



# ANNUAL REPORT 2021



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## OUR VISION

To foster an environment that empowers people, organisations, and societies through education, ideas, research, and training

## OUR MISSION

- To provide quality education and thereby bring social transformation
- To create leaders through innovation and entrepreneurship
- To cultivate the culture of research advancements
- To imbibe universal consciousness
- To stimulate growth through industrial and international partnerships

## OUR CORE VALUES

### LEADER

LIFELONG LEARNING

EMPATHY

ADAPTABILITY

DIVERSITY

EMPOWERMENT

RESPECT



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EXECUTIVE REPORT BY

**PROF. (DR) SANDEEP SANCHETI, PROVOST**

Wise men say that there is nothing permanent in this world except change. Being in line with that, Marwadi University has updated the Vision, Mission statements and the Core Values. The University now operates with a vision to foster an environment that empowers people, organizations and societies through education, ideas, research and training and the mission to provide quality education and thereby bring social transformation, create leaders through innovation and entrepreneurship, cultivate the culture of research advancements, imbibe universal consciousness and stimulate growth through industrial and international partnerships.



The core values of the University can be described by the acronym LEADER, the explanation of which is Lifelong Learning, Empathy, Adaptability, Diversity, Empowerment and Respect.

In the light of NEP-2020, new initiatives were taken by introducing new courses and promoting Multidisciplinary courses.

John Carolus once claimed that educators think too much about effective methods of teaching and not enough about the learning; which if looked into, is true for most of the educational culture around the world. Keeping this concern in mind, Marwadi University focused on developing effective methods of teaching and learning. Various departments of the university came up with creative methods of teaching that focused on catering the learning needs of the students. This year, the university signed an MoU with Coursera by which students and faculty members can be benefitted at large by enrolling themselves into multiple courses for no charge at their end. The University also initiated 26 collaborations including those with Google, AWS and numerous other recognized industries and institutions.

At Marwadi University, it is a regular practice for students to grasp knowledge through guest lectures, seminars, webinars, workshops etc, which has encouraged the faculty to expand their knowledge base with the help of various STTPs, FDPs and Seminars. The Marwadi University Community has effectively utilized the Covid situation by making use of consortiums like IUCEE, CSI and IEEE along with on-line learning platforms like Swayam, Coursera, Udemy etc. This includes the STTP “Research Methodology and Research Paper Writing” and workshop on “Design and Development of Web and Mobile Applications” and several courses on Computer Engineering, Information Technology and AI & Big Data Analytics. Additionally, in order to equip the faculty members with the new hybrid method of delivery, everyone was advised to take up an online course on “Effectiveness of Online Teaching”, the compliance of which was recorded to be a 100%.

This year the University witnessed an immense growth in the areas of Research and Consultancy. The departments, altogether succeeded in publishing a total of 185 journal papers, 40% of which are SCI indexed, 30% are Scopus indexed and the rest are under other publications. Substantial growth was observed in the revenue from Research and Consultancy. Revenue from Research for the year 2020-21 was approximately ₹200 Lacs and that from Consultancy was around ₹ 170 Lacs which reflects a significant increase when compared to previous years.

In 2021, over 500 students were placed in nearly 450 companies including top recruiters like Amazon, RTCAMP, Morgan Stanley, Optum, IDBI Bank and TCS with an average package of nearly ₹3 Lacs per annum along with 87 Dream Offers and 27 Super Dream Offers. The highest pay package this year was approximately ₹35 Lacs per annum, offered by Amazon.

A total of 60+ events which attracted more than 3500+ participants were organized by Marwadi University across departments in Online or Mixed Modes. These events included AWAAZ, Book Talk- and the First Virtual National Moot Court Competition. Other prominent events included UltraTech Sparkling Star Competition by Civil Engineering Department, Celebration of “Pi Day” by the Department of Mathematics and Panel Discussion on COVID-19 MYTHS & REALITIES by other departments.

Marwadi University Center for Innovation, Incubation and Research (MUIIR) was inaugurated on December 5th, 2020 by the then Chief Minister, Shri Vijaybhai Rupani. It is the recently established new vertical, committed to nurturing & promoting innovation in the field of technology-based startups. The center funded more than 25 innovations with nearly ₹ 60 Lacs disbursed for startups during the year 2020-21. Currently, MUIIR is working on some initiatives that includes Sensitization Programmes, Wonder Woman, International Cell, Capacity Building Programmes, etc. A new Gyaandaan initiative on “Creativity, Problem Solving, and Innovation” by Dr Anil S. Patel from US was organised by the MUIIR. A tinkering lab with area of 2000 sq. ft. and capacity of approx. 75 students, has been operationalized.



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Since its inception, Marwadi University has believed in giving back to society. The university stood in solidarity with the nation to fight Covid-19 by donating to the CM Relief Funds. The University paid respects to the Indian Army by celebrating the Kargil Vijay Diwas for the countless stands that they took, and still take, for the nation's safety. Alongside these, the University stands for having a Greener Earth by doing regular contributions. The Zen Garden at Marwadi University organised a free giveaway of beautiful saplings. The staff members were encouraged to use bicycles for arriving at the campus. Furthermore, 585KW solar panels have been commissioned for using renewable energy. It is a great honor that the Campus of Marwadi University has been awarded with the District Green Champion for the year 2020-21 from MG National Council of Rural Education, MoE, Gol.

The University has launched two senior wings of NCC with 55 girls and 80 boys cadets and has provided Obstacle Training and Field Activity Ground for physical training. The University has also become one of the firsts in the country to launch NCC as a minor specialization for all sets of students. Blood donation camps, motivational programmes for Rajkot Police Officials, and Tree plantation programmes were organized.

Many timely measures were taken up at Marwadi University to stabilize and adapt around the pandemic situation. Uninterrupted Hostel services for the International students were given during these difficult times. Besides these, the university further returned a lot to the society by giving face shields to the Rajkot Police Department and Rajkot Municipal Corporation and provided food and accommodation to Dhanvantri Government teams during Covid. The University provided quarantine rooms for the infected students on campus. All the academic sessions were carried out on online platforms with a facility to download the previous lectures from the web portal.

Although the staff was allowed to work from home, the university understood the difficulties faced by the infected staff members and also offered On Duty Paid Leaves. The University, too, received a lot of support from the employees when they willingly contributed a part of their salary for Covid Relief. The same amount was returned to them later by the management.

When it comes to academics under Covid era, the examination department and in-house Software Development team successfully developed a Proctoring based Exam System at par with the Industry standards.

Catering to the Diversity portion of the aforementioned Core Values, Marwadi University welcomed the International students under the SII Scheme who comprised 65% of the total admissions under various Government sponsored programmes. The University received students from more than 50 countries all over the world. During the AY 2020-21, 8 Students from the University went for Semester Exchange Program to other institutions. The University also invited International Experts to share their expertise with our students.

In the year 2020-21, Introduction of HPC (ParamShavak), Energy Swaraj & Robotic Labs, Tinkering Lab, New Canteen and Mess facility are among the major infrastructural developments at the campus. A new building for hostel having an expanded capacity of 240 beds was also constructed. For the faculty members, furnished accommodations with many amenities has been developed. A dedicated centralized gym for female students has also been established during the year. An indoor Kabaddi play ground has been started with international students also enjoying the game.

Despite the challenges of lockdown, a total of 1621 students graduated in the academic year 2021-22. This included 62 international students from 7 different countries such as Syria, Nepal, Ethiopia, Kenya and many more. Over 60% of these students were from Undergraduate studies, followed by diploma studies, Post Graduate and PhD Graduations. For the first time this year, the University had PhD students graduating from the University. The university also witnessed 15 students from various departments who scored the highest CGPAs in four years, setting a new record. The year also had the highest number of graduands.

This year has been a year of recovery for everyone as they focused on putting the pieces together to regain the pre-Covid lifestyle. In this regard, the passion shown by students and teachers throughout the year towards academics is truly an inspiration. They have proved that indeed, ***Success is not an accident, it is hard work, perseverance, learning, studying, and most of all, love for what you are doing that defines your path towards success.***

One of the famous philosophers of the Victorian Era - John Ruskin - has rightly said "The highest reward for a man's toil is not what he gets for it but what he becomes by it." With this, we congratulate all the faculty members and students for their achievements and contribution towards the collective success of this University.

With the support of all these communities, Marwadi University has become one of the truest examples of Vasudhaiva Kutumbakam.

**Prof. (Dr) Sandeep Sancheti**  
Provost (ViceChancellor)

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**PART I**



- **YEAR AT A GLANCE:**  
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## YEAR AT A GLANCE: ACHIEVEMENTS & MILESTONES

**Govt. of Gujarat grants Marwadi University with status of Centre of Excellence**

**Appointment of Shri Ketan Marwadi, President-Marwadi University, as member of Task Force Committee of Government of Gujarat for the Implementation of National Education Policy 2020 in the State of Gujarat**

MEFGI recognised as High Performing Partner Institute by EdCIL under Study in India program

Awarded with High Performing Computing Facility (Super-computer Param Shawak) by GUJCOST-DST, Govt. of India

Faculty of Law awarded with ERASMUS+ project worth Rs. 1.50 Cr

Hosted International event ASME e-Fest at MU campus

MU Convocation-2020 with then Chief Minister of Gujarat as the Chief Guest

Establishment of Energy Swaraj Ashram

MoU with T-Hub for encouraging Entrepreneurship and Startups

Forbes recognises Faculty of Law as one of the Top Law school in India

Faculty of Management Studies signs MoU with University of Dunaujvaros, Hungary

Awarded with Green Campus Champion Award by Ministry of Education, Govt. of India

Awarded by Internshala amongst Top 10 State Private Universities in the state of Gujarat to provide internships

India Today ranked Marwadi University 41<sup>st</sup> among the Top Universities in India

Faculty of Technology selected for Leadership in Teaching Excellence (LITE) program by AICTE

Faculty of Law conducts its First Virtual Moot Court Competition





## STUDENT ENROLLMENTS

Department	Branch	2019-20
ENGINEERING	AUTOMOBILE	13
	CHEMICAL	24
	CIVIL	47
	COMPUTER	171
	ELECTRICAL	9
	ICT	35
	IT	22
	MECHANICAL	36
ENGINEERING	CHEMICAL	11
	CIVIL	11
	COMPUTER	10
	ELECTRICAL	9
	MECHANICAL	5
BSc	CHEMISTRY	28
	MICROBIOLOGY	45
MSc	CHEMISTRY	65
	MATH	15
	MICROBIOLOGY	29
	PHYSICS	20
BBA	BBA	268
	BBA (HONS.)	205
B.COM	BCOM	69
LAW	B. Com LLB (Hons.)	15
	B. A. LLB (Hons.)	22
BCA	BCA	191
B.PHARM	B.PHARM	87
B.Physio	B.Physio	42
MBA	MBA	61











## GRADUATING STARS OF MARWADI UNIVERSITY, 2021 AWARDEES FOR GOLD MEDAL

PROGRAMME NAME	INSTITUTE	DEGREE	CGPA
PUSHPRAJ PARMAR	FACULTY OF TECHNOLOGY	BTECH-AUTO	8.45
KAMLESHKUMAR GOHEL	FACULTY OF TECHNOLOGY	BTECH-CHEM	9.66
RUTURAJ SINH GOHIL	FACULTY OF TECHNOLOGY	BTECH-CIVIL	9.70
HARSH MARTHAK	FACULTY OF TECHNOLOGY	BTECH-CE	9.70
DHANRAJ BHEDI	FACULTY OF TECHNOLOGY	BTECH-ICT	9.68
RUSHITKUMAR SALIYA	FACULTY OF TECHNOLOGY	BTECH-IT	9.52
SEHAB CHAUDHARI	FACULTY OF TECHNOLOGY	BTECH-ME	9.05
RASHI SHAH	FACULTY OF SCIENCE	B.SC.(CHEM)	9.19
HENA KHAMARU	FACULTY OF SCIENCE	B.SC.(MICRO)	9.81
KOTHIYA VAISHALIBAHEN	FACULTY OF SCIENCE	M.SC.(CHEMISTRY)	9.21
SOJITRA DEVANGI	FACULTY OF SCIENCE	M.SC.(MATHS)	9.60
KHUSHBOO DEVNANI	FACULTY OF SCIENCE	M.SC.(MICRO)	8.68
BHANGDIYA DRASHTI	FACULTY OF SCIENCE	M.SC.(PHYSICS)	8.74
NAKIYA MAKDA	FACULTY OF LIBERAL STUDIES	B.B.A.	8.6
FALGUNI CHAUHAN	FACULTY OF LIBERAL STUDIES	B.B.A. (HONS.)	9.74
ANIKET SINGH	FACULTY OF LIBERAL STUDIES	B.COM.	7.94
MOHAMMED ABDULLAH	FACULTY OF BUSINESS MANAGEMENT	MBA	9.29
DRASHTI VADODARIYA	FACULTY OF COMPUTER APPLICATIONS	B.C.A.	9.24
ARCHIT SHAH	DIPLOMA STUDIES	AUTO-DIPLO	9.62
YUVRAJ CHAUHAN	DIPLOMA STUDIES	CHEM-DIPLO	9.44
ANU NAKUM	DIPLOMA STUDIES	CIV-DIPLO	9.82
BHARGAV MODHA	DIPLOMA STUDIES	CE-DIPLO	9.93
JAYKUMAR PATEL	DIPLOMA STUDIES	ELE-DIPLO	9.31
BELVINRAJA NADAR	DIPLOMA STUDIES	ICT-DIPLO	9.96
AARAV DODHIA	DIPLOMA STUDIES	ME-DIPLO	9.88



# STUDENT PASS OUT SUMMARY

## ● GRADUATE STUDENTS: 2020-21

PROGRAMME NAME	TOTAL
FACULTY OF ENGINEERING & TECHNOLOGY	412
FACULTY OF LIBERAL STUDIES	265
FACULTY OF SCIENCE	267
DIPLOMA STUDIES	292
FACULTY OF BUSINESS MANAGEMENT	80
FACULTY OF COMPUTER APPLICATIONS	73
DOCTOR OF PHILOSOPHY	3
<b>GRAND TOTAL</b>	<b>1392</b>

## COUNTRY WISE GRADUATING STUDENTS: 2020-21

PROGRAMME NAME	INDIA	BHUTAN	ETHIOPIA	KENYA	MOZAMBIQUE	NEPAL	RWANDA	SYRIA	TANZANIA	TOTAL
FACULTY OF ENGG. TECHNOLOGY	396	1	3	1	-	4	-	10	-	415
FACULTY OF LIBERAL STUDIES	249	-	-	-	1	1	-	14	-	265
FACULTY OF SCIENCE	266	-	-	1	-	-	-	-	-	267
DIPLOMA STUDIES	288	-	-	-	-	4	-	-	-	292
FACULTY OF BUSINESS MANAGEMENT	65	-	1	-	-	-	1	12	1	80
FACULTY OF COMPUTER APPLICATIONS	71	-	-	-	-	2	-	-	-	73
<b>TOTAL</b>	<b>1335</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>11</b>	<b>1</b>	<b>36</b>	<b>1</b>	<b>1392</b>

# CURRENT ACADEMIC PROGRAMS



## FACULTY OF TECHNOLOGY

### BACHELOR OF TECHNOLOGY BTech

- Mechanical Engineering
- Civil Engineering
- Automobile Engineering
- Chemical Engineering
- Information Technology
- Information & Communication Technology
- Computer Engineering
- Electrical Engineering

### MASTER OF TECHNOLOGY MTech

- Chemical Engineering
- Civil Engineering
- Mechanical Engineering
- Computer Engineering
- Electrical Engineering

### PhD PROGRAMME

PhD in Various Discipline



## FACULTY OF COMPUTER APPLICATION

- BCA
- MSc Cyber Security & Cyber Law



## FACULTY OF PHYSIOTHERAPY

- Bachelor of Physiotherapy



## FACULTY OF PHARMACY

- BPharm



## MEFGI DIPLOMA STUDIES

- Mechanical Engineering
- Automobile Engineering
- Civil Engineering
- Electrical Engineering
- Computer Engineering
- Chemical Engineering
- Information & Communication Technology



## FACULTY OF SCIENCE

### BACHELOR OF SCIENCE BSc

- Microbiology
- Chemistry

### MASTER OF SCIENCE - MSc

- Microbiology
- Chemistry
- Physics
- Mathematics



## FACULTY OF MANAGEMENT STUDIES

- MBA
- BBA
- BBA Hons
  
- BCom



## FACULTY OF LAW

- BCom LLB (Hons)  
Integrated 5 years
- BA LLB (Hons)  
Integrated 5 years

# UNIVERSITY GOVERNANCE

## ● GOVERNING BODY

SR. NO.	NAME	DESIGNATION
1	Shri Ketan Marwadi	President, Marwadi University
2	Shri Jitendrabhai Chandarana	Vice-President, Marwadi University
3	Shri S J Haider, IAS	Principal Secretary, Higher & Technical Education, Education Dept. Government of Gujarat.
4	Prof. (Dr) Sandeep Sancheti	Provost (Vice-Chancellor), Marwadi University
5	Shri Deven Marwadi	Trustee, Marwadi University
6	Shri Sandeep Marwadi	Trustee, Marwadi University
7	Shri Nishit Chandarana	Trustee, Marwadi University
8	Shri Amish Chandarana	Trustee, Marwadi University
9	Dr K K Khakhar	Eminent Educationist
10	Shri Vikram Sanghani	Eminent Industrialist
11	Dr Rajendrasinh Jadeja	Dean, Faculty of Engineering & Technology
12	Shri Kishanbhai Patel	Advocate
13	Shri Parakramsinh Jadeja	Eminent Industrialist
14	Smt Sonal Punjani	Head, Human Resources
15	Shri Naresh Jadeja	Registrar, Marwadi University

## ● ACADEMIC COUNCIL

SR. NO.	NAME	DESIGNATION
1	Prof. (Dr) Sandeep Sancheti	Provost (Vice-Chancellor), Marwadi University
2	Shri Naresh Jadeja	Registrar, Marwadi University
3	Shri Deepak Mathur	Former GM, ONGC & Director IEEE Region 10
4	Dr Anil Roy	Professor, DAIICT- Gandhinagar
5	Dr Deepak Garg	Professor, Bennett University, Greater Noida
6	Dr Rajendrasinh Jadeja	Dean, Faculty of Engineering & Technology, Marwadi University
7	Dr Ramdevsinh Jhala	Principal, Faculty of Engineering & Technology, Marwadi University
8	Dr Sarang Pande	Principal, Faculty of PG Studies and Research, Marwadi University
9	Dr R Sridaran	Dean, Faculty of Computer Applications, Marwadi University
10	Dr Sunil Jakhoria	Dean, Faculty of Management Studies, Marwadi University
11	Dr Rajesh Patel	Principal, MEFGI Diploma Studies, Marwadi University
12	Dr Rhishikesh Dave	Dean, Faculty of Law, Marwadi University
13	Dr Lalji Baldaniya	Principal, Faculty of Pharmacy, Marwadi University
14	Dr Vicky Jain	Principal, Faculty of Science, Marwadi University
15	Dr Jayeshbhai Parmar	Principal, Faculty of Physiotherapy, Marwadi University



## ● THE BOARD OF MANAGEMENT & FINANCE COMMITTEE

SR. NO.	NAME	DESIGNATION
1	Shri Ketan Marwadi	President
2	Shri Jitendra Chandarana	Vice-President
3	Prof. (Dr) Sandeep Sancheti	Provost (Vice-Chancellor)
4	Shri Naresh Jadeja	Registrar
5	Dr Rajendrasinh Jadeja	Dean, Faculty of Engineering & Technology
6	Dr Ramdevsinh Jhala	Principal, Faculty of Engineering & Technology
7	Dr Sunil Kumar Jakhoria	Dean, Faculty of Management Studies
8	Dr R Sridaran	Dean, Faculty of Computer Applications
9	Ms Sonal Punjani	Head, Human Resources
10	Col. Suresh Rajagopalan	SVP, Administration
11	Shri Devesh Poorey	Head, Civil Projects
12	Shri Pinto Mammen	Joint Registrar, Student Section
13	Dr Gaurav Gandhi	AVP, Placement & Corporate Affairs
14	Shri Hardik Dhulia	Accounts Officer & Member Secretary



# 3<sup>RD</sup> CONVOCATION

2020



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## 3<sup>RD</sup> CONVOCATION OF MARWADI UNIVERSITY

### 5<sup>TH</sup> DECEMBER 2020

The 3rd convocation ceremony of Marwadi University was held on 5th December, 2020 where graduating students received their degree awards from Hon'ble Chief Minister of Gujarat, Shri Vijaybhai Rupani.

Shri Vijaybhai Rupani also inaugurated Startup & Incubation Centre at Marwadi University, a division that nurtures young entrepreneurs, creating a roadmap for "Atmanirbhar Bharat". Currently, this Innovation, Incubation & Research Centre is jointly supported by Marwadi Education Foundation & various government agencies like SSIP, NewGen IEDC, Startup Gujarat, GUJCOST, CED etc. The Centre has advanced facilities like 3D printer, laser cutting machine, PCB prototyping machine & first office (a WIFI-enabled air-conditioned co-working space for startups) 32+ startups, 22+ patents, 62+ mentors & 50 Lakhs+ fund raised by the centre till date.

Congratulating 1400 degree holders and wishing them success in life, Shri Vijaybhai Rupani exhorted them never to stop learning but to continue upgrading the knowledge and take advantage of several opportunities which the government has provided for startups. He said that education not only provides students with knowledge and skills, but also trains them to accept new ideas and challenges.

Shri Ketan Marwadi, President of Marwadi University addressed the students, urging them to lead the world towards a better tomorrow by taking chances and believing in themselves. He stressed on the importance of ethics and discipline as the key to success. He acknowledged the fact that this is a time where India is standing at the cusp of tremendous growth, and will soon be a 5.5 trillion economy, ready to lead the world. The President also promised to give the best infrastructure that will enable the students to be at the helm of this new India poised for the growth.





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**PART II**

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- **DEVELOPMENTS & ACHIEVEMENTS AT INSTITUTE**

- Faculty of Engineering & Technology

- Faculty of Science

- Faculty of Diploma Studies

- Faculty of Management Studies

- Faculty of Computer Applications

- Faculty of Law

- Faculty of Pharmacy

- Faculty of Physiotherapy

- **INCUBATION & INNOVATION CENTER: MUIR**

- **PLACEMENT & CORPORATE AFFAIRS**

- **OFFICE OF INTERNATIONAL RELATIONS**

- **LEARNING RESOURCE CENTRE**

- **LEARNING & DEVELOPMENT DEPARTMENT**

- **COMMUNICATION SKILLS DEPARTMENT**

- **PHYSIOTHERAPY RESEARCH & REHABILITATION CENTRE**

- **OUTREACH & DEVELOPMENT DEPARTMENT**

- **WOMEN'S CELL**

- **HR CORNER**

- **NATION BUILDING INITIATIVES**

- **GREEN INITIATIVES**







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# DEVELOPMENTS & ACHIEVEMENTS AT THE INSTITUTE

## • FACULTY OF TECHNOLOGY

### COMPUTER ENGINEERING DEPARTMENT

The Department focuses on engaging all students in learning and moving further into curriculum integration across activities and subjects. Department ensures that every student is engaged with the right teaching, emphasize on critical and creative thinking as the most important part of the learning process and encourages students to expand the limits of knowledge and abilities. The faculty member collaborates together in reviewing teaching practices and examining student learning and growth. This deliberate and collegial work allows reaching all the students at the department.

### GUEST LECTURES

**Dr Vinodkumar Mall** | Director General of Police, Govt. of Gujarat,  
"Cyber Security and Prevention" | 17th Feb, 2021

**Mr Nehal Bhau** | Co-Founder, CTO & Vice President, Proximo, a Silicon Valley based startup  
"Roadmap to Building Startup and Embracing Entrepreneurship" | 30th March, 2021

**Mr Jinendra Mehta** | Microsoft Student Learn Ambassador  
"Cloud Service 101" | 6th June, 2021

**Mr Jinendra Mehta** | Microsoft Student Learn Ambassador  
"Cloud Service 101 Azure" | 27th March, 2021

**Devansh Satwara, Kripa Kundaliya**  
"Getting Started with UI/UX Designing" | 1st March, 2021

**Miss Sunanda Khargaria Baruah** | Quality Manager and Consultant - Credit Suisse, Pune  
"Campus to Cooperate – Kick start the professionalism" | 6th March, 2021

**Mr Parthrajsinh Jadeja** | Programmer Analyst, Cognizant Pune

**Mr Manan Pandya** | Network Engineer, Amazon Inc, USA  
"In conversation with MU Alumni - Career guidance talk" | 3rd July, 2021

## WORKSHOPS

GUJCOST Sponsored STTP on "Research Methodology and Research Paper Writing", Prof. Harsh Mehta & Prof. Saurabh Shrivastava, Marwadi University – 10th to 15th December, 2020. GUJCOST Sponsored workshop on "Design and Development of Web and Mobile applications", Prof. Harsh Mehta & Prof. Saurabh Shrivastava, Marwadi University – 9th & 10th January, 2021

## EVENTS

Special Employability Training (SET), a technical training programme to clear fundamentals of the important subjects considering the placement process – 21st June to 3rd July, 2021

Hands-on Workshop for utilizing Jetson Nano kit in Deep Learning, to know about the basics of Nvidia Jetson Nano single board computer – 23rd January, 2021

"Front End Web Development", Prof. Hardik Doshi (HOD) and Prof. Rachit Adhvaryu, Marwadi University, 18th to 23rd January, 2021

"Web App Development with Bootstrap and Angular", Prof. Tejas Chauhan and Prof. Munindra Lunagaria, Marwadi University, 10th to 17th April, 2021



## STUDENT CLUB ACTIVITIES

The Department actively organises various activities under its student club “Nurturing Bright Students”. Following activities were held during the Year.

TITLE	OUTCOMES OF EVENT
Machine Learning	Machine Learning is concerned with computer programs that automatically improve their performance through experience
Advance Web Technology	The presented technologies are further investigated and applied in hands-on sessions as well as small student projects carried out throughout the course
Cyber Security	Cybersecurity is the combination of processes, practices, and technologies designed to protect networks, computers, programs, data and information from attack, damage or unauthorized access
Big Data	Big Data Era has come to be. It is for those who want to become conversant with the terminology and the core concepts behind big data problems, applications, and systems. It is for those who want to start thinking about how Big Data might be useful in their business or career
UI / UX	UI/UX Domain focuses on enhancing the front end design and user experience
JAVA	To develop programming and logical skills of students to clear the technical question round during interview. To inculcate Web Development including Java Web Development and basic database designing skills. To equip students with the knowledge of various design patterns and development of Java Applications.



## COLLABORATIONS INITIATED

ORGANISATION	COUNTRY	LIST OF COLLABORATION
Google	Google India	Google Cloud Career Readiness Program curriculum prepares faculty members and students for the globally recognized industry certification Google Cloud Certification
AWS	AWS India	AWS Academy Benefits for educators and students; <ul style="list-style-type: none"><li>Access AWS authored curriculum</li><li>Build skills aligned with AWS certification</li><li>Educators earn accreditation</li><li>Grow AWS cloud workforce</li></ul>

## FACULTY ACHIEVEMENTS

Degree of Doctor of Philosophy under the Faculty of Information and Communication Engineering awarded to Prof. D Palaniappan by Anna University, Chennai

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBER
STTPs & FDPs	6
Conferences & Seminars	32

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Rachit Adhvaryu, Tejas Chauhan	A Review on Privacy Preserving in Association Rule Mining on Partitioned Database. Pg. No: 437-442	Research Paper	International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150
Aastha Masrani, Dr Madhu Shukla, Kishan Makadiya	Empirical Analysis of Classification Algorithms in Data Stream Mining	Research Paper	Springer
Dhara Joshi	An Enhanced Approach for Three factor Remote User Authentication in Multi-server Environment Journal of intelligent and fuzzy system Vol. 39 , Pg no :8609-8620	Research Paper	IOS Press
Munindra Lunagaria	A Review: Secure And Reliable Routing In Manets With The Detection And Prevention Of Selfish Attacks	Research Paper	International Research Journal of Engineering & Technology (IRJET)
Munindra Lunagaria	Analysis and Visualization of Proxy Caching Using LRU, AVL tree and BST with Supervised Machine Learning	Research Paper	Materials Today: Proceeding - Elsevier Science Direct
Jekil Gadhiya, Banshi Kanasagara, Mehul Rupani	Product Cordial Labeling of Hypercube Related Graphs	Research Paper	Malaya Journal of Matematik
Jekil Gadhiya, Shanti Khunti, Banshi Kanasagara, Mehul Rupani	Some Results on E Cordial Labeling of Hypercube Related Graphs	Research Paper	Malaya Journal of Matematik
Damodharan Palaniappan	Forming the Cluster in the RFID Network for improve the Efficiency and Investigation of the Unkind Attacks	Book Chapter	APPLE ACADEMIC PRESS - CRC PRESS, A TAYLOR & FRANCIS GROUP

## PATENTS PUBLISHED

SR. NO.	APPLICATION NO.	APPLICANT NAME	APPLICATION DATE	PATENT TITLE	PUBLICATION DATE
1	2020102648	Munindra Lunagaria	8 <sup>th</sup> October, 2020	Method for Energy Efficient Communication in Heterogeneous IoT Networks	11 <sup>th</sup> November, 2020
2	2021101577	Munindra Lunagaria	27 <sup>th</sup> March, 2021	An IoT Based System For Emergency Healthcare	5 <sup>th</sup> May, 2021

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
15	3

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION/INSTITUTE	DESIGNATION
Prof. B. Amutha	SRM Institute of Science & Technology	Professor
Prof. Madhuri Bhavsar	Nirma University	Professor
Prof. Atul Negi	School of Computer & Information Science, University of Hyderabad	Professor
Dr Jayakumar S.	Rinanu Semiconductor LLP, Bangalore	Member Founding Team
Mr Savan Anjaria	Intel Technology India Pvt. Ltd. – Bangalore	Memory and Storage Architect
Mr Parthrajsinh Jadeja	Cognizant	Programmer Analyst Trainee
Prof. R B Jadeja	Marwadi University	Dean, Faculty of Engineering & Technology
Prof. Nitul Dutta	Marwadi University	Professor
Prof. Hardik Doshi	Marwadi University	Associate Professor & Head
Prof. Jay Teraiya	Marwadi University	Associate Professor & Head
Prof. Krunal Vaghela	Marwadi University	Associate Professor



## MECHANICAL & AUTOMOBILE ENGINEERING DEPARTMENT

The Mechanical & Automobile Engineering Department offers undergraduate course and two post-graduate programmes, i.e. Thermal Engineering and CAD-CAM. It also offers PhD programme to promote basic research activities in the captioned mentioned areas. The Department has a good mix of experienced faculty members from a wide array of engineering interests. It is well equipped with 12 laboratories and various research labs under sponsored projects with capital investment of 500+ lakhs.

### GUEST LECTURES

**Prof. Nikhil Chotai & Mr Mrunal Sompura** | Marwadi University,  
MATLAB For Mechanical & Automobile Engineering | 11th May, 2020

**Dr Dhanesh Mohan** | Post Doctoral Fellow, Shangdong University, China,  
"Welding Technology" | 13th May, 2020

**Mr Shahank Vora** | Ambuja Cement Ltd,  
Supply chain Management Procurement & Inventory – 14th May, 2020

**Mr Jeet Trivedi** | Altair, Canada  
"Career in software development for Mechanical engineers" | 16th May, 2020

**Mr Nilkanth Raichura** | Bluechip Infocorp Pvt. Ltd  
"Transforming industry through digital transformation solution like  
augmented reality & virtual reality" | 16th May, 2020

**Mr Kalpesh Trivedi**  
"Eyes of an Engineers" | 17th May, 2020

**Mr Tushar Shah** | Founder - Titan Platers & Expert in Electroplating,  
"Electroplating Basics & Business Scope" | 18th May, 2020

**Mr Deep Sanghvi** | Manager (Tech Support-Sales), Jyoti CNC Automation Ltd.,  
"Different Industry job Profile and how to select the right profile" | 19th May, 2020

**Mr Jaman Patel** | Founder, Synova Gears  
"Good to Great" | 20th May, 2020

**Mr Kunal Kanabar** | Founder, 3D Printage  
"An emerging future with unprecedented fields of RE (Reverse engineering) &  
Real-time low cost Automation" | 21st May, 2020

**Mr Kuldeep Sharma** | Project Engineer at Technoledge Infotech Pvt. Ltd.,  
"Industrial Designing and its Applications" | 22nd May, 2020

**Mr Vaibhav Yadav** | Consultant and QA at 3D Foundry Tech.,  
"Understanding the effect of Incorrect Methods Design on Casting Quality  
by using AutoCAST-X1" | 23rd May, 2020

**Mr Jay Bendkhale** | AMP Engineering Design Ventures LLP,  
"Career Opportunities in CAD and CAE domain" | 26th May, 2020

**Dr Vijay Kanabar** | Boston University, US,  
"Portfolio and Program Management" | 1st June, 2020

Gujarat Energy Development Agency (GEDA) organised “Workshop on Energy Audit” for students to learn the process of energy auditing in industries – 18th March, 2021

Workshop on Augmented Reality by Prof. Mukhtar Sama, Marwadi University, for students to learn the application of Augmented Reality in Mechanical Engineering – 22nd June, 2021

Workshop on 3D printing, Prof. Prashant Ujeniya, Marwadi University for students to understand the concepts of 3D printing – 11th June, 2021

Workshop on CNC Programming, Prof. Vivek Patel, Marwadi University for orienting students to develop CNC code for a product – 29th May, 2021

“Hands-on Skill based programme on Pneumatics” by Prof. Nikunj Rachchh and Prof. Nikhil Chotai,- 10th – 12th Feb, 2021



### STUDENTS PARTICIPATING IN WORKSHOP “HANDS ON SKILL BASED PROGRAMME ON PNEUMATICS”

## DEPARTMENT ACADEMIC ACTIVITIES

Hands-on skill based activity to perform Industrial Pneumatic Operation, Projects were allotted to students and after learning they were required to complete and submit project reports – 10th to 12th February, 2021

Online course on Design Thinking courses offered by Coursera

## STUDENT PARTICIPATIONS

TITLE	STUDENT PARTICIPATIONS	BRIEF DESCRIPTIONS
Internship programme	61	Participation in 55 organisations
ASME digital e-Fest 2021 –HPVC	11	Student competition present new ideas in the field of Engineering
Poster making competition for Anti Ragging	01	To showcase views on Anti-Ragging Cell through Poster Presentation
Tech Intellect - Women's Week	6	Quiz based competition on occasion of celebration of International Women's Day
3D Modelling using Fusion 360 & Printing Technology	9	To learn methods of product development
Training on CNC Programming	100	Simulate CNC coding for manufacturing
Hands on Skill based programme on Pneumatics	10	Perform the Industrial Pneumatic Operation
Workshop on CNC Programming	160	Develop CNC code for a product
Workshop on 3D Modelling Using Fusion 360	87	Understanding the design software
Workshop on 3D Printing	82	Understanding the concepts of 3D Printing
Workshop on Augmented Reality	38	Application of Augmented Reality in Mechanical Engineering.
Workshop on Energy Audit	66	Learn about process of Energy Auditing in industries

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	12
Conferences & Seminars attended	19



## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE	TYPE	PUBLISHER
Prof. Nikunj Maheta	Comparing Properties of Biodiesel Obtained From Waste Cooking Oil and Virgin Cooking Oil, Volume: 07 Issue: 08	Research Paper	International Research Journal of Engineering and Technology (IRJET)
Prof. Vivek Patel	Meshless Method – Review on Recent Developments	Referred journal	Elsevier
Prof. Nikhil Chotai	Air Engine Efficiency Improvement Using Control System	Book	Springer
Prof. Nikhil Chotai	Design and Experimental Investigation on Cut Tube Absorber for Solar Parabolic Trough Collector	Referred journal	Taylor and Francis
Prof. Karan Motwani	Design and Experimental Investigation on Cut Tube Absorber for Solar Parabolic Trough Collector	Referred journal	Taylor & Francis
Prof. Saurabh Srivastava	Topology Optimization of Steering Knuckle Structure	Referred journal	EDP Science Scopus Indexed
Prof. Anchit Kaneria	Dynamic Analysis of Micro-cantilever with Electrostatic Force	Referred journal	Taylor & Francis
Prof. Ramesh Bhoraniya	Global Stability Analysis of Axisymmetric Boundary Layer on a Slender Circular Cone with Streamwise Adverse Pressure Gradient	Referred journal	Elsevier
Prof. Mit Pujara	Chemical Looping Reforming System for H <sub>2</sub> Production - a Review	Book	Springer Nature
Prof. Yagnesh Joshi	Numerical Simulation of Low Reynolds Number Gusty Flow Past Two Side by Side Circular Cylinder	Book	Springer
Prof. Ramesh Bhoraniya	Global Stability Analysis of the Spatially Developing Boundary Layer: Effect of Wall Suction and Injection	Book	Springer

FACULTY NAME	TITLE	TYPE	PUBLISHER
Prof. Saurabh Srivastava	Topology optimization of steering knuckle structure	Reputed journal	Edp sciences
Prof. Gaurang Joshi	Metallographic and microstructure analysis of gas tungsten arc-welded bimetallic copper-to-stainless steel joints	Referred journal	Springer
Prof. Divya Bhoraniya	Application of niyama criterion to predict shrinkage porosity in vertical centrifugal casting (vcc) of astm a356 alloy	Referred journal	Inder science
Prof. Anchit Kaneria	Dynamic analysis of micro-cantilever with electrostatic force	Referred journal	Taylor and Francis
Prof. Pinank Patel	Theoretical approach to chebyshev spectral collocation method and its mathematical implementation	Book	Springer
Prof. Puneet Mathur	Relative study of Plain circular Bearing and Two lobe journal bearing lubricated with Micropolar fluid	Research paper	Proceedings

## RESEARCH PROJECT GRANTS RECEIVED

SR. NO.	PROJECT TITLE	PROJECT VALUE	FUNDING AGENCY
1	Solar Powered Electrical Vehicle	₹ 200,000	New Gen IEDC

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
33	09

The Department of Civil Engineering at the Faculty of Technology offers Diploma, Undergraduate, Post-Graduate and PhD programmes with specializations in Structural, Transportation and Geotechnical Engineering. It has state-of-the-art laboratories which are NABL Accredited. The Department is also having GPCB recognised schedule-I environmental auditing teams which offers research and consultancy services. ACI-India student chapter at the department organises various activities to engage students. Various testing and consultancy services in the field of soil and material testing, pavement design and evaluation, structural design and proof check, Environmental Testing and Auditing and Field Surveying etc. are being offered as consultancy services at the department.

### GUEST LECTURES

Employability Training Program on Campus to Corporate,  
**Prof. Ronak Dhangadhriya**, CAD Center | 11th May, 2020

Webinar on Building with Unconventional Structural System,  
**Er. Jayant Lakhani**, Structural Consultant | 12th May, 2020

Webinar on Project Management: Concept to Commissioning & Post COVID Construction Challenges,  
**Er. G.T Bhagchandani**, L&T Construction-Building & Factories IC | 16th May, 2020

Understanding & Interpretation of Architectural & Structural Drawing,  
**Mr Harsh Sanghvi**, Shah & Sanghvi Associates | 3rd June, 2020

Expert session on Career Opportunities via competitive exams for the graduating Engineering Students,  
**Mr Rohan Garg**, ICE Gate Institute | 7th December, 2020

Online webinar on Role and Scope of Geotechnical Engineer,  
**Dr Amit Prashant**, IIT Gandhinagar | 23rd January, 2021

Career advancement webinar on Water requirements and scope and planning for Gujarat  
**Mr Deepak Ramchandani**, GWSSB & WASMO | 27th February, 2021

Career advancement webinar on Employment Opportunities, roles & responsibilities of field Civil engineer  
**Dr Yogesh Shah**, IIT RAM – Ahmedabad

Webinar On How to make Masonry Building Earthquake Resistant  
**Dr Tarak Vora**, Professor, Marwadi University | 16th April, 2021

Career advancement webinar on Skill Required for futuristic Civil Engineers  
**Mr Satish Jethwani**, EZ Engineering Pvt. Ltd | 17th April, 2021

Advanced materials : Development applications and future scopes in the Construction Practices,  
**Dr Ankur Bhogayata**, Professor, Marwadi University | 26th April, 2021

A career guidance seminar on What after Graduation in Civil Engineering,  
**Dr Siddharth Shah**, Professor, Marwadi University | 18th May, 2021

Utilization of plastic waste in Hybrid Concrete Composites,  
**Dr Ankur Bhogayata**, Professor, Marwadi University | 2nd June, 2021



“Earthquake Engineering”, Prof. Tarak Vora, Marwadi University, 30th Nov to 4th Dec, 2020. The workshop provided the learners with a glimpse of emerging trends in the field of Earthquake Engineering & Retrofitting of Structures. The platform also facilitated participants to interact with eminent experts in the field.

“Recent developments in the concrete technologies: Sustainability of Modern and Hybrid composites”, Prof. Ankur Bhogayata, Marwadi University, 1st to 5th March, 2021. The workshop focused on deliberating few of the most recent developments in the field of preparing, testing and characterisation of conventional, hybrid and modern composites for construction.

## EVENTS

“UltraTech Sparkling Star” Contest: Organised by UltraTech Cement Ltd. for the students of Civil Engineering of Saurashtra & Kutch region at Marwadi University. Two teams from Marwadi University were selected for the final round, of which the team of Kaushik Maji and Jatin Trivedi secured 1st place and became “UltraTech Sparkling Star” with a prize money of ₹. 15,000



## STUDENT CLUB ACTIVITIES

ACTIVITY TITLE	OUTCOMES
English Day Celebration – 3rd May & 1st June, 2021	To encourage and improve communication skills in English language To overcome stage fear

## COLLABORATIONS INITIATED

ORGANISATION	COUNTRY	GIST OF COLLABORATION
CAD Centre, Rajkot	India	To provide industry ready-skills to students. Orienting with the latest tools and techniques in the industry

## INNOVATIVE TEACHING METHODOLOGY

Introduced video based assignments by Prof. Siddharth Shah, in the subjects of Basics of Geology and Geotechnical Engineering. Every learner was asked to prepare a video of 3 minutes duration covering the concept, procedure, significance in the field or Civil Engineering practice for that particular topic, followed by presentation via video and a quiz to do formative assessment. Total 38 topics & sub-topics were assigned to students which completed learning of 70% of curriculum and author observed that students were very enthusiastic and they had produced excellent technical work through videos substituting traditional written assignments.

## STUDENT PARTICIPATIONS

TITLE	STUDENT PARTICIPATIONS	BRIEF DESCRIPTION
Tall, super tall and mega buildings- Structural systems	25	Basic understanding of the tall structure and design criteria
Total station (basics)	5	Webinar organised by The Institution of Engineers focuses on training of Total Station
Advanced concrete products and challenging project case studies	40	Webinar organised by Lafarge Concrete Ltd. describes newly developed product and challenging case studies
IS 1893 & IS 16700 - Codal clauses and issues	30	Seminar guided the students about the new changes in the code and challenges.
How to publish scholarly book and papers	25	Speaker talked about the important points which helps master students to publish paper
Profile building workshop	45	Workshop organised on preparing students to write resumes and their profile for better career opportunities
Good Academic Performance-Indian Chapter of American Concrete Institute	15	Evaluation through essay writing competition
MU Public Speaking Competition	26	Elocution Competition

## STUDENT ACHIEVEMENTS

Mr Kaushik Maji and Mr Jatin Trivedi secured 1st place in “UltraTech Sparkling Star” contest and won prize ₹. 15,000

Mr Aftab Sama and Mr Aryan Shingarakhia awarded with a Scholarship of ₹. 15,000 by Indian Chapter of American Concrete Institute for Good Academic Performance criteria



## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	3
Conferences & Seminars attended	17

## FACULTY ACHIEVEMENTS

Prof. Ankur Bhogayata, has been awarded with the title of IGIP by IUCEE for International Society of Engineering Pedagogy (IGIP)

Prof. Ankur Bhogayata, has been awarded with Best Paper Award titled “Understanding the emotional and psychological reflections of the engineering students on the remote teaching as new pedagogical practice” by IUCEE.

Prof. Tarak Vora, has been awarded with Best Paper Award titled “Understanding the emotional and psychological reflections of the engineering students on the remote teaching as new pedagogical practice” by IUCEE

Talk titled “Applications of Geo-synthetics in Civil Engineering” was delivered by Prof. Siddharth Shah.





## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Dr Ankur Bhogayata	Utilization of Expanded Clay Aggregates in Sustainable Light Weight Geo Polymer Concrete (1780 to 1792)	Journal of Material Cycle and Waste Management	Springer
Dr Ankur Bhogayata	The Strength Oriented mix Design for Geopolymer Concrete using Taguchi method and Indian concrete mix design code	Journal of Construction and Building Materials	Elsevier
Dr Ankur Bhogayata	Understanding the Emotional and Psychological Reflections of the Engineering Students on the Remote Teaching as New Pedagogical Practice (page 1 to 8)	Engineering Education Transformation	IUCEE
Dr Ankur Bhogayata	Mix Design Optimization for Fresh Strength and Durability Properties of Ambient Cured Alkali Activated Composite by Taguchi Method (122822)	Construction and Building Material	Elsevier
Dr Siddharth G Shah, Prof. Amit Joshi	Studies on the Effects of Addition of Shredded Plastic Waste as Reinforcement on Engineering Properties of Black-Cotton Soil	Book Chapter in Lecture notes in Civil Engineering	Springer
Dr Siddharth G Shah, Prof. Smit Kacha	Review of the Nonmaterial Used for the Soil Stabilization	Book Chapter in Lecture notes in Civil Engineering	Springer
Dr Siddharth G Shah, Prof. Yogesh Alwani, Prof. Morvin solanki	Study the Potential of Plastic Waste Bottles as Geo-Cells for Maintenance of Pot-Holes in Flexible Pavement	Book Chapter in Lecture notes in Civil Engineering	Springer
Dr Siddharth G Shah, Prof. Yogesh Alwani, Prof. Devang Wadher	Experimental Investigation on Repair and Maintenance of Flexible Pavement Using Geo-Synthetics.	Book Chapter in Lecture notes in Civil Engineering	Springer
Dr Siddharth G Shah, Prof. Yogesh K. Alwani Prof. Hussain Alahmad Prof. Ahmad Alyaseen, Ravindra Solanki, Bhavik Daxini	Reuse of Improved Recycled Concrete Aggregates (RCA) for Sustainable & Environmental Friendly Construction Materials	International Conference on Chemical, Mechanical & Environmental Sciences (ICCMES 2021), 25th-26th March 2021, Coimbatore, India	IOP Conference Series: Materials Science

## PATENTS PUBLISHED

SR. NO.	APPLICATION NO.	APPLICANT NAME	APPLICATION DATE	PATENT TITLE
1	202021022755	Dr Tarak Vora	30-05-2020	Stop Based Approach for Generating Shear Force Diagram of Beams
2	202021024879	Dr Tarak Vora	13-06-2020	Stop Based – Double Moment Approach for Generating Bending Moment Diagram of Beams
3	202021025610	Prof. Bhavik Daxini, Dr Tarak Vora	18-06-2020	Modified shelling structured crumb rubber concrete and preparation method thereof
4	336655-001	Dr Ankur Bhogayata	22-12-2020	Flexural Displacement Measuring Device
5	202021039562A	Prof. Jay Kalaria	13-09-2020	Route bus service controlling and improve frequency in route – management system

## RESEARCH PROJECTS INITIATED

TITLE OF THE PROJECT	PROJECT VALUE	FUNDING AGENCY
Development of Integrated structural Health Monitoring System Using impedance and Wave Propagation Technique	₹. 81,963	SSIP
Flexural Displacement Measuring Device	₹. 35,000	SSIP
Hand-rail testing equipment	₹. 1,10,000	SSIP
Sustainable cement Products	₹. 1,50,000	SSIP
Manufacturing of Sustainable Geo cell from waste PET Bottles	₹. 1,86,800	NewGen IEDC
Hydrophobic and antibacterial nano coated sanitary wares	₹. 2,00,000	NewGen IEDC
Prototype of Smart concrete using nano materials	₹. 2,00,000	NewGen IEDC
Development of Nano solution to stabilize black cotton soil	₹. 1,62,000	SSIP

## CONSULTANCY PROJECTS INITIATED

SR.NO.	TITLE OF THE PROJECT	PROJECT VALUE
1	Ultratech Cement Limited	₹. 5,78,200
2	Gag Ambuja Cement	₹. 4,76,602
3	Shreeyam Power and Steel Ind Ltd.	₹. 4,75,681
4	Ruchi soya Ind Ltd.	₹. 4,09,483
5	Gokul Agro Resources Limited	₹. 2,78,601
6	Smart City Rajkot	₹. 2,77,775
7	CETP Dhareshwar GIDC Jetpur	₹. 1,49,607
8	Shanti Procon LLP	₹. 49,500
9	M/s. H P Zala and Co.	₹. 42,500
10	KSD Construction	₹. 33,850
11	Rameshbhai Raghavjibhai Virani	₹. 26,000
12	Dimple J Pansuriya and Co.	₹. 24,250
13	Bhumi structures	₹. 23,200

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
22	4

## ACCREDITATION GRANTED

DETAILS OF ACCREDITATION	ORGANISATION/INSTITUTE	CATEGORY
NABL Accreditation	National Board of Accreditation for Testing and Calibration Laboratories	Testing Laboratories

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION / INSTITUTE	DESIGNATION
Dr Tarak Vora	Marwadi University	Chairperson
Dr Ankur Bhogayata	Marwadi University	Member
Dr Siddharth Shah	Marwadi University	Member
Dr B J Shah	GEC, Modasa	Member
Dr Shirish Deo	National Institute of Technology Raipur	Member
Er. Manish Doshi	Industrial Consultant	Member



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## ELECTRICAL ENGINEERING DEPARTMENT

The Department focuses on to offer quality instruction and undertakes scholarly research that engages each student in a challenging Electrical engineering education and prepares graduates for the full range of career opportunities in the high technology marketplace, enabling them to reach their fullest potential as a professional and as a member of the society. It offers programmes with specialisations in Power Electronics and Electrical Drives, Electric and Hybrid Vehicles, Renewable Energy and Power System etc.

### GUEST LECTURES

**Mr Dhruvesh Metha** | T&R Ahmedabad

“Webinar on Realm of Transformer” | 11th May, 2020

**Mr Ashish Shah** | PNR Railworks, Ontario, Canada

“Webinar on Strategic Planning for International Study Program & Career Opportunities”  
18th May, 2020

**Mr Kashyap Ramaiya** | Mascot Robotics, Ahmedabad

“Robotics and Industry 4.0” | 29th May, 2020

**Mr Tapan Patel** | INI Infrastructure & Engineering, Ahmedabad

“Introduction to Lightning Design using DIALux & Hands-on Practice on Software” | 30th May, 2020

**Mr Purav Bhatt** | Siemens Ltd.

“Campus to Corporate and Beyond” | 6th June, 2020

**Dr Chetan Singh Solanki** | Solar Man of India

“Being Logical Being Spiritual” | 29th January, 2021

**Dr Raghvan, Dr. Varsha Shah, Dr. Pramod Naik**, from IIT Gandhinagar, SVNIT Surat

“Evolution in EV Technology” | 27th February, 2021

**Mr S B Sareen** | EDII Ahmedabad

“Entrepreneurship A Career Option” | 8th April, 2021

**Mr Nishant Kotak**, IBM Bangalore

“Career opportunities for Electrical Engineers in IT Sector” | 10th April, 2021

**Mr Shailesh Chaudhari** | ICE GATE

“Career Opportunities with GATE Exam” | 26th June, 2021

**Mr Smit Bataviya** | Deputy Manager, Nayara Energy

“In conversation with MU Alumni” | 3rd July, 2021

## COLLABORATIONS INITIATED

ORGANISATION / INSTITUTE	COUNTRY	GIST OF COLLABORATION
Indian Institute Of Technology, Patna	India	Collaborative Research
University of Coimbra	Portugal	Collaborative Research
Energy Swaraj Foundation	India	Training and incubation opportunities in Renewable Energy
Menza Motors Pvt. Ltd	India	Training and incubation opportunities in Renewable Energy

## FACULTY ACHIEVEMENTS

Prof. Rajendrasinh Jadeja, awarded first position for Best Paper Award titled “Understanding the emotional and psychological reflections of the engineering students on the remote teaching as new pedagogical practice” by IUCEE

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

TYPE	NO. OF FACULTY MEMBERS
Conference /Symposium	7
FDP / STTP	45
Seminar	1
Webinar	57
Workshop	15
Total	125

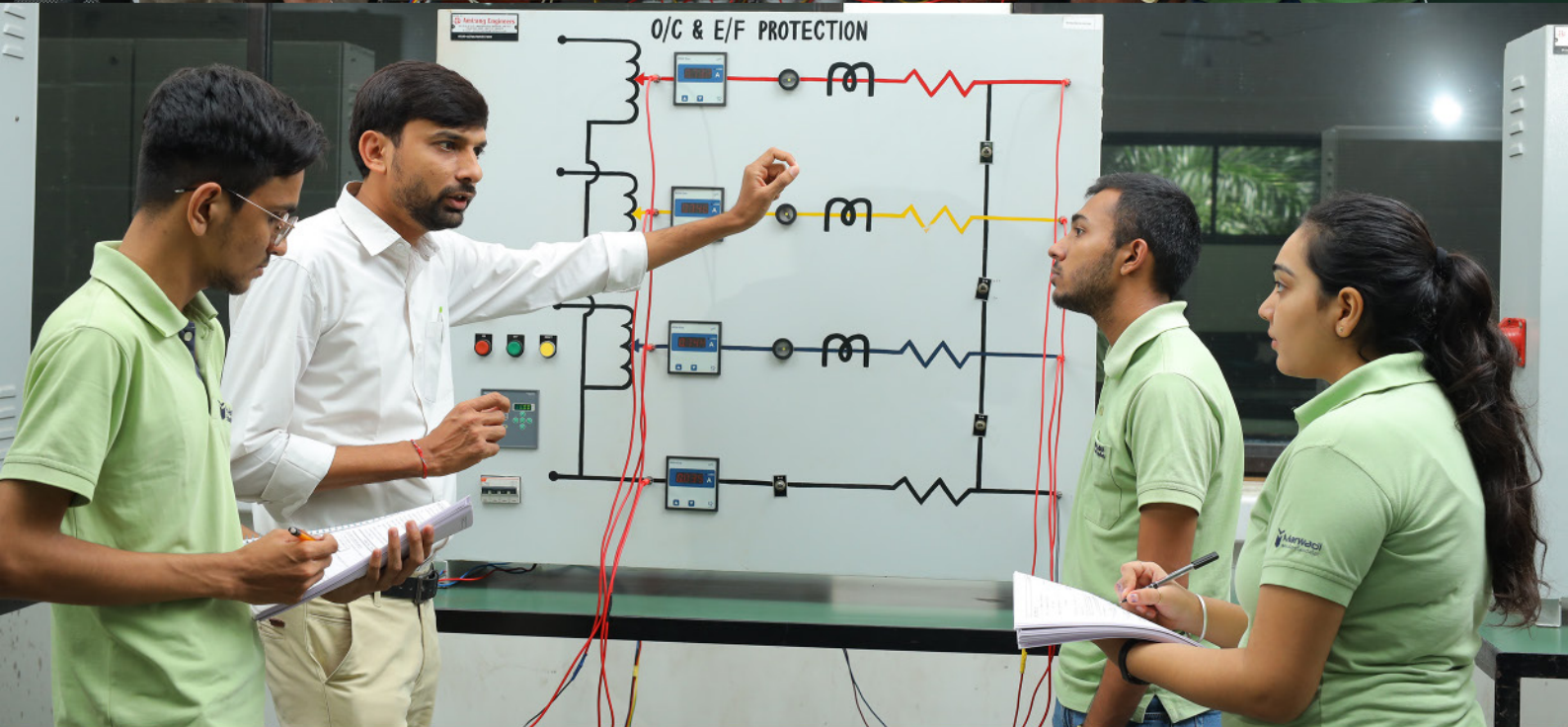
## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
9	26

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Amit Ved	Design Optimization Analysis Based On Demand Side Management of a Stand-alone Hybrid Power System Using Genetic Algorithm for Remote Rural Electrification, Vol.No. : 1, Page. No. : 1-6	Research Paper	IEEE
Prof. Rajesh Patel	Efficiency Improvement of Radial Flux Permanent Magnet Brushless DC Motor Using Hiperco Magnetic Material, Vol.No. : 57-61, Page.No. : 57-61	Research Paper	Seventh Sense Research Group
Prof. Nishant Kothari	A Comparative Evaluation of Data Mining Techniques For Fault Classification in TCSC Lines Using Multiclass Classification Approach," 2021 International Conference on Artificial Intelligence and Smart Systems (ICAIS), 2021, pp. 994-998,	Research Paper	IEEE
Prof. Nishant Kothari	Correlation Coefficients Based Fault Classification Technique for TCSC Lines," 2021 International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), 2021, pp. 1-6, doi: 10.1109/ICAECT49130.2021.9392610.	Research Paper	IEEE
Prof. Nishant Kothari	A Faulty Section Identification Scheme in Thyristor Controlled Series Compensated Transmission Lines Using Superimposed Currents," 2019 8th International Conference on Power Systems (ICPS), 2019, pp. 1-6	Research Paper	IEEE
Prof. Nishant Kothari	Support Vector Machine Based Fault Classification and Faulty Section identification Scheme in Thyristor Controlled Series Compensated Transmission Lines, 2020 IEEE-HYDCON, 2020, pp. 1-5,	Research Paper	IEEE
Prof. Nishant Kothari	A Phasor-Distance Based Faulty Phase Detection and Fault Classification Technique for Parallel Transmission Lines" International Journal of Emerging Electric Power Systems, Vol. 21, no. 4, 2020, pp. 20200018.	Research Paper	De Gruyter





## RESEARCH PROJECTS INITIATED

PROJECT TITLE	PROJECT VALUE	FUNDING AGENCY
Rescue Support Robotics for Earthquake situations	Rs. 36.17 lac	Gujarat Council of Science and Technology

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION OR INSTITUTE	DESIGNATION
Dr R B Jadeja	Marwadi University	Professor & Dean, FoE & FoT
Dr M C Chudasama	L. D. College of Engineering, Ahmedabad	Professor & Head
Dr Santoshkumar Vora	Electrical Engineering, Nirma University, Ahmedabad	Professor and Head
Dr Ranjan Bahera	Dept. of Electrical Engineering, IIT Patna, Patna, Bihar	Associate Professor
Mr Vinod Patel	Amtech Electronics India Ltd., Gandhinagar	AGM (R & D)
Dr Jignesh Makwana	RhyMak Electronics, Bhavnagar	Director
Dr Rajesh Patel	Marwadi University	Professor
Dr Amit D Ved	Marwadi University	Associate Professor
Dr Tapankumar Trivedi	Marwadi University	Sr. Assistant Professor
Mr Nishant Kothari	Marwadi University	Sr. Assistant Professor



## INFORMATION TECHNOLOGY DEPARTMENT

The Department emphasizes on critical and creative thinking as one of the most important parts of the learning process while it encourages students to expand the limits of their knowledge and abilities. It ensures both academic and social-emotional growth and success for which the teaching teams make this happen. The entire faculty collaborates in reviewing our teaching practices and examining student learning and growth.

### GUEST LECTURES

**Dr Vinodkumar Mall** | Director General of Police-Govt Of Gujarat  
"Cyber Security and Prevention" | 17th February, 2021

**Mr Nehal Bhau** | Co-Founder, CTO & Vice President, Engineering at Proximo,  
a Silicon Valley based Startup,  
"Roadmap to Building Startup and Embracing Entrepreneurship" | 30th March, 2021

**Mr Jitendra Mehta** | Microsoft Student Learn Ambassador  
"Cloud Service 101" | 6th June, 2021

**Miss Sunanda Khargaria Baruah** | Quality Manager and Consultant at Credit Suisse, Pune,  
Campus to Cooperate – Kick start the professionalism" | 6th March, 2021

**Mr Parthrajsinh Jadeja** | a Programmer Analyst at Cognizant Pune and Mr. Manan Pandya  
Network Engineer at Amazon Inc. USA, in conversation with  
MU Alumni Career guidance talk | 7th March, 2021



## WORKSHOPS

GUJCOST Sponsored STTP on "Research Methodology and Research Paper Writing", Prof. Harsh Mehta & Prof. Saurabh Shrivastava, Marwadi University – 10th to 15th December, 2020

GUJCOST Sponsored workshop on "Design and Development of web and mobile applications", Prof. Harsh Mehta & Prof. Saurabh Shrivastava, Marwadi University – 9th & 10th January, 2021

## EVENTS

Special Employability Training (SET), a technical training programme to clear fundamentals of the important subjects considering the placement process – 21st June to 3rd July, 2020

Hands-on Workshop for utilizing Jetson Nano kit in Deep Learning, to know about the basics of Nvidia Jetson Nano single board computer – 23rd January, 2021

“Front End Web Development”, Prof. Hardik Doshi (HOD) and Prof. Rachit Adhvaryu, Marwadi University, 18th to 23rd January, 2021

“Web App Development with Bootstrap and Angular”, Prof. Tejas Chauhan and Prof. Munindra Lunagaria, Marwadi University, 10th to 17th April, 2021

## COLLABORATIONS INITIATED

ORGANISATION	COUNTRY	GIST OF COLLABORATION
Google	Google India	Google Cloud Career Readiness Program curriculum prepares faculties and students for the globally recognized industry certification Google Cloud Certification
AWS	AWS India	AWS Academy Benefits for educators and students; <ul style="list-style-type: none"><li>Access AWS authored curriculum</li><li>Build skills aligned with AWS certification</li><li>Educators earn accreditation</li><li>Grow AWS cloud workforce</li></ul>

## STUDENT CLUB ACTIVITIES

The department actively organises various activities under its student club “Nurturing Bright Students”. Following activities were held during the year.



TITLE	OUTCOMES OF EVENT
Machine Learning	Machine Learning is concerned with computer programs that automatically improve their performance through experience
Advance Web Technology	The presented technologies are further investigated and applied in hands-on sessions as well as small student projects carried out throughout the course
Cyber Security	Cyber security is the combination of processes, practices, and technologies designed to protect networks, computers, programs, data and information from attack, damage or unauthorized access
Big Data	Big Data Era has come to be. It is for those who want to become conversant with the terminology and the core concepts behind big data problems, applications, and systems. It is for those who want to start thinking about how Big Data might be useful in their business or career.
UI / UX	UI/UX Domain focuses on enhancing the front end design and user experience
JAVA	To develop programming and logical skills of students to clear the technical question round during interview. To inculcate Web Development including Java Web Development and basic database designing skills. To equip students with the knowledge of various design patterns and development of Java Applications.



## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAM TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	3
Conferences & Seminars attended	6

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Kirtirajsinh Zala Prof. Madhu Shukla	“An Architecture Model for Privacy Preservation on E-Health Care Data in Cloud Environment” in the 2021 IEEE Sponsored International Conference on Emerging Trends in Industry 4.0 (ETI 4.0) held at OP Jindal University, Raigarh, Chhattisgarh, India during 19 - 21, May 2021.	Research Paper	IEEE Xplore, Web of Science, Scopus

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Krunal Vaghela	Marwadi University	Chairperson
Mr Santosh Champaneri	St. Francis Institute of Technology, University of Mumbai	Member
Dr Rajnikant Aluvalu	Vardhaman College of Engineering, Hyderabad, Telangana	Member
Dr R B Jadeja	Marwadi University	Member
Prof. Jay Teraiya	Marwadi University	Member

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## AI & BIG DATA ANALYTICS

The Department focuses on engaging every student with the right teaching so that each and every student feels involved with their education. It emphasizes on critical and creative things as the most important part of learning process which is continuously encouraged to expand the limits of knowledge and abilities in students. The Department ensures both academic and social-emotional growth and successes. Faculty members collaborates in reviewing teaching practices and examining student learning and growth. The collegial and deliberated work by the faculty members allows reaching out to students in excelling their areas of studies.

### GUEST LECTURES

**Dr Vinodkumar Mall** | Director General of Police-Govt Of Gujarat  
"Cyber Security and Prevention" - 17th February, 2021

**Mr Nehal Bhau** | Co-Founder, CTO & Vice President, Engineering at Proximo  
a Silicon Valley based Startup  
"Roadmap to Building Startup and Embracing Entrepreneurship" | 30th March, 2021

**Mr Jitendra Mehta** | Microsoft Student Learn Ambassador  
"Cloud Service 101" | 6th June, 2021

**Mr Devansh Satwara, Ms. Kripa Kundaliya**  
"Getting started with UI/UX Designing" | 1st March, 2021

**Miss Sunanda Khargaria Baruah**, Quality Manager and Consultant at Credit Suisse, Pune  
Campus to Cooperate | Kick start the professionalism" | 6th March, 2021

**Mr Parthrajsinh Jadeja** | A Programmer Analyst at Cognizant Pune &  
**Mr Manan Pandya** | Network Engineer at Amazon Inc. USA, in conversation with  
MU Alumni Career guidance talk | 7th March, 2021

**Mr Neeraj Pandey** | Vice President-VOIS  
"5g- Key Building Blocks And Monetization Opportunities" | 25th March, 2021

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### WORKSHOPS

GUJCOST Sponsored STTP on "Research Methodology and Research Paper Writing", Prof. Harsh Mehta & Prof. Saurabh Shrivastava, Marwadi University – 10th to 15th December, 2020

GUJCOST Sponsored workshop on "Design and Development of Web and Mobile Applications", Prof. Harsh Mehta & Prof. Saurabh Shrivastava, Marwadi University – 9th & 10th January, 2021

A workshop by Prof. Santosh Chapaneri, St. Francis Institute of Technology, University of Mumbai, "Python with Machine Learning", 11th June, 2020 was organized to widen knowledge on Machine Learning working along with Python programming concepts

## EVENTS

Special Employability Training (SET), a technical training program to clear fundamentals of the important subjects considering the placement process – 21st June to 3rd July, 2020

Hands-on Workshop for utilizing Jetson Nano kit in Deep Learning, to know about the basics of Nvidia Jetson Nano single board computer – 23rd January, 2021

Vodafone Program: University Engagement Initiative, “Workshop on Linux and Data Analytics” – the workshop aimed to provide an opportunity to learn and build foundational skills in some of the widely used industry application areas. It also focused on providing a hands-on learning experience for designing applications for several real-world use-cases

A talk on “Deep Learning Applications, Market Trends and Opportunities” – 1st October, 2020

## STUDENT CLUB ACTIVITIES

The department actively organises various activities under its student club “Nurturing Bright Students”. Following activities were held during the Year.

TITLE	OUTCOMES OF EVENT
Machine Learning	Machine Learning is concerned with computer programs that automatically improve their performance through experience
Advance Web Technology	The presented technologies are further investigated and applied in hands-on sessions as well as small student projects carried out throughout the course
Cyber Security	Cyber security is the combination of processes, practices, and technologies designed to protect networks, computers, programs, data and information from attack, damage or unauthorized access
Big Data	Big Data Era has come to be. It is for those who want to become conversant with the terminology and the core concepts behind big data problems, applications, and systems. It is for those who want to start thinking about how Big Data might be useful in their business or career.
UI / UX	UI/UX Domain focuses on enhancing the front end design and user experience
JAVA	To develop programming and logical skills of students to clear the technical question round during interview. To inculcate Web Development including Java Web Development and basic database designing skills. To equip students with the knowledge of various design patterns and development of Java Applications.



## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	5
Conferences & Seminars attended	6

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Aastha Masrani, Dr Madhu Shukla, Prof. Kishan Makadiya	Empirical Analysis of Classification Algorithms in Data Stream Mining	Research Paper	Springer
Dr Chetansinh Vaghela, Dr Nita H Shah	Optimal Preservation Technology Investment and Price for the Deteriorating Inventory Model with Price-Sensitivity, Stock-Dependent Demand	Book	CRC Press, Taylor & Francis
Dr Shobhitkumar Patel	High sensitivity refractive index sensor in long-range surface plasmon resonance based on side polished optical fiber	Research Paper	Academic Press
Dr Shobhitkumar Patel	Numerical investigation of wideband L-shaped metasurface based solar absorber for visible and ultraviolet region	Research Paper	John Wiley & Sons, Inc.
Dr Shobhitkumar Patel	Numerical investigation of tunable multistacked metamaterial-based graphene grating	Research Paper	John Wiley & Sons, Inc.
Dr Shobhitkumar Patel	Numerical investigation of dual guided elliptical ring core few-mode fiber for space division multiplexing applications	Research Paper	Urban & Fischer
Dr Shobhitkumar Patel	High gain multiband and frequency reconfigurable metamaterial superstrate microstrip patch antenna for C/X/Ku-band wireless network applications	Research Paper	Springer US
Dr Shobhitkumar Patel	Wideband graphene-based near-infrared solar absorber using C-shaped rectangular sawtooth metasurface	Research Paper	North-Holland
Dr Shobhitkumar Patel	Tunable infrared metamaterial-based biosensor for detection of hemoglobin and urine using phase change material	Research Paper	Nature Publishing Group

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Dr Shobhitkumar Patel	Exploring the Optical Properties of Exposed-Core-Based Photonic-Crystal Fibers	Research Paper	Springer US
Dr Shobhitkumar Patel	Deep Learning Inspired Routing in ICN using Monte Carlo Tree Search algorithm	Research Paper	Elsevier
Dr Shobhitkumar Patel	Numerical Investigation of Gold Metasurface Based Broadband Near-Infrared and Near-Visible Solar Absorber	Research Paper	North-Holland
Dr Shobhitkumar Patel	Nonlinear Studies of Graphene Oxide and its Application to Moisture Detection in Transformer Oil Using D-shaped Optical Fibre	Research Paper	Taylor and Francis
Dr Shobhitkumar Patel	Graphene-based Tunable Infrared Multi Band Absorber	Research Paper	North-Holland
Dr Shobhitkumar Patel	Broadband and Efficient Graphene Solar Absorber Using Periodical Array of C Shaped Metasurface	Research Paper	Springer
Dr Shobhitkumar Patel	Numerical Investigation of Liquid Metamaterial-Based Superstrate Microstrip Radiating Structure	Research Paper	Physica B: Physics of Condensed Matter
Dr Shobhitkumar Patel	Numerical Analysis of Polarization-Insensitive Squared Spiral-Shaped Graphene Metasurface with Negative Refractive Index	Research Paper	Springer Berlin Heidelberg
Dr Shobhitkumar Patel	One-dimensional Ring Mirror-defect Photonic Crystal for Detection of Mycobacterium Tuberculosis Bacteria	Research Paper	Urban & Fischer
Dr Shobhitkumar Patel	Broadband Metamaterial-based Near-infrared Absorber Using an Array of Uniformly Placed Gold Resonators	Research Paper	Optical Society of America

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr B Amutha	SRM Institute of Science & Technology	Member
Dr Madhuri Bhavsar	Nirma University	Member
Dr Atul Negi	School of Computer & Information Science, University of Hyderabad	Member
Prof. Santosh Champaneri	St. Francis Institute of Technology, University of Mumbai	Member
Dr Jayakumar S	Rinanu Semi conductor LLP, Bangalore	Member
Mr Savan Anjaria	Intel Technology India Pvt. Ltd, Bangalore	Member
Mr Akash Ladani	Infostretch Corporation Pvt. Ltd, Ahmedabad	Member
Mr Parthrajsinh Jadeja	Cognizant	Member



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## CHEMICAL ENGINEERING DEPARTMENT

The Department published a number of papers in Index journals along with chapters in books published by Springer, Taylor & Francis, Elsevier etc. Department swiftly aligned itself with online teaching methodology, where every faculty member reached out to individual students through online teaching mode. Department organised webinars to address the learning needs of students, academicians as well as industry resource persons who immensely contributed to this series. Department focuses on overall growth of the students, in order to cater to the needs of the industry.

### GUEST LECTURES

**Mr Shyam Pitkar | Tetra Pak India | Prof. Abhishek Gupta | Prof. Ritesh Palkar** | Marwadi University, “Skill based approach for Engineering Graduates” | 23rd May, 2020

**Mr Sami El Geneidy, Prof. Abhishek Gupta & Dr Archana Sharma** | University of Jyväskylä & Marwadi University, “Environmental Management in Universities: Assessment, Mitigation and Compensation of Emissions” | 18th June, 2020

**Prof. Hitesh Rathod & Prof. Hirendrasinh Padhiyar** | CEPT University & Marwadi University, “Application of GIS in Environmental Engineering” | 27th May, 2020

**Prof. Abhishek Gupta & Prof. Ritesh Palkar** | Marwadi University  
“How to start Academic Project” | 9th May, 2020

**Prof. Sumit Jaiswal & Prof. Prinsa Siddhapura** | Marwadi University  
“Methods in Microbiology” | 9th May, 2020

**Dr Muthukumar S** | Assistant Professor, Department of Bioengineering, BITS, MESRA  
“BioEngineering” | 8th February, 2021

**Dr Arvind Kumar Mungray** | Associate Professor, Department of Chemical Engineering, SVNIT-Surat  
“Sustainable Wastewater Treatment” | 8th February, 2021

**Prof. Varun Agrawal** | Marwadi University  
“Application of Bioremediation in waste water treatment” | 21st May, 2020

**Prof. Nitin Kumar Singh** | Marwadi University  
“Sustainable waste water treatment systems: A pandemic warrior” | 20th May, 2020

**Prof. Abhishek Gupta & Prof. Archana Sharma** | Marwadi University  
“Waste minimization & resource recovery” | 26th May, 2020

**Prof. Varun Agrawal** | Marwadi University  
“Clean Environment Technologies” | 14th May, 2020

**Prof. Abhishek Gupta & Prof. Archana Sharma**  
Marwadi University, “Introduction to Solid Waste Management” | 22nd May, 2020



In collaboration with IEI India, on the occasion of World Environment Day, “Ecological Restoration” was held on 5th June, 2021 to raise global awareness to take positive environmental action to protect nature and the planet earth.

## STUDENT PARTICIPATION

Students from the Department participated in National level technical competition, “Sustainable Community Design (SCD 2021)” organised by Manipal University Jaipur, for sustainable community design ideas.

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	1
Conferences & Seminars attended	3



## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Abhishek Gupta	An Opinion Review on Sampling Strategies, Enumeration Techniques, and Critical Environmental Factors for Bioaerosols: An Emerging Sustainability Indicator for Society and Cities, Vol 21- 101287	Research Paper	Environmental Technology & Innovation, Elsevier
Prof. Abhishek Gupta	Indoor Air Quality and Green Building: Nexus for Sustainable Development, pp. 199-214	Book Chapter	Green Innovation, Sustainable Development, and Circular Economy, CRC Press
Dr Nitin Kumar Singh	Sustainable Technologies for On-site Domestic Wastewater Treatment: a Review with Technical Approach. Pg. 1-52	Research Paper	Environment, Development and Sustainability, Springer Publications
Dr Nitin Kumar Singh	Greenhouse Gases Emission Control in WWTS via Potential Operational Strategies: A Critical Review. Pg. 129694.	Research Paper	Chemosphere, Elsevier Publications
Dr Nitin Kumar Singh	Organizational Resilience and Social-economic Sustainability: COVID-19 Perspective. Pg. 1-18	Research Paper	Environment, Development and Sustainability, Springer Publications
Dr Nitin Kumar Singh	A State-Of-The-Art Review on WWTP Associated Bioaerosols: Microbial Diversity, Potential Emission Stages, Dispersion Factors, and Control Strategies. Pg. 124686.	Research Paper	Journal of Hazardous Materials,
Dr Nitin Kumar Singh	Ensuring Sustainability of Conventional Aerobic Wastewater Treatment System via Bio-Augmentation of Aerobic Bacterial Consortium: An Enhanced Biological Phosphorus Removal Approach. 262, 121328.	Research Paper	Journal of Cleaner Production, Elsevier Publications

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Dr Nitin Kumar Singh	Green Innovation, Sustainable Development, and Circular Economy, 249	Book	CRC Press
Dr Nitin Kumar Singh	Applications of Moringa Oleifera for Wastewater Treatment: Concepts and Approaches. pp. 129-140	Book Chapter	Green Innovation, Sustainable Development, and Circular Economy, CRC Press
Dr Nitin Kumar Singh	Using Black Soldier Fly Larvae for Sustainable Waste Management: A New Perspective on Circular Economy. pp. 97-112	Book Chapter	Green Innovation, Sustainable Development, and Circular Economy, CRC Press
Dr Nitin Kumar Singh	Circular Economic Business Models: Responsible Research and Innovation Opportunities in the Emerging Economies. pp. 215-226	Book Chapter	Green Innovation, Sustainable Development, and Circular Economy, CRC Press
Dr Nitin Kumar Singh	Metabolic Products of Mixed Culture Fermentation. pp. 75-92	Book Chapter	Engineering of Microbial Biosynthetic Pathways, Springer Publications
Dr Nitin Kumar Singh	Bacterial Production of Organic Acids and Subsequent Metabolism, pp. 153-173	Research Paper	Engineering of Microbial Biosynthetic Pathways, Springer Publications
Dr Nitin Kumar Singh	Microbial Strain Engineering, pp. 11-32	Research Paper	Engineering of Microbial Biosynthetic Pathways, Springer Publications

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Dr Nitin Kumar Singh	Engineered Bacteria for Bioremediation. pp. 359-374	Book	Bioremediation of Pollutants. Elsevier Publications
Dr Nitin Kumar Singh	Biosurfactant-based Bioremediation, pp. 333-358	Book Chapter	Bioremediation of Pollutants. Elsevier Publications
Dr Nitin Kumar Singh	Bioreactor and Bioprocess Technology for Bioremediation of Domestic and Municipal Wastewater, pp. 251-273	Book Chapter	Bioremediation of Pollutants. Elsevier Publications
Dr Nitin Kumar Singh	Microbial Remediation Progress and Future Prospects, pp. 187-214	Book Chapter	Bioremediation of Pollutants. Elsevier Publications
Dr Nitin Kumar Singh	Recent Advances in Phytoremediation Using Genome Engineering CRISPR–Cas9 Technology, pp. 125-141	Book Chapter	Bioremediation of Pollutants. Elsevier Publications
Dr Nitin Kumar Singh	Role of Potential Native Weeds and Grasses for Phytoremediation of Endocrine-disrupting Pollutants Discharged from Pulp Paper Industry Waste, pp. 17-37	Book Chapter	Bioremediation of Pollutants. Elsevier Publications

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Amit Dhir	School of Energy and Environment, Thapar Institute of Engineering & Technology, Patiala, Punjab	Member
Dr Mammen Daniel	Dept. of Botany, Ex-Dean, Faculty of Science, M. S. University, Vadodara, Gujarat	Member
Mr Manish Yadav	CMPDI RI-VII (Subsidiary of Coal India), Bhubaneswar, Odisha	Member



The faculty members at the department swiftly incorporated online teaching in an efficient way by undergoing different training programmes in order to enhance the teaching skills, project-based learning. The Department organised webinars to address the needs of students, academicians as well as industry resource persons contributed to this series.

### GUEST LECTURES

**Mr Sameer Rege** | Director, Mailhem Groups, Pune  
“Bio-CNG: Fuel For Future” | 27th May, 2020

**Mr Vijay Surya J** | Senior Plant Manager, Indian Oil Corporation Ltd  
“Four Pillars & India’s Energy” | 28th May, 2020

**Dr Uday Bagale & Dr. Ritesh Palkar** | Sr. Research Scientist, Department of Food & Biotechnology, South Ural State University, Chelyabinsk, Russian federation,  
“Nanotechnology and its Application In Corrosion Inhibition” | 18th May, 2020

**Mr Shyam Pitkar, Mr. Abhishek Gupta & Dr. Ritesh Palkar** | Project Leader at Tetra Pak India, Pune  
“Skill Based Approach for Engineering Graduates” | 23rd May, 2020

**Mr Vishal Chovatiya, MS Germany**  
“Strategic Planning for Higher Studies Abroad” | 1st June, 2020

**Dr B. Basu** | Retired General Manager, Reliance Greens, Ex. Scientist BTRA Mumbai,  
Ex. Coordinator, Power loom service center, Ministry of Textile, Bhiwandi  
“Scope and Challenges for Chemical Engineers in Industries” | 6th March, 2021

**Mr. Abhijeet Kulkarni** | MD & CEO Flowrhex, Proburgeon Pvt. Ltd. Pune  
“Flow chemistry and its application in chemical industry” | 5th April, 2021

**Dr Muthukumar S** | Assistant Professor, Department of Bioengineering, BITS, MESRA  
“BioEngineering” | 8th February, 2021

**Dr Arvind Kumar Mungray** | Associate Professor, Department of Chemical Engineering, SVNIT-Surat,  
“Sustainable Wastewater Treatment” | 8th February, 2021

**Mr Prasanta Giri** | General Manager, Reliance India Ltd.,  
“General Outlook on Petrochemical industry” | 17th February, 2021



## WORKSHOP ORGANISED

A virtual workshop, “Petroleum Refining” by Prof. Divya Tirva & Prof. Sowbarnika Rajamohan was organised on 14th June, 2021 to orient students with detailed overview of petroleum refining.

## WEBINAR AND TALKS

WEBINAR TITLES	IMPACT & OUTCOME OF THE EVENT
Branch specific career guidance talk	Students were oriented with information regarding scope of Chemical Engineering
How to start an academic Project ?	Details of the academic project and systematic way to conduct the academic research
Process intensification in chemical industries	Students were guided how to develop sustainable and cost-effective chemical process systems, driven by the reduction of the equipment size, energy consumption, or waste generation
Demonstration to endnote software	Demonstration of Endnote software is given to student which is useful to do referencing a basic requirement f any project report.
BIO-FUELS:Pros & Cons	Need and availability of alternate fuel was discussed during this talk
Working with GC & HPLC in chemical industries	Advanced instrumentation and their importance in chemical and their allied industries was discussed in this webinar.
Future trends in chemical engineering	Insight story about current and future trend in Chemical Engineering wereshared with the students
Polymer and their Applications	Students have learned various basic application of polymer and what is the role of a chemical engineer in these types of industries

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
2	2



## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Nirav Raykundaliya	Duality of Foam Stabilization	Research Paper	Colloids and Surfaces A: Physicochemical and Engineering Aspects 619 (2021) 126521
Dr Ritesh Palkar	Review of Polydimethylsiloxane (PDMS) as a Material for Additive Manufacturing (pp 265-275)	Book chapter	Springer, Singapore
Dr Ritesh Palkar	Role of Corrosion Inhibitors and Mixed Inhibitor Effect in Cooling Tower Chemical Treatment (pp13160–13171)	Research Paper	Association of Cell Biology Romania
Dr Ritesh Palkar	Water Reduction Potential in Thermal Power Plant in India (pp13160–13171)	Research Paper	Solid State Technology

## PATENT APPLICATIONS

SR. NO.	APPLICATION NO.	APPLICANT NAME	PATENT TITLE	PUBLICATION DATE
1	202121020749	Prof. (Dr) Ritesh Palkar	A printing apparatus using Solar lithography technique.	07/05/2021

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Deepak Jain	Pharmaceutical Sciences, Zoetis, Mumbai.	Director
Mr Prasanta Giri	Reliance Industries, Jamnagar, Gujarat	General Manager
Dr Swapnil Dharskar	Department of Chemical Engineering, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat	Head of Department
Dr Vineet Kumar Rathore	Department of Chemical Engineering, SVNIT, Surat, Gujarat	Assistant Professor



The Department of Chemistry provides a broad foundation in Chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective. It develops students with the skills required to succeed in the chemical industry and professional courses. Students were exposed to a breadth of experimental techniques using modern instrumentation, equally with co-curricular activities virtually as well as physically. Experts were invited virtually in the workshop or expert talk to explore and share knowledge, celebrated days of importance, organised activities in online mode with high enthusiasm. Researchers at the Department published research papers/book/book chapters in reputed publishing house.

### EXPERT TALKS & WEBINARS

**Dr Vishal J Mayani** | Professor, Department of Chemistry, Marwadi University  
"Selection of research theme" | 11th May, 2020

**Dr Suranjana V. Mayani** | Professor, Department of Chemistry, Marwadi University  
"Research paper writing" | 12th May, 2020

**Dr Subrata Patra** | Professor, Department of Chemistry, Marwadi University  
"Bonding in Coordination complexes" | 13th June 2020

**Dr Yashwantsinh Jadeja, Professor** | Department of Chemistry, Marwadi University  
"Online NMR lecture series" | 16th & 17th May, 2020

**Dr Sharad Karad** | Professor, Department of Chemistry, Marwadi University  
"Crystal field theory" | 19th June 2021

**Dr Hetal Jebaliya** | Professor, Department of Chemistry, Marwadi University  
"Chromatography" | 21st June 2021

**Dr Suranjana Mayani** | Professor, Department of Chemistry, Marwadi University  
"Potentiometry and pH metry" | 23rd June 2021

### WORKSHOP ARRANGED

Two day workshop on "Moving up the Analytical Ladder: From Fundamentals of Chromatography to Hybrid Mass Spectrometry", 8th & 9th April, 2021, Mr Prabhat Mukharjee, Dr Moreshwar Hude, Mr Gaurav Kulkarni, Agilent Technologies India Pvt. Ltd. The workshop aimed to orient students about separation mechanism & method development approach, recent advances in Spectroscopy & Chromatography and awareness from Fundamentals of Chromatography to Hybrid Spectrometry.

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## EVENTS ORGANISED

“Role of Women Scientists during any Disaster/Pandemic” on the occasion of Women’s Day. On 3rd March, 2021 the Department celebrated Women’s Day by organising various activities for female students such as oral and poster presentations describing the role of women scientist during this pandemic. The students participated with enthusiasm and innovative ideas by selecting interesting topics of stories with several women in India as well as in other parts of the world, which helped other students to introspect.

“English Day Celebrations”, on regular intervals the Department organises English Day with an objective to promote interest and encourage students to inculcate a sense of scientific creativity and current affairs through different types of ideas. It helped the students to create an awareness regarding science and its impact on the sustainable development of the society.

## STUDENT PARTICIPATIONS

Ms Aditi Singh, MSc Semester 2 & Ms Taral Patel, M Sc Semester 4 participated in Virtual International Conference from 9th to 11th March, 2021 on Green Technology for Sustainable Development - 2021 a global event designed to provide platform for the deliberations on the Theme: “Sustainable development through green and clean technology for better future business”.

Mr Dharam Padariya, MSc Semester 2 participated in National webinar on Nanotechnology for transforming the future: challenges and opportunities. The focal area of webinar was to deliver recent challenges and advantages in the field of nanotechnology.

National Science Day celebration “Brilliant Brains” was celebrated on 28th February, 2021 to mark the discovery of the Raman effect by Indian physicist Sir C V Raman on 28 February 1928

## FACULTY ACHIEVEMENTS

Best Paper Presentation Award was received by Prof. Jayanti Makasana for the oral presentation. Paper titled “A simple and validated HPTLC Method for Simultaneous Determination of four Bioactive Phytoconstituents in Clitoria Ternatea Linn” in a Virtual International Conference on Chemical Sciences in Sustainable Technology and Development organised by Applied Chemistry Department, SVNIT, Surat, Gujarat, India in Association with Chung-Ang University, South Korea held on 1st to 3rd December, 2020.

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	3
Conferences & Seminars attended	9

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
8	8

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Dr Suranjana Mayani	Synthesis of Green Au(Salen) <sub>2</sub> for Catalytic Degradation of Dye. ISBN 978-620-2-67378-5	Book	Lambert Academic Publishing, Germany
Dr Suranjana Mayani	Sustainable Organo-Inorganic Metal Composites for Catalytic Degradation of Industrial Persistent Toxic Substances and Energy Storage, 102 (2021) 106-127, ISSN 2471-8890	Book Chapter	Materials Research Foundations, Materials Research Forum LLC, USA
Dr Suranjana Mayani	Green Technologies for Sustainable Development- GTSD2021	E proceeding ISBN: 978-93-54 57-142-8	Department of Chemical Engineering, Dharmsinh Desai University, Nadiad
Dr Pravin Bhalerao	Curing of Epoxy Resin by Using Commercial Amine/hydrazine and its Effect on Ultra Violet Spectrum.	Book Chapter	CHEMBIOEN-2021
Dr Vicky Jain	Design, Synthesis and Antitumour Evaluation of Pyrrolo [1, 2-f]-phenanthridine & Dibenzo [f, h] Pyrrolo [1, 2-b] Isoquinoline Derivatives, 202, 1116-25,	Research Paper	European Journal of Medicinal Chemistry, 2020

## PATENTS APPLICATIONS

APPLICATION NO.	APPLICANT NAME	APPLICATION DATE	PATENT TITLE	PUBLICATION DATE
202121020749	Dr Sarang Pande Dr Ritesh Palkar Dr Yogesh Jani Dr Pravin Bhalerao Mr Pratik Munjani	February-2021	A Printing Apparatus (3D Printer) using Solar Lithography Technique	Patent file

## RESEARCH PROJECTS UNDERTAKEN

PROJECT TITLE	FUNDING AGENCY	PROJECT VALUE
Synthetic strategies for the nitrogen/oxygen enclosed bioactive Natural products	Student Startup and Innovation Programme	₹. 1,50,000
Method Development and Synthesis of Biologically active derivatives of Drug	Student Startup and Innovation Programme	₹. 2,50,000
Deflouridation of water by grapheme metal ferrite composite	Student Startup and Innovation Programme	₹. 2,00,000

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Anamik Shah	Gujarat Vidyapith, Ahmedabad	Vice chancellor
Dr Kamalesh Prasad	CSMCRI, Bhavnagar	Sr. Scientist
Dr Naval Kapuriya	Bhakt Kavi Narsinh Mehta University, Junagadh	Associate Professor
Dr Nirmal Kumar	Zydus Cadila, Ahmedabad	Research Head
Dr Vicky Jain	Marwadi University, Rajkot	Head of the Department
Dr Suranjana Mayani	Marwadi University, Rajkot	Associate Professor
Dr Hetal Jebaliya	Marwadi University, Rajkot	Associate Professor
Dr Subrata Patra	Marwadi University, Rajkot	Associate Professor



The Year 2020-21 was filled with mixed feelings for the Department. Students, due to pandemic, had to learn through hybrid mode which is an amalgamation of online and offline teaching. Faculty members could see the silver lining of the cloud by utilizing their extra time in upgrading themselves by means of various MOOCs from the platforms viz. Coursera, NPTEL etc. Faculty members honed their teaching skills by undergoing various FDPs and STTPs organised by reputed institute/universities i.e. IITs, NITs, Delhi University, etc. Department successfully organised its first ever International Conference called CONIAPS-XXVI. Both students and Faculty member participated in the conference by presenting their research work.

### WEBINARS ORGANISED

**Prof. Gautam Hathiwala** | Professor, Department of Mathematics.

“Biography of Zero” | 16th May 2020

Talk focused on earliest civilization to think about Zero, subsequent civilizations what they thought about Zero, Numeral System that were followed by different civilizations at times and trouble in Arithmetic and algebra for earliest civilizations when it came to Zero.

**Prof. Gautam Hathiwala** | Professor, Department of Mathematics.

“A Quest for The Infinity” | 4th June 2020

Talk focused on Mathematical Infinity, Distinction between Countable Infinity and Uncountable Infinity, What is a Paradox, Hilbert’s Infinity Hotel Paradox & Gabriel’s Horn Paradox and Contribution of Georg Cantor in the Development of Concept of Infinity.

**Prof. Gautam Hathiwala** | Professor, Department of Mathematics.

“Ethereal Mathematics” | 19th October 2020

Webinar focused on brief history of Fibonacci numbers, Physical presence of Fibonacci numbers in Nature and Cosmos, Mathematical Constants like  $\phi$ -the golden ratio Occurring in Physical world/cosmos and Intriguing Mathematical Properties of  $\phi$ .

**Prof. Gautam Hathiwala** | Professor, Department of Mathematics.

“Sacred Numbers” | 26th October 2020

Webinar focused on thoughts about Mathematics as a subject, of various well-known figures of the past, spontaneous occurrence of constants in nature, significance of the number 108 in particular religions and relationship between 108 and  $\phi$ - the golden ratio.

### INTERNATIONAL CONFERENCE: CONIAPS XXVI

An International Conference with a theme “Advances in Algebra and Analysis” (CONIAPS-XXVI) was organised by the Department of Mathematics in association with International Academy of Physical Sciences during 18th to 20th December, 2020. The conference witnessed participation of 22 eminent speakers for the Plenary & invited talks from different corners of the country & from reputed institutes like IITs, Central Universities, BHU, NITs and many other academia’s of good repute with 306 participants across the globe.

The conference aimed at performing research in conjunction with others as well as individually, communicate mathematical ideas with clarity and coherence, both written and verbally and solve problems in the advanced areas of Algebra, Analysis, Number Theory, Cryptography, and areas of Physical Sciences with the use of Mathematics.

## EVENT ORGANISED

“Pi Day” was celebrated at the Department on 13th March, 2021. The participants acknowledged the historical significance of the value of ‘ $\pi$ ’ and how painstaking efforts were put by Enthusiasts of Mathematics to arrive at this value through their own approach. The participants also realised the importance of calculating the value of ‘ $\pi$ ’ to the maximum possible number of decimals, to enhance the precision of supercomputers for various technical purposes. It was also appreciated that the technical importance of the value of ‘ $\pi$ ’ and felt motivated to pursue their research in the same, with proper guidance.

## STUDENT PARTICIPATIONS

Ms Devangi Sojitra, MSc Semester 4, presented a paper in International Conference “CONIAPS XXVI” conducted by the Department during December 18th – 20th , 2020

Ms Bansari Rayjada, MSc Semester 4, presented a paper in International Conference “CONIAPS XXVI” conducted by the Department during December 18th – 20th , 2020

Mr Elluvila Jinu Jose and Mr Aayush Singh Sagar presented a poster “Applications of Data Science and Mathematics in Finance” in International Symposium “Recent trends in Science and Technology” Christ College, Rajkot during 8th – 9th April, 2021

19 students of M Sc Mathematics and 10 students of B Sc participated in the International Conference “CONIAPS XXVI” conducted by the Department during December 18th – 20th , 2020

13 students from MSc Semester 1 participated in 12 weeks MOOC: Optimization from fundamentals by Prof. Ankur A. Kulkarni, IIT Bombay through NPTEL. Course covered the topic of optimization from its fundamentals. It starts with an overview of real analysis and convexity. With this base it covered linear programming, convex optimization and nonlinear programming, complementary problems and algorithms for the same

05 students of BSc Semester 5 participated in 8 weeks MOOC: Operations Research by Prof. Kusumdeep, IIT Roorkee through NPTEL from July 20 to September 11, 2020

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	5
Conferences & Seminars attended	9

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PH.D. SUPERVISORS
4	5

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Minakshi Hathiwala Prof. Jignesh Chauhan Prof. Gautam Hathiwala	“Fuzzy-Genetic Approach to Epidemiology”, book entitled “Mathematical Modeling and Soft Computing in Epidemiology”, ISBN 9780367903053	Book Chapter	Taylor & Francis, CRC Press, 2020.
Prof. Minal Shukla	“The B-chromatic Number of Helm and Closed Helm”	Paper Presentation	“CONIAPS XXVI”
Prof. Minal Shukla	“Dominant Coloring of Some Cycle Related Graphs”	Paper	International Journal of Research Culture Society

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Ajay K. Shukla	Department of Mathematics and Humanities, SVNIT, Surat.	Professor
Dr B I Dave	Department of Mathematics, Faculty of Science, The M. S. University of Baroda, Vadodara	Professor
Dr J C Prajapati	Department of Mathematics, Sardar Patel University, Vallabh Vidya Nagar, Anand	Associate Professor
Dr Subhanshu Goyal	Department of Mathematics, Marwadi University, Rajkot	Assistant Professor
Dr Minakshi B Hathiwala	Department of Mathematics, Marwadi University, Rajkot	Assistant Professor
Dr Minal Shukla	Department of Mathematics, Marwadi University, Rajkot	Assistant Professor

Amidst the pandemic initiated in March 2020, Faculty members and students were trained and guided for rapid transition in online teaching and learning mode. The limitations of practicals were addressed by virtual laboratory sessions via diverse virtual platforms. The Faculty members of department were also inspired to engage in various FDPs related to effective online teaching and ICT tools. Faculty members of department also took up different advance conceptual technical courses through Courseera which polished their research and analytical skills. Looking upon the importance of medical trained professionals, the Department has also initiated one year Post Graduate Diploma course in Medical Lab Technology and collaborated with diverse local medical laboratories and hospitals.

### WEBINARS

**Prof. Purvi Rakhasiya** | Marwadi University  
“Food save Life Share Joy” | 27th May 2020

**Prof. Mahendrapalsingh Rajput** | Marwadi University  
“MDR - the next Pandemic” | 29th May 2020

**Prof. Prabuddha Gupta** | Marwadi University  
“Photo-bioreactors for large scale algal cultivation” | 16th May 2020

**Prof. Ashokkumar Bishnoi** | Marwadi University  
“Real Time PCR” | 12th May 2020

**Mr Vishesh Dudakia** | ACTREC, Mumbai  
“Flow cytometry and its importance in blood cancer diagnostics” | 8th June 2020

**Prof. Heli Upadhyay** | Marwadi University  
“Isolation & improvement of industrially important microorganisms” | 19th June 2021

**Prof. Mahendrapalsingh Rajput** | Marwadi University  
“Epidemiology & Microbial Agents of Disease” | 21st June 2021

**Prof. Gaurav Sanghvi** | Marwadi University  
“Ion exchange chromatography” | 26th June 2021

### COLLABORATIONS INITIATED

ORGANISATION	ORGANIZATION	GIST OF COLLABORATION
Gokul Hospitals, Rajkot	India	Student trainings & internship opportunities



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## STUDENT PARTICIPATIONS

The Post Graduate students of the Department participated in Oral Presentation on “Microbial Fuel Cell” at 2nd International Conference on Environmental, Agricultural, Chemical and Biological Sciences Online International Conference which was held for Post Graduate students and research scholars organised by voice of Indian Concern for Environment.

The students from the Department undertook 18 hours online course organised by ISRO regarding practical aspects of the Geographical Information System from 28th September to 15th October, 2020.

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	2
Conferences & Seminars attended	6

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
10	6

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Dr Aditya Saran	Nanotechnology- Food and Environmental Paradigm.	Current Analytical Chemistry	Springer
Dr Ashok Kumar Bishoyi	Assessment of Facultative Apomixis in Commiphora Wightii (Burseraceae): A Detailed Study by Controlled Pollination Followed by Histology and Flow Cytometry.	Flora	Elsevier
Dr Ashok Kumar Bishoyi	Premature Degeneration of Tapetum Cells Causes Monogenically Controlled Environmentally Stable Male Sterility in Psyllium (Plantago ovata Forsk.)	Crop Science	Wiley
Dr Ashok Kumar Bishoyi	General Biology	Book	Delve
Dr Ashok Kumar Bishoyi	Wildlife Conservation And Management	Book	Delve
Dr Gaurav Sanghvi	A State-Of-The-Art Review on WWTP Associated Bioaerosols: Microbial Diversity, Potential Emission Stages, Dispersion Factors, and Control Strategies.	Book	Delve
Dr Aditya Saran	Book Chapter Review: Layered Materials for Energy Storage and Conversion	Current Analytical Chemistry	Springer
Dr Prabuddha Gupta	Microbial Strain Engineering. In: Singh V., Singh A., Bhargava P., Joshi M., Joshi C. (eds.) Engineering of Microbial Biosynthetic Pathways	Book Chapter (Engineering of Microbial Biosynthetic Pathways)	Springer
Dr Prabuddha Gupta	Biofuel Production Methods, Challenges and Opportunities for Sustainable Development	Book Chapter (Green Innovation, Sustainable Development, and Circular Economy)	Taylor and Francis

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Dr Mahendrapal Singh Rajput	Spatial Variation of Airborne Allergenic Fungal Spores in the Ambient PM2.5—A Study in Rajkot City, Western Part of India	Book Chapter (Measurement, Analysis and Remediation of Environmental Pollutants)	Springer
Dr Purvi Rakhashiya	Molecular Marker Development from ISSR for Fungal Pathogens of Mangifera Indica L.	Indian Phytopathology	Springer
Dr Sumit Kumar Jaiswal	Influence of Acyl Acceptor Blends on the Ester Yield and Fuel Properties of Biodiesel Generated by Whole-cell Catalysis of Cottonseed oil pp 116258.	Fuel	Elsevier
Dr Sumit Kumar Jaiswal	Bioactive Peptides and Carbohydrates from Natural Products: A Source of Functional Foods and Nutraceuticals. pp 335-353	Book Chapter (Bioactive Natural products in Drug Discovery)	Springer
Dr Ujwalkumar Trivedi	Biofuel Production: Methods, Challenges and Opportunities for Sustainable Development	Book Chapter (Green Innovation, Sustainable Development, and Circular Economy)	Taylor and Francis

## RESEARCH PROJECT INITIATED

TITLE OF THE PROJECT	FUNDING AGENCY	PROJECT VALUE
Mushroom farming through the substrate generated by the daily biodegradable waste produced in the Marwadi University Campus.	Student Startup and Innovation Policy (SSIP) Gujarat.	₹. 2,00,000

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Satyaprakash Singh	Department of Biosciences, Saurashtra University, Rajkot	Head and Professor
Dr Neepa Pandhi	Department of Microbiology, Virani Science College, Rajkot	Head and Professor
Dr Mehul Jivrajani	Beckman Coulter, Diagnostics, Bangalore	Scientist
Dr G. Nareshkumar	Department of Biochemistry, The MS University of Baroda, Vadodara, India	Head and Professor
Dr Nishith Vacchani	Life blood care center, Rajkot	Quality manager





During the Academic Year 2020-21, the faculty members at the Department swiftly adopted to virtual teaching mode due to COVID-19 pandemic situation. Faculty members adapted to various online teaching methodologies for delivering the lectures and assessments. Faculty members underwent various online courses to cope up with effective online teaching as well as to enhance the subject knowledge in the relevant field.

### GUEST LECTURES

**Dr V Ganesan** | UGC-DAE Consortium for Scientific Research  
 “Superconductivity and scanning probe microscopy” | 28th & 29th September, 2020

**Dr Vishal Joshi** | PRL, Ahemedabad  
 “Excitement of Research in Astrophysics” | 22nd January, 2021

**Prof. D G Kuberkar** | Department of Nano Science, Saurashtra University  
 “Experimental Techniques for Material Characterization” | 13th February, 2021

### WORKSHOPS & WEBINARS

A workshop on “Quantum Mechanics and Impact of lockdown on Climate/Weather” by Prof. Ujwal Trivedi & Prof. Yogesh Jani, Marwadi University was organised on 14th & 15th October 2020. History of Quantum Mechanics was discussed by Prof. Ujwal Trivedi and the effect of climate change due to lockdown were discussed by Prof. Yogesh N Jani.

A webinar on Statistical Mechanics and its application in Biology was delivered by Prof. Subrata Pal, Marwadi University. The students were oriented with the application of Statistical Mechanics in Biology and hence the opening of interdisciplinary collaboration.

### STUDENT PARTICIPATIONS & ACHIEVEMENTS

EVENT	TITLE	PARTICIPATION TYPE	AWARDS
Quiz Competition	Contributors and their contributions in the field of Physics	Quiz	Ms Jahanviba Zala, BSc Semester 4, Secured 1st Rank
			Mr Bariya Harshkumar Jitendra, B Sc Semester 4, Secured 2nd Rank
			Ms Drashti Amrutiya, BSc Semester 4, Secured 3rd Rank

EVENT	TITLE	PARTICIPATION TYPE	AWARDS
International Science Symposium-2021 on recent trends in Science and Technology	Prediction of Black Hole according to General Theory of Relativity	Poster Presentation	Mr Abhishek Pandya, MSc Semester 2, Secured 1st Rank
International Science Symposium-2021 on recent trends in Science and Technology	Prediction of Black Hole according to General Theory of Relativity	Poster Presentation	Mr Manav Goplani, MSc Semester 2, Secured 1st Rank
International Science Symposium-2021 on recent trends in Science and Technology	Artificial Photosynthesis	Oral Presentation	Mr Manav Gopllani, MSc Semester 2, Secured 2nd Rank

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	3
Conferences & Seminars attended	2

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Mukesh Keshvani	Study of Plasma–Water Interactions: Effect of Plasma Electrons and Production of Hydrogen Peroxide	Research Paper	Springer
Prof. Prashant R Ghediya	Electrical Transport Properties of Dip-coated Nanocrystalline Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Films	Research Paper	Springer
Prof. Prashant R Ghediya	Direct-ink Coating Techniques for Cu-based Multicomponent Semiconductor Films	Research Paper	Springer
Prof. Juveriya Parmar	Broadband and Efficient Graphene Solar Absorber Using Periodical Array of C-shaped Metasurface	Research Paper	Springer

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Mukesh Keshvani	Marwadi University	Head and Assistant Professor
Dr Yogesh N Jani	Marwadi University	Sr. Assistant Professor
Dr Subrata Pal	Marwadi University	Assistant Professor



## FACULTY OF DIPLOMA STUDIES

The Diploma Engineering Programme of Marwadi University is designed with a curriculum focused on practical and skills-oriented training. Also, based on collaboration with Sector Skill Councils listed by Ministry of Skill Development & Entrepreneurship (MSDE), the Diploma Engineering Programme works as a unique curriculum to bring a complete blend of seasoned learning with industry support.

### WEBINARS

**Prof. Rushi Raval** | Marwadi University

“A talk on on Android (LV Droid 0.1)” | 5th November, 2020

**Prof. Kinjal Satasia** | Satasia Surgical Hospital, Junagadh,

“Glow cuties (skincare tips for young) Women's day celebration” | 4th March, 2021

**Prof. Pratik Patel** | Marwadi University

“Autodesk AutoCAD (2D and 3D) – Online Software training Program” | 1st to 16th June, 2020

**Prof. Kishankumar Savaliya** | Marwadi University

“Use of Google map in ArcGIS Explorer – Online Software training Program” | 1st to 16th June, 2020

### EVENTS ORGANISED AT DEPARTMENTS

TITLE	BRIEF ABOUT EVENT
Iconic Presentation	Students were asked to prepare and present a presentation as per given topics
Crossword Puzzle	Students were given clues to fill the across and down box
Group Discussion	Students were given different topics to discuss on it
English language skill Reading, Speaking, Demonstration	Students enhance their level of English speaking and reading
Outstanding Attendance Appreciation	Students of all semesters were given e-Certificate for outstanding attendance during the entire semester

### STUDENT PARTICIPATION

Participation in TCS iON Career Edge - Young Professional Program. Final year students are guided in for pre-project training sessions to impart behavioral skills, presentation and communication skills.

Introduction to Computer, Learning Basics of Computer offered by IIT Bombay Spoken tutorial



## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	11
Conferences & Seminars attended	2

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Kumar Parmar	Web Spam Detection Using Classification Algorithm and Optimizing the Performance of Classifiers	Research Paper	IEEE
Prof. Kumar Parmar	Inventive Fire Detection Utilizing Raspberry Pi for New Age Home of Smart Cities	Research Paper	IEEE
Prof. Anand Trivedi	Web Spam Detection Using Classification Algorithm and Optimizing the Performance of Classifiers	Research Paper	IEEE
Prof. Anand Trivedi	Inventive Fire Detection Utilizing Raspberry Pi for New Age Home of Smart Cities	Research Paper	IEEE
Prof. Pratik Chauhan	Inventive Fire Detection Utilizing Raspberry Pi for New Age Home of Smart Cities	Research Paper	IEEE
Prof. Dipen Dangi	Proceedings of International Conference on Thermo fluids Page no. 157-164	Research Paper	Springer

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Pares P Kotak	Government Polytechnic, Rajkot	Principal
Dr Ashit S Pandya	AVPTI, Rajkot	Principal
Mr Jitendra N Parekh	Government Polytechnic	Retd. Principal & Partner, Quality Calibration Center

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Mr Anuruddh Nagodara	Version Systems Pvt. Ltd., Rajkot	Co-founder, CEO
Mr Kripalsinh Jadeja	Roger Motors Pvt. Ltd, Rajkot	Managing Director
Mr Bhavesh Makwana	Hi-Tech Transpower Pvt.Ltd, Rajkot	Head, O&M
Mr Abhishek Kanabar	Mazda Ltd., Ahmedabad	Design Executive
Mr Kirtikumar Dhanesha	ITI/Skill Up-Gradation Center-Lodhika	Instructor
Mr Axay Swaminarayan	Government Polytechnic, Rajkot	Head, Chemical Engineering Department
Mr Pankaj V Rayjada	Government Polytechnic, Rajkot	Head, Applied Mechanics Department
Prof. Rashmikant D Raghani	AVPTI, Rajkot	Head, EC Engineering Department
Dr Dilip H Ahir	Government Polytechnic, Rajkot	Lecturer, EC Engineering Department



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## FACULTY OF COMPUTER APPLICATIONS

The COVID-19 pandemic poised us with many challenges to deal with the online mode of execution. The faculty members of Computer Applications have taken up online courses to improve the effectiveness of teaching online. Besides this many faculty members successfully made use of Coursera offerings to successfully complete many technical trainings also. For the first time, Finishing School an Innitiavtives Under the Faculty of Computer Applications has admitted a large number of MBA students to take part in more than 3 courses in online mode. The Department also initiated collaborations with the industry players for the benefits of students and faculty members.

### GUEST LECTURES & TALKS

**Mr Bhavesh Vyash** | NXpert Solution, Rajkot,  
“Expert talk on Laravel” | 10th October, 2020

**Dr Dimple Thakar** | Professor, Marwadi Unversity  
“A talk on .NET” | 7th to 9th June, 2021

**Mr Krishna Sharma** | Cyberator technologies Pvt. Ltd., Ahmedabad  
“6 Days Workshop on VAPT and WAPT” | 31st August to 6th September, 2020

Students were oriented with the usage & importance of VAPT and WAPT and its applications in the industry

**Mr Sanket Andanani** | Social Circuits Company, Rajkot  
Expert talk on “Social Media Marketing” | 25th March to 3rd April, 2021.

Students were oriented with Social Media Marketing and its implications

**Prof. R. Sridaran, Prof. Maulik Parekh, Prof. Brijesh Jajal** | Marwadi University  
“Programming and Coding” | 31st May to 16th June, 2021

Student learned about the programming skills with logic building exercise.

**Mr Sagar Pansuriya** | Acquaint SoftTech Pvt. Ltd, Ahmedabad  
“Designing Tools” | 5th June, 2021

Students learned about the designing tools.

**Mr Bhavesh Atara & Mr Vishesh Thakkar** | Aim Career Solutions, Rajkot  
“Cloud Networking Security” | 7th to 16th June, 2021

**Mr Krishna Sharma** | , Founder & CEO, Cyberator Technologies Pvt. Ltd., Ahmedabad  
“Penetration Testing” | 14th to 18th June, 2021

**Mr Akash Padhiyar** | , CEO - Akash Techno Labs, Ahmedabad  
“PHP Framework – Laravel” | 14th to 18th June, 2021

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## EVENTS

“Online Presentation Competition on Latest Technology” was organised on 12th September 2020 under Technical Club at Faculty of Computer Applications. A total of 65 online registrations were received for this event and an active participation in the quiz contest was witnessed.

“Online Quiz Competition” under technical club was organised on 13th October 2020. A total 190 students participated in the event and an active participation was witnessed in the quiz contest.

## STUDENT PARTICIPATIONS

Technical training sessions were held for the Final & Pre-Final year students to strengthen up their concepts on technical aspects on various programming and databases subjects to make them interview-ready for placements. Sessions are rolled out by subject experts from the department or from industry based on requirements. More than 110 students attended technical training sessions.

English Speaking Club is promoted and rolled out to improve communication skills of students and to build confidence of students in terms of communication and personality development before they face their placement interviews. 95 students from the Department participated in English Speaking Club.

An event “Sharad Poonam-Garba Competition” was celebrated on 31st October, 2020 by Fiesta Club of Faculty of Computer Applications. Mr Bhavik Baraiya & Mr Aakash Kothari secured 1st & 2nd Rank in the male category and Ms Dipal Shah & Ms Vidi Shashilu secured 1st & 2nd Rank in the female category.

“Online Elocution and Essay Writing Competition” was celebrated on 1st June, 2021, by Fiesta Club of Faculty of Computer Applications. Ms Qury Dhamecha & Ms Chandni Gusani secured 1st & 2nd Rank.

## COLLABORATIONS INITIATED

NAME OF ORGANISATION	COUNTRY	GIST OF COLLABORATION
MIT Square	Bangalore	To impart join certification training under finishing school
Aspire Academic – Skills AGE Foundation	Pune	To impart join certification training under finishing school
ICT ACADEMIC	Pune	Aims at developing Faculty community through various tie-ups with industries like oracle, IBM, Google and also arrange workshops to develop skills of the students for enhanced employability

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
FDPs Attended	31
Webinar / Workshop / STTP	46
Conference	3



## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
20	7

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Brijesh Jajal	"Leveraging Machine Vision for Automated Tiles Defect Detection in Ceramic Industries", DOI: <a href="https://doi.org/10.1007/978-981-33-4367-2_69">https://doi.org/10.1007/978-981-33-4367-2_69</a>	Research Paper	Springer
Prof. Amit Gohel	"A Comparative Study of Challenges and Solutions to Supervise Intelligent Internet Traffic"	Research Paper	UGC approved KalaSarovar Journal
Prof. Vinod Pal	Machine Learning: An Ultimate Solution For Diagnosis and treatment of cancer (Chapter of the book Artificial Intelligence for Data-Driven Medical Diagnosis) <a href="https://doi.org/10.1515/9783110668322-004">https://doi.org/10.1515/9783110668322-004</a>	Book Chapter	De Gruyter Publisher, Germany
Prof. Kalpesh Popat	Intelligent Congestion Control System to Control Computer Traffic by using Various Techniques - A Survey	Research Paper	IJISSET
Prof. Kalpesh Popat	A Study of IoT Protocols and Classification with Machine-2-Machine Surveys, Issues, and Enabling Technologies	Research Paper	GIS Science Journal



## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr R Sridaran	Faculty of Computer Applications, Marwadi University, Rajkot	Dean
Dr Ram Murugesan	Chettinad Academy of Research and Education, Chennai	Director, Research
Prof. Hardik Joshi	Rolwala Computer Center, GTU, Ahmedabad	Assistant Professor
Dr Parvez Faruki	Government MCA College, Department of Technical Education, Government of Gujarat.	Assistant Professor
Dr Vipin Tyagi	Jaypee University of Engineering amd Technology, Raghogarh, Guna, Madhya Pradesh	Professor
Dr Priti Sajja	PG Department of Computer Science, Sardar Patel University, VallabhVidhyanagar	Professor
Mr Pranav Vaishnav	Cybage Software Pvt. Ltd, Gandhinagar	Project Manager
Dr Sunil Bajaja	Faculty of Computer Applications, Marwadi University, Rajkot	Associate Professor
Dr Divyakant Meva	Faculty of Computer Applications, Marwadi University, Rajkot	Associate Professor



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## FACULTY OF MANAGEMENT STUDIES

It is widely known that not only the Indian Industry, but the whole world is now counting on India's skilled managerial manpower to run from start-ups to long-established mega corporations. This trend puts a challenge before the Institutions of Higher Education to produce highly skilled managerial talents to meet the strong demand from businesses and industries.

It is a matter of immense satisfaction that Faculty of Management Studies, Marwadi University has been relentlessly working towards meeting this challenge. It has been offering educational programmes such as BBA, BBA (Financial Markets), BBA (Honors), BCom, BCom (Honors), MBA, MBA (Business Analytics) and PhD in Management since its inception with the plan to add few more futuristic programmes to cater to the needs of the recruiting organisations and the society at large.

All these programmes have been designed by benchmarking against the best and enriched with different types of elective and skill enhancement courses. Highly qualified and accomplished full-time as well as invited guest faculty members ensure 360-degree learning by the students which also includes NCC, Sports, Cultural and Co-cultural activities to make them complete human beings.

Like the University, Faculty of Management Studies is also proud of its inclusiveness and diversity which is reflected in the composition of its students, faculty members and the staff.

Going ahead, Faculty of Management Studies, Marwadi University aims at being a source of quality managerial manpower for India and the World.

### GUEST LECTURES

**Prof. Ronak Raithaththa** | Marwadi University

"Why is investment banking one of the best paying job profiles" | 7th July, 2020

**Prof. Sunil Jakhoriya** | Marwadi University

"Career opportunities through MBA in Business Analytics" | 13th July, 2020

**Prof. Rajasekharan Pillai** | Manipal Institute of Management, Manipal, Karnataka

"Multivariate Analysis" | 27th July, 2020

**Prof. Bindiya Gupta** | Prof. Bindiya Gupta, Marwadi University

"Changing Job Scenario Amidst COVID-19" | 8th August, 2020

**Prof. Mehul Yogi** | Marwadi University

"Marketing Research: A Gateway to Successful Branding" | 22nd August 2020

**Mr Nishant Bali** | Manager, NSE

"Career opportunities in Technical Analysis" | 23rd December, 2020

**Mr Hiren Nathwani** | Managing Director, Nathwani Group of Companies

"Family Business v/s Startups for young Entrepreneurs" | 9th January, 2021

**Mr Ankur Dholakiya** | Founder and Designated Partner Thakkar Finmentors LLP

"Career prospects in BFSI in the age of AI" | 13th February, 2021

## WORKSHOP

A workshop on “Data Visualization & Analytics Using Power BI and R Software”, was organised by the Department on 20th & 21st July, 2020. Prof. Tina Dutta & Prof. Yashesh Zaveri oriented and helped students to work on Cloud Base and Desktop Interface. Students could work on Data Warehousing, Data Discovery and Interactive Dashboards. Analytics and visualization techniques that could be applied to uncover customer potential, shape product and service designs were also discussed and taken-up in the programme.

Workshop on “Practical applications of Direct Tax, Indirect Tax and Auditing” was organised on 22nd & 23rd January 2021. It helped students to understand application and better usage of tax guidelines and basic auditing.

## TECHNICAL EVENTS

A Short Term Training Programme for students was organised on 16th February, 2021 on the theme “Data Visualization through Tableau” by Prof. Dhawal Mehta, Veer Narmad South University. The training programme focused upon Visualization which allows business users to recognise relationships between the data, providing greater meaning to it. Exploring these patterns users focus on specific areas that require attention in the data, so that they can identify the significance of those areas to drive their business forward. The students were able to use data for sales and demand forecasting.

“Advanced application of MS-Excel in Analytics by Prof. Ronak Raithaththa, Marwadi University on 27th February, 2021. Students get an in-depth understanding of advanced utilities of MS Excel in the Analytics Domain.

“Regulatory Framework and Equity Derivatives” by Prof. Alpesh Gajera on 6th March, 2021. Students got to know about the basics of Indian Equity Derivatives Market, various trading strategies that can be built using futures and options on both stocks and stock indices, clearing, settlement and risk management as well as the operational mechanism related to Equity Derivatives Markets. Learnt the regulatory environment in which the Equity Derivatives markets operate in India.

“A Short Term Training Programme on Entrepreneurship and Family Business” - The first batch of the training was conducted from 19th September 2020 to 20th February 2021. The programme was designed and delivered to the students from all the disciplines in the University on knowledge and skills covering the essential areas of Family Business. It also aimed at inculcating the spirit of Family Business and Entrepreneurship.



## COLLABORATIONS INITIATED

ORGANISATION	ORGANISATION	GIST OF COLLABORATION
University of Dunaujvaros	Hungary, Central Europe	Dual degree programme for BBA and BCOM students with three years at MU and one year at UoD.

## STUDENT PARTICIPATIONS IN CLUB ACTIVITIES

TITLE	NO. OF PARTICIPANTS	ACHIEVEMENTS
Communication Attributes	11	Ms Moksha Jajal, 1st Rank, BBA
		Ms Amruta Kamath, 3rd Rank, B.Com H
Communication Attributes	11	Ms Titli Banerjee, 1st Rank, MBA MU
		Ms Helly Gorasia, 2nd Rank, MBA MU
Virtual Elocution Competition	11	Ms Rituben Deva Odedra, 1st Rank, BBA H I
		Ms Astha Thakur, 2nd Rank, BBA H I
		Ms Kruti Fichadia, 3rd Rank, BBA H III
Quiz Under IOC's Virtual Competition	6	Ms Sujata Gautam, 1st Rank
		Ms Dhruti Parmar, 2nd Rank
		Mr Manish Gurnani, 3rd Rank
Women: The Business Gurus	5	Mr Jagada Dhruvi, 1st Rank
		Mr Aayushi Gajera, 1st Rank
		Mr Vishwa Shah, 2nd Rank
		Ms Dhara Kothari, 2nd Rank



## EXTRA CURRICULAR ACTIVITIES

SPORTS TITLE	NO. OF PARTICIPANTS	ACHIEVEMENTS
Para-Swimming - Represented Gujarat at Bangalore Para Swimming World Series in -2021	1	Mr Jiggar Thakker, BBA, Won 2 Gold Medals and 1 Silver Medal
Aarti Thali Competition	15	Ms Jinkal Godhani, MBA Semester 3
		Ms Kinjal Limbasiya, MBA Semester 1
		Ms Khushali Modi MBA Semester 1
Garba Decoration Winners	18	Ms Nancy Parmar, MBA Semester 1
		Mr Harsh Upadhyayay, BBA (H) Semester 5
		Ms Mahima Dave, MBA, Semester 3
Dandiya Decoration	14	Ms Dhruti Parmar, B.COM, SEM I
		Ms Nishi Aghera, BBA (H) Semester 1
Solo Garba Competition	6	Ms Srusty Chaudhary, BBA Semester 3
		Ms Krishna Satasiya, MBA Semester 3
		Ms Mansi Ved, MBA Semester 1
		Mr Ravi Sojitra, MBA Semester 1
		Ms Anjali Govrani, BBA (H) Semester 1
Rangoli Competition	22	Ms Kinjal Limbasiya, MBA Semester 1
		Ms Mansi Ved, MBA Semester 1
		Ms Dhruti Parmar, B.COM, Semester 1
		Ms Pooja Siddhpura, MBA Semester 3

## FACULTY ACHIEVEMENTS

FACULTY NAME	TITLE OF THE AWARD	POSITION SECURED	PLEASE DESCRIBE IN BRIEF ABOUT THE AWARD
Prof. Ram Bharada	Best paper presentation	First	Best Paper Presentation Award in International Conference (ATMIYA - LINCOLN - 2020)
Prof. Bhumika Achhnani	Best paper presentation	First	Best Paper Presentation Award in International Conference on Advances in Theory, Research and Practices in Management GLSU - ATRPM 2021

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	35
Conferences & Seminars attended	12

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
22	16

## RESEARCH PROJECTS INITIATED

PROJECT TITLE	FUNDING AGENCY	PROJECT VALUE
AICTE ATAL FDP	AICTE	₹. 93,000.

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Dhiresh Kulshrestha	Development of Financial Management Skills Through ICT Based Interactive Instructional Module: An Experimental Study.	Online Research Paper	Strad Research Internal Journal ISSN: 0039-2049 Jun-20 Volume 7, Issue 6, Online
Prof. Bhumika Achhnani	Knowledge Management In Higher Educational Institutions Of Rajkot City. 24 -35 Exploring the Emotional Labour of School Teachers – A Case Study of English Medium Schools in Rajkot City (Gujarat) 1131-1142 An Empirical Study on the Relationship of Mother Tongue and Comfort Level in Teaching in English with Role Efficacy of Academicians in Management Education Sector 24-35	Online Research Paper Research Paper in International Journal Scopus Index Research Paper in National Journal	Sambodhi 2249-6661 Sep-20, 43, 3, 964 – 970 Journal of Critical Reviews 2394-5125 International Jul-20, 7,18 Wesleyan Journal of Research 0975 - 1386 Sep-20 13,12

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
	<p>Exploring the Emotional Labour of School Teachers – A Case Study of English Medium Schools in Rajkot City (Gujarat) 1131-1142</p> <p>Challenges In Higher Education In India 1-3</p>	<p>Research Paper in International Scopus Indexed Journal</p> <p>Research Paper in National UGC Care Journal</p>	<p>Journal Of Critical Reviews 2394-5125 Jul-20 7,18</p> <p>Sambodhi 2249-6661 Dec-20 43,4</p>
<p>Prof. Kiran Kumar Agrawal</p>	<p>Measuring Corporate Governance (Web-Based-Disclosure) Practices in Indian Corporate Sector - A Dichotomous way. 25-29</p> <p>Will 'The Marketing' Facing Paradigm Shift: A Study</p>	<p>Research Paper in National Journal</p> <p>Research Paper in National Journal</p>	<p>Kala Sarovar 0975-4520 Dec-20, 23</p> <p>Sambodhi Jouranal 2249-6661 Dec-20, 43,1</p>
<p>Prof. Dipti Vashisth Sharma</p>	<p>An Empirical Study on the Relationship of Mother Tongue and Comfort Level in Teaching in English with Role Efficacy of Academicians in Management Education Sector 24-35</p> <p>Mindsets of Current Entrepreneurial and Imminent Labour Forces in Chakan(Pune) and Mumbai: A Comparative Study</p>	<p>Research Paper in Journal</p> <p>National, UGC Care</p> <p>Scopus Journal online</p>	<p>Wesleyan Journal of Research 0975-1386, Sep-20 Vol 13, Issue 12</p> <p>Sambodhi 2249-6661 Dec-20 43,4</p> <p>Journal of University of Shanghai 1007-6735 Dec-20 vol 22 issue, 12</p>



FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Meeta Mandaviya	Enriching Employee Engagement And Job Satisfaction: The Mediating Role Of Positive Organizational Citizenship Behavior And Emotional Intelligence 4434 – 4455	International Journal SCOPUS/SCI Indexed Journal Online	PalArch's Journal of Archaeology of Egypt/ Egyptology 1567-214X
	An Empirical Study on Risk and Return Analysis Of Sip V/S Lump Sum Investment W.R.T. Elss Mutual Fund Scheme	International Journal of Management (IJM)	Research Paper- In Journal 0976-6502
	A Study on Effect of Various Demographic Factors on Preference of Consumers Towards Online Banking Usage	First International Conference on Computations in Materials and Applied Engineering (CMAE-2021)	Materials Today: Proceedings 2214-7853
Prof. Krishna Joshi	The Effect of Exchange Rate Volatility on Foreign Direct Investment - Comparison of India and China	International Journal	International Journal For Innovative Research In Multidisciplinary Field, Jun-20, 6,6
Prof. Muklesh Kumar Tiwari	Operational Level Employee Perception About Work Life Balance at Fomex PetPack Pvt.Ltd, Rajkot 290-295	International Journal Online	International Journal For Innovative Research In Multidisciplinary Field 2455 – 0620, Jun-20, 6,6

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
	<p>An Analysis of the Impact of Employee Satisfaction at Comfort Inn Legacy, Rajkot (Gujarat) 296-299</p> <p>An Assessment of Employee Job Satisfaction at Echjay Pvt. Ltd., Rajkot (Gujarat) 300-304</p> <p>Importance of Content-oriented Theory of Organisational Behaviour to Paves the Way for Managing People in an Organisational Setup 64-74</p>	<p>International Journal Online</p> <p>International Journal Online</p> <p>Book Chapter International HARDBOUND</p>	<p>International Journal For Innovative Research In Multidisciplinary Field 2455 - 0620 Jun-20, 6,6</p> <p>International Journal For Innovative Research In Multidisciplinary Field, 2455 - 0620 Jun-20, 6,6</p> <p>Contemporary Research in Management - Volume 2 9789390307623 Educreation Publishing Aug-20</p>
<p>Prof. Alpesh Gajera</p>	<p>A Study on Comparative Analysis of Major Stock Indices of World</p> <p>A Study on Impact of the COVID-19 Virus on Indian Stock Market Returns with Reference to BSE&amp;its Indices 796 -801</p>	<p>International Research Journal Online</p> <p>International Journal Online</p>	<p>International Research Journal p-ISSN 2202-2821 e-ISSN 1839-6518 Jun-20,10,1</p> <p>Alochana Chakra 2231-3990 Jul-20,3,7</p>

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
	<p>Enriching Employee Engagement And Job Satisfaction: The Mediating Role Of Positive Organisational Citizenship Behaviour And Emotional Intelligence 4434 - 4455</p> <p>Impact of Economic Reforms on Indian Economy</p> <p>A Study on Mergers and Acquisition of Indian Banks with Special Reference to SBI and its Associates 78-81</p>	<p>International Journal Online</p> <p>International Journal Online</p> <p>National Journal Online</p>	<p>PalArch's Journal of Archaeology of Egypt/ Egyptology 1567-214x Sep-20 17,9</p> <p>International Journal for Innovative Research in Multidisciplinary Field (IJRMF) 2455-0620 Oct-20,CPI,18 Kala Sarovar Oct - Dec 2020 23,4</p>
Prof. Navjyot Raval	<p>Enriching Employee Engagement And Job Satisfaction: The Mediating Role Of Positive Organisational Citizenship Behaviour And Emotional Intelligence</p> <p>Impact of Economic Reforms on Indian Economy</p>	<p>International Journal Online</p> <p>International Journal Online</p>	<p>PalArch's Journal of Archaeology of Egypt/ Egyptology 1567-214x Sep-20, 17,9</p> <p>International Journal for Innovative Research in Multidisciplinary Field (IJRMF) 2455-0620 Oct-20,CPI,18 Kala Sarovar Oct - Dec 2020 23,4</p>

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Rhuta Mehta	A Study to Understand Customer Awareness and Willingness About Green Practices in Hotel Industry	Research Paper in Journal International	International Journal For Innovative Research In Multidisciplinary Field, Jul, 2020 ISSN: 2455-0620
	Impact of Covid – 19 on Ethnocentric Behavior of Customers for Various Categories of Products	Research Paper in Journal	Sambodhi Journal ISSN: 2249-6661
Prof. Jitendra Patolia	Impact of Covid -19 on Insurance Sector in India – An Analytical Study	Research Paper in Journal	Kala Sarovar UGC care Group 1 Journal, December-2020 0975-4520
	Performance Evaluation of 10 Listed Bank Stocks & Comparison with Nifty 50	Research Paper in international Journal	International Journal For Innovative Research In Multidisciplinary Field, 2455 - 0620
Prof. Prasanta Chatterjee Biswas	"Employee Engagement : A Multi-Dimensional Construct"	Research Paper in Journal National Online	Sodh Sanchar Bulletin ISSN-2229-3620
	"Impact Of Promotional Activities On Creating Awareness About Biodegradable Sanitary Napkins Among Urban Girls Of Rajkot"	Research Paper in Journal National Online	Sodh Sanchar Bulletin ISSN-2229-3620
Prof. Bindiya Rathod	Managing Human Resource in Pandemic- A Challenging Role of	Chapter in a Book, National	Indian Experiences of COVID-19 and Horrendous



FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
	H.R. Professionals		time for Administration 978-81-947590- 1-0 National Press Associates
Prof. Rambhai Bharada	Measuring Corporate Governance (Web-Based-Disclosure) Practices in Indian Corporate Sector - A Dichotomous way	Research Paper in Journal, National	Kala Sarovar, 0975-4520 Dec. 2020
Prof. Shrikant Ratley	A Case Study on Tactics for Customer Retention at Hyundai Motor India Ltd	Scopus Index ISSN Print: 0976-650 2 and ISSN Online: 0976-6510	International Journal of Management (IJM) Volume 12, Issue 4, April 2021,
Prof. Bindiya Rathod	Managing Human Resource in Pandemic- A Challenging Role of	Chapter in a Book, National	Indian Experiences of COVID-19 and Horrendous
Prof. Pritha Gawande	“Changing Paradigm of Promotions - A Study on Tour Operators of Saurashtra Region”	Internati onal Journal	Journal Of Huazhong University Of Science&Techn ology, 1671-4512
Prof. Sunil Mashru	Service Quality and Restaurant’s Customer Satisfaction An Empirical Evidence from Rajkot City		Journal Of Huazhong University Of Science & Technology 1671-4512

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Vijayendra Gupta	Digitization of Textile Manufacturing Process: An Exploration,	Journal, National	A Journal of Supply Chain and Logistics Management , Vol 11, issue 1-June 2020
Prof. Rohit Lala	"To Forecast the LNG Import by India for the Next Three Financial Years by Using the ARIMA Model"	Journal, National	GCEMP2k21 Conference
	A Study on "Service Quality of Online Financial Transactions of Selected Mobi-Wallets"	Journal, National	GCEMP2k21 Conference
Prof. Dipam Raval	A Study on Consumer Perception on Food Delivery Apps and Payment Methods in Rajkot City	Research Paper in Conference	
	A Study on Impact & Popularity of Web Series on Youth	International Journal, Online	IJCRT, Online
Prof. Tina Dutta	A Handbook of Internal Migration in India	Chapter in a Book	Sage Publishers, New Delhi, India
Prof. Niharika Bajaja	Social Influence & The Shopping Process: A Consumer Behaviour Study	Research Paper in Journal	Indian Journal of Adult Education ISSN:0019-5006

## COMPOSITION OF BOARD OF STUDIES

### MBA PROGRAMME

SR. NO.	MEMBER NAME	DESIGNATION
1	Dr Sunil Kumar Jakhoria	Chairperson (Ex-Officio)
2	Dr MeetaMandaviya	Member
3	Dr Bhumika Achhnnani	Member
4	Dr Shrikant Ratley	Member
5	Dr RavirajSinh Gohil	Member
6	Dr Rajsekhran Pillai	Member
7	Dr Karunesh Saxena	Member
8	Dr Aditya Srinivas	Member
9	Mr Chetan Bhojani	Member

### BBA PROGRAMME

SR. NO.	MEMBER NAME	DESIGNATION
1	Dr Sunil Kumar Jakhoria	Chairperson (Ex-Officio)
2	Dr Monica Verma	Member
3	Dr Dhiresk Kulshrestha	Member
4	Dr Prasanta Chatterjee Biswas	Member
5	Dr Kiran Kumar Agarwal	Member
6	Dr Sanjay Bhayani	Member
7	Dr Hitesh Shukla	Member
8	Mr Tarun Sharma	Member
9	Mr Ketan Gandhi	Member



## COMPOSITION OF BOARD OF STUDIES

### B COM PROGRAMME

SR. NO.	MEMBER NAME	DESIGNATION
1	Dr Sunil Kumar Jakhoria	Chairperson (Ex-Officio)
2	Dr Monica Verma	Member
3	Dr Dhiresh Kulshrestha	Member
4	Dr Prasanta Chatterjee Biswas	Member
5	Mr Jitendra Patoliya	Member
6	Dr Sanjay Bhayani	Member
7	Dr Hitesh Shukla	Member
8	Mr Tarun Sharma	Member
9	Mr Ketan Gandhi	Member





**GUEST LECTURES**

DATE	TALK	RESOURCE PERSON	ORGANISATION
9th May, 2020	How to crack CLAT 2020	Mr Rajneesh Singh	Founder and Chief Mentor at CLAT Essentials, The Do-Zen, CLAT Guru and Mentor
		Dr S Santhakumar	Director, Gujarat National Law University
		Prof. Purvi Pokhariyal	Director, Institute of Law, Nirma University
		Dr Rhishikesh Dave	Dean, Faculty of Law, MU
23rd May, 2020	New Avenues in Legal Profession post Covid 19	Ms Daksha Baxi	Head, International Taxation
		Mr Mihir Thakor	Senior Advocate, Gujarat High Court
		Prof. Manoj Kumar Sinha	Director, Indian Law Institute
		Mr Subhrrag Mukherjee	Senior Legal Consultant, Strategic Alliances (North America and Worldwide), Hewlett Packard Enterprise
		Ms Winnie Shekhar	Partner, Induslaw
28th May, 2020	Webinar for Career in Law with Bhutan Students	Dr Rhishikesh Dave	Dean, FoL, MU
		Mr Nilesh Advani	Assistant Professor, MCA, MU
5th June, 2020	Critical Thinking for law professionals	Mr R A Nadesan	Executive coach, Behavioral trainer with a Pan India presence
		Mr Vikram Rajola	Founder and CEO, Indeed Foundation and TEDx Speaker
		Ms Shubika	Partner, Edpower-U and Leadership Coach Bilkha

DATE	TALK	RESOURCE PERSON	ORGANISATION
6th June, 2020	How to secure Internship and convert it into a PPO	Mr Moin Ladha	Partner, Khaitan and Co.
		Mr Pururaj Bhar	Partner, Cyril Amarchand Mangaldas
		Ms Sheetal Talwar	Deputy General Counsel, Tata Chemicals Limited
		Ms Winnie Shekhar	Partner, Induslaw
23rd June, 2020	International Health Law and Role of WHO during Covid-19	Ms Nibedita Basu	Faculty of Law, Marwadi University
26th June, 2020	Law and Politics: Critical Concepts in Political Science	Dr Dhruv Pande	Faculty of Law, Marwadi University
		Prof. (Dr.) Domenico Melidoro	Researcher & Faculty in Political Science, Ethos Luiss Business School, Rome (Italy)
27th June, 2020	How to crack judicial exam?	Mr Devansh Aggarwal (MP) & Mr Bharat Poonia (Raj)	
7th July, 2020	Sociology for Law Students	Dr Saurabh Anand	HoD (Social Science ), GNLU
		Dr N Bangkim Singh	Faculty of Law, Marwadi University
8th & 9th July, 2020	Economics for the law students	Mr Ruchir Pandya	Faculty of Law, Marwadi University
11th July, 2020	How to prepare for CLAT in last 30 days	Mr Rajneesh Singh	CLAT Mentor
		Dr Prinkal Joshi	Director of PI Education CLAT Coaching Institute

DATE	TALK	RESOURCE PERSON	ORGANISATION
22nd July, 2020	Stress and time management for CLAT 2020	Ms Shubika Bilkha	Edpower-U and Leadership Coach
		Ms Amrita Dudia	Mind Coach, Management Consultant
		Mr Dhananjay Singh	Assistant Vice President, Learning and Development, Marwadi University
25th July, 2020	Gauging the response of International Health Law to COVID Crisis	Priyanka Dahiya	Technical Officer (Legal) World Health Organisation
		K M Gopakumar	Adviser and Researcher, Third World Network
18th August, 2020	Logical Reasoning for CLAT2020	Mr Rohan Garg	Career Launcher, Ahmedabad
		Mr Bhavin Joshi	Training and Counseling Marwadi University
18th September, 2020	Importance of Post Mortem report in Criminal Investigation	Dr Chavali K H	Associate Professor, Department of Forensic Medicine and Toxicology, Govt. Medical College and Hospital
24th September, 2020	The Grounds of Divorce under Hindu Law	Shri Satyajeet A. Desai	Senior Advocate, Gujrat High Court
7th October, 2020	Importance of Management for Law students	Dr Krunal Purohit	Faculty of Law, Marwadi University
24th October, 2020	Taking Drop in CLAT	Dr Rhishikesh Dave	Dean, Faculty of Law, Marwadi University
		Mr Tanuj Kalia	Fouding CEO, Lawctopus
28th Nov to 2nd Dec 2020	International Humanitarian Laws	Wing Commander Praful Bakshi	

DATE	TALK	RESOURCE PERSON	ORGANISATION
13th July, 2021	New Labour Code 2020	Ms Swati Mehta	(Associate VP HR, Hindustan Coca-cola Beverages Pvt. Ltd.)
29th May, 2021	Marketing Mix-4Ps	Dr Krunal Purohit	Assistant Professor, Faculty of Law, Marwadi University
16th June, 2021	The role of social entrepreneurs to change and transform the society in the pandemic period	Dr Sharmistha Bhattacharjee	Rajiv Gandhi National Institute of Youth Development
19th June, 2021	Career Opportunities for Law Graduates	Dr Rhishikesh Dave	Dean, Faculty of Law, Marwadi University

## WORKSHOPS

DATE	TITLE	RESOURCE PERSON	ORGANISATION
12th January, 2021	Manupatra Training	Mr Chintan	Manupatra Information Solution Private Limited
11th April, 2021	Sun Tzu on The Art of War	Mr Rodney D Ryder	Scriboard, Advocates and Legal Consultants
16th May, 2021	Merchant of Venice	Ms Komal Raya	Educator at TGES (English Language and Literature)
30th May, 2021	Pedagogy of the Oppressed	Prof. Purvi Pokhariyal	Institute of Law, Nirma University
6th June, 2021	Liberation of Sita	Ms Rohini Sen	Assistant Professor, Assistant Dean (International Collaborations) and Assistant Director, Centre for Human Rights Studies at the Jindal Global Law School, O.P Jindal Global University



DATE	TITLE	RESOURCE PERSON	ORGANISATION
8th June, 2021	Training Session on Law Relating to Consumer Protection	Mr Abhishek Awasthi	Advocate, CERC,Ahmedabad
13th June, 2021	John Galsworthy's Justice	Ms Jyoti Kathju	Faculty/Personality Coach
19th June, 2021	Neo-Liberalism, Public Policy & Covid-19	Prof. Alberto Gomes	Emeritus Professor, La Trobe University, Melbourne, Australia
20th June, 2021	The Age of Surveillance Capitalism	Prof. (Dr) Upendra Baxi	Research Professor of Law and Distinguished Scholar in Public Law & Jurisprudence at Jindal Global Law School
26th June, 2021	Law and Politics	Dr Domenico Melidoro	Assistant Professor in Political Science, Ethos Luiss Business School, Rome, Italy

## EVENTS ORGANISED

Faculty of Law–Panchayat: An informal weekly event, open to all faculty and students at the University, where the Department showcases talents of any type of prose-recitation, poetry, singing, dancing, act etc. anything to cheer before the weekend. All performances are performed in a free-spirit without any feeling of competition or being judged. Within the session, a section comes through on a discussion over a special theme for the week.

PANCHAYATS ORGANISED	AUDIENCE PARTICIPATION
11	526

1st Virtual National Moot Court Competition: The competition was held at the Faculty of Law on 16th to 18th April, 2021 It was for the first year students with participation of 154 teams across the country.

AWAAZ: 1st Virtual National Public Speaking Competition was organised by Faculty of Law on 26th & 27th June, 2021 with participation of 137 contestants across the country. The winners of the competition received a handsome amount while all participants received an e-certificate.

## COLLABORATIONS INITIATED

ORGANISATION NAME	COUNTRY	GIST OF COLLABORATION
A M P Law College	India	Student & Faculty Exchange Programme
Consortium of National Law Universities	India	Utilise the UG-CLAT 2021 examination scores for admission purpose

## AWARDS & RECOGNITION

AWARDING ORGANISATION	CATEGORY
The Knowledge review	The 10 Most Leading Institutes in Law, 2020
FORBES India	Top Law School

## STUDENT PARTICIPATIONS IN CO-CURRICULAR ACTIVITIES

EVENT PARTICIPATION	TITLE
Public Speaking Competition	AWAAZ – The 1st Virtual National Public Speaking Competition
Public Speaking Competition	AWAAZ – The 1st Virtual National Public Speaking Competition
Quiz competition	Jigyasa 2.0 organized by KLE Law Society's College, Bangalore.
Quiz competition	Quizzing Competition organized by Institute of Commerce, Nirma University
Online Moot Competition	1st Anand Swaroop Gupta Memorial Virtual National Moot Court Competition, Sharda University
Virtual Moot Court Competition	1st Anand Swaroop Gupta Memorial Virtual National Moot Court Competition
Moot Court Competition	4th Online National Moot Court Competition, 2021 by Anand College of Legal Studies
Moot Court Competition	National Criminal Moot Court Competition organised by Jus Dicere & Memo Pundits

EVENT PARTICIPATION	TITLE
National Moot Court Competition	Nyayshastram's 2nd National moot Court Competition
Paper Presented in National Webinar	COVID-19 Outbreak: Effects on Global Environment, Society and its Prevention organized by the University School of Law and Legal Studies, GGSIU
Article Published	"Domestic Violence: The Ugly Truth of our Society" in Pen Acclaims
Article Writing Competition	2nd National Article Writing Competition by The Legal Insider
Article Writing Competition	1st Nyayshastram's National Article Writing Competition, 2020 on COVID-19 Pandemic: Collision on Legal Structure
Article Writing Competition	Pen Your Thoughts: 4th National Article Writing Competition Organised by VidhiAagaz
Essay Writing Competition	2nd National Essay Writing Competition Organised by: Symbiosis Law School, Nagpur
Debate Competition	TBHT While Fighting with Covid-19, the state has been Just with both, Lives and Livelihood
Debate Competition	1st Debate competition organised by Lex Acharya India
Inter-College Group Discussion	On Police Sahid Din, Rajkot Police Department arranged Inter-College Group Discussion event
Virtual Conference	Asia Youth International Model United Nations Virtual Conference
Online Group Discussion	SAMVAAD – National Level Online Group Discussion organised by Christ College

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	4
Conferences & Seminars attended	6

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
6	3

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Nibedita Basu	Law on Refugees and Internally Displaced People (ISBN: 978-93-5311-262-2)	Book Publication	Jus Dicere & Co., June 2020
Prof. Nibedita Basu	The Entanglement of Genocide and Culture: Cultural Genocide in Chander Prakash Singh and Dr. Ajaymeet Singh, Genocide and Ethical Cleansing (ISBN: 978-93-8561-893-2)	Book Publication	Shree Ram Law House Chandigarh, June 2020
Prof. Nibedita Basu	Legal Framework of COVID 19 in India (ISSN 2581-8503, Vol-1, Issue 10)	Research Paper	White Black Legal Law Journal, 10.05.2020
Prof. Nibedita Basu	Constitutional Validity of Judicial Review in Electoral Laws ISSN: 2581 5504, Vol 10	Research Paper	Pen Acclaims, May-2020
Prof. Nibedita Basu	Asylum Practices in India ISSN: 2455- 2437, Vol 6 Issue 3	Research Paper	Journal of Legal Studies and Research, June-2020
Prof. Rajiv Ranjan	Contempt of Court and Freedom of speech: "The Unbalanced wheels of a Democratic Cart" ISSN: 2320-5318, Vol 7, Issue 1/2021	Research Paper	Indian Institute of Legal Studies, 30.6.2021



## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Prof. Purvi Pokhariyal	Institute of Law, Nirma University	Director and Dean
Mr Subhrrag Mukherjee	Strategic Alliances (North America & Worldwide), Hewlett Packard Enterprise	Senior Legal Counsel
Prof. Rhishikesh Dave	Faculty of Law, Marwadi University	Dean
Dr Rahul Nikam	Faculty of Law, Marwadi University	Associate professor
Dr N Bangkim Singh	Faculty of Law, Marwadi University	Associate professor
Dr Dhruv Pande	Faculty of Law, Marwadi University	Associate professor
Dr Rachna Choudhary	Faculty of Law, Marwadi University	Associate professor
Dr Krunal Purohit	Faculty of Law, Marwadi University	Associate professor



The Faculty of Pharmacy is committed to providing quality education through well trained, competent and dedicated faculty. It strives to provide a student-centric and conducive academic environment with state-of-the-art infrastructure and globally accepted pedagogical techniques. The Department actively works towards providing opportunities for active and interactive learning to the students thereby helping them in expanding their knowledge, cultivating research abilities and necessary skills to create a positive impact on the healthcare and pharma profession and meeting the societal needs of efficient health care professionals with ethics and commitment. The Department organises various activities like National and International webinars, expert talks & other co-curricular activities to enrich knowledge and keep them abreast with the latest developments happening in the arena. During the Academic Year 2020-21, apart from teaching activities, it organised guest lectures/seminars covering diverse areas of pharmaceutical fields such as the concept of process and equipment validation in manufacturing practices, gas chromatography & mass spectrometry, 3D printing technologies in pharmaceuticals and healthcare. Such guest lectures and webinars allowed the students to learn from the industry experts and understand the needed skills and knowledge required to work in the same field. Apart from such initiatives, it also provided an opportunity to the students to interact with experienced professionals.

### GUEST LECTURES

**Mr Vinit Ghelani** | Senior officer, Q.A. department, Intas Pharmaceutical, Ahmedabad, Gujarat  
“Concept of process validation in manufacturing practices” | 13th May, 2020

**Mr Devender Singh** | Manager-Quality Assurance, Novugen Pharma, Malaysia  
“Equipment qualification in the pharmaceutical industry: An overview” | 7th June, 2020

Country Manager and Head, Export/Business Development in International Market  
“International Business in Pharmaceutical” | 3rd June, 2020

**Dr Naisarg Pujara** | Senior Research Technician, The University of Queensland, Australia  
“Scope of Pharmacy in Australia” | 5th June, 2020

**Dr Sujit Tangadpalliwar & Dr. Abhisek Kaler** | Lead Data Scientist Aira Matrix, Pune  
& Founder & CEO Score Tutorials Chandigarh  
“GPAT - The first step for your brighter future” | 19th June, 2021



## WORKSHOP ORGANISED

**3D Printing Technologies in Pharmaceuticals and Healthcare:** To enrich participants on advancement in the pharmaceutical dosage forms manufacturing using 3D Printing Technology a workshop on “3D printing technologies in pharmaceuticals and Healthcare” was organised by the Department on 23rd & 24th April, 2021. Resource persons to workshop were Dr Ragin Shah, Principal, Arihant School of Pharmacy and Bio-Research Institute, Gandhinagar, Dr Guruprasad Kuppu Rao, Director, Imaginarium India Pvt. Ltd, Mumbai, India, Dr Y. Ravi Kumar, Associate Professor, National Institute of Technology, Warangal, India, Dr Ketan D Patel, Assistant Professor, College of Pharmacy and Health Sciences, St. John’s University, USA, Dr Devendra Ridhurkar, Expert Scientist - Modified Release Formulations, Neurx Pharma, Barcelona, Spain, Mr Bhanupratap Gaur Faculty, Biomedical Engineering and Technology (incubation) Centre, Mechanical Engg. Dept., IIT Bombay. The workshop was witnessed by 450 participants joining from across the country.

## COLLABORATION INITIATED

NAME OF ORGANISATION	COUNTRY	GIST OF COLLABORATION
Life Sciences Sector Skill Development Council (LSSSDC), New Delhi	India	Skill development initiatives in the Life Sciences sector

## STUDENT ACADEMIC PARTICIPATIONS

**Herbal Medicine:** An online non-credit course authorised by the University of Minnesota and offered through Coursera. Students were able to understand different aspects of Herbal Medicine, Botanical Medicine, how do botanical medicine functions against molecules and different types of diseases and its function in the body.

**Healthcare Organisations and the Health System:** An online non-credit course authorized by Rutgers the State University of New Jersey and offered Coursera. The course offered about healthcare administration and management, organisational governance, function & how to create my healthcare organisation.

**Biochemical principle of Energy Metabolism Introduction to Psychology:** To understand Biochemical Principles.

**Biochemical Principles of Energy Metabolism:** An online non-credit course authorised by Korea Advanced Institute of Science Technology (KAIST) and offered through Coursera. The course describes about photosynthesis, fat metabolism, diabetes and how energy homeostasis in our body.

## CLUB PARTICIPATIONS

**COVID Hackathon 2020:** The students from the Department participated in the national level COVID Hackathon' 2020 and submitted an idea on the theme of 'Innovation in Education System'. The event was organised by Anand Pharmacy College, Anand and Sponsored by SSIP, Government of Gujarat and supported by IIC, MRHD

**National Level e-Poster competition on COVID-19:** Students participated in 'National Level e-Poster Competition on Covid-19' held during May 2020 organised by R C Patel Institute of Pharmaceutical Education & Research, Shirpur.

**Pharmacy Discussion Centre:** Pharmacy Discussion Centre aims to bring together all students studying Bachelor of Pharmacy and Pharmacist to discuss and practice questions, query about Pharmacy and come out with the solution for the betterment of carrier and life of people.

## PARTICIPATIONS IN CO-CURRICULAR ACTIVITIES

ACTIVITY TYPE	NO. OF PARTICIPATIONS
Sports	28
Co-curricular	32

## FACULTY PARTICIPATIONS IN KNOWLEDGE ADVANCEMENTS

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	8
Conferences & Seminars attended	8

## RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
4	4

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Prof. Lalji Baldaniya	Fabrication and Evaluation of Fast Disintegrating Pellets of Cilostazol	Research article. 2020, VOL. 46, NO. 12, 1927–1946	Drug Development and Industrial Pharmacy



## PATENTS APPLICATIONS

APPLICATION NO.	APPLICANT NAME	APPLICATION DATE	PATENT TITLE
202021034082	Prof. Lalji Baldaniya	08-08-2020	An immediate-release tablet composition of telmisartan

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION	DESIGNATION
Dr Lalji Baldaniya	Faculty of Pharmacy, Marwadi University	Principal
Dr Ramesh B. Parmar	Faculty of Pharmacy, Marwadi University	Associate Professor
Dr Ashish V Kyada	Faculty of Pharmacy, Marwadi University	Senior Assistant Professor
Dr R P Burman	Faculty of Pharmacy, Marwadi University	Associate professor
Dr B N Suhagia	Faculty of Pharmacy, Dharmsinh Desai University	Dean
Dr M M Patel	Shree Swaminarayan Sanskar Pharmacy College	Director
Mr K D Patel	BAN Lab (P) Ltd., Rajkot	Director





## FACULTY OF PHYSIOTHERAPY

The Faculty of Physiotherapy concentrates on providing quality education with excellence in the field of Physiotherapy, aiming with diverse hands-on practice to students. The Institute has collaborated with 15+ multi-specialty hospitals and physiotherapy clinics in the city of Rajkot for getting clinical exposure to students. The Institute has also envisioned to set-up first of its kind multi-specialty Physiotherapy Center in Rajkot city.

### GUEST LECTURES

**Dr Paras Joshi** | Civil Hospital, Rajkot

“Dry Needling” | talk focused upon allied therapeutics

**Dr Vivek Ramanandi** | SPB Physiotherapy College, Surat

“Mobile Application for Posture Assessment”

**Dr Shreya Trivedi** | Sahjanand Physiotherapy College, Bhavnagar

“Bio Mechanics & Pathomechanics of Respiration”

**Dr Parth Trivedi** | C M Patel College of Physiotherapy, Gandhinagar

“Health Care Delivery System in India”

**Dr Shlesha Vaidaya** | SPB Physiotherapy College, Surat

“Flags in Physiotherapy”

**Dr Tarpan Shah** | Shree Swaminarayan Physiotherapy College, Surat

“Cardio-Pulmonary Resuscitation”

**Dr Samruddhi Jagani** | Ergo Rehab India

“Ergonomics for computer users”

### EVENTS ORGANISED

**Panel Discussion: COVID 19 Myths and Realities:** A panel discussion was organised by the Department for the faculty members of Marwadi University for awareness of COVID-19

**English Day Celebration:** The department on a regular interval celebrates English Day with an objective to enhance communication skills of students

### COLLABORATIONS INITIATED

ORGANISATION NAME	COUNTRY	GIST OF COLLABORATION
Synergy Multispecialty Hospital	India	Clinical exposure of students
Shiv Orthopedic Hospital	India	
Arham Physiotherapy Clinic	India	
Christ Multispecialty Hospital	India	
Prayas Physiotherapy Centre, Rajkot	India	
Ramkrishna Ashram	India	
Shree Panchnath Hospital	India	

### RESEARCH STUDIES

RESEARCH SCHOLARS IN THE DEPARTMENT	NO. OF PhD SUPERVISORS
16	2

## STUDENT PARTICIPATIONS

Conference Participation: Physio Summit – 12 students from the Faculty of Physiotherapy displayed active participation in Poster Presentation held at Parul University. Mr Meet Gardhariya from 2nd Year was awarded 1st Rank in Junior Poster Presentation category.

## FACULTY ACHIEVEMENTS

Dr Jayesh Parmar, Principal – Faculty of Physiotherapy was appreciated for judging Scientific Event in Physio e-Summit held at Parul University.

Dr Ashish Kakkad has been appointed as Vice-President in Gujarat State Council for Physiotherapists.

PROGRAMME TYPE	NO. OF FACULTY MEMBERS
STTPs & FDPs attended	3
Conferences & Seminars attended	1

## RESEARCH PUBLICATIONS

FACULTY NAME	TITLE WITH PAGE NOS.	TYPE	PUBLISHER
Dr Ashish Kakkad	Granulomatosis with Polyangiitis affecting Nervous System – A case report (Co-Author)	Research Paper	Datta Meghe Institute of Medical Sciences University
Dr Rahul Chhatlani (PT)	A Study to Compare the Effect of Mulligan Mobilization on Neck Disability index (ndi) and range of motion (rom) in patients with mechanical neck pain: A randomized control trial.	Research Paper	IJRAR
Dr Rahul Chhatlani (PT)	A Study To Find The Effect Of Comprehensive Directed Breathing (CDB) on Exertional Dyspnea In Mild to Moderate Chronic Obstructive Pulmonary Disease (copd) Patients- An Interventional Study	Research Paper	IJRAR
Dr Rahul Chhatlani (PT)	Relation between the House Brackmann Facial Nerve Grading Global Score with Electrophysiological parameters of Facial nerve Compound Motor Action Potential in patients with Bell's palsy	Research Paper	Dogo Rangsang Research Journal

## COMPOSITION OF BOARD OF STUDIES

MEMBER NAME	ORGANISATION
Dr Jayesh Parmar (PT)	Principal, Faculty of Physiotherapy, Marwadi University
Dr Anjali Bhise (PT)	Principal, Government Physiotherapy College, Ahmedabad
Dr Dinesh Sorani (PT)	I/C Principal, Government Physiotherapy College, Jamnagar
Dr Ashish Kakkad (PT)	Professor, Faculty of Physiotherapy, Marwadi University
Dr Yagnik Dave (PT)	Assistant Professor, Faculty of Physiotherapy, Marwadi University
Dr Radhika Pandey (PT)	Assistant Professor, Faculty of Physiotherapy, Marwadi University
Dr Gauravgiri Gosai (PT)	Assistant Professor, Faculty of Physiotherapy, Marwadi University
Dr Rahul Chhatlani (PT)	Assistant Professor, Faculty of Physiotherapy, Marwadi University













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## DEVELOPMENTS & ACHIEVEMENTS AT THE INSTITUTE

- MARWADI UNIVERSITY CENTRE FOR INNOVATION, INCUBATION & RESEARCH (MUIIR)**

The Centre is committed to nurture & promote innovation in the field of technology-based startups by providing a conducive ecosystem in the region. On the 5th of December 2020, Shri Vijaybhai Rupani Hon'ble Chief Minister of Gujarat, inaugurated the MUIIR Centre.

MUIIR Centre envisioned as a mentorship ecosystem to help student innovation focusing on real-world problems, the MUIIR Centre has initiated financial tie-ups with various government agencies like New Generation Innovation and Entrepreneurship Development Centre (NewGen IEDC), Industries Commissionerate Startup Gujarat Cell, The Knowledge Consortium of Gujarat (KCG) for Student Start-up Innovation Policy (SSIP), Gujarat Council on Science & Technology (GUJCOST), and Centre for Entrepreneurship Development (CED).



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## INFRASTRUCTURE FACILITIES

Fabrication/Prototyping Laboratory having advanced facilities such as:

- 3D Printing
- Laser Engraving & Cutting
- PCB Design & Development
- Vinyl Cutting
- Sensor Kits, IoT Architecture
- Electronic Workbench (Power Supply, DSO, Function Generator)
- Band Saw, Table Saw, Mitre Saw & other Wood & Metal cutting tools
- Measuring Instruments (Analog & Digital) & many more



**Co-Working Space:** A Wi-Fi enabled-air-conditioned area with 5 enclosed offices each with 4-member seating capacity, 4 cubical spaces that can accommodate 2 members having a personal storage facility. Additionally, a meeting room that can easily accommodate 10 members, a waiting lounge & vibrant cafeteria.

- **MARWADI UNIVERSITY RENEWABLE ENERGY RESEARCH & INCUBATION CENTRE (MU RERIC)**

The Centre has been developed and established in collaboration with Energy Swaraj Foundation & supported by Department of Science & Technology (DST) & Student Start-up Innovation Policy (SSIP).

It aims in energy conservation, promotes research on renewal energy & related products and also help students to build entrepreneurial skills in the Energy Sector. A solar powered home is established with all AC & DC power operated instruments.





## TALKS & SEMINARS ARRANGED FOR INNOVATION & ENTREPRENEURSHIP

IPR: A Journey from Saraswati to Lakshmi – Acquainting students about various ways to protect their ideas through IPR

Startup Pitch – 42 Start-ups made pitch to Industry Commissionerate for funding avenues

Prototype Building Workshop (Herbal Cosmetic Workshop) - Learn to make own herbal products using home ingredients

Financial Awareness programme – to orient financial management

Entrepreneurship: A Career Option – Acquainting students about various advantages of Entrepreneurship choosing entrepreneurship as a career option

## FUNDING SOURCED

SOURCE	AMOUNT
NewGen IEDC – National Science & Technology Entrepreneurship Development Board	47,50,000
Student Start-up Innovation Policy	20,00,000
Student Open Innovation Challenge	5,000
<b>Total</b>	<b>67,55,000</b>

## DETAILS OF PATENT & NO. OF START-UPS SUPPORTED

DETAILS	AY 2020-21	AY 2020-21
Patents Filed	2	2
Patents Published	2	0
No. of Start-ups supported	19	13

## WORKSHOPS ORGANISED TO IDENTIFY, DEVELOP & COMMERCIALIZE STUDENT INNOVATIVE IDEAS

SR. NO.	ACTIVITIES	OUTCOME/ACHIEVEMENTS
1	Idea Screening	To identify innovative idea and its screening was held at the Department of the University
2	Awareness Programme for NewGen IEDC at institute	Orienting students about NewGen IEDC scheme – a workshop was held at the departments
3	Entrepreneurship Development	Creating about the awareness and scenario of entrepreneurship opportunities around the nation and further future scope
4	Campus to corporate “Mentor Mentee” Camp	Orienting the importance of Mentor and to learn how to utilize mentor efforts in the career path
5	Roadmap to Building Startup and Embracing Entrepreneurship	Students were informed about the roadmap of entrepreneurship and how they can build successful career through it

## PROGRAMMES CONDUCTED TO ENHANCE INDUSTRY-ACADEMIA INTERACTION

SR. NO.	ACTIVITIES	OUTCOME/ACHIEVEMENTS
1	Industrial Designing and its Applications	Students learn about the concepts of Industrial Designing through various techniques and find some useful applications of it.
2	Basics of Material Science and Metallurgical Characterization	Students learn about the different characteristics of the Material and actual science behind it.
3	A scope of Energy Business in Saurashtra Region	Students interacted with industrialists and understood the potential of Energy Business in Saurashtra.
4	Robotics and Industry 4.0.	Students learn the practical way that how Robotics is implementing in Industry 4.0.
5	IoT - Industry Perspective	Students learn the Internet of Things (IoT) from the perspective of the industry.



## MUIIR | INCUBATED STARTUPS

SR. NO.	STARTUP/COMPANY NAME	BRIEF ABOUT STARTUP
1	Technogic	With the help of Artificial Intelligence and Deep Learning the company proposes to provide solution to design Internet on Things (IOT) devices for the visually impaired person. It proposes a multitudinous stick which overcomes most of the problems of the blind. Thus, the stick helps to detect the obstacle, recognise objects and currency with the help of Deep Learning algorithm applied on images captured by the camera. The proposed system is cheap, cost-effective and easily operated by the user.
2	Havoc Mall	A virtual platform that provides local stores and local businesses an online integration on the basis of a subscription model.
3	Ortangle International	eCommerce startup mainly working in international market where local sellers get opportunity to sell their products not only within the nation but also in other countries with Ortangle International e-platform.
4	JKMT Innovation LLP	Company has been established for providing automation in marble cutting and provides a variety of solutions to cut the marble with accurate precision in less time.
5	Udhyog 4.0 LLP	The company focuses on connecting physical with digital by synergic interface between hardware and software through Internet Technology. This further emphasizes on inter-connectivity, automation, machine learning, and real-time data monitoring to create more holistic and interconnected ecosystem for manufacturing enterprises.
6	Wild Ness Prefab Private Limited	Wildness Prefab Pvt. Ltd. Provide have innovated 100% Foldable and Moveable Mechanical House/Structure.

## PLACEMENT AND CORPORATE AFFAIRS

A dedicated Placement Department with separate infrastructure facility has been established and developed. It liaisons with the organisations and industries to generate job opportunities for the students from across the country. Students are provided trainings on aptitude, communication, technical, mock interviews for better performance in placement. Third party assessments are undertaken through FACE Academy, Cocubes and AMCAT to assess students readiness for placement.

### KEY HIGHLIGHTS

396 companies visited for the Academic Year 2020-21 for the campus recruitments including 167 MNCs

87 dream offers and 27 super dream offers received for the Academic Year 2020-21

Highest Package for the Year 2020-21 is INR 34.50 LPA at Amazon

Companies like rtCamp, Morgan Stanley, Optum and Byju's offered package above 10 LPA



Making Marwadi University Proud!

# CONGRATULATIONS

TO

## MR SHLOK SONI

(BTECH - COMPUTER ENGINEERING, 2017-2021)  
for securing a record of

**34.5 LAKHS CTC**

at



| MUITES SETTING THEIR STANDARDS HIGH

Rajkot-Morbi Road, 360003 Gujarat, India  
+91 2817123456 | +91 89800 30090  
www.marwadiuniversity.ac.in | f @ y in



## PROGRAMME WISE PLACEMENT DATA

Automobile	3
B.Pharm	
BBA	3
BBA (Hons	27
BCA	73
Bcom	31
Bsc. Chem	67
Bsc. Micro	78
Chemical	68
Chemical-PG	4
Civil	24
Civil-PG	10
Computer	155
Computer-PG	6
Electrical-PG	4
ICT	29
Information Technology	60
MBA	80
Mechanical	30
Mechanical-PG	4
Msc. Chem	47
Msc. Maths	5
Msc. Micro	48
Msc. Physics	22
<b>GRAND TOTAL</b>	<b>878</b>

## OFFICE OF INTERNATIONAL RELATIONS

The Office Of International Relations at the University campus engages itself in initiating dialogues & establishing linkages with foreign institutes & universities. It has signed MoUs with Government of India, connected with various Foreign Embassies in India, trade organisations that host education fares in foreign land, MoUs with foreign Universities and Schools and has touched based with Education Secretaries to enable visibility and student flow.

### COLLABORATIONS INITIATED WITH FOREIGN UNIVERSITIES DURING AY 2020-21

SR. NO.	NAME OF UNIVERSITY	COUNTRY
1	University of Dunaujvaros, Hungary	Hungary
2	Coimbra Group of Brazilian Universities, Brazil	Brazil
3	UTP University of Science & Technology in Bydgoszcz, Poland	Poland
4	Firma POLKOWSKI	Poland
5	Jana Wyżykowskiego University	Poland

### DIPLOMATIC VISITS TO MARWADI UNIVERSITY

SR. NO.	NAME OF UNIVERSITY	COUNTRY
Her Excellency Ambassador Dr Tizita Mulugeta	Embassy of Ethiopia in India	Celebration of Ethiopia day with Ethiopian students
Mr Asalf Habtegeorgis (Minister Education)		
Mr Ibrahim Hamo (2nd Secretary Political & Public)		

### STUDENT EXCHANGE PROGRAMME INITIATED

PARTICIPATING UNIVERSITY	COUNTRY	MU DEPARTMENT	NO. OF STUDENTS	FUNDED / SELF FUNDED
University of Pitesti, Romania	Romania	B Tech - Computer Engineering	2	Funded – Erasmus+
Lodz University of Technology, Poland	Poland	B Tech - Computer Engineering and ICT	09 (of whom 08 students visited in AY 2019-2020 and returned to India between July-September 2020)	Self-funded



# SOURCING INTERNATIONAL RESEARCH PROJECT

**Title:** Curricular Development on Climate Change Policy and Law CCP\_LAW

**Objective:** To develop multidisciplinary masters level programme on climate change and law that will be offered by various Asian Universities with support of European Universities

**Project Grant to Marwadi University:** €. 89,611 (INR 77,54,545)

## PARTICIPATING UNIVERSITIES

NAME OF UNIVERSITY	COUNTRY
HUE University	Vietnam
Symbiosis International	India
Marwadi University	India
Hanoi University	Vietnam
University Utara Malaysia	Malaysia
International Islamic University	Malaysia
Coventry University	UK
Universitat De Girona	Spain
European Knowledge Spot	Greece
Pedmede	Greece



## LEARNING RESOURCE CENTRE

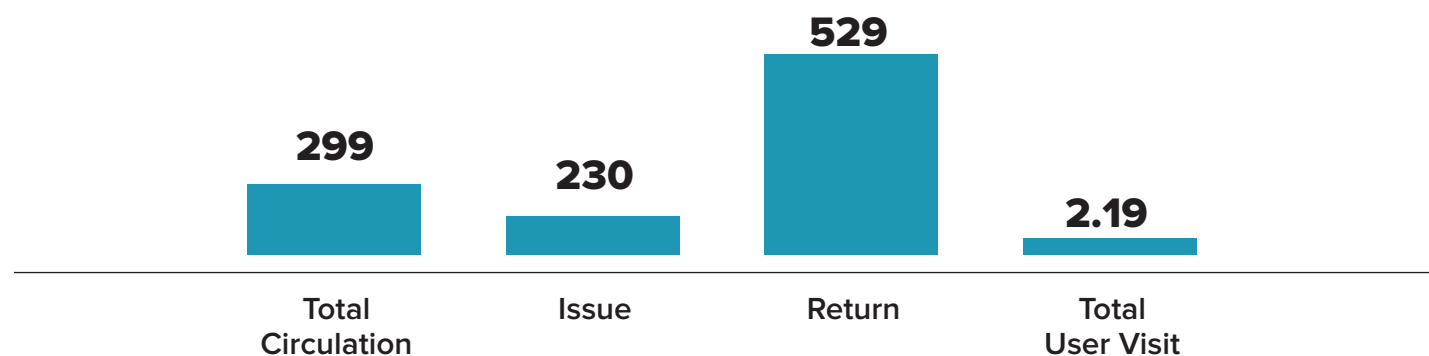
Library - Learning Resource Center of the University holds special collections, use of up-to-date technology bundled with a team of enthusiastic and dedicated staff members combined to form a library which serves the users of Marwadi University. The library also contributes towards the research needs of the Institution, and is one of the best ICT equipped academic libraries in the region.

### KEY HIGHLIGHTS

Housed in 3 physical locations – It is fully equipped with RFID Technology  
Specially devised and designed Self KIOSK for Self Check-in & Check-out  
Subscribed eJournals and eBooks Packages for users  
eResource lab having 70 computer systems to assist for online research and resources  
Specially devised and designed mobile application having features like Intimation, Alerts, History, Account Status and Books search facilities  
Connected with other libraries and resource centres to retrieve information worldwide (British Library Membership)  
Institutional Membership of DELNET and NDL

### Books Added it the year 2020-21

Title	Volume	Total	Expenditure (INR in Lakhs)
299	230	529	2.19



SR. NO.	COLLECTIONS	TOTAL
1	Print Journals and Magazines	100
2	Daily Newspapers	17

SPECIAL DEVICES		
1	Kindle Devices for Circulations	15
	(Kindle unlimited eBooks subscription for kindle device)	

## eRESOURCES SUBSCRIPTIONS AND MEMBERSHIPS

SUBSCRIPTIONS	
SR. NO.	DETAILS
1	IEEE
2	Manupatra
3	EBSCO – Ebooks collection
4	IET Digital Library
5	Perlegoebooks collection
6	Packtebooks collection
7	Magzter magazine collection
8	Turnitin -Plagiarism Dictation Software
9	Ouriginal (Urkund) Plagiarism Dictation Software Provided by MHRD
10	Grammerly

MEMBERSHIP	
1	DELNET
2	British Council Library
3	NDL

## LEARNING & DEVELOPMENT DEPARTMENT

Marwadi University being a learning organisation, constant learning of all its stakeholders is an important value of the organisation. In pursuance of this value, independent Learning & Development department is setup.

Learning & Development department has designed three layered faculty development workshops. These workshops are focused on high impact teaching skills, teaching as reflective practice and interactive teaching methodologies. Upon completion of workshops faculty members are awarded with certificates.

### INHOUSE TRAINING PROGRAMMES ARRANGED FOR FACULTY & STAFF MEMBERS

PROGRAMME NAME	NO. OF PARTICIPANTS	HOURS DELIVERED	BRANCH/DEPT. NAME
English Assist II	24	12	Faculty of Computer Applications
Customer Service Executive training	11	14	Outreach & Development Dept.
Canvas & Online Teaching tools	02	14	Faculty
Faculty Language Programme	42	48	Academic Depts.
Self Enhancement	15	06	All depts. of University

### EXTERNAL TRAINING PROGRAM FOR FACULTIES

PROGRAMME NAME	NO. OF PARTICIPANTS	HOURS DELIVERED	BRANCH/DEPT. NAME
Motivation Programme	12	02	Rajkot Police Staff Members
Virtual teachers' empowerment programme	300+	12	Indonesian Teachers
Teachers' training	75+	06	Sorath International School, Junagadh



**TEACHERS' TRAINING PROGRAMME**  
**SORATH INTERNATIONAL SCHOOL, JUNAGADH**



## EXTERNAL TRAINING PROGRAM FOR FACULTIES

PROGRAMME NAME	NO. OF PARTICIPANTS	HOURS DELIVERED	BRANCH/DEPT. NAME
IND-SAT webinars	1,000+	22	Asian & African countries for Study in India scholarships
Pragati-2021	2,000+	30	International students from 40 countries for Study in India scholarships

## TRAINING PROGRAMMES ORGANISED FOR STUDENTS

PROGRAMME NAME	NO. OF STUDENTS PARTICIPATED	HOURS DELIVERED
Campus Specific Training	160	13
Online Special Interest Group	70	12
Special Purpose Training	1,358	669
Special Session: Resume Building and Cover Letter	70	2
Special Session: Self Enhancement	70	6
<b>Grand Total</b>	<b>70</b>	<b>702</b>

### Faculty Development Programs undertaken by the Teachers at the University

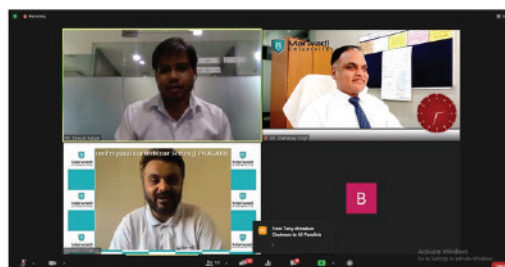
Training Type	L&D Department, MU	Others	Grand Total
External	-	47	47
Internal	153	-	153

### Professional / Administrative Development Programs organized for teaching staff / non-teaching staff

Training Type	L&D Department, MU	Others	Grand Total
External	-	2	2
Internal	8	-	8

## PRAGATI-2021

**TRAINING ON PREPARATION FOR STUDY IN INDIA FOR INTERNATIONAL STUDENTS**



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## COMMUNICATION SKILLS DEPARTMENT

The Department of Communication Skills offers a wide range of courses to enrich the communication proficiency in English. The courses are designed in order to fulfil the requirements of the industry and the workplace. The courses are aimed at enhancing listening, speaking, reading, and writing skills among the students. Apart from regular courses, the Department also offers need based English Language Training through various certificate courses, corner workshops, and spoken English and IELTS classes. The students are also trained for the placement and job interviews.

### MU PUBLIC SPEAKING CONTEST - 2021

In order to give impetus to English on the campus and to provide students with an opportunity to showcase their talent and skills and to prepare them for the competitions such as Times of India Public Speaking Contest etc., Marwadi University organised a Public Speaking Contest - 2021. The University started organising this contest since 2019. Considering the pandemic, it was decided to organise 2021 edition of the contest in an online manner.

The contest witnessed 392 registrations from various disciplines/faculty of the university. It was divided into two rounds: Preliminary and the Finale. There were 19 preliminary rounds organised from May 17, 2021 and May 27, 2021 which had registered students participating with an aim to make it to the finale. The preliminary rounds were held department/faculty wise so as to ensure the participation of students from each department/faculty of the university. Top three speakers were selected from each preliminary round. Faculty members of Department of Communication Skills rendered their services as judges of the preliminary rounds and selected 24 finalists.

The finale was held on June 10, 2021 on Zoom and streamed live on the official Facebook page of Marwadi University. The finalists were given topics a day prior to the competition and each of them were given 5 minutes to speak on the given topic.

Prof Sachin Ketkar, Professor in English, Faculty of Arts, The Maharaja Sayajirao University of Baroda, Vadodara, Dr Ritu Sharma, Dean, School of Liberal Studies, PDEU and Prof Shyam Parekh, Adjunct Professor, School of Journalism and Mass Communication, Auro University, Surat were invited to judge the finale of the contest. They listened to every participant carefully to find the top three speakers. After the completion of the competition, the result was announced by Prof Sachin Ketkar, as mentioned below.

1st Position: **Ms Hemali Mashru** – MBA - Semester 2

2nd Position: **Ms Akakikunda Bridget** – B Pharm - Semester 2

3rd Position: **Mr Amanullah Bahram** - BCA - Semester 4

The winners won an amount of Rs. 15,000, Rs. 10,000 and Rs. 5,000 respectively. They were also awarded a Certificate of Achievement in honour of their extraordinary performance in the finale. The other finalists were also felicitated with certificates.

The students participated in the contest zealously and the University also got its star speakers who would not only bring glory to the University but also make a mark on National and International platforms in years to come. The entire contest was coordinated by Department of Communication Skills, Marwadi University.

## SPARKS: STUDENT eMAGAZINE

**SPARKS** – Igniting creativity at MU, is an initiative to explore and unveil the creative aspect of students of Marwadi University specifically in terms of language and usage of language. At the same time creativity is not bound in boundaries. A poem, an article, a short story, and even paintings and drawings tell numerous tales and each time it is explored it has divergent tales to tell. The idea is of unveiling the hidden artist in students by providing an efficient platform to the writers to display their varied perspectives by sparking stories, vibrant articles, lucid poems, hued photographs, and florid drawings.

Language learning is a continuous process. The more the practice, the more the improvement. SPARKS acts as a catalyst to enhance the language skills of the students. The main motto of the magazine is to bring out the best of the creative aspects of the students. It has at its core the democratic concept – for the students, by the students and of the students. Students have coordinated everything from writing, to compilation, to designing the magazine under the guidance of faculty members. The Department has already published four issues that have been well received and acclaimed by teaching fraternity across the country.

ISSUE	MONTH AND YEAR	ISSUE	NUMBER OF FACULTY EDITORS	STUDENT CONTRIBUTORS (NUMBERS)	CIRCULATION
V – 5 I – 2	December 2020	International Students	03	09	MU – Campus (students and staff)
V – 5 I – 3	March 2021	Faculty of Engineering	03	21	Shared on the Facebook page of the magazine

## SAMVAD–IN CONVERSATION WITH BOOKS



**PADMA SHRI AWARDEE  
PROF. UPENDRA BAXI**

The English Promotion Committee of Marwadi University has initiated “SAMVAD-In conversation with books”, a unique initiative with an objective to increase the readership with relevant and interesting books. The session contains a talk on books of general interest followed by Q&A.

The University extended its gratitude to Padma Shri Awardee Prof. Upendra Baxi for gracing “SAMVAD” – virtual book talk session on “The Third Modernity” with his insightful discussion on the subject matter held on 20th June, 2021.



ACTIVITIES	NO. OF PARTICIPATIONS
Placement Training	3,164
English Days	3,070
SAMVAD–In Conversation with Books	105
Sparks	30
MU Public Speaking Contest	392
<b>Total</b>	<b>6,761</b>





# PHYSIOTHERAPY RESEARCH & REHABILITATION CENTRE

The Faculty of Physiotherapy at Marwadi University has established and developed an advanced Physiotherapy Research and Rehabilitation Centre in the heart of Rajkot city. The Centre is well equipped with advanced electrotherapy instruments. The Institute has established and manages 3 OPD centers which provide its services to patients in the vicinity.

## JAGNATH BRANCH

MONTH	NO. OF PATIENTS
May-2020	35
June-2020	78
July-2020	99
August-2020	41
September-2020	40
October-2020	78
November-2020	91
December-2020	69
January-2021	118
February-2021	700
March-2021	1219
April-2021	596
May-2021	570
June-2021	1003

## CAMPUS BRANCH

MONTH	NO. OF PATIENTS
June-2020	99
July-2020	74
August-2020	38
September-2020	29
October-2020	80
November-2020	78
December-2020	63
January-2021	126
February-2021	138
March-2021	86
April-2021	35
May-2021	14
June-2021	79

## PANCHNATH CENTRE

MONTH	NO. OF PATIENTS
May-2021	36
June-2021	474

## Clinical Postings:

The Institute aims in hands-on learning and learning by doing approach which gives exposure of patients to students for deeper learning. To enable this, the Institute has established 7 MoUs with reputed multispecialty hospitals and physiotherapy centres for clinical exposure of students. Faculty members from medical colleges are also invited to deliver lectures for connecting theoretical aspects with practical approaches.

## COUNTRIES COVERED

Bangladesh	Sri Lanka	Ethiopia	Zimbabwe	Egypt
Nepal	Myanmar	Rwanda	South Sudan	Malaysia
Bhutan	Zambia	Uganda	Nigeria	Iraq
Afghanistan	Kenya	Burundi	Mauritius	Thailand
Tanzania	Indonesia	Philippines	Jordan	Vietnam

## PARTICIPATION IN NATIONAL EVENTS

Exhibitions/Initiatives	No. of Participants touch based
FICCI – LAC Virtual Fair	5

The Federation of Indian Chambers of Commerce and Industry (FICCI) in association with Ministry of Commerce and Industry, Govt. of India organised “India-LAC Cooperation in Edu 4.0” – a virtual exhibition from 7th to 9th July, 2021. The exhibition offered a platform to foster education alliances between EdTech players, Universities, Institutions/Educational service providers for students and faculty, mobility, and joint research opportunities between Indian and Latin American and Caribbean (LAC) region.

## SOCIAL MEDIA PROFILE ENGAGEMENT

### FACEBOOK

FOLLOWERS	AVG. POST REACH	PAGE VIEWS	AVG. VIDEO VIEWS	POST ENGAGEMENTS	NEW PAGE LIKES
2,66,407	18,00,000 (Approx.)	64,57,321	10k	Avg. 200	35

### INSTAGRAM

FOLLOWERS	REACH	IMPRESSIONS	AVG. VIDEO VIEWS
20,200	1.5M	17K	10k

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## OUTREACH AND DEVELOPMENT DEPARTMENT

The Outreach and Development Department primarily takes care of student admissions and marketing of University's programmes at the National and International levels. The Outreach Department also comprises of Branding, Events and Communications of University. As a part of increasing the presence and visibility of Marwadi University across the globe, we engage and participate in exhibitions and initiative undertaken by the Government of India as well as Government of Gujarat to promote educational institutions.

The Branding and Communication team engages in overall brand management and social media management of University. It focuses on creating meaningful communication collaterals for the stakeholders and brings in innovative and creative ideas to develop the brand.

### NATIONAL & INTERNATIONAL PRESENCE

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Multiple webinars are conducted in various countries and in different states of the country to promote and guide students for professional careers by experts of various programmes of Marwadi University. Over 2,000 students across the country have been engaged with our Institution on different platforms.

- **EVENT CELEBRATED ON CAMPUS**

### INTERNATIONAL YOGA DAY

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International Yoga Day was celebrated at the University on 21st June, 2021 at the Seminar Hall of Marwadi University where 30+ International students participated enthusiastically and performed Yoga Asanas and breathing exercises under the expert guidance of Ms Nilam Sutariya, an eminent Yoga instructor. The event was graced by Prof. (Dr) Sandeep Sancheti, Provost, Marwadi University. Shri Naresh Jadeja, Registrar, Marwadi University participated and encouraged the students for active participation and made the event a grand success.



### YOGA DAY CELEBRATION IN THE CAMPUS

## WOMEN'S CELL

The Women's Cell at Marwadi University aims to educate and empower women by ways and means of creating awareness camps, being sensitive to women's rights, initiating government schemes, and creating an array of activities that enable and empower women to live and achieve their goals in life and also to take up challenges that women face in the present social setup.

Women Welfare & Sexual Harassment Eradication Cell – Committee Members

SR. NO.	DESIGNATION	FACULTY NAME	DEPARTMENT
1	Chief Coordinator	Prof. Foram Rajdev	Mathematics
2	Dept. Coordinator	Prof. Foram Chovatiya Prof. Dhara Joshi	Computer Engineering
3	Dept. Coordinator	Prof. Tarannum Bloch	Information Technology
4	Dept. Coordinator	Prof. Sunera Kargathara	IC Technology
5	Dept. Coordinator	Prof. Krishna Patel	Electrical Engineering
6	Dept. Coordinator	Prof. Divya Adalja	Mechanical Engineering
7	Dept. Coordinator	Prof. Debleena Bhattacharya	Chemical Engineering
8	Dept. Coordinator	Prof. Bindiya Patel	Civil Engineering
9	Dept. Coordinator Dept. Coordinator	Prof. Ankita Patel Prof. Tina Dutta	Management
10	Dept. Coordinator	Prof. Hiral Thakar	Computer Application
11	Dept. Coordinator	Prof. Riddhi Joshi	
12	Dept. Coordinator	Ms Disha Poriya	Admin
13	Dept. Coordinator	Prof. Sabera Bijani	Microbiology
14	Dept. Coordinator	Prof. Sabera Bijani	Chemistry
15	Dept. Coordinator	Prof. Sonal Kanani	Pharmacy
16	Dept. Coordinator	Prof. Radhika Pande	Physiotherapy
17	Dept. Coordinator	Prof. Nibedita Basu	Mathematics
18	Member	Prof. Minakshi Biswas Hathiwala	Law
		Prof. Rachita Mehta	Placement Cell



## CELEBRATION OF INTERNATIONAL WOMEN IN ENGINEERING DAY

On the occasion of International Women in Engineering Day, Women's Cell of Marwadi University organised a virtual panel discussion with speaker from across the globe. Prof. Forum Rajdev moderated the programme. Dr Mini Ulanat from Kerala, Dr Alexandra Posoldova from Australia, Ms Thittaporn Ganokratanna from Thailand and Ms Rabbia Saleem from Australia were invited as panelists. Role of women in Engineering and opportunities for women in Engineering were part of the discussions. 100+ participants from India, Bhutan, Bangladesh, Thailand, Australia and Syria took active participation in this panel discussion.

**INTERNATIONAL WOMEN IN ENGINEERING DAY 2020**  
**PANEL DISCUSSION ON:**  
**ROLE OF WOMEN IN ENGINEERING**

**MODERATOR:**  
 Prof. Forum Rajdev  
 Faculty - Marwadi University  
 WIE Chair-IEEE Gujarat Section Research Scholar India

**PANELIST:**  
 Dr. Mini Ulanat  
 Systems Manager- CUSAT  
 Chair WIE IEEE Kerala  
 Section India

**PANELIST:**  
 Dr. Alexandra Posoldova  
 Data Scientist  
 Vice-Chair  
 IEEE Queensland  
 Australia

**PANELIST:**  
 MS. Thittaporn Ganokratanna  
 President of IEEE HKM  
 (Mu Theta Student Chapter)  
 Research Scholar  
 Thailand

**PANELIST:**  
 MS. Rabbia Saleem  
 Ex-Advisor - WIE IEEE Punjab  
 University student branch  
 Research Scholar  
 Australia

**DATE 23 JUNE 2020**      **TIME 03:00 PM IST**

## EVENTS ORGANISED

SR. NO.	EVENT / ACTIVITY NAME	BRIEF ABOUT EVENT	PARTICIPATIONS
1	Women in Sensors Week in collaboration with WIE IEEE Gujarat Section and Sensors Council Chapter of Gujarat section	Webinars and workshops on how to write a good research paper, create supportive academic & workplace experiences and environments for women engineers, marketing and management skills, leadership skills.	200
2	Womenia-2021	Celebration of International Women's Day.	100
3	Mind-Your-Mind	Quiz competition for the students of Faculty of Physiotherapy.	90

SR. NO.	EVENT / ACTIVITY NAME	BRIEF ABOUT EVENT	PARTICIPATIONS
4	'ERG' at Work: Work with Better Posture	To spread the awareness of good posture at work place.	35
5	Women: The Business Gurus	To showcase the business acumen of our female students as future business gurus or business leaders.	25
6	Tech Intellect	To develop thinking ability, general awareness and sharpness in diagnosing the problem.	50
7	Painting Competition	To make art that while abstract was also expressive or emotional in its effect.	5
8	Xpression	To provide a platform to show case their analytical and presentation skills.	10
9	Treasure Hunt	To improve technical skills, brush up leadership skills, learn to think out of the box, create wonderful memories.	25
10	Poster presentation on "Role of Women Scientists during any Disaster/Pandemic"	Showcasing important role displayed by women during the pandemic.	12
11	HETU-VAAD	Online inter-house debate competition.	25



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## HR CORNER

Humans are more complex than machines and are certainly more valuable for their own sake and also for the sake of what they can bring to your operation. The concept of Human Resources Management acknowledges this truth by dedicating an entire department and body of knowledge to the art and science of managing people as people.

Human Resources address the process of managing people within an organisation at both micro and macro level. At the micro level, it deals with employees as individuals, each having unique needs, strengths and weaknesses. This aspect of human resources requires a compassionate human element from HR staff, who must navigate sensitive situations, such as speaking to an employee about inappropriate behavior or cutting someone's hours because of a shoddy work ethics.

At the macro level, Human Resources is concerned with the way an organisation as a whole relates to and takes care of its employees. The macro level encompasses overall personnel policies like pay rates, benefits and protocols for hiring and firing. This aspect of Human Resources requires attention to detail and an organised mindset.

HR department at MU in made up of 4 officials and it deals with basic HR functions like

- Recruitment
- On boarding
- Process payroll
- Staff Welfare
- Conduct Disciplinary actions
- Making and updating policies
- Maintain HRIS
- Conduct compensation and benefit analysis
- Performance Appraisals

Academic Year 2020-21 was a year of pandemic. It had put all of us in a situation which was never encountered earlier or even foreseen. All of us were caught unaware and all of us had to gear up for the new challenges, and come up with new solutions. Many initiatives were taken to ensure the safe working environment such as:

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**Touchless Face Recognition Attendance:** HR along with IT Software team immediately configured and implemented Face Recognition Attendance System.

**Thermal Scanning:** Visitors and entrants to University building were scanned for body temperature before entering the building.

**Mask & Sanitiser Distribution:** Distribution of high quality mask to all the employees & Sanitizers were placed at key locations and it was ensured that it is used.

**Work From Home:** Work from home was immediately implemented for all the staff members.

**Awareness Campaigns:** COVID guidelines and precautions were placed in all prominent places at display screens, soft boards and ERP system. A webinar was conducted for staff members which focused on sharing the experiences and generating positive vibes from the teammates who had battled it.

**Immunity Booster Supplements:** Staff exposed to public interaction was provided with Kahwa, Lemon juice and vitamin C supplements.

**On Duty Paid Leaves:** 14 days of paid On Duty Leave was granted to covid infected employees and 7 days to those who had a family member identified with COVID-19.

**Testing & Vaccination Drives:** COVID testing and vaccination drives were arranged on campus was arranged multiple times at regular intervals.

## **NEW INITIATIVES UNDERTAKEN**

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**Direct to Provost:** The principal objective of this Direct to Provost Policy is to encourage and enable University representatives, without the fear of retaliation, to raise concerns regarding suspected unethical or illegal conduct of practices on a confidential and, if desired, anonymous basis, so that the University can address and correct inappropriate conduct and actions. The University will exercise its authority to take whatever action may be needed to prevent and correct activities that are found to constitute wrongful conduct.

**National Pension System:** With the dual benefits of Income Tax Exemptions and savings benefits, National Pension System (NPS) has been introduced for all staff members of Marwadi University.

**Salary Automation:** IT modules have been created to automate salary calculations which can help in eliminating manual errors.



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## **STAFF ENGAGEMENT ACTIVITIES ORGANISED**

Navratri Aarti Celebration

26th January 2021 Republic Day Celebration

Marwadi University Foundation Day Celebration on 9th May, 2021

Mindfulness training session for Leadership Team by Ms Geetika Arora on 28th May, 2021

Celebration of International Yoga Day 2021

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## **NATION BUILDING INITIATIVES**

### **DONATION TOWARDS CM FUND**

Marwadi Shares, Chandarana Intermediaries, and staff members of Marwadi University contributed Rs. 30 lakhs in CM Relief Fund to stand in Solidarity with the nation to fight the COVID-19 pandemic.

### **MAKING & DONATING COVID-19 FACE SHIELDS**

Marwadi University and Marwadi Shares and Finance Limited successfully delivered 1000 face shields; 500 to the Police Department, and 500 to the Rajkot City Municipal Corporation. The Face Shields which are considered as Personal Protective Equipment (PPE) are in acute shortage across the nation and the world and to meet its increasing need, we have started this initiative. We have already set a benchmark for delivering 1000 shields, but we are not stopping here. The process of manufacturing face shields is a continual process now and we wish to accomplish bigger goals benefiting those who risk their lives for us.

### **NCC WING**

National Cadet Corps (NCC) is a voluntary organisation engaged in grooming the youth of the country into disciplined and patriotic citizens. Marwadi University has a Wing with 50 Cadets strength in boys as well as in girls.

### **NCC AS GENERAL ELECTIVE SUBJECT**

NCC will be introduced as a general elective subject in technical institutions and universities and Marwadi University is one of the top 3 universities in Gujarat to do so.

The course will motivate students to join NCC while training them in various skills and discipline. The NCC General Elective Credit Course will be available from the academic year 2021-2022.

### **CELEBRATION OF KARGIL VIJAY DIWAS**

Kargil Vijay Diwas was celebrated on 26th July, 2021 at the University campus by NCC HQ Rajkot and NCC wing of MU.

Smt. Anjaliben Rupani, w/o Shri Vijaybhai Rupani Hon. Ex Chief Minister–Govt. of Gujarat graced the occasion as the Chief Guest and Col. P P Vyas, an Army Veteran presided the occasion as Guest of Honour.

Blood Donation camp was also organised by Indian Red Cross Society Blood Bank Rajkot on this occasion.

## GREEN INITIATIVES

585KW solar panels have been commissioned on building rooftops and thus the electricity needs of the campus are fulfilled through renewal source of energy



**Green Building Certification:** The campus is awarded with District Green Champion for year 2020-21 from Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India.

**Cycle to Work & Cyclothon:** Encouraging staff members to use bicycle for arriving at campus in order to create sustainability awareness amongst all. Cyclothon is being organised twice in year from last two years.





**Water Conservation Initiatives:** The campus construction has been designed and devised in such a way that water collected in the campus gets drained into the artificial lake created for the purpose. Water thus collected is utilized for garden and cleaning purposes. Water sprinklers are installed in garden lawn area and trees are watered through drip irrigation systems throughout the campus.



**Lush Green Campus:** 99 varieties of plants like Mahenci, Champa, Nilgiri, Neem, Palm, Battol Brush, Bamboo and Saptaparni numbering 50,000+ in the campus



**Paperless Transactions & Offices:** Established and developed IT department with full time developers to develop various IT modules for improving capabilities & facilitate students in their path of learning & development. This initiative has thus helped in making paperless transactions with minimal movement of physical papers among the offices.

**Free Saplings Give Away:** The Zen Garden at Marwadi University organised a free giveaway of beautiful saplings for all MUites to adorn homes and offices. It was a first-come-first-serve event, where the end-in-mind was to spread the message of learning to create a better environment. The Zen Garden Team promised to come up with more exciting projects soon.





A teal-colored shield-shaped graphic with a white border, centered on the page. Inside the shield, the text "PART III" is written in white, bold, uppercase letters.

**PART III**

- **DIGNITARIES AT MU**
- **TECHNICAL EVENTS**
- **CULTURAL EVENTS**
- **FINANCIAL STATEMENT**

## DIGNITARIES AT MU

### VISIT OF AMBASSADOR EXTRAORDINARY AND PLENIPOTENTIARY OF THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA



Her Excellency Ambassador Dr Tizita Mulugeta Yimam & her team visited Marwadi University on the ADWA Victory Day. The students from Ethiopia were overjoyed and had put up a great show in the main auditorium with the help of the MU Music Department. The programme was attended by Prof. (Dr) Sandeep Sancheti, Provost, Marwadi University, Shri Naresh Jadeja, Registrar, Marwadi University, and Deans of all Faculty.



The event was enthusiastically coordinated by the International Relations Dept. Our international students performed on Gujarati garba songs along with Syrian and African music. In his address, Dr Sancheti expressed his views stating that Marwadi University is looking forward to more such collaborative efforts in the form of Education Fairs, Joint Collaborations, Faculty Exchange Programmes, Technology Transfer, etc., evolving towards building a great future for the young aspirants.

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## VISIT OF SOLAR MAN TO INAUGURATE ENERGY SWARAJ ASHRAM AT MU CAMPUS

### 2-Day Event to spread Solar-Energy Awareness

Establishment of Energy Swaraj Ashram at the campus of Marwadi University on 29th January 2021 in the presence of Dr. Chetan Singh Solanki, the Solar Man of India was indeed a proud moment for MUites. This establishment is one of its kind in the whole Saurashtra region.

The Energy Swaraj Foundation is a non-profit organisation, formed to establish Energy Swaraj across the world. The motto of the ESF is “Energy by Locals for Locals”. The Foundation believes that not through the government around the world or its policies, but through the involvement of the public, a major transformation in energy generation and consumption towards renewable energy can be achieved. The Foundation in its ‘public movement’ mode of operations, works with the people to provide them affordable, reliable, and complete energy solutions.



The purpose of this collaboration is to establish ‘Energy Swaraj Ashram’ (A solar incubation centre) to enable and nurture the local entrepreneurs. On the Inauguration Day, an Industry-Academia meet on-‘The Scope of Energy Business in Saurashtra Region’ was organised along with a press conference to discuss the scope of solar energy and how students can contribute towards this endeavour. Also, a session was conducted on ‘Being Logical-Being Spiritual’ on the day of the establishment of Energy Swaraj Ashram at the campus.



## **VISIT OF HON'BLE MR JUSTICE M R SHAH, JUDGE SUPREME COURT OF INDIA & HON'BLE MR JUSTICE I J VORA, JUDGE HIGH COURT OF GUJARAT**

The state-of-the-art MOOT Court at MU campus was inaugurated by the Hon'ble Mr Justice M R Shah, Judge Supreme Court of India and Hon'ble Mr Justice I J Vora, Judge High Court of Gujarat. This facility developed at Faculty of Law will enhance and help students to take part in simulated court or proceedings and will also have real-life experiences.



## **VISIT OF DELEGATES OF THE INSTITUTE OF INDIAN FOUNDRYMEN (IIF), RAJKOT CHAPTER**

Marwadi University always focuses on the overall development of students by implementing a three-tier teaching-learning philosophy that primarily emphasises on imparting skills to the students studying in various courses at University. Extending this philosophy, Marwadi University regularly organises gatherings of various industrial associations at the campus and to keep its philosophy intact, Marwadi University organised a gatherings with delegates of The Institute of Indian Foundrymen (IIF) – Rajkot Chapter on 26th December 2020.

The event was started by welcoming the representatives of IIF-Rajkot Chapter by Dr Y P Kosta (Provost – Marwadi University), Dr R B Jadeja (Dean – Faculty of Engineering & Technology), Dr R L Jhala (Controller of Examinations), Mr Naresh Jadeja (Registrar-Marwadi University), Dr Nikunj Rachchh (Head – Faculty of Engineering), and Dr Pinank Patel (Head – Faculty of Technology).

Rajkot is surrounded by nearly 700 foundries, and is always in need of skilled manpower. Marwadi University, in collaboration with Jyoti CNC Automation Limited & Centre for Entrepreneurship Development Cell (CED)-Gandhinagar, has established Marwadi University Jyoti CNC Automation Limited (MUJCAL) Association for Foundry Technology to impart technical skills essential in foundries of Rajkot cluster.



MUJCAL has a dedicated space of over 3200 sq feet and is funded with more than 1.4 crores. MUJCAL has more than 40 different equipment including a 3D scanner, 3D printer, Vertical Machining Centre (VMC), Sieve Analyser, Permeability Tester, Vacuum-Assisted Melting Furnace, Metallurgical Microscope, Universal Testing Machine (UTM), Ultrasonic Non-destructive Testing machine, X-ray fluorescence (XRF), Spectrometer, Casting Simulation package (AutoCAST), etc. used in pattern & mould making, melting, pouring, testing as well as inspection of castings.

More than 200 students of different institutes in the Rajkot region have been imparted technical skills from MUJCAL. MUJCAL has also provided services related to casting simulation to more than 10 foundries of Rajkot. Under the leadership of Dr Y P Kosta, MUJCAL Centre has initiated a fast-track programme for providing training to impart technical skills to financially weak students as well as school dropout students from villages.



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Delegates of IIF Rajkot also visited facilities established at Marwadi University. They also visited SMART Foundry Laboratory that has been funded with 36.21 lacs by the Department of Science & Technology – Government of India. The prototype of Vertical Centrifugal Casting Setup was developed in this laboratory that has been operated, monitored, and controlled by the Android based smart device. The delegates also visited Marwadi University Centre for Innovation, Incubation, and Research (MU-I2R) that provides an excellent platform for new start-ups.

Mr Pravin Joshi (Deputy Director, MSME-Rajkot Section) congratulated Marwadi University for establishing such a facility that will be very useful to local industries for creating skilled manpower. He also highlighted the various schemes of Government and MSME to develop skilled manpower. Mr Bharat Davda (Secretary, IIF-Rajkot Chapter) and other delegates of IIF – Rajkot Chapter appreciated facilities established at Marwadi University. He also appreciated the efforts of Dr Amit Sata, a team of MUJCAL (Prof Nikunj Maheta, Prof Dhaval Anadkat, Prof Jignesh Jani, Prof Mukhtar Shama, Prof Punnet Mathur, and Prof Anchit Kaneriya), and other members of the Mechanical Engineering Department for showing dedication for imparting technical skills to the students and connections with industries. He also expressed interest in future collaboration with MUJCAL for providing technical training to the manpower of member foundries of the IIF-Rajkot Chapter.



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## TECHNICAL EVENTS

### Startup Pitching & Investor Awareness Programme – “ACTIVATE” held in collaboration with Angel Investors & Industry Commissionerate – Startup, Gujarat Cell

On 12th January, 2021, Marwadi University organised a first-of-its-kind in India event - ‘Startup Pitching & Investors Awareness Programme in collaboration with Angel Investors and supported by Industry Commissionerate (IC) - Startup Gujarat Cell.

The programme began with a welcome speech by Shri K V Mori, General Manager – DIC Rajkot. The programme drives various entrepreneurship-oriented sessions like inspirational talks, workshops, etc., giving students enough exposure to Startups and access to various opportunities to work on their ideas and inspire others. This programme is named ‘Activate’ and it works in the direction of idea enablement and drives idea-generation across colleges by motivating students to work on problems around them. ‘Activate’ is a platform for young entrepreneurs to bring their ideas to the table, have them validated; and later be driven to a path of a full-fledged Startup. It is designed to be a focused growth model in universities where students can identify and solve real-world problems.

The total number of Start-ups Invited from the Saurashtra Region were 40+ of which 9 Startups were from MU. Out of these Startups, eight were selected to present their ideas, including five from MU - a proud feat indeed. The presentation was evaluated by ten renowned investors who have a firm foot in the industry sector.

The first part of this session included sensitisation to the drive by ‘Angel Investors’. They elaborated on how the government created awareness about investment opportunities in Startups and the benefits one can get from these drives. 10+ renowned industrialists including Shri Janak Katariya, Shri Shyam Raichura, and Shri Ravi Bhadja interacted with the participants, shared their expert views, and gave tips on making a success out of a Startup idea. Among the pitchers, two MU students who pitched for their ideas displayed a sensory blind-stick and UDHYOG 4.0 – both ideas also got a presentation opportunity at ‘Hastakala Fair’ held in Rajkot.

The meeting was chaired by Shri Parmar sir, Joint Industry Commissioner (JCI), who discussed the schemes available for funding, the application procedure, and all the nitty-gritty that can make a Start-Up get going.

This was the first-of-its-kind programme arranged by Marwadi University - a prototype to set the ball rolling in the right direction. This session will be a benchmark of all the upcoming sessions to be held across the states of India.

The outcome of this pioneering initiative was very encouraging for the young and ambitious entrepreneurs who were looking for a platform to share their ideas and get proper guidance to give a concrete form to their aspirations. The learning and expertise of the investors and Government Officials will definitely give the right push to the Start-up ecosystem in Saurashtra.



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## **26<sup>TH</sup> INTERNATIONAL CONFERENCE OF INTERNATIONAL ACADEMY OF PHYSICAL SCIENCE ON “ADVANCES IN ALGEBRA AND ANALYSIS” (CONIAPS-XXVI)**

The 26th International Conference of International Academy of Physical Sciences on “Advances in Algebra and Analysis” (CONIAPS-XXVI) was organised by the Department of Mathematics, Marwadi University, Rajkot, Gujarat, India in association with the International Academy of Physical Sciences, Prayagraj during December 18-20, 2020.

### **HIGHLIGHTS OF CONFERENCE**

The Day-1 of the Conference started with a plenary talk of Dr M S Mahadeva Naika which was followed by 6 invited talks from various national dignitaries. The last session was of Oral Presentation in which a total of 24 papers were presented by different participants all over India.

Day-2 of the Conference started with the plenary talk of Dr H S Dharmi, Former Vice-Chancellor, in which 60 participants were present followed by two parallel sessions of invited talks in which 70 participants were present. The third session was of Oral Presentation in which 3 papers were presented. Four invited talks were delivered by prominence speakers in which 70 participants were present. The last session was of two parallel paper presentations in which 13 papers were presented.

Day-3 of the Conference started with the plenary talk of Dr Rashmi. Bhardwaj, Professor, Guru Gobind Singh Indraprastha University, New Delhi in which 70 participants were present. The above talk was followed by two parallel sessions of 8 invited talks in which 70 participants were present. The last session was of Oral Presentation in which 14 papers were presented.

In all three days, more than 50 young and enthusiastic researchers could utilise this conference to present their research and shared their work with other researchers. We have received the abstracts from diverse fields like Algebra, Image Processing, Fuzzy, and Graph Theory, etc. and this has given CONIAPS-XXVI a true accomplishment in terms of fulfilment of our objective to bring together leading academic scientists, researchers, and research scholars to exchange and share their experiences and research results on all aspects of Mathematics.

### **“SMART GUJARAT FOR NEW INDIA HACKATHON”**

The final round of “Smart Gujarat for New India Hackathon” was held at Marwadi University on 10<sup>th</sup> & 11<sup>th</sup> August, 2021. Students got an opportunity to work on real life challenges of SMEs, Industries and Large Corporations. Efforts are being put up to create a strong open innovation programme involving industry, academia keeping students, innovators & start-ups at the centre. Under this programme, the Ministry of Education involves all universities and the students for participations at different levels. Potential digital and other challenges from various Ministries/Departments will be sourced, codified and made available in a digital platform so that young students can participate in it.

There were 225 identified problem statements shared by different sections of the Gujarat state that includes corporate industries and various government departments. The major focus was to provide solutions to all the problem statements by using following Engineering and Technological concepts. The problem statements were classified in below categories;

- Bio-medical Engineering
- Civil Engineering
- Chemical Engineering
- Information Technology
- Electrical and Electronics Communications
- Mechanical Engineering
- Mining Engineering
- Pharmaceuticals
- Production Technology
- Plastic Technology
- Textile Engineering
- Rubber Technology

## HIGHLIGHTS OF HACKATHON AS BELOW

The event was for 36 hours a-non-stop event

The solutions to about 14 problems were designed and implemented

14 student teams comprising of 43 students participated in the final round at MU campus

2 teams from Marwadi University were part of the event

The event was coordinated by Computer Engineering & Information Technology departments

Event was supported by 11 faculty members and 25 student volunteers to make it successful



## CULTURAL & CO-CURRICULAR EVENTS

International Day Celebration: Student diversity is witnessed at the University with a presence of 1,040 students hailing from 38 countries; enjoying and sharing respective cultures with the national students on campus. To strengthen and respect cultures of each of the countries, University celebrates National Days of each of the country. Country specific delegation is invited to attend the National day ceremony as well as to orient with the well being of students.

### SPECIAL THANKS-GIVING COVID SONG FOR CORONA WARRIORS

Special Thanks-giving COVID song for Corona Warriors, self-composed by MU Students along with Music team. Ms Urmi Makwana, Mr Dixit Bhadani, Ms Chandni Thacker, Mr Harsh Vaishnav, Mr Ruchit Madlani, Mr Vivek Singh Rajput, Mr Keval Vora, Mr Malav Maru, Mr Abhishek Pathak, Ms Stuti Parekh and Mr Manan Thacker showcased their art.



The Music Department kept spreading positivity through various musical initiatives online – the main idea behind all these projects is to keep students positively engaged on online platform and to also know about the musical technology.

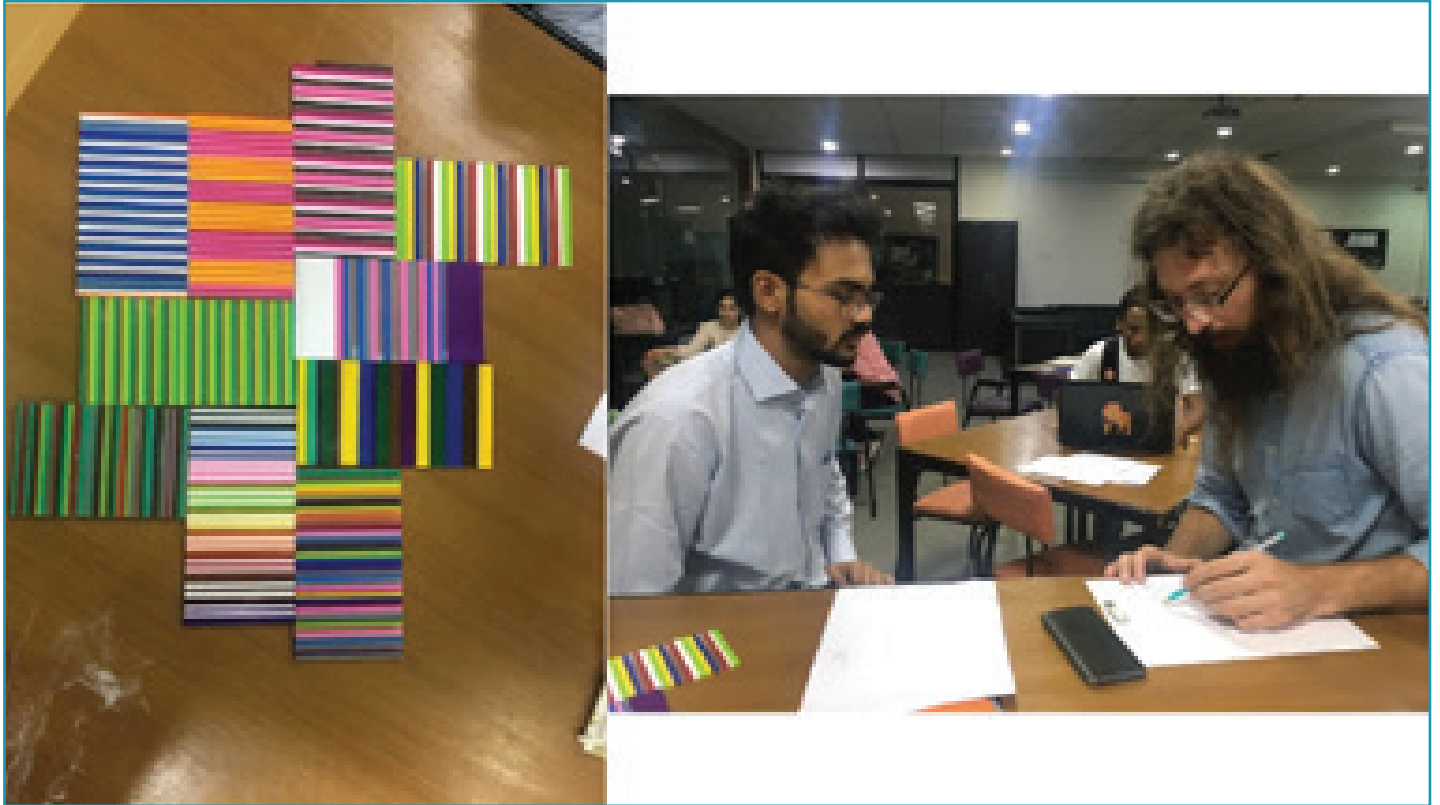


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## ARTIST-IN-RESIDENCE CAMPUS ACTIVITY FOR HOSTELITES

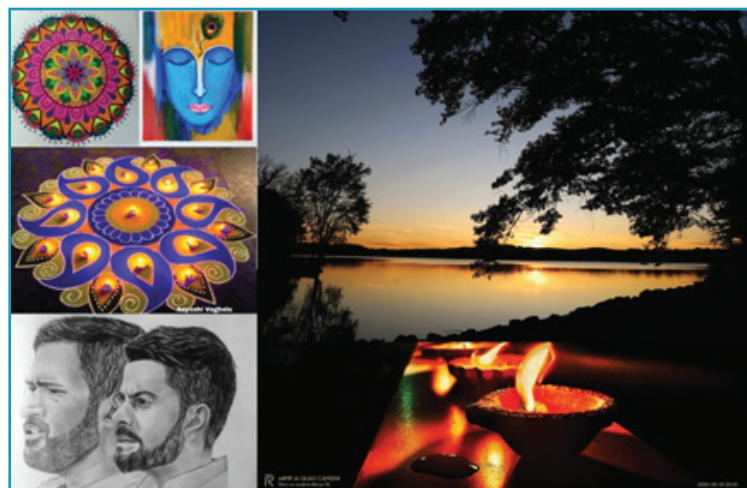
A workshop & seminar was organised by our Artist-in-Residence Mr Matteo for Marwadi University Hostel students. MU campus students joined Matteo and his team at the Makers Lab to be a part of the building and laser cutting process with colourful acrylic slabs, creating a vibrant acrylic city.



## MU TALENT HUNT SEASON-2

Continuing with online activities in Performing Arts, the University organised MU TALENT HUNT SEASON 2. With almost 80+ participants, the event was an online triumph.

The entries were a mix of Performing Arts (Music, Dance), Fine Arts (Drawing, Sketching, Painting, Rangoli), and Photography (Mobile, DSLR) where the students displayed their talents in the field they were passionate about.





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## CHRISTMAS CELEBRATIONS AT MARWADI UNIVERSITY HOSTEL

Christmas was celebrated with great joy and fun at the MU campus by hostel students with superb performances by international students in music and dance. Maintaining the rules of social distancing, the hostel students put up a great show that was enjoyed by all.



## CELEBRATION OF INTERNATIONAL YOGA DAY

It was a beautiful sight to behold in the Seminar Hall of Marwadi University when 30+ International students participated enthusiastically and performed Yoga asanas and breathing exercises under the expert guidance of Ms Nilam Sutariya – an eminent Yoga instructor.

Prof. (Dr) Sandeep Sancheti, Provost, Marwadi University, graced the event as the chief guest and pleasantly surprised everyone with his deft yoga skills that stated years of practice in this art. Mr. Naresh Jadeja, Registrar, Marwadi University, participated and encouraged the students, thanking the entire team of Marwadi University for making this event safe and successful.



# FINANCIAL STATEMENT

Trust Registration No. E/8458/RAJKOT

## MARWADI EDUCATION FOUNDATION

### CONSOLIDATED ABRIDGED INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2021

Expenditure	Sch. No.	Amount ₹ (in lac)	Amount ₹ (in lac)	Income	Sch. No.	Amount ₹ (in lac)	Amount ₹ (in lac)
Admin Expense	22		634.58	Fees	16		7,601.73
Advertisement Expense	23		215.89	Other Fees	17		317.12
Electricity Expense			157.96	Interest Income	18		63.34
Depreciation	1		1,144.71	Rent Income	19		32.06
Finance Charges	24		1,722.00	Misc Income	20		22.89
House Keeping Expense			96.18	Penalty for Late Fees	21		1.03
Library Expense			6.97				
Placement Expense			9.89				
Repair & Maintenance Expense	25		230.09				
Salary	26		3,059.91				
Employee benefit Expense	27		8.51				
Student Related Expense	28		286.39				
Deffered Revenue Exp. Writeen off	29		130.13				
<b>Excess of Income Over Expenditure Transferred to the Balancesheet</b>			<b>334.96</b>				
<b>Total</b>			<b>8,038.17</b>	<b>Total</b>			<b>8,038.17</b>

Place : Rajkot  
Date : 27.10.2021



*H.S. Khurana*  
Chief Accountant

*J.R. Chaudhary*  
Trustee



Ranpura Desai & Co.  
Chartered Accountants  
[FRN : 117476W]

*Renshi D. Adhiya*

(Renshi D. Adhiya)  
Partner  
(Membership No. 183316)  
UDIN:21183316AAAAEQ8739



Rajkot-Morbi Road, Rajkot, Gujarat

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