NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING & RESEARCH

An ISO-9001:2000 Certified Institute

(Ministry of Education, Govt of India)

SECTOR 26, CHANDIGARH 160 019

Ref: NITTTR/2023-24

Dated: 18.09.2023

To

Honorable Vice Chancellor / Worthy Registrar

Manipal University, Jaipur

Subject: Short Term Programme on "Energy efficient and innovative building

construction practices" from 09-13 October, 2023.

Dear Sir/Madam,

We are organizing the above cited STC for the faculty of Engineering Colleges and

Polytechnics of all northern states of the country w.e.f. 09-13 October, 2023. The above

mentioned programme is being organized with the prime to acquaint the participants about

the energy efficient innovative construction practices.

The importance of energy efficient and green buildings has assumed great urgency today. In

light of fast depleting energy resources, energy scarcity and increasing environmental

pollution, innovative ways to cut down energy consumption are necessary. The construction

industry is one of the largest energy consuming sectors. In modern buildings significant

amounts of energy are also consumed to keep the building environment comfortable.

Estimates suggest that about 20-25 percent of the total energy demand is due to

manufacturing materials required in the building sector, while another 15 percent goes into

the running needs of the building like lighting, air-conditioning, room heating and ventilation

etc.

In view of the global energy crisis and increasing energy demand is expected to continue and

apart from possible end-use restrictions, energy efficiency and energy management is

essentially required.

As Manipal University, Jaipur is a renowned university and Department of Architecture is

one of the emerging department of the institute so, we want to conduct the above mentioned programme in collaboration of your organisation. We expect the following co-operation from

your institution.

• Arrangement of one lecture hall equipped with facilities like LCD Projector, Computer and sound system for Video films show.

• Field study visit to nearby educational places or site. Charges /fuel charges to the institute bus from the institute for the field visit will be paid by NITTTR,

Chandigarh

• Arrangement of few lecturers on the topics marked in the time table (send you in few days). Honorarium and TA to the experts will be paid by NITTTR,

Chandigarh

• Arrangement of one guest house rooms for NITTTR faculty from **08-13**

November, 2023 at your College/ Guest House.

• Stationary to the course participants for the programme will be provided by

NITTTR, Chandigarh.

• As per the decision of the Institute, Rs.118/- (Rs. 100/- +18% GST) per

participant will be charged from all participants.

• Honorarium of Rs. 2500/- to coordinator and Rs. 1500/- to supporting staff will be

provided by NITTTR, Chandigarh

No working lunch and tea will be provided to the participants by NITTTR,

Chandigarh.

As it is a inter-disciplinary programme so we expect a minimum number of participants

for the programme may be 30. The details of the programme will be shared on receiving

letter of acceptance from your end through the coordinators.

We will highly appreciate your timely communication and approval for the above mentioned

course.

(Dr. Amit Goyal) Course Coordinator

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CC:

Dr. Sunanda Kapoor, Department of Architecture, Manipal University





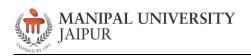
FACULTY OF DESIGN SCHOOL OF ARCHITECTURE AND DESIGN

Short Term Programme

on

Energy Efficient and Innovative Construction Practices

Hybrid Mode 16th to 20th October 2023





Index

1.	Introduction	. 3
2.	Objectives of the STP	. 3
3.	Beneficiaries of the Event	. 3
4.	Details of the Guests	. 3
5.	Brief Description of the Event	. 4
6.	Brochure of the Event	. 4
7.	Photographs of the Event	. 5
8.	Schedule of the Event	. 7
9.	Attendance of the Event	. 7
10.	Weblink	. 7
11.	Event Coordinators	. 7



1. Introduction

The importance of energy efficient and green buildings has assumed great urgency today. In light of fast depleting energy resources, energy scarcity and increasing environmental pollution, innovative ways to cut down energy consumption are necessary. The construction industry is one of the largest energy consuming sectors. In modern buildings significant amounts of energy are also consumed to keep the building environment comfortable. Estimates suggest that about 20-25 percent of the total energy demand is due to manufacturing materials required in the building sector, while another 15 percent goes into the running needs of the building like lighting, air-conditioning, room heating and ventilation etc. Increased development of housing and commercial buildings has imposed immense pressure on our dwindling energy sources. The availability of energy is limited and known resources of energy are exhausting fast. Therefore, energy efficiency is assuming importance in different sectors. In view of the global energy crisis and increasing energy demand is expected to continue and apart from possible end-use restrictions, energy efficiency and energy management is essentially required.

2. Objectives of the STP

The objective of STP was to discuss on the below mentioned aspects related to energy efficient and green buildings-

- ➤ Basic Knowledge of Energy Efficient Buildings
- ➤ Planning and Preparedness
- ➤ Solar Passive Architecture
- > Vaastu Shastra Myths and Realities
- ➤ Innovative Practices/Research in Green Buildings
- ➤ Green Buildings-Design and Construction
- > Energy efficiency in old traditional buildings
- ➤ Solar Devices and their Utilization

3. Beneficiaries of the Event

- Academicians
- Research Scholars
- PG Students (Architecture, Civil, Management and Allied Fields)

4. Details of the Guests

- Dr. Amit Goyal NITTTR, Chandigarh
- Dr. Sanjay Sharma NITTTR, Chandigarh
- Shashwat Singh, Energy Simulation Expert Northumbria University, UK
- Dr. J.M. Mathur, MNIT Jaipur
- Dileep Singh, BoG, ASHRAE



- Ar. Bibhu K. Nayak, Associate Professor, Manipal University Jaipur
- Dr. Madhura Yadav, Professor & Dean, Faculty of Design, Manipal University Jaipur
- Dr. Abhishek Sharma, Professor, Manipal University Jaipur

5. Brief Description of the Event

School of Architecture & Design, Manipal University Jaipur organized a five-day Short-Term Programme titled "Energy Efficient and Innovative Construction Practices" in association with NITTR, Chandigarh. The STP aimed to introduce various Energy Efficient practices adopted in Building Construction. The Short-Term Programme was scheduled from 16th to 20th October 2023 in Hybrid mode. This event also helped to enhance the existing knowledge of various teachers and students to cater the new innovations in the field of architecture and design. The event received good feedback from faculty members and all the participants.

6. Brochure of the Event



ABOUT MANIPAL UNIVERSITY

Manipal University Jaipur (MUJ) has redefined academic excellence in the region and inspires students of all disciplines to learn and innovate through hands on practical experience. Manipal University Jaipur (MUJ) was launched in 2011 on an invitation from the Government of Rajasthan, as a self-financed State University. MUJ has redefined academic excellence in the region, with the Manipal way of learning; one that inspires students of all disciplines to learn and innovate through hands on practical experience. Jaipur, being one of the fastest growing othes in India, has increasing demand for quality higher education in the region. Following an allotment of 122 Acres of land at Dehmi Kalan village near Jaipur, the permanent campus of the University has come up at a fast pace and is by far one of the best campuses in the region. The multi-disciplinary university offers career-oriented courses at all levels, i.e., UG, PG and doctoral and across diverse streams, including Engineering, Architecture, Planning, Fashion Design, Interior Design, Fine Arts, Hospitality, Humanities, Journalism and Mass Communication, Basic Sciences, Law, Commerce, Computer Applications, Management, etc. Some PG programmes are also available in the research mode. The university has been granted the ATAL Incubation Centre, funded by Niti Aayog, Government of India.

ORGANISING COMMITTEE

Coordinator

Prof. (Dr.) Sunanda Kapoor, Head , School of Architecture & Design, Manipal University Jaipur

Dr. Ashutosh Saini, Assistant Professor, School of Architecture & Design, Manipal University Jaipur

Contact: ashutosh.saini@jaipur.manipal.edu

ABOUT NITTTR, CHANDIGARH

Since its inception in 1967, NITTTR (formerly TTTI) Chandigarh has made rapid strides in the areas of engineering and technology and emerging areas like computer, educational technology, entrepreneurship development, maral development, industry-institute interaction and educational management. Presently, the institute conducts more than 400 short-term training programmes annually for polytechnics and engineering colleges teachers, professionals and managers of industries. The institute also conducts a large number of AICTE sponsored Summer and Winter Schoolis every year. The institute offers six postgraduate programmes in engineering and engineering education through regular and modular modes. In addition to education and training programmes, the institute renders extension services to Polytechnics, undertakes research and development projects and develops print and non-print instructional material.

ABOUT SCHOOL OF ARCHITECTURE AND DESIGN, FACULTY of DESIGN, MUJ

School of Architecture & Design, Jaipur encapsulates the philosophy of creating innovators, empowered with the knowledge for the creation of a dynamic world, pulsating with intellectual acuty and striving for the utopia of a prosperous biosphere for all. The School strives to provide world-class architectural education by coupling state-of-art facilities with a dedicated and experienced faculty team and student-centric academic practices. Also, owing to the location, we have a vantage point in understanding the state of Rajasthan, which is one of the richest states in India in terms of its culture and heritage. The School intends to create an archive of heritage documentation for the state and become forerunners in the conservation of cultural

landscape and heritage of the region. ADDRESS FOR GORRESSONDENCE Dr. Amit Gourd, Assistant Professor

Dr. Amit Goyal, Assistant Professor
Department of Civil Engineering
National Institute of Technical Teachers' Training
and Research, Sector 26, Chandigarh 160 019
Tel: 0172-2759656, Mobile No-09417569559
Fax: (0172) 2793893, 2791366
E-mail: amitgoyalamit33366
B-mail: amitgoyalamit323666
amitgoyalamit4grediffinail.com.

SHORT TERM PROGRAMME ON ENERGY EFFICIENT AND INNOVATIVE CONSTRUCTION

nnovative construction practices

From- 16-20 October, 2023



School of Architecture & Design Faculty of Design

MUJ-TEC
Manipal University Jaipur
[University under Section 2(f) of UGC Act]
Dehmi Kalan, Off Jaipur-Ajmer Expressway,
Jaipur, Rajasthan

In Collaboration with



National Institute of
Technical Teachers' Training and Research
An 1505-001-2000 Certified Emitters
Ministry of Human Resource Development, Govt of India)

Venue-Manipal University Jaipur







INTRODUCTION AND OBJECTIVES

The importance of energy efficient and green buildings has assumed great urgency today. In light of fast depleting energy resources, energy scarcity and increasing environmental pollution resources, energy scarcity and increasing environmental pollution, innovative ways to cut down energy consumption are necessary. The construction industry is one of the largest energy consuming sectors. In modern buildings significant amounts of energy are also consumed to keep the building environment comfortable. Estimates suggest that about 20-25 percent of the total energy demand is due to manufacturing materials required in the building sector, while another 15 percent goes into the running needs of the building like lighting air-conditioning room heating and the building like lighting air-conditioning, room heating and ventilation etc. Increased development of housing and commercial ventiation etc. Increased development of housing and commercial buildings has imposed immense pressure on our dwindling energy sources. The availability of energy is limited and known resources of energy are exhausting fast. Therefore, energy efficiency is assuming importance in different sectors. In view of the global energy crisis and increasing energy demand is expected to continue and apart from possible end-use restrictions, energy efficiency and energy management is essentially required.

COURSE CONTENTS

- Basic Knowledge of Energy Efficient Buildings
- Planning and Preparedness Solar Passive Architecture
- Vastu Shatra Myths and Realities
- Innovative Practices/Research in Green Buildings
- Green buildings-Design and Construction Energy efficiency in old traditional buildings
- > Solar Devices and their Utilization

COORDINATORS

Programme Coordinator : Dr. Amit Goyal, Assistant Professor, Department of Civil Engineering, NITTTR, Chandigarh Dr. Sanjay Sharma, Professor, Department of Civil Engineering. NITTTR, Chandigarh

Prof. (Dr.) Sunanda Kapoor, Head, School of Architecture 8 Design, Manipal University Jaipur

Contact: sunanda.kapoor@aipur.manipal.edu

Co-Coordinator
Dr. Ashutosh Saini, Assistant Professor, School of Architecture & Design, Manipal University Jaipur

Contact: a shutosh saini@jaipur.manipal.edu

METHODOLOGY

integrating theory classes, practicals, field visits, audio-visual presentations and educational video films shows. In order to make the programme participatory, group discussions and project formulations exercises will also be done. Besides the institute faculty, experts will be invited from research and development organizations, science and technology departments, working on green and energy efficient buildings.

TARGET GROUP

Faculty members of all Engineering Disciplines, Architectural, Management and Humanities streams working in an AICTE approved engineering college/institute can participate in this programme. These faculty members have to get themselves sponsored from the Principal/Head of Institution and register themselves on NITTTR Chandigarh Website at www.nitttrchd.ac.in

[Note: Seats are limited, please get your admission confirmed in advance).

LAST DATE

Last date of registration for participation in this training programme is 15 October, 2023.

Fee of Rs 118/- is chargeable from the participants engineering college teachers whose names are sponsored by the competent authority (Principal / Director). Click on the following link to register

https://fdp.nitttrehd.ac.in/backingup/

After successful registration, email the registration form and payment receipt to <u>amitgovalamit23@gmail.com</u>

TA/DA

3 tier AC train travel will be paid to the participants of Govt Institutes by NITTTR, Chandigarh.

Accompidation to the participants shall be provided on

VENUE

Room No. 201, Lecture Hall, Second Floor, School of Architecture and Design, Dome Building, Manipal University

SHORT TERM PROGRAMME

Energy Efficient and Innovative Construction Practices

Faculty of Design, Manipal University Jaipur

16-20 October, 2023

Age:	Sex: Male	Female [
Qualification:		
-		-

Experience (Teaching/Industrial/Others):

Designation:

Institution

Phone No. with STD Code

Whether Accommodation Needed:

Yes 🗆

Signature of the Applicant

Recommendation of the Principal/Head of the Sponsoring Institute (Signature with seal) [Last Date of Submission of Application is 15 October, 2023]

Photographs of the Event 7.



Figure 1: Inauguration Ceremony



Figure 3: Registrations



Figure 2: Lamp Lighting by Dr. Sunanda Kapoor



Figure 4: Introduction to the STP









Figure 5: Expert Lecture by Dr. J.M. Mathur



Figure 9: Expert Lecture by Dr. Madhura Yadav



Figure 6: Introduction to STP by Dr. Madhura



Figure 10: Expert Talk by Ar. Sneh Singh



Figure 7: Expert Talk by Dr. Subhash Devrath



Figure 11: Expert Lecture by Dr. Abhishek



Figure 8: Felicitation of Dr. Amit Goyal



Figure 12: Group Photograph post STP



Schedule of the Event 8.

Short Term Programme on 'Energy Efficient and Innovative Construction Practices' From 16-20 October 2023 at Manipal University Jaipur

Day/Date	SESSION - I	SESSION - II	1.00 to	SESSION – III
.00	10.00 am to 11.30 am	11.30 am to 1.00 pm	2.30 pm	2.30 pm to 4.00 pm
Monday 16.10.2023	Registration / Inauguration	Innovation in Clean Construction of Masonry Houses Dr. Amit Goyal NITTIR, Chd		Bioinspired building facade design Shashwat Singh, Energy Simulation Expert Northumbria University. UK
TUESDAY 17.10.2023	Design in Motion Ar. Bibbu K. Nayak, Associate Professor, Manipal University Jaipur	Energy Efficiency HVAC system Expert in efficient HVAC systems Dileep Singh, BoG, The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)	L U N	Sustainable Material for Net Zero Arun Jain, Energy expert in Efficient Building techniques BoG The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
WEDNESDAY 18.10.2023	Building Materials for Green construction Dr. Sanjay Sharma NITTTR, Chd	New Innovation in Earthquake Resistant Clean Construction of Masonry Houses Dr. Amit Goval NITTIR, Chd	C H B	Field Visit to Trimurty Aurum C-Scheme Jaipur, first gold rated green building by IGBC in Rajasthan Dr. Amit Goval NITTTR, Chd
THRUSDAY 19.10.2023	Energy consumption in Residential Buildings Dr. J.M. Mathur, MNIT Jaipur	The Energy-Saving Potential of Bamboo-based Materials Dr. Madhura Yadav, Professor & Dean, Faculty of Design, Manipal University Jaipur	R E A	Passive Strategies in Architectural Design Dr. Tarush Chandra, Expert: Utban Planning MNIT Jaipur
FRIDAY 20.10.2023	Simplified metrics and workflows for microclimate responsive urban buildings design Mr. Naga Vankata Sai Kumar, Expert Energy Simulation Software, Environmental Performance and Design Lab (EPDL), Technion-Israel Institute of Technology	Biochar as construction material for sustainable buildings: From Production to Application Dr. Abhishek Sharma, Professor, Manipal University Jaipur	K	Group Discussion Valedictory Session

Attendance of the Event 9.

*Please see the annexure no. 1

10. Weblink

11. **Event Coordinators**

- Dr. Amit Goyal, NITTTR Chandigarh
- Prof. Sunanda Kapoor (Professor & Head, SA&D)
- Dr. Ashutosh Saini (Assistant Professor, SA&D)

Prof. (Dr). Sunanda Kapoor Head, Architecture (SA&D, MUJ)

Dr. Ashutosh Saini **Assistant Professor**

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REGISTRATION & ATTENDANCE SHEET STC ON "ENERGY EFFICIENT AND INNOVATIVE BUILDING CONSTRUCTION PRACTICES" CIVIL ENGINEERING DEPARTMENT FROM 16th to 20th OCTOBER, 2023 NITTTR CHANDIGARH

Course Coordinator: Dr. Amit Goyal Venue: MANIPAL UNIVERSITY JAIPUR





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Unnat Bharat Abhiyan (UBA)

- MUJ is selected under Unnat Bharat Abhiyan (a flagship program of MHRD, Government of India) with a vision to involve professional and other higher educational institutions of the country to enable village cluster towards achievement sustainable development through Gram Panchayat(s).
- ➤ Under this programme, Near by villages (Dehmi Kalan, Dehmi Khurd, Begus, Theekirya, Sanjhariya etc.) are adopted by MUJ for upliftment.





MUJ: Awards & Achievements



GRIHA AWARD

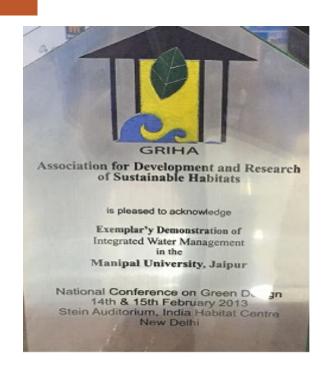
First University in the country to be awarded GRIHA award for integrated Water Management.



LEED INDIA PLATINUM Award.

Manipal University has been conferred with this award being the first campus in the country to do so for Green Building.

Based on review done by IGBC on the credits submitted by the university, which were evaluated against the rating system for certifying Green Buildings.



GRIHA FIVE STAR RATING

The first University in the country to receive this award for Energy Conservation and Environment Friendly Design.





MUJ: Awards & Achievements



'Swachhta' Ranking Award 2017 by **Ministry of HRD**



MUJ: SALIENT FEATURES OF GREEN & ENERGY EFFICIENT INITIATIVES

- •The University is a 'Zero Discharge Campus', with Rain Water Harvesting, Waste water recycling and reuse and Ground Water recharging in place. Water conservation through campus wide drains and ponds for water collection.
- •Solar Power Plant of 1.5 MWp is installed on roof-top of the buildings in the Campus one of the largest roof-top Solar Power Plant in India for any Private University.
- Sewage treatment plants on both sides of the campus.
- •All buildings are optimally designed to maximize daylight and minimize heat gains.
- Campus greening through extensive tree plantation.
- •The University has a Bio-Gas generation system using Kitchen waste.











Infrastructure

Type of Buildings	Number
a. Academic	02
b Administrative	01
c Residential	01
d Hostels	11
e Commercial	30
f. Food court	02
g. Workshop	02











Academic Building



Academic Block 1

Number of Floors: G+3

Classrooms: 57

Laboratories: 46

Conference Rooms: 05

Faculty Cabins: 85

Faculty workstations: 104





Academic Building



Academic Block 2

Number of Floors: G+3

Classrooms: 89

Laboratories: 40

Conference Rooms: 09

Faculty Cabins: 104

Faculty workstations: 172





Administrative Building



Admin Building

Number of Floors: G+3

Offices / cabins: 80

Classroom:32

Conference Rooms:05





Hostel & Residential



Boys Hostels : 7 Room Type :Single Seater – 167
Twin Sharing- 2143

Name: B-1 & G -1Block Number of Floors: 2 Floors Accommodations: 45





Girls Hostels : 4 Room Type :Single Seater – 47
Twin Sharing- 631





Commercial

Block	Floor	Firm name			
B1	Ground Floor	Coffee House			
B1	Ground Floor	Devyani International Ltd/Dialogue the café			
B1	Ground Floor	Chatkara Coffee House			
B1	Ground Floor	South indian food			
B1	Ground Floor	GOUTTAM SHOPPING CENTRE			
B1	Ground Floor	Dev Pari tour &Travels			
B1	Ground Floor	Jaipur car Taxi			
B1	First Floor	Indian Rasoi			
G1	Ground Floor	Indian Rasoi			
G1	Ground Floor	Jaipur Dairy			
G1	Ground Floor	Kabab Nation			
G1	Ground Floor	Sharma Communcation			
G1	Ground Floor	Poonam Creation			









Commercial

Block	Floor	Firm name			
G1	Ground Floor	Pink City Super store			
G1 First Floor		Macro Integared services			
G1	First Floor	Delight Enterprizes			
G1	First Floor	M/s Mohan's Scissors & Cut			
G2	Ground Floor	Servizone Integrated Services Pvt Ltd			
B4	Ground Floor	Chilling Point			
B4	Ground Floor	Tea tradition Hospitality Pvt.Ltd			
B4	Ground Floor	Dev Sweet & Snacks			
B4	Ground Floor	Parth Publishers			
G4	Ground Floor	Neha Enterprizes			
G4	Ground Floor				
G4	Ground Floor	Servizone Integrated Services Pvt Ltd			
Food court	First Floor	Green Enterprizes			
B1	First Floor	FIRST ORDER HOSPITALITY SERVICES			
В3	Ground Floor	Affordable medical store			









	MUJ Toilet Details										
SI.	Decembris		EWC			Washbasin					Urinals
No.	Description	Gents	Ladies	Disabled	Total	Gents	Ladies	Disabled	Common	Total	Gents
1	Academic Block 1	64	88	16	168	48	64	16		128	160
2	Admin Block	25	41	8	74	25	25	8	3	61	82
3	Food Court	10	13	-	23	10	12	-	67	89	12
4	Academic Block 2	88	105	15	208	72	74	15		161	140
5	Workshop	3	4		7	2	4			6	4
6	Security Block - VIP Gate	1			1	1				1	-
	Security Block -										
7	Student Gate	2	2		4	1	2			3	1
8	Estate Office	2	2		4	2	2			4	2
9	Dispensary	4	3		7	4	3			7	2
	Total	199	258	39	496	165	186	39	70	460	403





Disabled-Friendly Toilets

Number of Restrooms in University Campus Admin Academic block 1 Academic Block 2 **Building 1 Ground Floor** 4 4 **1st Floor** 4 4 **2nd Floor** 4 4 3 **3rd Floor** 4 16 Total 15 80





Adequacy of Toilets - MUJ						
Description	Unit	Qty.	Student strength	Ratio		
Male - EWC & Urinals	Nos.	602	6178	1:10		
Female - EWC	Nos.	258	2322	1:9		
Disabled	Nos.	39				





Adequacy of Toilets - HOSTEL

Name	Number of Toilet
B-1	474
B-2	430
B-3	208
B-4	242
B-5	188
B-6	276
B-7	332
G-1	334
G-2	163
G-3	174
G-4	173
Commerical Area B-1	6
Commerical Area G-1	6
New Food Court	6
Total	3012





Availability of Running Water

University Campus & Hostel: Availability (24x7)

Name	Taps For Handwash	RO Water Dispensers
Academic Block 1	131	16
Academic Block 2	161	15
Admin Building 1	57	8
Workshop	08	2
Food Court	83	10
Hostel	3012	212





Overall Quality of Toilets – Type of Equipment

Features : Equipment & Maintenance Schedule

- Jaguar Bath Fittings
- 2. Guaranteed treatment of leakage
- 3. 100% temper proof and leak proof fittings
- Automated sensor activated taps and Pressmatic button taps for saving water.
- 5. Cleaned twice a day





Overall Quality of Toilets – Type of Equipment











Garbage In Campus, Hostel Areas, Frequency & Procedure of Disposal

University strives for efficient house-keeping and had incurred an expense of Rs. 3.83 cr. during

2017-18 and proposes to spend Rs. 4.51 cr. during the current financial year.

Major features ; Garbage Disposal

- ➤ Dustbin in all common area (Corridors, Walk ways, Gardens, Cafe, Mess)
- ➤ Dustbin in all Classrooms, Conference Halls, Laboratories, Offices, Faculty Cabins, Faculty workstations, Hostel Rooms, Hostel Common Rooms
- Dustbin in all Security Guards' rooms, Hostel Kitchens, Vendors, Shops, Visitors' waiting room, Food Courts. Garbage disposed twice daily.





Garbage in Campus, Hostel Areas, Frequency & Procedure of Disposal

Dustbins Placed At Strategic Places







Solid Waste Management

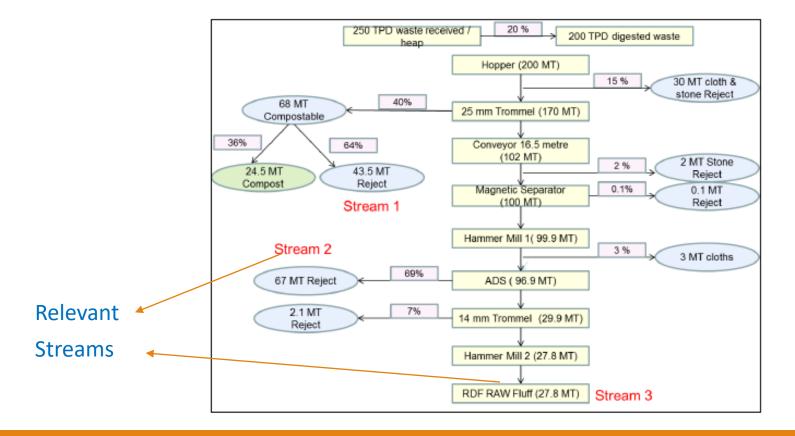
- 1. Organic waste from kitchen and horticulture used in **Biogas Plant** which supplies fuel to Food Court.
- 2. Recyclable solid waste collected separately
- 3. Pilot project with BEIL (Bharuch Enviro Infrastructure Ltd) for converting MSW to Fuel / Energy.
- 4. Bio Medical waste is collected separately and Disposed
- Papers printed on one side are not discarded but reused.





BEIL Project: MSW to Fuel/Energy

Innovative Technology Used for Solid and Liquid Waste Disposal & Management

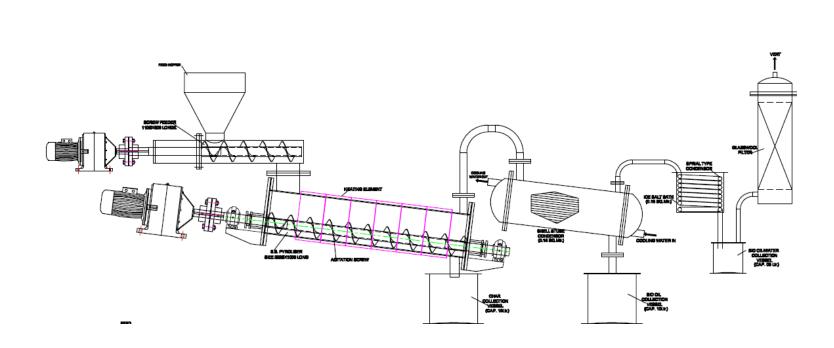






Project Facility

Innovative Technology Used for Solid and Liquid Waste Disposal & Management









Research & Consultancy in Waste Management

Innovative Technology Used for Solid and Liquid Waste Disposal & Management

MUJ assisting <u>Greater Visakhapatnam Municipal Corporation (GVMC)</u>, of Andhra Pradesh under SBM program, supported by USAID/WSUP UK, this includes

- a) Solid Waste Management in Visakhapatnam city
- b) Retrofitting of public toilets
- c) Preparing DPRs for public & community toilets
- d) Assisting GVMC in FSM (Faecal Sludge Management)
- e) Assisting in OSS (On Site Sanitation systems), Underground sewerage system, septic tanks etc.
- f) Preparing manuals for Engineers





Research & Consultancy in Waste Management

Innovative Technology Used for Solid and Liquid Waste Disposal & Management

- ➤ MUJ is assisting towns & cities under SBM in FSM (Faecal Sludge Management) funded by BMGF (Bill & Melinda Gates Foundation),contracted by Athena Infonomics India.
- ➤ MUJ is authorized to conduct MOOC/online course on FSM by BMGF.
- >MUJ to conduct awareness programs in FSM in academic institutions across towns & cities by BMGF.
- ➤MUJ is part of consultancy team to review mid term progress in towns & cities across Rajasthan on Water & Sanitation, funded by ADB & coordinated by RUIDP.





Food Waste

We are generating biogas by using Organic solid food waste and main part of a biogas system is a digester. Inside this tank, bacteria convert food waste into methane gas through the process of anaerobic digestion (35 kg of methane gas produced from 500 kg of food waste)







Solid Waste: Bio Gas Plant









In-House Compost Preparation











Liquid Waste: Management

STP – 4Nos / 1850 KLD







Rain Water Harvesting

- Rain Water Harvesting Ponds 04 Nos / 16625 KL
- Rain Water Harvesting UGR 06 Nos / 1415 KL
- No. of Bore-wells: 09











Liquid Waste Management

- Zero Water Discharge Campus (Water Recycling)
- STP Treated Water Being Used For Flushing & Horticulture
- Sludge From STP Used As Manure For Landscaping. Reusing the debris waste for the pathways and road areas base compaction
- Electronic Sensor Based Urinals





Liquid Waste Management:

Sewage Waste : Sewage treatment removes contaminants from wastewater, which includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safer treated water (it has been used for flushing and gardening). We are producing 1400KL treated water per day.

Overall storage capacity: Under Ground Reservoir

Raw Water - 2936 KL

Treated Water - 1458 KL

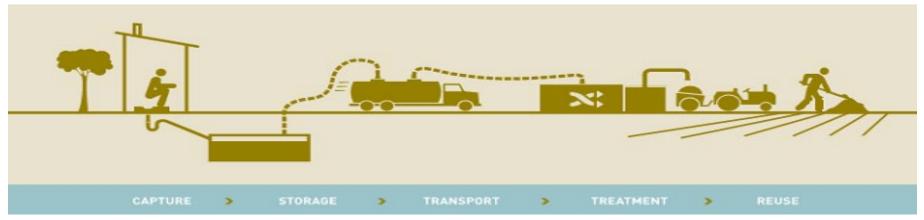
Water Purifiers RO - 277 Nos. 80 Litre Capacity

Water Storage, pipe line & Water purifier.





Journey in Sanitation Sector MUJ



Host institute



In Association and Supported By

Manipal University Jaipur (MUJ) Dehmikalan, Jaipur-303007, Rajasthan, India mujfsm-nss.org





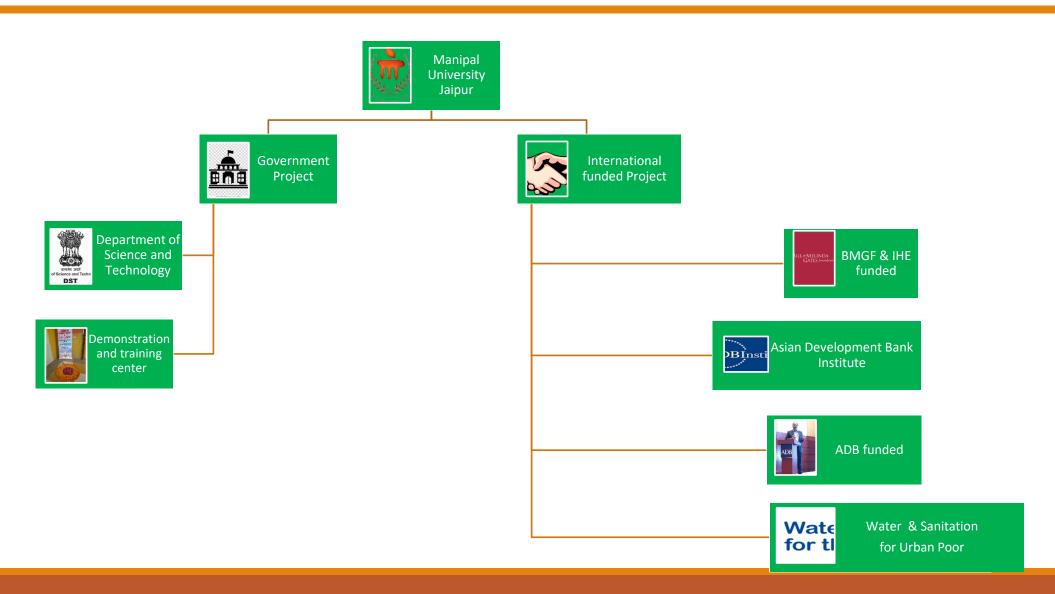
UNESCO/IHE DELFT

and

BILL & MELINDA GATES FOUNDATION











Manipal University Jaipur, part of the Global Sanitation Learning Alliance a project by UNESCO-IHE & Bill & Melinda Gates Foundation

MUJ received an approved grant of 363,000=00 USD (2.6 Crores) from Bill & Melinda Gates Foundation through top Global Institute, IHE Delft Netherlands to run

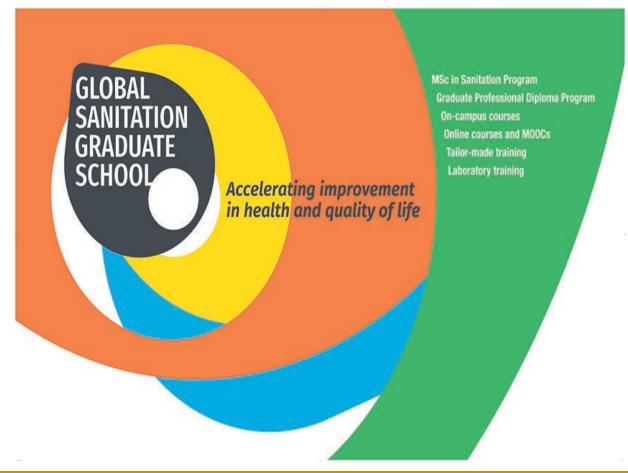
- a) On Line course in Non Sewered sanitation
- b) Diploma Courses in Non Sewered Sanitation
- c) MTech in Non Sewered Sanitation

Principal Investigator : Prof A D Vyas

Co PI : Dr Meena Kumari Sharma

Dr Monika Sogani Mr Sagar Gupta

Duration: Aug 2019- Dec 2023







S.No.	Lead/Principal Investigator (PI)	Co-PI (If any)	Title of Project	Funding Agency	Sanction Order/Reference	Sanction Date/Project Period	Amount of Financial Assistance Received in INR	Current Status
1	Dr Monika Sogani	Prof A D Vyas, Meena Kumari, Sagar Gupta	Delawas STP & its impact on socio economic conditions	Asian Development Bank Institute, Japan		May 2018	3,35,000	Approved 5000 USD
2	Prof A D Vyas	Dr. Monika Sogani, Dr Meena Kumari Sharma and Mr Sagar Gupta	Short term actions in FSM, awareness in academic institutions	UNESCO/IHE Delft, Netherlands and Bill and Melinda Gates Foundation		Feb18-Jun 18	16,00,000	Approval Granted for 50,000 USD in coordination with CDD (MUJ to receive 25000 USD)
3	Dr. Meena Kumari Sharma	Prof. A.D. Vyas & Mr. Sagar Gupta	Performance of low cost community based onsite sanitation system in Ambient Environment	DST, Rajasthan	P.8(9) V.PRO./S.S.D./201 6/PART-1/3809	Jan 18-Mar 18	21,21,000	Approved, Granted
4	Prof. A D Vyas	Dr. Meena Kumari Sharma, Dr Monika Sogani, Mr. Sagar Gupta	On line course on Faecal Sludge Management	UNESCO/IHE, Delft, Netherlands and Bill and Melinda Gates		Dec-17	10,00,000	Approved, Granted for 15000 USD





S.No	Lead/Principal Investigator (PI)	Co-PI (If any)	Title of Project	Funding Agency	Sanction Order/Reference	Sanction Date/Project Period	Amount of Financial Assistance Received in INR	Current Status
5	Dr Monika Sogani	Dr Meena Kumari Sharma & Prof. A. D. Vyas	Enhanced biodegradation of organic pollutants as well as micro- pollutants	Science and Engineering Research Board (SERB), DST, Govt. of India	ECR/2016/00027 1	2017-2020	30,09,600	Approved, Granted
6	Prof Lalita Ledwani,	Prof. A D Vyas, Dr Pushpendra Kr	Water sector Grant	Kurita Water Environment Fund, Japan		2015-2016	1,77,000	Approved, Granted for 300,000 YEN



S. No.	Funding Agency	Details	Amount (INR)	Duration	Status
1		Water /Sanitation & retrofitting of toilets in Visakhapatnam, AP. The major focus was to prepare guidelines for government of Andhra Pradesh on rehabilitation of various community toilets. Also prepared a detailed project report on different aspects of toilet designs, models which are defunct, preparing a manual for engineers. This was as per SBM guidelines.		6 months	Completed, A D Vyas & Dr Gaurav Sancheti
2	OFDA/USAID (United States Agency for International Development), through MSI,USA (Sudan Humaid)	documents, reviewing M & E tools, training of trainers of IOM participants for Darfur area	25 lacs	Feb,2015 to April,2016	Completed, A D Vyas
3		Feasibility Study for an urban water supply and sanitation program in small and medium towns in Ethiopia, Africa.		June,2014 to Nov, 2014	Completed, A D Vyas
4	Athena Infocom via Bill & Melinda Gates Foundation	Non Sewered Sanitation/Faecal Sludge Management studies in various towns of India.	30 Lacs	Indefinite	On Halt A D Vyas
5	RUIDP (Rajasthan Urban	Study of Water & Sanitation in 15 towns of Rajasthan, India. The focus was on mid-term review of water & sanitation interventions done by Asian Development Bank in coordination with RUIDP & the impact of these interventions on end users & beneficiaries.	50 lacs	March 16-July 2017	On Halt A D Vyas & Team Civil







MANIPAL UNIVERSITY

INESCO

IHE

Online Learning Course

 \mathbf{on}

Faecal Sludge Management

Supported by a grant from **Bill and Melinda Gates Foundation**



Scholarship worth **Rs. 125,000** available for **25** best participants* Target Audience: Student, Professional & Researcher

Highlights:

- 1. Six well defined modules
- 2. Delivered by esteemed experts
- 3. Online interaction with experts



REGISTER NOW! at

http://mujfsm-nss.org/

*Contact: +91 7229964243

contact@mujfsm-nss.org www.mujfsm-nss.org **Department of Civil Engineering**

Manipal University Jaipur VPO Dehmikalan, Jaipur, Rajasthan 303007, India





ONLINE COURSE ON FSM

☐ Conducted from 26th February to 6th April, 2018, totally free of cost,
☐ Target audience was at least 250 students, practitioners, corporate staff, ULB staff, JMC & so on.
☐ Total 6 weeks course with 6 detailed modules, around 50 lectures.
☐ Total 362 students & participants registered for the course mainly from India, Bangladesh, Nepal,
Pakistan, Uganda, Tanzania, Singapore & so on.
□ 123 completed the full course that is 34 % of total registered.
☐ Scholarship granted to 28 toppers with 5000 INR based on online quizzes.
☐ Resource materials used from UNESCO/IHE, preparing local resource materials & case studies.
☐ Faculty, M. Tech. and B.Tech students worked on case studies from Jaipur in inaccessible areas
☐ Certificates were given to all participants who successfully completed the course





President MUJ Prof G K Prabhu with scholarship winners of FSM/OLC











Low-cost Community Based Onsite Sanitation Systems in Ambient Environment of Jaipur City

Lab-scale reactor in actual field condition









Creating awareness on fsm/non sewered sanitation- Academic institutions

Conducted half day workshop at lead academic institutions benefitting 800 students

IIT, Tirupati

MNIT Jaipur

MIT, Manipal

MUJ, Jaipur

S.R.M, Chennai

R.T.U, Kota

Poornima University, Jaipur

SKIT, Jaipur

IIT, Bombay

Three Days workshop/TOT for academia from various institutes ,25 participants

MIT, Manipal, Karnataka

SKIT, Jaipur

Poornima University, Jaipur

Manipal University Jaipur

Research Scholars, MTech/PhD





Quality of wastewater after treatment using anaerobic treatment plant







Pilot-scale reactor in Dehmi Kalan Village

















Garbage in Campus, Hostel Areas, Frequency & Procedure of Disposal

Collection frequency & clearance: Twice a day

Time: 9:00 AM & 4:00 PM











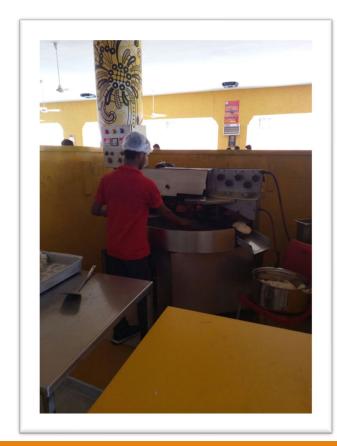
Mechanised Food Preparation: Summary

- Gloves, Head gears and Aprons are mandatory while cooking/serving food
- •Hand wash soap dispensers are placed in adequate numbers
- •Maximum possible usage of machines is practised.
- Chapatis are made with machine.
- •Machine choppers and food processors are used.
- Surprise Inspections are done to ensure adherence to hygiene measures
- Spacious & well ventilated kitchen
- Periodic Health Check up of Staff
- •Integrated Pest Control
- Well Trained & Groomed Staff
- Two Food Courts With 3600 Seating Capacity





Mechanised Food Preparation











Cooking Equipment











Availability Of Cooking Gas, Chimney Etc

- Biogas is used for cooking.
- 2. LPG through pipelines is used as back-up/Plan-B
- 3. Chimney and Powerful Exhaust fans are used.













Hostel Kitchen: Mess Sessions

Working Day's			
Session Name	Start Time	End Time	
Breakfast	07:30:00	09:30:00	
Lunch	12:00:00	14:30:00	
Hi Tea	17:00:00	18:00:00	
Dinner	19:30:00	21:30:00	
Holiday's			
Session Name	Start Time	End Time	
Breakfast	08:00:00	10:00:00	
Lunch	01:00:00	15:00:00	
HiTea	17:00:00	18:00:00	
Dinner	19:30:00	21:30:00	





Hostel Kitchen





Well Groomed & Trained Team





Automatic Sanitary Napkin Vending Machine Installed in All Girls Blocks.







Sanitary pads bin placed in all the girls rooms. In all the girls block.









Water Pots for Birds











Medical Centre / Waste disposal dustbin









Solar Tube installed for hot water







Water Pond behind B-2 Hostel







Water Aerator installed in all hostel block



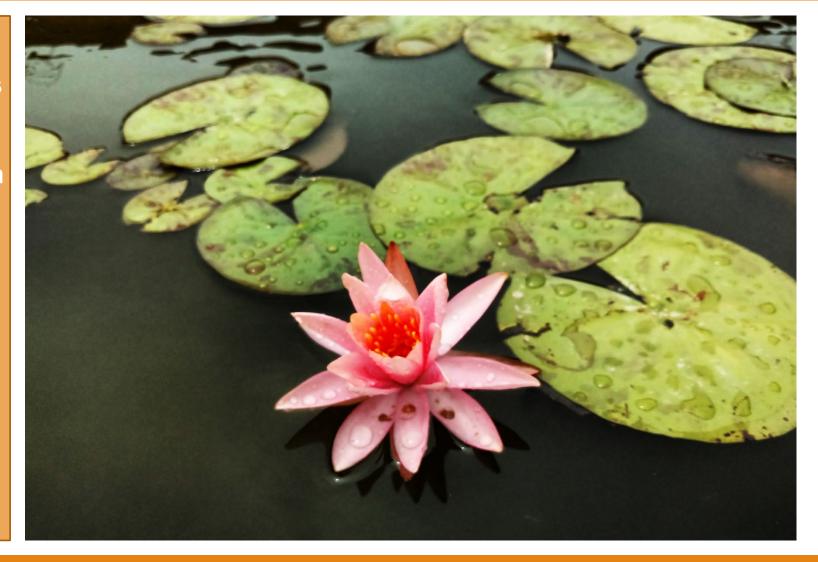






Manipal University Jaipur intends to take lead in practicing more of sustainable development through introducing

Forest Gardening, a holistic way of planting flora, which significantly enhances the Biodiversity besides attenuating the effects of climate change.







Green Campus

Salient Feature

- Drip Irrigation
- Sprinkler System
- > Green House
- Heat Resistance Building (External)
- Weather Proof External Paints



















Green area				
Description	Lloit	Qty.		Total
Description	Unit	MUJ	Hostel	Total
Area under green cover	Sq. Ft	335975.00	144139.42	480114.42

SI. No.	Name of the Trees
1	Delbergia Sisoo
2	Terminalia Arjuna
3	Allestonia
4	Bhuhania Balkenia
5	Silver Oak
6	Jcaranda memumsfolia
7	Chakresic
8	Karanj
9	Ficus Verins
10	Delonix Regia
11	Terminalia Chattapa
12	Azadrichta Indica

13	Dates palm
14	Lagerstromia Indica
15	Golden Bamboo
16	Ficus Benjamina
17	Mimusops elengi
18	Mango
19	Jamun
20	Terminalia mantaly
21	Cassia fistula
22	Lagerstromia flosreginae
23	Tecoma gouri chori

	100.72
	Name of the Plants
1.	Murraya Exotica
2	Nerum Oleander Dwarf
3	Vernonia Elengifolia
4	Clerodenrum inermie
5	Bougainvillea subra white
6	Euphorbia milli pink
7	Ficus panda
8	Alamanda dwarf - Yellow
9	Ixora dwarf - Pink
10	Plumeria alba
11	Cycas revoluta
12	Rhoeo discolour
13	Raphes palm





Extent of Greenery: Overview

- Lush Green Sprawling Campus
- Efforts are to keep every corner and walkway green
- Regular plantation drives in campus















Tree Plantation Drive













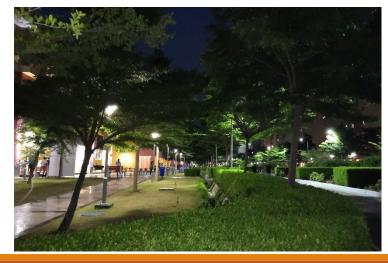
Maintenance; Garden, Lawns & Trees

Well maintained and healthy greenery

34 well trained horticulture staff members

Ever green climate friendly (arid zone) plants are given more preference

STP water used for horticulture











Overall Cleanliness In Institute

Green & Clean Campus: Highlights

- Drip Irrigation System
- Color & Orientation of The Building For Energy Conservation
- Double Glazed Glass Panel Windows
- 80 % of AC Load is met by Solar Power during office / peak timings
- LED Lighting in Whole Campus
- We are maintaining power factor from 0.972 to 0.995. For maintaining power factor above 0.95, we are getting rebate from JVVNL each month
- Timer Controlled External Area Lighting
- No Vehicles Inside the Campus
- Regular Pest Control & Fumigation with Environment Friendly substances
- Well trained House Keeping Staff 350 in all for effective and error free cleaning





Nearby Village, Locality / Area Taken Up For Promoting Swachhta

Names of places, villages: 6 Villages, Jaipur Railway Station and Mansarovar residential colony are taken up for promoting Swachhta

- Dehmi Kalan
- Dehmi Khurd
- Sanjharia
- Thikaria
- Begus
- Devaliya

Major initiatives taken :

- Tree Plantation
- Cleanliness Drives
- Awareness Camps
- Maintenance of School at Dehmi Kalan





<u>Clean Environment, Healthy Environment</u>' – Cleanliness Drive at Mansarovar, Jaipur









Cleanliness Drive at Jaipur Railway Station













Swachh Pakhwada celebrated at Manipal University Jaipur













Social activity - Cleanliness Drive in Dehmi Kalan Jaipur















Social activity - Created the toilet facility in Bagru Police station, Jaipur

















Cleanliness Drive in near by Villages







Awareness at Govt School Dehmi Khurd













MUJ students are actively involved in NGO GRAMIKSHA for their awareness programs and drives.

















Cleanliness & Health Awareness Drive at Begus, Jaipur

















Awareness Camps







Awareness Camps

Legal Aid



महिलाओं को सामाजिक एवं आर्थिक न्याय दिलाने में मदद



(कासं)। मणिपाल विश्वविद्यालय, जयपुर की ओर से विश्वविद्यालय परिसर के पास स्थित पानी की टंकी से सटी डिस्पेंसरी में लीगल एंड क्लिनिक की स्थापना की गई। क्लिनिक का उद्घाटन मुख्य अतिथि डिस्टिक्ट एवं सेशन जज, अशोक व्यास, विशिष्ट अतिथि एसीजेएम विनोद कुमार बागड़ी, दहमी कला ग्राम के सरपंच पृष्पेंद्र सिंह ने फीता काटकर किया। इस अवसर पर मुख्य अतिथि डिस्ट्रिक्ट एवं सेशन जज अशोक व्यास ने इस लीगल एंड क्लिनिक के माध्यम से गांव की महिलाओं, ग्रामीणों को सामाजिक एवं आर्थिक न्याय दिलाने के लिए सामंजस्य स्थापित करने की बात कही। साथ ही महिलाओं एवं ग्रामीणों का कार्यक्रम में आने का आभार जताया व मणिपाल विश्वविद्यालय, जयपुर की ओर से

इस लीगल एंड क्लिनिक को स्थापित करने पर प्रसन्नता व्यक्त की एवं धन्यवाद दिया। कार्यक्रम के आरंभ में विश्वविद्यालय के प्रो. प्रेसिडेंट, प्रो. एनएन.शर्मा, रजिस्ट्रार, प्रो. वंदना सहाग, डीन, फेकल्टी ऑफ आर्ट एंड लॉ. प्रो. मृदुल श्रीवास्तव ने अतिथियों का बुके देकर स्वागत किया एवं स्मृति चिन्ह देकर आभार जताया। साथ ही ग्रामीणों को सम्बोधित करते हुए इस लीगल एंड क्लिनक से जुड़कर लाभ लेने का आहवान किया। इस अवसर पर प्रो. एन.डी. माथुर, चीफ एडिमिनिस्ट्रेटिव ऑफिसर कर्नल विरेंद्र सिंह, हैड एच आर, देव आशीष, डिपार्टमेंट ऑफ लॉ की विभागाध्यक्ष, डॉ. विजय लक्ष्मी सहित विश्वविद्यालय के फेकल्टी सदस्य, डिपार्टमेंट ऑफ लॉ के फेकल्टी सदस्य एवं विद्यार्थी मौजुद थे।





विधिक सह सामाजिक अनुसंधान परियोजना (VSSAP)

(VSSAP)

Awareness Program-Substance Abuse and its ill-Effects on Society









Drug Awareness Camp







Awareness Camps









Renewable Energy

- Solar power: 1.50 mWp We have installed solar power panels of 1.5 mWp capacity in the campus and the same is being used for captive use.
- 2. Solar water heating: 550 KL per day











Renewable Energy Aerial View using Google Earth





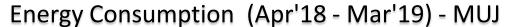


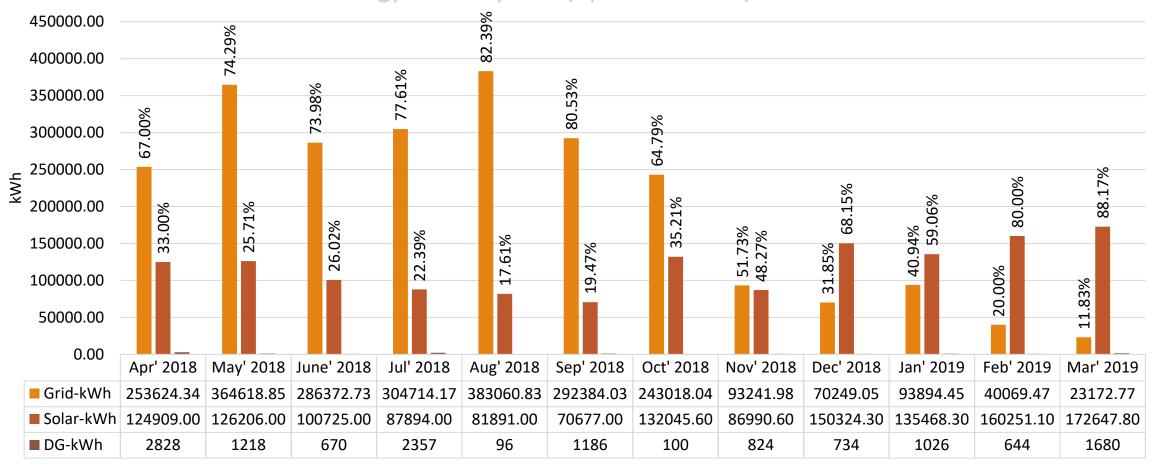
Energy Consumption 2018 - 19

	Sl. No.	Description	kWh		Total - kWh
			Academic	Hostel	TOLAT - KVVII
	1	Grid Consumption	2448420.71	8969612.29	11418033.00
	2	Solar Consumption	1430029.70		1430029.70
		Total	3878450.41	8969612.29	12848062.70









The avg. energy consumption of academic blocks through solar energy is 44.0% per month





Plantation drive at Bagru Police Station







Fire Fighting Training













Fire Control Room











Plantation On Roadside













Naye Bharat Ka Sankalp on September 11, 2017

On the Occasion of Pandit Deendayal Upadhyaya's Cenetenary Celebration and 125th Anniversary of Swami Vivekananda's Address at the Chicago World Parliament of Religions.

Theme "Young India, New India - A resurgent Nation: from Sankalp to Sidhhi"













Efficient and Alert Guards for ensuring Cleanliness

- > Round the clock security
- Total Campus Under Electronic Surveillance
- > Two tier security
- > Total 134 guards on 8 hourly duty.



Environment Friendly Measures

- Digital Management System(DMS)
- 2. All communication through Microsoft Outlook
- 3. Employee Management System (EMS)
- 4. Biometric Attendance for faculty members
- 5. Emphasis on online test modules
- 6. Collection and allotment of students' Open Elective Choices online.
- 7. Data collection of all kinds through Google Forms





1. Digital Management System(DMS)

- All modules starting from registration of students to conferring degree are online.
- Separate student, teacher and parent interfaces (https://dms.jaipur.manipal.edu/loginForm.aspx)
- Complete monitoring of academic events including attendance, marks, laboratory performance, assessments, personal details, fee etc





2. All communication through Microsoft Outlook

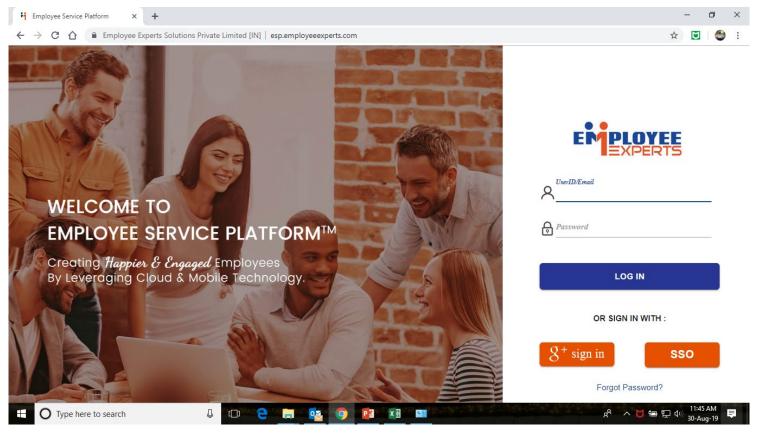
- 1. From top-management downwards everyone; communicates and authenticates email communication done via Microsoft Outlook to save paper, electricity, printing and circulation cost
- 2. Student interaction also done using outlook where every student is issued user id/password on MUJ domain





3. Employee Service Platform (ESP)

1. Online system for leave application, salary details, attendance details, Form 16, contact details etc





Environment Friendly Measures

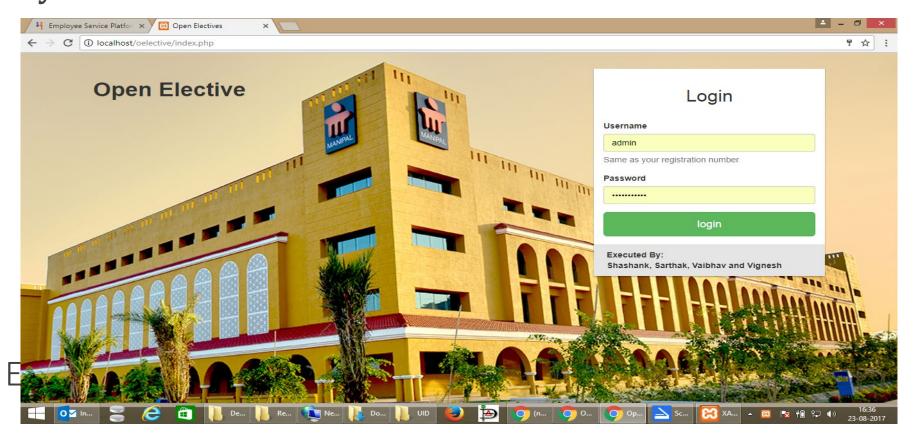
- 4. Biometric Attendance
- 5. Practice of signing in register is discontinued for all MUJ employees to save paper







5. Collection and allotment of students' Open Elective Choices through automated online system





Way Forward.....

- MUJ has been recognized as Technology Demonstration And Training Centre (TDTC) by DST- Rajasthan to conduct skill and training programmes for social upliftment of rural population of Rajasthan.
- Continue to contribute in the Swachhta Abhiyan
- ➤ Make the campus and surroundings cleaner and greener.
- Conserve water and Electricity
- > Recharge ground water level.







... and the efforts continue



Insulation and Air Sealing



Efficient Windows and Doors







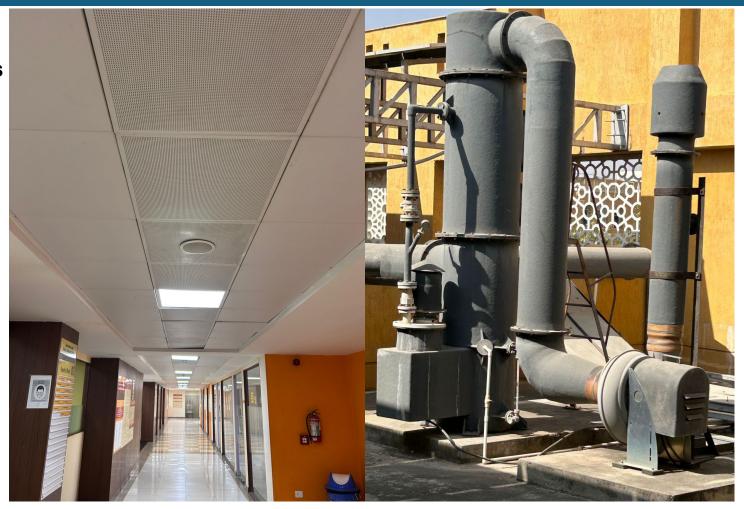
Install Double or Triple-Pane Windows

Energy-Efficient Doors

Low-E Coatings

Seal Leaks

Efficient Heating and Cooling



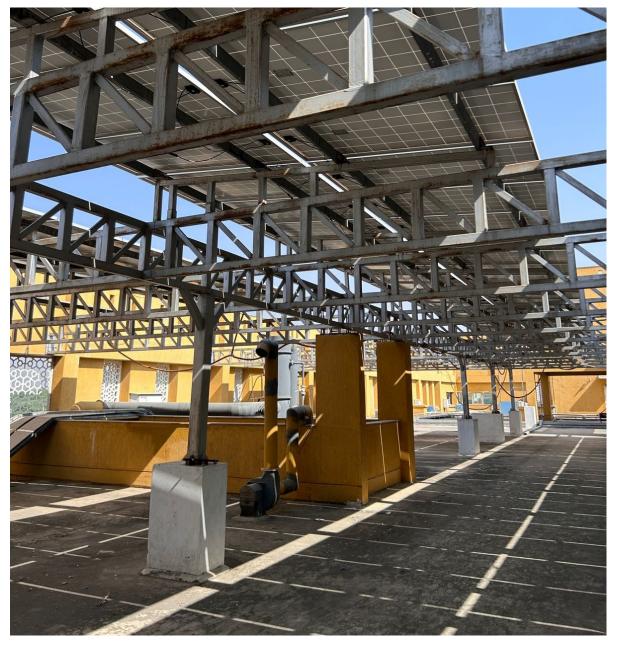
Efficient Heating and Cooling

Upgrade HVAC Systems

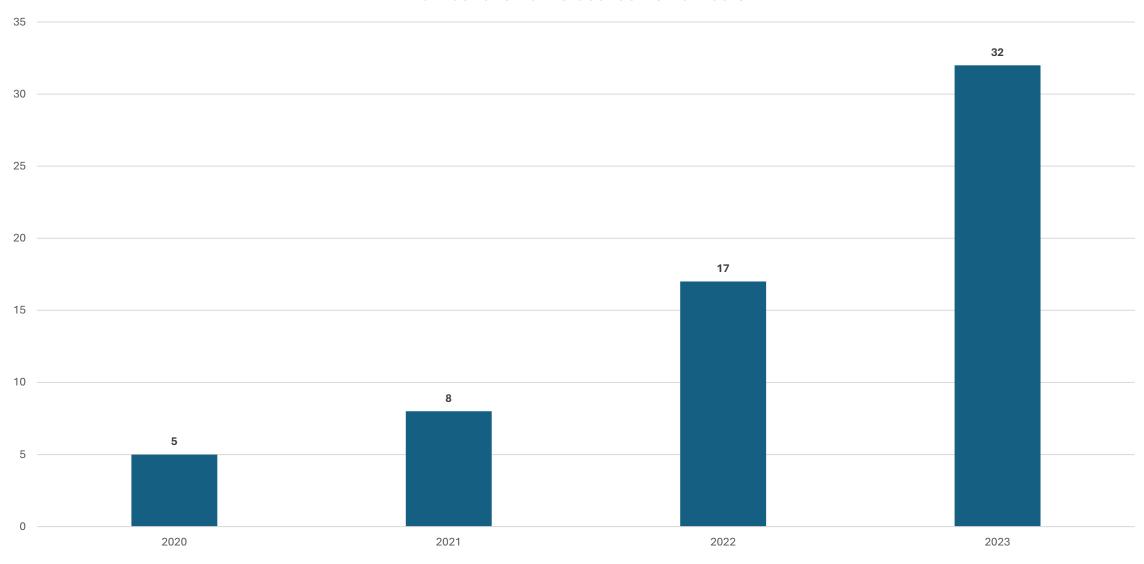




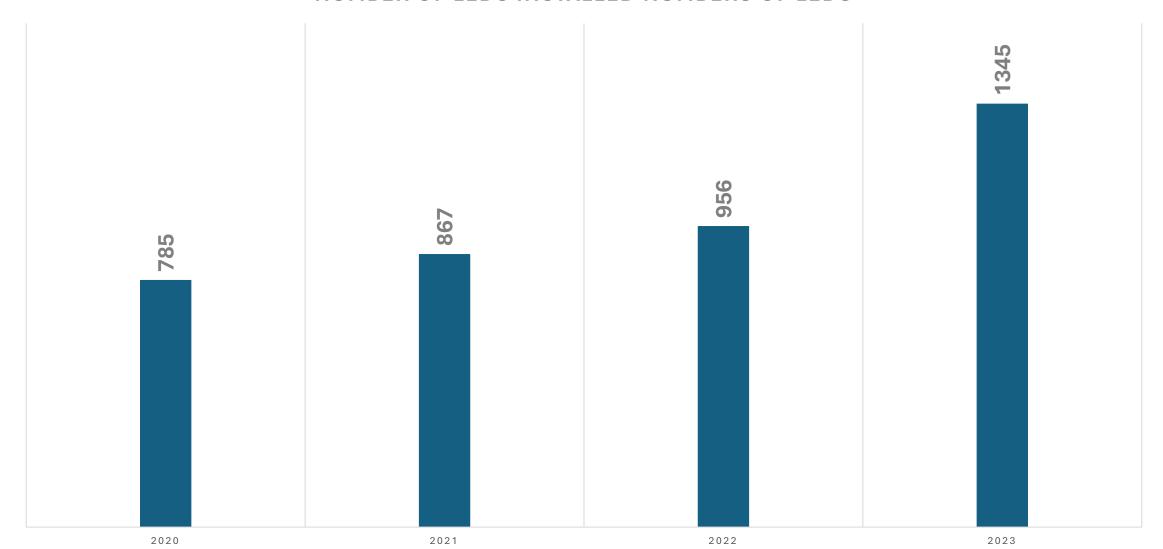




Number of Smart Class rooms Numbers



NUMBER OF LEDS INSTALLED NUMBERS OF LEDS





Academic Block: 03 LAW & MANAGEMENT









Academic Block: 03 LAW & MANAGEMENT















LHC - Progress Report



