



Marwadi University

A Journey of Self Discovery

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# ANNUAL REPORT

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2019 - 2020

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# PROVOST'S REPORT

## 3rd Convocation of Marwadi University 05th December 2020.

I take this opportunity to welcome the distinguished dignitaries present on the dais; Honourable Chief Minister of Gujarat – Shri. Vijaybhai Rupani – it is indeed a privilege to have you with us, Shri. Ketanbhai Marwadi, President, Marwadi University, Shri. Jitubhai Chandarana, Vice-President, Marwadi University, Members of the Boards, Trustees, Registrar, Deans of Faculty, Faculty Members present, participating Parents, other distinguished invitees, and my dear students.

I present, consolidated snapshot as glimpses of the achievements of the journey of Marwadi University for the Academic Year 2019-20, COVID 19: In spite of the physical, mental, social disruptions caused by COVID 19 the vibrancy of education has been joyfully sustained to the satisfaction of the students through the Digital Space. The university has delivered, stored, and made available 60,000+ hours of quality and strategic educational content across all faculties under the online mode. Alongside proctored evaluation mechanisms have also been established, and more than 3000+ students have been successfully accessed. And to complete the final and most challenging part of the student's journey, in fact, the most desired expectation of students and parents, the university has digitally stretched its arms to connect with the industry and place the students through the digital space across the country. Sir, I confirm here that more than 665 students have received their final placement offers digitally. Today the university is fully operational under digital mode & can admit, educate, train, access & place students with due competence and honour. At this very moment, I can attest to the fact that the digital presence and network of the university seem immeasurable and growing. The MU community believes that the COVID 19 phenomenon has been the harbinger-torch and a blessing in disguise, as this has dawned and honed the hidden acumen of digital-education-expression of the university thereby boldly embracing and presenting itself to the world around. The university conducted the orientation programme in the digital-mode to the newly admitted students alongside a mandatory course on 'Effective Online Teaching' to all teaching fraternity and an effective e-administration programme to all the non-teaching staff of the university. Notwithstanding, Sir, I confirm you that the university as it stands today is "fully compliant and digitally ready" to offer education in the online mode. Sir, I share, few strokes of key activities and achievements for the year 2019-2020;

- Active Student Start-Ups: 13
- Scholarships and Fellowships Disbursed: Rs. 1.12 crores
- Total Research Publications 317 and Total Patents published – 3
- Revenue generation: MU through Research projects & Consultancy work undertaken generated Rs. 1.22 crores in revenue
- Data & Computing: Establishment of Supercomputer facility at Marwadi University for academics and research work by Gujarat Council on Science and Technology (GUJCOST) - Department of Science and Technology, Gandhinagar.
- Intellectual presence: The state Education Minister Shri. Bhupendrasinh Chudasama, who leads the NEP 2020 state task force, invited and inducted Shri. Ketan Marwadi, Founder and President of Marwadi University, as one of the key committee members to prepare a road map on how to implement the new education policy in the state.
- International frontend ventures: Marwadi University has signed and established active collaboration with 22 International Universities for intellectual pursuits. The most recent being the student exchange programme initiatives with the University of Rhode Island [URI], the USA, and the University of Dunaujvaros, Hungary.
- International Events and activities:
- Conference: The university hosted the prestigious IEEE INDICON 2019 - The 16th IEEE INDICON 2019, a flagship annual International Conference of IEEE India Council between 13th to 15th December 2019. The theme being "Application of Artificial Intelligence in Engineering for Prosperity and Betterment of Humanity". A total of 611 research paper submissions were received, of which, Academia (86.3%), Government (4.1%), Industry (2.5%), and Research Facility (4.6%). The research paper acceptance ratio was 34%. 209 were presented during the Conference. International Students competition: Asia Pacific 2020, ASME E-Fest – This prestigious 'E-Fests Asia Pacific 2020' by ASME (formerly The American Society of Mechanical Engineers, est.1880), an International Students competition was organised at the university campus between 28th February to 1st March 2020. This 4th Edition of ASME E-Fests in India since its inaugural in 2017 was the biggest E-Fest ever (Globally) which witnessed a footfall of 1,634 participants (including 15% female students) from over 60 engineering universities, representing 19 states and 3 union territories. Overall, 170 teams competed in 8 competitions. Placements: Uninterrupted Placement Continues in spite of the COVID 19 phenomenon... At MU, Placements as the final measurement scale. It is our twin-edged instrument that functions as a compass and a barometer to our education that we deliver to societies and markets. I am pleased to share that the university is rapidly becoming the first choice of top corporate across many Industry sectors that are seeking Industry ready talent pool. The Placement Team comprises 12 full-time members spread across the nation to cater to the needs of the students for placements. The placement department generates placement opportunities in over 450+ companies annually. I am happy to share that every student at Marwadi University is trained with specific skills, specialised knowledge, and a humble attitude that is necessary to be successful in the interviews and selection processes. As the world faces lockdown amidst the COVID 19 crisis, Marwadi University brings some amazing news of promising placements with packages ranging between 10 lakhs to 7 lakhs for 800+ students who have been placed in reputed companies that include names like TCS, Capgemini, BYJU'S, etc.

All in all - when I look around as to what this year has brought to the university, I am most aware of is not increased distancing, but the expanded network alongside enhanced community and a youthful digital presence. I believe people have pooled together in unthinkable innovative ways during this pandemic: as researchers, as teachers, as colleagues, as neighbours, and as friends. Everyone in the community of this youthful, vibrant, digitally extrovert, and yet this extraordinary university has played a part in our continued wellbeing and success. I remain enormously proud to be your Vice-Chancellor.

Congratulations on all you have achieved and all you have demonstrated in this rather difficult year. We will not allow the new normal to be an excuse for standing barrier to our growth, development, economy, and life. We will overcome this rather enlightening pause – and emerge wiser, victorious, and more resilient.

At this juncture, I sincerely thank all our teaching and non-teaching staff for always being-in-togetherness with our worthy goals that benefit all stakeholders and civilisations for their betterment and longevity. I have unflinching faith and confidence that together we navigate through the challenges of the journey ahead.

I'm sure in this COVID 19-control-protocol ceremonial gathering all the students would join hands to thank them with a round of applause.

Marwadi University community feels honoured by the gracious presence of the distinguished dignitaries on and off the dais at this 3rd Convocation of the university. I congratulate the students, who have received the gold medals for their meritorious work and congratulate all those receiving degrees today, and wish all the graduating students' success in all their endeavours. I wish you all the best for a great future. We also hope that you will stay in touch and keep coming back to your alma mater.

Jai Hind, Jai Jai Garvi Gujarat.

Dr Y. P. Kosta  
Provost, Marwadi University.





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# PART 1

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- Year at a Glance
- University Governance
- 2nd Convocation of Marwadi University 2019

# DISCOVER YOU!

## Year at a Glance: 2019-20

Marwadi University (MU) is a multi-programme, multi-lingual & multi-cultural institute. It strives for excellence and innovation as much as creativity and discovery of relevant and meaningful methodologies in teaching & learning practices. Students are prepared for an interdisciplinary experience that encourages them to link and integrate learning experiences into an approach to gain an understanding of a problem or an issue.

Academic Year 2019-20 witnessed touching upon magnificent milestones by the Academic Institutes of the University in its journey towards Excellence in Education. The students were given opportunities to blossom in academics and a host of cultural, sports, and industrial activities in the vibrant campus. The presence of world-class teaching-learning facilities, vibrant institute-industry collaborations, international exchange programmes, research collaborations, and industrial training opportunities helped students of Marwadi University to excel and to be ahead in the competitive professional environment.

The Institute strengthened its International presence and relationships with the Universities of European Union; thus, helped in enhancing the academic & researching needs of students & faculties. Working upon the need of the hour, the University associated and collaborated with Governmental schemes for skilling & up-skilling of employees at the Industries, thus generated Industry-Ready & Industry-Responsive workforce to handle complex and challenging problems faced at the workplaces.

During the second half of the Academic Year, Higher Educational Institutes & its campuses across the globe were severely affected by the COVID-19 pandemic situation. To curb the spread, preventive measures such as social distancing and self-isolation have prompted the closure of educational institutes. Marwadi University swiftly shifted from face-to-face classroom interaction to Virtual interaction between Teachers & Students. Along with the advancement in technological tools, Marwadi University leverages digital platforms to deliver academic lectures.

MU education is designed to enable students to become truly global citizens as they function in a collaborative, research-based environment – researching, analysing, synthesising, critiquing, evaluating, and creating new knowledge. With more skill-based courses to be added in the coming years, it is all set to provide a cutting-edge programme that offers a unique blend of quality education, industry connect, global exposure, entrepreneurial skills at a very affordable cost in a safe and secure environment of Gujarat.

## Vision

Our vision is to address the challenges faced by our society and planet through education that builds the capacity of our students and empowers them through their innovative thinking, practice, and character building. In turn, this would boost their creativity while making them responsible for the utilisation of the limited natural resources to face the challenges of the 21st Century.

## Mission

- To produce creative, responsible, and informed professionals
- To produce individuals who are inventive thinkers, effective communicators, and highly productive digital-age literates
- To deliver cost-effective quality education  
To offer world-class, cross-disciplinary education in strategic sectors of the economy through a well-devised and synchronised delivery structure and system.
- To provide a conducive environment that will enable students to experience a higher level of learning acquired through constant immersion leading to the development of character, virtues, values & technical skills.

## Practised Values

Our Vision and Mission will be guided by our enduring beliefs and commitment to;

- Passion for Knowledge & Academic Excellence
- Ethical Conduct & Empathy
- Inclusivity & Diversity
- Community & Social Responsibility
- Accountability & Sustainability

# CURRENT ACADEMIC PROGRAMMES

## Faculty of Engineering

### **Bachelor of Technology (B.Tech.)**

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

### **Master of Technology (M.Tech.)**

- Chemical Engineering
- Computer Engineering
- Civil Engineering

## Faculty of Science

### **Bachelor of Science (B.Sc.)**

- Microbiology
- Chemistry

### **Master of Science (M.Sc.)**

- Microbiology
- Chemistry
- Physics
- Maths

## Faculty of Computer Applications

- B.C.A.

## Faculty of Physiotherapy

- Physiotherapy (B.PT)

## Faculty of Liberal Studies

- B.B.A
- B.B.A. (Hons.)
- B.Com

## Faculty of Business Management

- MBA

## Faculty of Law

- B.Com L.L.B. (Hons.) (Integrated 5 years)
- B.A. L.L.B. (Hons.) (Integrated 5 years)

## Faculty of Pharmacy

- B.Pharm

## MEFGI Diploma Studies

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

# STUDENT ENROLLMENTS:

## ACADEMIC YEAR 2019-20

Department	Branch	2019-20
ENGINEERING	AUTOMOBILE	34
	CHEMICAL	18
	CIVIL	16
	COMPUTER	171
	ICT	46
	IT	33
	MECHANICAL	34
ENGINEERING	CHEMICAL	4
	CIVIL	11
	COMPUTER	10
	ELECTRICAL	5
	MECHANICAL	3
BSc	CHEMISTRY	56
	MICROBIOLOGY	72
MSc	CHEMISTRY	46
	MATH	6
	MICROBIOLOGY	49
	PHYSICS	26
BBA	BBA	195
	BBA (HONS.)	161
B.COM	BCOM	69
LAW	B. Com LLB (Hons.)	13
	B. A. LLB (Hons.)	24
BCA	BCA	122
B.PHARM	B.PHARM	64
B.Physio	B.Physio	34
MBA	MBA	71



# GRADUATING STARS OF MARWADI UNIVERSITY – 2020

## AWARDEES FOR GOLD MEDAL

GR. No.	Student	Institute	Stream	CGPA
103074	PURVA KIRITKUMAR SADARIYA	FACULTY OF LIBERAL STUDIES	BBA	8.92
102146	DHRUVI ANILBHAI KHAKHARIYA	FACULTY OF LIBERAL STUDIES	BBA (HONS)	9.17
102931	MOHIT NAVINBHAI KAMVANI	FACULTY OF LIBERAL STUDIES	BCOM	8.74
102281	HIYA KIRANBHAI BHATT	FACULTY OF COMPUTER APPLICATIONS	BCA	9.02
102464	HADAVANI RIDDHAM NILESHKUMAR	FACULTY OF SCIENCE (BSC)	BSC (CHEMISTRY)	9.71
102583	RADHA VIJAY KUNDALIYA	FACULTY OF SCIENCE (BSC)	BSC (MICRO)	8.98
104444	MOHAMMADURVESH HABIBBHAI SHERASIYA	FACULTY OF SCIENCE (MSC)	MSC (CHEMISTRY)	9.02
105143	KHUSHALI HASMUKHBHAI RAJKOTIYA	FACULTY OF SCIENCE (MSC)	MSC (MATHAMATICS)	9.05
104419	KAJOL HITENDRABHAI SONI	FACULTY OF SCIENCE (MSC)	MSC (MICRO)	8.95
104532	PRIYANKA JAYESHBHAI HEMANI	FACULTY OF SCIENCE (MSC)	MSC (PHYSICS)	9.9
103508	GOHIL SMEET MANUBHAI	DIPLOMA STUDIES	CHEM-DIPLOMA	9.42
103648	DARSHA MAHESHCHANDRA NAKUM	DIPLOMA STUDIES	CIV-DIPLOMA	10
103520	TEJAS RAJESHBHAI KOTTECHA	DIPLOMA STUDIES	CE-DIPLOMA	9.82
102939	MADHAV PARESBHAI SANGANI	DIPLOMA STUDIES	ELE-DIPLOMA	8.63
103066	RAVIKUMAR BHARATBHAI NAKUM	DIPLOMA STUDIES	ME-DIPLO	9.73
100738	HARSH RAHUL PAREKH	FACULTY OF TECHNOLOGY (BTECH)	BTECH (AUTO)	8.88
101242	ABHAY PRAVINBHAI DAVRA	FACULTY OF TECHNOLOGY (BTECH)	BTECH (CHEM)	9.69
100645	JAY KANTILAL MAKADIYA	FACULTY OF TECHNOLOGY (BTECH)	BTECH (CIVIL)	9.11
101254	BHAUTIK RAMESHBHAI CHOVIYA	FACULTY OF TECHNOLOGY (BTECH)	BTECH (COMP)	9.33
100759	HARSH B PATEL	FACULTY OF TECHNOLOGY (BTECH)	BTECH (IT)	8.9
100833	NIRAV BHARATBHAI SANAVDA	FACULTY OF TECHNOLOGY (BTECH)	BTECH (MECH)	9.32
105839	SONA PARESH SOLANI	FACULTY OF TECHNOLOGY (MTECH)	MTECH (Computer)	8.44
105832	JANKIBEN RAJESH GOVANI	FACULTY OF TECHNOLOGY (MTECH)	MTECH (Chemical)	9
105952	HARDIK BHARATBHAI SAHARA	FACULTY OF TECHNOLOGY (MTECH)	MTECH (Civil)	8.33
105993	MAYURDHWASINH V GOHIL	FACULTY OF BUSINESS MANAGEMENT	MBA	8.68

## BRANCH-WISE STUDENT PASS OUT – SUMMARY

Institute Name	No. of Students
FACULTY OF MANAGEMENT	82
FACULTY OF COMPUTER APPLICATIONS	60
FACULTY OF LIBERAL STUDIES	197
FACULTY OF SCIENCE	307
FACULTY OF ENGINEERING & TECHNOLOGY	280
DIPLOMA STUDIES	115



# UNIVERSITY

## GOVERNANCE

MARWADI UNIVERSITY IS GOVERNED BY ITS STATUTORY BODIES, FORMED AS PER THE PROVISIONS STATED IN THE GUJARAT PRIVATE UNIVERSITIES ACT NO. 8 OF 2009. STATUTORY BODIES FUNCTION TO, REVIEW AND APPROVE FROM TIME TO TIME, THE POLICIES, PLANS & PROCEDURES AND SUGGEST MEASURES FOR IMPROVEMENT AND DEVELOPMENT OF THE UNIVERSITY

### MEMBERS OF THE BOARD OF GOVERNANCE

Name	Designation
Mr Ketan Marwadi	President
Mr Jitendra Chandarana	Vice-President
Principal Secretary or Representative - Education Dept., Govt. of Gujarat	Ex-Officio
Dr Yogeshwar Kosta	Provost
Mr Deven Marwadi	Trustee
Mr Sandeep Marwadi	Trustee
Mr Nishit Chandarana	Trustee
Mr Amish Chandarana	Trustee
Dr K K Khakhar	Eminent Educationist
Mr Vikram Sanghani	Eminent Industrialist
Mr Kishanbhai Patel	Eminent Industrialist
Mr Parakramsinh Jadeja	Eminent Industrialist
Dr Rajendrasinh Jadeja	Dean, Faculty of Technology
Ar Bijoykumar Bordoloi	Principal, Faculty of Architecture
Smt Sonal Punjani	Head, Human Resources
Shri Naresh Jadeja	Registrar

### MEMBERS OF ACADEMIC COUNCIL

Name	Designation
Dr Yogeshwar Kosta	Provost
Shri Naresh Jadeja	Registrar
Dr Rajendrasinh Jadeja	Dean, Faculty of Technology
Dr Ramdevsinh Jhala	Principal, Faculty of Technology
Dr Sarang Pande	Principal, Faculty of PG Studies & Research
Dr R. Sridaran	Dean, Faculty of Computer Applications
Dr Sunil Jakhoria	Dean, Faculty of Business Management
Dr Rajesh Patel	Principal, MEFGI Diploma Studies
Dr Rhishikesh Dave	Dean, Faculty of Law
Prof. BijoyKumar Bordoloi	Architect
Dr Jayeshbhai Parmar	Principal, Faculty of Physiotherapy
Dr Lalji Baldaniya	Principal, Faculty of Pharmacy
Dr Vicky Jain	Vice-Principal, Faculty of Science
Mr Deepak Mathur	Director-Elect, IEEE Region 10 (Asia-Pacific Region) & Ex. Chief General Manager, ONGC Ahmedabad.
Dr Anil Roy	Associate Professor, DAIICT Gandhinagar
Dr Deepak Garg	Professor & Head, Bennett University



# MEMBERS OF THE BOARD OF MANAGEMENT & FINANCE COMMITTEE

Name	Designation
Shri Ketan Marwadi	President
Shri Jitendra Chandarana	Vice-President
Dr Yogeshwar Kosta	Provost
Shri Naresh Jadeja	Registrar
Dr Rajendrasinh Jadeja	Dean, Faculty of Technology
Dr Ramdevsinh Jhala	Principal, Faculty of Technology
Dr Sunil Kumar Jakhoria	Dean, Faculty of Business Management
Dr R Sridaran	Dean, Faculty of Computer Applications
Smt Sonal Punjani	Head, Human Resources
Col. Suresh Rajagopalan	SVP, Administration
Shri Devesh Poorey	Head, Civil Construction
Shri Pinto Mammen	Joint Registrar, Student Section
Dr Gaurav Gandhi	AVP, Placement Cell
Shri Hardik Dhulia	Accounts Officer





# 2ND CONVOCAATION OF MARWADI UNIVERSITY

## 12TH OCTOBER 2019.

Students of Marwadi University witnessed Graduation Ceremony on 12th October 2019 with academic degrees, a day celebrated with all those teachers, friends, and parents who helped in all the initial years of student life and made learning fun.



Dr. Sudhir Mishra, Shared His Success Story With The Students, Stressing The Point That Today, India Is A Land Of Opportunities For Hard-working, Industrious Young People. Dr. Mishra Paid A Heartfelt Tribute To His Mentor, The Late Dr. Apj Abdul Kalam. He Recalled How, As A Young Graduate, He Dreamed Of Sailing The Seas And Settling

In The Usa. But One Week Of Working Under Dr. Kalam Gave His Aspirations A New Direction, And He Decided To Devote His Skills To Help India Attain Supremacy In Missile Technologies. After Sharing These Amazing Life Experiences, He Urged The Graduating Students Of Marwadi University To Be A Major Contributor To The Nation Instead Of Searching For Success In Other Countries.

Mr. Ketan Marwadi, President – Marwadi University, Addressed Students Urging Them To Lead The World Towards A Better Tomorrow By Seizing Opportunities. The President Addressed And Motivated Students To Develop Values To Mark Their Presence In The World In A Unique Way That Defines Leadership Identity. Students Were Encouraged To Develop 4 Values Such As; To Be A Lifetime Learner, To Have A Vision, Always Evaluate Possibility And To Be Grateful And Be Humble.

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# PART 2

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- Developments & Achievements at Departments
- Learning & Development Department
- Department of Communication Skills
- Student Placements & Trainings
- Incubation Centre: (MU-I2R)
- Finishing School - IT & ITeS Sector
- Learning Resource Centre
- Physiotherapy Research & Rehabilitation Centre
- International Relations
- Outreach Activities
- National Nation Building Initiatives

# FACULTY OF TECHNOLOGY

## CIVIL ENGINEERING DEPARTMENT

It is indeed necessary for undergraduate and postgraduate students as well as faculty members to keep them updated with the current trends, knowledge, and their interest in the academic field vis-à-vis in co-curricular activities. By keeping this as a prerequisite in mind, the Department of Civil Engineering has always been enthusiastic for the continuous improvement of their students as well as faculties members.

### Workshops Organised

A workshop on “Application of Geosynthetic and Ground Improvement Technique” was organised by Civil Engineering Department along with the IGS-Baroda Chapter, Tech Fab India, Unique Engineering Service, Institute of Engineers, and Gujarat Council on Science and Technology (GUJCOST) on 5th & 6th July 2019

The workshop aimed to provide state-of-art knowledge in the field of geosynthetics & ground improvement techniques. More than 120 participants attended the workshop comprising of undergraduate and postgraduate students, academicians, and industrialist.

List of Keynote speakers;

- Dr D L Shah, Professor & Head, M S University, Vadodara.
- Mr Saurabh Vyas, Head Technical Services, Tech Fab India.
- Mr Manish Barot, Head Technical Services, Tech Fab India.
- Mr Himanshu Kotak, Consultant, C-Phi Consultant, Ahmedabad.
- Dr Lalit Thakur, Associate Professor & Head, Babariya Institute, Vadodara.

A workshop on “Structural Health Assessment & Its remedies” was organised at the department on 13th & 14th September 2019 sponsored by Gujarat Council on Science and Technology (GUJCOST), Department of Science & Technology & CADD Centre, Rajkot.

The objective of the workshop was to provide learners with a glimpse of emerging trends in the field of structural health monitoring, repair, and retrofitting of the structures as well as about instrumentation and its mechanism. This platform also facilitated participants to interact with eminent experts’ in the field. More than 50 participants including students, academicians, and industrialists witnessed with active participation.

List of Keynote speakers;

- Mr. Kaizad Engineer, Structural Consultant, Usha Infinity Construction Co. Pvt. Ltd, Vadodara.
- Mr. Nirmal Chokshi, Structural Consultant, AIMIL Ltd. Vadodara.
- Dr. Anil Markana, Assistant Professor, PDPU Gandhinagar.
- Dr. R J Shah, Ex. Faculty at CEPT University, Ahmedabad.
- Mr. Rumi Parikh, Structural Consultant, Vihan Techno Solutions, Ahmedabad.
- Dr. D R Panchanl, Assistant Professor, M S University, Vadodara.

### Guest Lectures Organised

A lecture on Runway Design and Pavement Management System was organised at the Department on 2nd December 2019 by Dr. N. C. Shah, Director - C. G. Patel Institute of Technology, UkaTarsadia University, Bardoli. The lecture was jointly organised by the ACI India student chapter and the Civil Engineering Department. A total of 75 undergraduate and postgraduate students actively participated. The lecture aimed to exhibit carry out and, compare various methods of rehabilitation of pavement structures, overlay-designs, etc.

### Webinars Scheduled

Keynote Speaker	Title/Topic	Date	No. of Participants
Mr. Jayant Lakhani, Structural Consultant, Lakhani Associates.	Building with the unconventional structural system	12-05-20	100
Dr. Shirish Deo, NIT Raipur.	Hot weather concreting	14-05-20	70
Mr. G. T. Bagchandani Dy. General Manager Business Development L&T	Project management: Concept to commissioning and post COVID construction challenge	16-05-20	50
Dr. Sunny Deol G, Professor, NIT Raipur.	State of art analysis and design of flexible pavement	22-05-20	60

## Field Visits

- Bhadar Dam, Jetpur: Students could correlate classroom learning with dam engineering, inspection gallery, and methodology of flow.
- Gondal Prestressed, Gondal: To share insights on pre-tensioning and post-tension in electric concrete towers.
- New Bus Stand, Rajkot: Students could learn about various types of construction, planning practices at the site, and monitoring of the project.
- Saurashtra Cricket Association, Stadium and Aircon Industry.
- Institute of Seismological Research and Gandhinagar Railway Station.
- Pixon Energy Pvt. Ltd.
- MLD water treatment plant.

### Student Participation in Technical Events

- Techfest IIT Bombay: Students of the 8th semester participated in the event “Tower Crane” at IIT Bombay and secured 3rd position in the national level event.
- Ultratech Sparkling Star, Rajkot: An annual competition by Ultratech Cement Ltd. in which current trends and innovations in concrete technology are presented by students. Mr. Abdul Karim and Mr. Mahaveer Thakkar, students from the 6th semester secured 1st position in the competition.
- Debate Competition organised by Faculty of Law, Marwadi University.
- Start-up to VC workshop.
- DST-SERB and SSIP Sponsored Boot Camp for Idea Marathon 2019.
- Participation in World Design Organisation Conference 2019.

## Cable-Stayed Bridge

Students of the department implemented their classroom learning's on-field by constructing a cable-stayed bridge for NCC training at the university campus. The uniqueness of the bridge lies in its design. The pylon of the cable-stayed bridge is inclined; the length of the deck is 40 feet and is made up of reinforcement bars which make the deck flexible. Planning, designing, cutting, and welding of reinforcements for the bridge deck, an assemblage of the pylon, transportation of bridge to site, and cable anchorage was done by final and pre-final undergraduate students

## Faculty Achievements

Marwadi University was pleased to announce the promotion of Dr. Tarak Vora to the position of Professor in December-2019. Services rendered and contribution towards the development of consultancy services in the field of Material Testing & Environment Audit by Dr. Vora has been noteworthy.

## Conferences & STTPs: Faculty Participation

Title/Topic	No. of Faculties	Duration
Performance-based Specifications.	14	17-Apr-20
Valuation assignment: Professional art.	18	20-Apr-20
Construction Scenario – Post Covid -19.	11	29-Apr-20
Post-Covid real estate an opportunity to build back better.	9	29-Apr-20
Innovative Methods in Research Methodology with RAX	16	30-Apr-20
Tall, super tall, and mega buildings- Structural systems.	8	2-May-20
Understanding 'PT Slabs and Beams' – Design and review.	9	2-May-20
Advanced Concrete products and challenging project case studies.	12	4-May-20
Webinar on Total Station (basics)	4	4-May-20
Modeling and Simulation using MATLAB	3	18-May-2020 to 22-May-2020



## MOOCs: Faculty Participation

<b>Prof. Husain Rangwala</b>	<b>The matrix method for structural analysis</b>	<b>NPTEL</b>
	Structural Dynamics for Civil Engineering-SDOF	NPTEL
	Mechanics of Material-III – Beam Bending	Coursera - Georgia Institute of Technology
	Introduction to Ordinary Differential Equations	Coursera - Kaist
	Differential Equation for Engineering	Coursera - The Hongkong University of Science and Technology
	Matrix Algebra for Engineers	Coursera - The Hongkong University of Science and Technology
<b>Prof. Kunal Shukla</b>	Structural Dynamics for Civil Engineering-SDOF	NPTEL
	Mechanics of Material IV- Deflection, buckling combined loading and failure theories	Coursera - Georgia Institute of Technology
<b>Prof. Aditya Chaturvedi</b>	Mechanics of Material IV- Deflection, buckling combined loading and failure theories	Coursera - Georgia Institute of Technology
<b>Prof. Chirag Asodariya</b>	Mechanics of Material IV- Deflection, buckling combined loading and failure theories	Coursera - Georgia Institute of Technology

## Publications

Year	Papers in Journals	Papers in Conferences
<b>2019-20</b>	20	4



# COMPUTER ENGINEERING DEPARTMENT

The last few decades have seen exponential growth in the field of Artificial Intelligence (AI) and Big Data & Analytics. Artificial Intelligence is a sub-branch of Computer science. Whereas Big Data generation is inevitable due to vigorous growth in IoT and data generation which is facilitated due to advances in technology. Technically, it is the science that helps develop computer machines that mimic human intelligence. Thus, these machines will be able to visually perceive things, recognise and differentiate speech, make decisions, translate between languages and so much more.

The Department of Computer Engineering – AI - Big Data & Analytics at Marwadi University focuses on;

- To give a brief of Artificial Intelligence (AI) and Big Data Analytics concepts and approaches.
- Build up a basic understanding of the building blocks of AI as presented in terms of intelligent agents, Search, Knowledge representation, inference, logic, and learning.
- Learn Classification Algorithms, Neural Networks, Image Processing, Deep Learning, NLP Models and to learn Integration and simulation of Big data.
- Enable students to be creative in addressing and solving scientific and technological problems through research in Artificial Intelligence with Big data as data sources making it a real-time experiment.

## Research Projects Initiated

Year	Faculty Name	Project Title	Funding Agency	Total Amount Received
2019	Dr Dinesh Kumar	Wearable ECG monitoring system	Under the Scheme of DST-Newgen	2,00,000
2019	Dr Shobhit Patel	Graphene meta surface-based biosensor devices	AISTDF-SERB, DST	17,46,000

## Faculty Participation

Faculty Name	Title	Date
Prof. Kausha Masani	16th IEEE India Council International Conference INDICON 2019 Workshop on Machine Learning	13/12/19
Dr Madhu Shukla	STTP On Assessment and Evaluation under Outcome-Based Education	10 <sup>th</sup> – 14 <sup>th</sup> June 2019
	One day Workshop on R'	09/11/19
Dr Dinesh Kumar	Artificial Intelligence and Deep learning	04 <sup>th</sup> – 08 <sup>th</sup> May 2020
	Data Analytics	27 <sup>th</sup> – 31 <sup>st</sup> May 2020

## Student Activity Participation

Technical		Non-Technical		
Club Activities	Oracle	49	Cultural	9
	CISCO	49	Sports	14

## Subject Implementation with Industry Collaboration

Semester	Subject	Company
3 <sup>rd</sup>	Python	CODETANTRA
2 <sup>nd</sup>	C Programming Language	
3 <sup>rd</sup>	Data Management System	ORACLE
4 <sup>th</sup>	Computer Networks	CISCO
5 <sup>th</sup>	Cyber Security	CISCO
5 <sup>th</sup>	Cloud Computing Services	AWS Educate & Google GCP
5 <sup>th</sup>	Advanced Java Programming	ORACLE



## Workshops & training organised at the Department

Date	Title - Expert Talk / Seminar / Training	Expert Faculty Name
12/09/19	4 Day Expert Talk on wearable IoT devices and Engineering entrepreneurship	Dr. Kunal Mankodia - Director, Wearable Biosensing Lab and Assistant Professor - Department of Electrical, Computer & Biomedical Engineering at University of Rhode Island, USA
04/09/19	1 Day Workshop on Python	Prof. Tushar Gadhiya
19/12/19	Workshop on Python and Visualisation of Data	Prof. Santosh Chapaneri, Assistant Professor at St. Francis Institute of Technology, Mumbai
14/05/2020	2 Days Workshop on Familiarising with Google Colab and Jupyter Notebook and Machine Learning Concepts	Prof. Santosh Chapaneri, Assistant Professor at St. Francis Institute of Technology, Mumbai
11/06/2020	3 Days Workshop on Scikit-learn API, Logistic Regression (LogReg), K-Nearest Neighbours (KNN), Support Vector Machines (SVM), Principal Component Analysis (PCA), K-means Clustering	Prof. Santosh Chapaneri, Assistant Professor at St. Francis Institute of Technology, Mumbai





# COMPUTER ENGINEERING DEPARTMENT

The Computer Engineering department focuses on engaging students in learning with curriculum integration across activities and subjects. It emphasizes critical and creative thinking as the most important part of the learning process while expanding the limits of knowledge and abilities of each of the students. It also ensures both academic and social-emotional growth and success. Faculty member collaborates in reviewing teaching practices and examining student learning and growth. It is this deliberate, collegial work that allows the department to touch the base of all students.

## Faculty Participation

Courses/Training	No. of Faculties
<b>Workshops attended</b>	19
<b>Faculty Development Programmes</b>	14
<b>STTPs</b>	6
<b>Industrial Training</b>	2

## Publications

Year	Papers in Journals	Papers in Conferences	Publication in Book Chapters
<b>2018-19</b>	11	9	1
<b>2019-20</b>	4	15	3

## Student Participation: CISCO Club Academy

The Department believes that the Internet and education are the great equalisers of the next century, and the lack of Internet-supported education and shortage of technology-savvy workers pose global dilemmas. India, in particular, can make a quantum developmental leap by embracing information technology and making a commitment to match technological advancement with an investment in human skills. The Cisco Networking Academy Initiative by Marwadi Education Foundation is a timely response to these challenges. A highly successful alliance between Cisco, education, business, government, and communities, it is attempting to address the deficit of networking professionals required today.

Cisco Networking Academy at Marwadi University Campus provides CCNA courses to help students succeed based on their backgrounds, interests, and objectives. These networking courses are designed to prepare students for career opportunities, continuing education, and globally-recognised certifications. Cisco Certified Network Associate (CCNA) validates the ability to install, configure, operate, and troubleshoot medium-size route and switched networks, including implementation and verification of connections to remote sites in a WAN. CCNA curriculum includes basic mitigation of security threats, introduction to wireless networking concepts and terminology, and performance-based skills. This new curriculum also includes (but is not limited to) the use of these protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2), VLANs, Ethernet, access control lists (ACLs).

## Oracle Club Academy

Oracle Club, is a technical club facilitated by faculty members of the Computer Engineering and Information Technology Departments. The sole purpose is to prepare students for certification exams which enables them the most important benefit of earning an Oracle Professional Certification - knowledge.

Marwadi University has entered into an agreement with Oracle Academy, to cater & equip students with the benefits of having knowledge about Industry practices. To enhance this value addition, a course has been added to the curriculum. It engages students to analyze complex business

scenarios and create a data model - a conceptual representation of an organisation's information. Participants implement their database design by creating a physical database using SQL. Basic SQL syntax and the rules for constructing valid SQL statements are reviewed. This course culminates with a project that challenges students to design, implement, and demonstrate a database solution for a business or organisation. Marwadi University has considered this activity as a part of Term work/ Mid-Sem. component for the subject Database Management System. As a part of this course, each student completed 2 Mid-term Exams and 2 Final Exams followed by a Quiz of each section.

307 students from the 3rd semester of Computer Engineering & Information Technology departments were certified by Oracle Academy on 7th November 2019. Ms Suji Gopalan, Country Manager – Oracle Academy has been the resource person.

## Skill Development & Training

Marwadi University has constituted a working group on Skill Development and Training to suggest suitable strategies and mechanisms to meet future challenges. It has established & developed dedicated department which works upon skill development & training for its students, thus increasing employability opportunities & its chances. In addition to a good technical understanding and knowledge of the subject, employers often look for a set of skills that they want from an employee. These skills or skill set as they are called are like Team working, Problem solving, Self-management, Knowledge of the business, Literacy, and numeracy relevant to the position, ICT knowledge, Good interpersonal and communication skills.

Academic Year	Course	Participation in Internship Programmes
<b>2019-20</b>	Computer Engineering	148

In addition to academics which have always been a focal area, students are also trained & groomed in all industry demanding soft skills courses along with their regular subjects. They are encouraged & motivated to participate in various coding competitions and Hackathons to solve real-world problems. Technical workshops are arranged and industry experts are called for enhancing their skills. Moreover, University has entered into an understanding with Coursera, an open online course provider offering courses and certifications in a variety of subjects for learning new skill sets. University encourages and provides opportunities to students for participating in cultural activities such as Dancing, Singing, Acting, Dramas, and NSS activities. MU Fest an annual fiesta of technical, non-technical, and Fun events is organised by the University to have fun and create memories among students.

Event	Participation
<b>Sports Activities</b>	37
<b>Cultural Activities</b>	75



# INFORMATION TECHNOLOGY

Information Technology department focuses on developing professionals with high technical skills, exposing students to the latest IT trends and practices. The curriculum is designed to provide students with both theoretical knowledge and technical skills.

## Research Publications

Year	Papers in Journals	Papers in Conferences
2018-19	6	1
2019-20	2	3

## FDPs/STTPs/Workshops: Faculty Participation.

Faculty Name	Programme Title	Duration
<b>Prof. Tarannum Bloch</b>	One day International webinar on Blockchain Network for IoT applications by Ayya Nadar Janki Amal College, Tamilnadu	04/06/2020
	4 days online course "Examination Reforms" by AICTE	15 – 18 April 2020
	Hands-on workshop on Robotic Process Automation conducted by Bennet University	04 – 08 May 2020
	A Webinar on Multivariate Analysis by Dr.Rajasekharan Pillai - Manipal Institute of Higher Education Karnataka	
	One day Python workshop conducted by IIT Bombay	22/06/19
	Tutorial on "Edge Intelligence in the Internet of Things" 16th IEEE India Council International Conference INDICON 2019.	13/12/19
<b>Prof. Supreet Kaur</b>	FDP on "Synergy to Revitalise, Reform, and Refresh Ourselves as Agents to Ensure Quality Education	01 – 07 June 2020
<b>Prof. Mitesh Patel</b>	Tutorial on "Edge Intelligence in the Internet of Things" 16th IEEE India Council International Conference INDICON 2019	13/12/19
	ICT Mode (Online) Short Term Training Programme on "Assessment and Evaluation under Outcome Based Education (ICT04) organised by NITTTR, Kolkata	10 – 14 June 2019
<b>Prof. Samir Kariya</b>	Faculty Development Training by Industry, InfoStretch Corporation (I) Pvt Ltd, Ahmedabad	03 – 07 June 2019
	FDP Level 2	24 – 25 January 2020
	Hands-on workshop on Robotic Process Automation conducted by Bennet University	04 – 08 May 2020
	One day Python workshop conducted by IIT Bombay	22/06/19
	A Webinar on Outcome Based Education Road-Map to E-Learning & Accreditation by Dr N J Rao Former Chairman - Department of Management Studies at IISc, Bangalore	29/05/2020
<b>Prof. Riddhi Kotak</b>	Five Days Hands-on FDP Data Science-Jeppiaar Institute of Technology, Chennai	18 – 22 May 2020
	PyCode: Hands-on Python Programming	14 – 15 May 2020
	FDP on Data Science	20 – 24 April 2020
<b>Prof. Kirtirajsinh Zala</b>	4 days online course "Examination Reforms" by AICTE	15 – 18 April 2020
	Architecting with Google Compute Engine by Google under Google Cloud Readiness Programme	2 Months
	Preparing for the Google Cloud Associate Cloud Engineer Exam	7 Weeks
<b>Prof. Ankita Chavda</b>	Workshop "Deep Learning Applications Design, Development, and Deployment in IoT Edge", 16th IEEE India council international conference INDICON 2019.	13/12/19
<b>Prof. Pratiti Mankodi</b>	4 days online course "Examination Reforms" by AICTE	15 – 18 April 2020
<b>Prof. Forum Chovatiya</b>	FDP Level 2	29 – 30 November 2019
	Python Workshop, organised by ICT at IIT Bombay	22/06/2019
	Workshop - Blockchain and Cryptocurrency, 16 IEEE India council international conference INDICON 2019	13 – 15 December 2019

## Student Participation

Participation in Department Clubs	Industry Readiness Training by MU & CoCubes	Industry Internships	Co-Curricular Activities	
102	102	77	34	12

## Workshops Organised at the Department

- A workshop on IoT with AWS Cloud Services was organised at the Department on 26th July 2019. The workshop was conducted by Mr. Rajnikant Joshi, Co-Founder 9Series Solutions Pvt. Ltd, Ahmedabad which witnessed 60 participants.

## Entrepreneurial Sprint on AI & Internet-of-Things

Countries on the globe move forward to become a leader in the fastest-growing field of Artificial Intelligence (AI). The workshop focused on how new start-ups are rapidly emerging to solve problems and challenges using AI for areas including healthcare, agriculture, transportation, retail, manufacturing, and many more. It also aimed at developing team building, skill-building, speed storming, design thinking, prototyping, pitching, and business plans.

The workshop was delivered on August 12th-15th, 2019 by Prof. Kunal Mankodiya - the Director of Wearable Biosensing Lab and is an Associate Professor in the Dept. of Electrical, Computer, and Biomedical Engineering, University of Rhode Island.



## Workshop on Python with Machine Learning



The Department of Computer Engineering, Information Technology & AI and Big Data organised a workshop on Python with Machine Learning for the students of 3rd, 5th & 7th semester with a participation of 161 students. The workshop was conducted by Prof. Santosh Chapaneri, Assistant Professor at St. Francis Institute of Technology, Mumbai. Prof. Chapaneri brought in a rich and varied experience combining of academia and industry exposure of Patni Computers Ltd. and Microsoft Corporation, Seattle, USA.



# DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY

The department focuses on preparing students to develop cutting-edge technology in the field of information and communication. It develops a collaborative environment for multidisciplinary project-based learning practices and a student-centric environment that increases opportunities for hands-on, experiential learning and that cultivates interdisciplinary skills, such as leadership, business acumen, and social consciousness.

## Faculty Recognition

Prof. Kishankumar Bhimani was awarded the Open-Door Scholarship by Global Universities Association, Russia in April 2020.

## Publications

Prof. Kishan Bhimani, Face recognition from video using Deep Learning, IEEE – 5th International Conference on Communications and Electronics System, July 2020.

Prof. Kishan Bhimani, Pattern recognition through digital image processing for unmanned aerial vehicles, IEEE XXVI International conference on Electronics, Electrical Engineering and Computing, October 2019.

Prof. Kishan Bhimani, Control of wheeled mobile robot using centroid algorithm, IEEE Innovations in Power and Advanced Computing Technologies, January 2020.

Prof. Dharmendrasinh Zala, 'Comparative Analysis of RED Queue Variants for Data Traffic Reduction over Wireless Network, Power Control, & Communication Infrastructure 2019' – IITRAM Ahmedabad.

Prof. Dharmendrasinh Zala, Review on challenges and expected solutions for green communication, National conference on advances in power generation from renewable energy sources, Banswara Rajasthan.

## Guest Lectures

- Experiential sharing session by Mr. Bhanu Sharda, BE IT, MBA, Manager – Ministry of Health, Singapore.
- A talk by Mr. Kaushal Udani, Senior Software Developer, KPIT Pune.
- Talk on Journey of Engineering and Professional carrier by Mr. Path Vora, Data Analyst, FMCG Mumbai.
- A workshop on Web Design by Mr. Tapan Bavaliya, Improvised Technology, Rajkot.
- Talk on technical advancements in wireless technology by Mr. Sanjay Chavda, Nokia Solutions, USA.
- Experiential sharing session by Mr. Malay Pachani, Senior Engineering, Customer Storage Solution, Sandisk – Western Digital India.
- A talk on Skills and work Ethics in IT Industry by Mr. Pratik Patel, Director of Yudz.

## Field Visits

- Industrial visit to INS Valsura.
- Village visit to Raj Samadhiyala.

## Glimpses of Cultural Events & Sports Events





## FDPs/STTPs/Workshops: Faculty Participation

Faculty Name	Programme Title	Duration
Prof. Sunera G. Kargathara	National level seminar on 5G wireless Technology, Nirma University.	14 – 15 February 2020
	Workshop on ARDUINO, IIT Bombay	08/02/2020.
	Workshop on Deep Learning Applications Design, Development, and Deployment in IoT Edge, IEEE INDICON 2019.	13/12/2019
Prof. Hiren Raithatha	Workshop on Deep Learning Applications Design, Development, and Deployment in IoT Edge, IEEE INDICON 2019.	13/12/2019
	Workshop on Google Android Development, IIT Bombay	03 – 05 January 2020
	Faculty Development programme, MU.	18 – 19 October 2019
Prof. Krupal Vasani	Workshop on Deep Learning Applications Design, Development, and Deployment in IoT Edge, IEEE INDICON 2019.	13/12/2019
	Workshop on Google Android Development, IIT Bombay	03 – 05 January 2020
	Faculty Development programme, MU.	18 – 19 October 2019
Prof. KishanKumar Bhimani	Workshop on Webinar series of Satellite Communication and Automation, Virtual Venue by IEEE Bangalore and GSSSIETW	11 to 13 May 2020
	Workshop on Deep Learning Applications Design, Development, and Deployment in IoT Edge, IEEE INDICON 2019.	13/12/2019
	Latest Trends and Challenges in IT Industry, Virtual venue by RMD Engineering College.	15 – 20 June 2020
	FDP on Python Programming, KLH University.	15 – 18 July 2020
	Workshop on ARDUINO, IIT Bombay	08/02/2020.
Prof. Harshul Yagnik	Webinar Series on Research Methodology, Sakalchand Patel University.	01 – 04 May 2020
	Lecture Series on Design Solar System for Home, Energy Swaraj Foundation, IIT Bombay	04 – 07 May 2020
	Webinar on How to publish Scholarly Books and Journals, Taylor & Francis India	25/06/2020.
Prof. Mehul Kantaria	Workshop on eSim, a First Course in the IoT Series for Teachers, Teaching Learning Centre ICT at IIT Bombay	21/09/19
	Workshop on ARDUINO, IIT Bombay	18/01/2020
	Deep Learning Applications Design, Development, and Deployment In IoT Edge, MU	13/12/19
	Workshop on Python, MU	22/06/19

## Technical Events Organised at the Department

- Certification course on Energy Literacy by Energy Swaraj Foundation was held by the Department on 21st June 2020 which witnessed participation of 125 students.
- Introduction of Operating System a certification course was conducted at the Department from 12th to 21st December 2019. 43 students participated in the programme.

## Workshop Organised

A workshop on Skill Enrichment for the students of Sem. 4 of the department was organised on 11th to 16th November 2019. The workshop intended to orient students on circuit designing from a nutshell, PCB artwork and fabrication, design & printing 3-D model, and logo designing using a laser cutter.

## Student Participation

Sports Activities	Co-Curricular Activities	Club Activities
13	31	30

## Faculty participation in Conferences

Faculty Name	Programme Name
<b>Prof. Vishal Sorathiya</b>	APSURSI, Atlanta USA.
<b>Prof. Shreyas Charola</b>	SPIE Photonics, San Francisco, California, USA.
	COSPAR - Nano Satellite Capacity Building Workshop, Tel Aviv University, Israel.
<b>Prof. Sunera Kargathara</b>	National Seminar on 5G wireless technology, Nirma University, Gandhinagar.

## Publications

Year	Papers in Journals	Book Publications	Patent Filed & Granted
<b>2018-19</b>	14	2	1
<b>2019-20</b>	16	3	2

# MECHANICAL ENGINEERING DEPARTMENT

The department focuses upon students through innovative learning processes with equivalent fully equipped labs with the latest machinery. Labs and workshops offer wide opportunities for practicing and learning the concepts of mechanical engineering through hands-on practice sessions.

## Workshops Organised

- Welding Technology, Dr. Dhanesh Mohan, Post-Doctoral Fellow, Shangdong University, China.
- Supply chain Management Procurement & Inventory, Mr. ShahankVora, Ambuja Cement Ltd.
- A career in software development for mechanical engineers, Mr. Jeet Trivedi, Altair, Canada.
- Transforming industry through digital transformation solutions like augmented reality & virtual reality, Mr. Nilkanth Raichura, Bluechip Info Corp Pvt. Ltd.
- Electroplating Basics & Business Scope.
- An emerging future with unprecedented fields of RE (Reverse engineering) and Real-time low-cost Automation.
- Industrial Designing and its applications, Mr. Kuldeep Sharma.
- "Understanding the effect of Incorrect Methods Design on Casting Quality by using AutoCAST-X1", Mr. Vaibhav Yadav.
- Basics of Material Science and Metallurgical Characterization.
- Career Opportunities in CAD and CAE Domain.
- Portfolio and Programme Management, Dr. Vijay Kanabar, Boston University, USA.
- Hands-on 3D Modeling using Fusion 360 & Printing technology, Prof. Prashant Ujeniya.
- Training on CNC Programming, Prof. Vivek Patel.

## Publications

Year	Papers in Journals	Papers in Conferences	Publication in Book Chapters
<b>2019-20</b>	9	3	4

## Field Visits

- Indian Railways, Carrier Repair – Bhavnagar.
- Pipavav Port, Rajula
- Coca Cola Plant, Kheda.
- Ravi Metal, Rajkot
- Wadhokar Group, Pune.

## Student Participation

Participation in Technical Activities	Cultural & Co-curricular Activities	Industry Readiness Training by MU & Co-cubes
<b>8</b>	54	24
		23

## Ongoing Research Projects

Faculty Name	Title of project	Approval Date
<b>Prof. Nildeepsinh Chudasama</b>	Automation of Material Handling for Packaging	12/8/2019
<b>Prof. Malay Badodariya</b>	Fastfood Vending Machine	12/8/2019
<b>Prof. Karan H. Motwani</b>	Energy Efficient Pressure Cooker	12/8/2019
<b>Dr. Ramesh Bhoraniya</b>	Effect of oblique non-uniform suction and injection on the global stability of the flat plate boundary layer	15/03/2020

## Consultancy Projects Initiated

No. of Projects	Value of the Project.
<b>4</b>	10,330,000

## Faculty Participation

Workshops & Seminars	STTPs & FDPs
<b>21</b>	<b>47</b>

## Achievements

- Prof. Amit Sata & Prof. Mahek Rathod has been awarded a research fund of ₹ 1,50,000/- for the development of an “IoT enabled testing laboratory”.
- During the ASME E-Fest 2020, the student team from the Mechanical engineering department secured 1st rank in Endurance Test and achieved 3rd rank in overall performance.
- The department achieved 1st rank in the “IAM3D Event” during ASME E-Fest 2020. The team has been awarded a prize of \$250 along with a trophy.

# CHEMICAL ENGINEERING DEPARTMENT

The department demonstrates sustained learning and adapts to the constantly demanding industrial requirements and technologies through higher studies, professional development, and self-study. During the academic year, students actively participated in Smart City Hackathon 2020, Smart Gujarat for New India Hackathon 2020, Tech Fests along with regular academic activities. Faculties at the department actively participated in different training programmes to enhance teaching skills. Webinars were organised with participation from Industrialists and renowned academicians to sharpen the knowledge base of students.

## Talks/Webinars Organised

- Cultivating Entrepreneurial Skills, Mr. Vishal Sarvaiya, Founder Shree Vam Industries, Rajkot. Students were introduced to various entrepreneurial skills and approaches to be followed for start-ups.
- General Outlook on Petrochemical Industries, Mr. Prasanta Giri, Deputy General Manager – Reliance Industries Ltd. Jamnagar. Students were oriented with details on various process flow diagrams involved in the production of petrochemicals. Usage of various catalysts and their role significance were also highlighted.
- Four Pillars and India's Energy, Mr. Vijay Surya J, Sr. Plant Manager – Indian Oil Corporation, Rajkot.
- Bio-CNG – Fuel for Future, Mr. Sameer Rege, Director – Mailhem Group, Pune.
- How to start an Academic Project, Prof. Abhishek Gupta & Prof. Ritesh Palkar, Professors – Marwadi University, Rajkot. Talk oriented students with the academic project and systematic way to conduct academic research.
- Process Intensification in Chemical Industries, Prof. Manish Khodwe & Prof. Ritesh Palkar, Professors – Marwadi University, Rajkot.
- Demonstration to Endnote Software, Prof. Deepak Tiwari and Prof. Meenakshi Nandal, Assistant Professors – Marwadi University, Rajkot.
- Bio-Fuels: Pros & Cons, Prof. Sowbarnika Rajamohan, Assistant Professor – Marwadi University, Rajkot.
- Overview of Environmental Pollution, Prof. Jitesh Joshi, Assistant Professor – Marwadi University, Rajkot.
- Nanotechnology and its Application in Corrosion Inhibition, Dr. Uday Bagale, Sr. Research Scientist – Department of Food and Biotechnology, South Ural State University, Chelyabinsk, Russia.
- The numerical ability for GATE, Prof. Hiren Bhatt & Prof. Nirav Raykundaliya, Assistant Professors – Marwadi University, Rajkot.
- Working with GC & HPLC in Chemical Industries, Prof. Manish Khodwe & Prof. Ritesh Palkar, Professors – Marwadi University, Rajkot.
- Impact of E-waste recycling on soil & groundwater, Prof. Divya Tirva, Assistant Professor – Marwadi University, Rajkot.
- Skilled Based Approach for Engineering Graduates, Mr. Shyam Pitkar, Project Leader – Tetra Pak India Ltd.
- Basics of Heat Transfer Operation, Prof. Satish Movaliya, Assistant Professor – Marwadi University, Rajkot.
- Insights into where Chemical Engineering is now and where it's going, Prof. Sowbarnika Rajamohan, Assistant Professor – Marwadi University, Rajkot.
- Language & Career, Prof. J. Vijayalakshmi, Assistant Professor – Marwadi University, Rajkot.
- Strategic Planning for Higher Studies Abroad, Mr. Vishal Chovatiya, MS – Germany.

## Student Participation

- Smart City Gujarat Hackathon – 2020, Rajkot: Department of Higher Education, Government of Gujarat organised Smart City Hackathon 2020, Rajkot on January 23rd & 24th, 2020. Challenges with problem statements were opened up with the students for creative solutions. Students of 3rd Year B. Tech under the mentorship of Prof. Ritesh Palkar presented their ideas for wastewater treatment with the combined approach of Rajkot Municipal Corporation which can be implemented for civic ease.
- Participation of students in Smart Gujarat for New India Hackathon 2020.
- Mr. Sumit Talsania and Mr. Divyesh Badiyadra, students of the department from the 8th & 6th semester participated in the Kabbadi Tournament - West Zone, at the University of Kota from 18th to 22nd November 2019.
- Ms. Maryam Al Hakeem, M. Tech student from the Department exhibited her paintings at the 3rd Annual Art Exhibition 2020 organised by Rajkot Art Society from 19th to 22nd January 2020.

## Faculty Participation in Training

Faculty Name	Programme Name
Prof. Ritesh Palkar	NOC-Chemical Process Intensification, NPTEL
	IUCEE - Phase II.
	Ultrasound Contrast Agents- Application of Gas-Filled Microbubbles in Biomedical Engineering, IIT Gandhinagar.
	IUCEE- Phase III.
	Environment & Sustainability (OE4BW), D Y Patil College of Engineering, Akurdi, Pune.
	Comprehensive Disaster Risk Management Framework, National Institute of Disaster Management.
	Industry 4.0. Data Analytics & Disruptive Technologies, ATS's Sanjay Bhokare Group of Institutes, Miraj, Association with Dr. Babasaheb Ambedkar Technological University, Lonere.
	Organic Solar Cells - Theory and Practice, DTU
Prof. Deepak Tiwari	Induction Training Programme (IP-7), NITTTR Bhopal.
	STTP on "Assessment and Evaluation under Outcome Based Education (ICT04)"
Prof. Sowbarnika. R	IUCEE- Phase II
	FDP-level II
	STTP on "Assessment and Evaluation under Outcome Based Education (ICT04)"
	IUCEE- Phase II

## Field Visits Organised

- Vraj Cattle Feed, Rajkot.
- Hindustan Coca Cola Beverages, Ahmedabad.



## Webinars/Talks organised at the Department.

- Application of GIS in Environmental Engineering, Prof. Hitesh Rathod, CEPT University.
- Environmental Management in Universities: Assessment, Mitigation, and Compensation of Emissions, Prof. Mr Sami El Geneidy, Professor - University of Jyväskylä
- Skill-based approach for Engineering Graduates: Mr Shyam Pitkar, Tetra Pak India.
- Methods in Microbiology, Prof. Sumit Jaiswal & Prof. Prinsa Siddhapura.
- Clean Environment Technologies, Prof. Varun Agarwal.
- Waste Minimisation & Resource Recovery, Prof. Archana Sharma & Prof. Abhishek Gupta.
- Sustainable wastewater treatment systems; A pandemic warrior, Prof. Nitin Kumar Singh.
- Application of Bioremediation in wastewater treatment, Prof. Varun Agarwal.
- Water and wastewater management in the event of COVID-19 pandemic challenge, Prof. Debleena Bhattacharya.

## Training & Workshops Organised

- Environmental challenge & its sustainable management.

A national-level short term training programme was organised at the University from 23rd to 27th September 2019. Training programme focused upon covering current environmental issues and their sustainable solution. Varied speakers from industries like Ambuja Cements Ltd, Nirma Ltd, Nayara Energy, etc. along with subject experts from academia delivered a talk on various issues and probable solutions that are being practiced in industries. The programme also focused on preparing and what are the expectations from the industry-ready workforce in near future.

- Monitoring and Assessment of Environmental Parameters

The hands-on training was organised from 19th to 21st December 2019 to impart technical knowledge and training on different methods used for monitoring and assessment of various environmental parameters. Prof. Susmita Sharma, Assistant Professor, NIT Meghalaya, along with Prof. Nitin Kumar Singh, Prof. Pankaj Pathak, and Prof. Abhishek Gupta, Marwadi University delivered their insights during this training programme. Students gained practical knowledge in the areas of analysis of various water and wastewater parameters, ambient and stack monitoring & analysis, and soil analysis.

## Student Participation

Workshops / STTPs	Field Visits	National Co-curricular Events
18	29	8

## Faculty Achievements

- Prof. Nitin Kumar Singh, Assistant Professor – Environmental Science & Engineering Department was awarded the Best Idea Award for “IDEAthon 2020” by Atal Incubation Centre organised at Gujarat Technological University.
- Workshop funding support awarded to Prof. Nitin Kumar Singh, Assistant Professor – Environmental Science & Engineering by the Ministry of Science & Technology and National Cheng Kung University, Taiwan.

## Faculty Participation in Training

Name of Faculty	Name/Type of Event
<b>Prof. Nitin Kumar Singh</b>	Workshop on “Promoting Sustainable Protection and Restoration of Soil, Groundwater and Water Environment”, National Cheng Kung University.
<b>Prof. Debleena Bhattacharya</b>	A brainstorming workshop on E-Waste Management in India, CSIR-NEERI, Nagpur.
<b>Prof. Abhishek Gupta</b>	Water challenges during and post COVID 19, ICCW, IIT Madras. Indo-China Research Webinar Series in Civil and Environmental Engineering, Shantou University, China Basics of SAR Remote sensing, IIRS, ISRO, Dehradun.

## Publications

Year	Papers in Journals	Papers in Conferences	Book Publications	Publication in Book Chapters
<b>2018-19</b>	10	13	0	0
<b>2019-20</b>	10	15	1	4

## Consultancy Projects Initiated

No. of Projects	Project Value
<b>2</b>	5,50,000

# ELECTRICAL ENGINEERING DEPARTMENT

The Department aims to prepare graduates as per industrial and societal needs. Graduates of the department are prepared to work with the latest technology and modern computer tools. Department is equipped with highly qualified, committed, and self-motivated teachers who nurture young and enthusiastic students as a guide and mentor. Laboratories are also equipped with the latest equipment which is in line with current industry trends.

## Training & Workshops Organised

### Title / Topic

- \* DSP based control of Power Electronic Converters, Prof. Tapankumar Trivedi, Professor - Marwadi University.
- \* Webinar on Realm of Transformer, Mr. Dhruvesh Mehta, Assistant Manager - Transformers & Rectifiers (India) Ltd.
- \* How to prepare a good engineering presentation, Prof. Mrudurajsinh Chudasama, Assistant Professor - Marwadi University.
- \* Webinar on Strategic Planning for International Study Programme and Career Opportunities, Mr. Ashish Shah, Junior Electrical Engineer - PNR Railworks Inc. Ontario, Canada.
- \* Introduction to PLC, Prof. Atul Kunpara, Assistant Professor - Marwadi University.
- \* Robotics and Industry 4.0, Mr. Kashyap Ramaiya, Robotics & IoT Engineer - Mascot Robotics & Automation, Ahmedabad.
- \* Introduction to Lighting Design using DIALux & Hands-on Practice on Software, Mr. Tapan Patel, Design Engineering - INI Infrastructure & Engineering, Ahmedabad.
- \* Campus to Corporate and Beyond, Mr. Purav Bhatt, Siemens Ltd.

## STTP Organised at Department

A Short-Term Training Programme on "Future of Electric Mobility in India" a step towards supporting the national interest of caring environment by adopting electric mobility for transportation was organised by Electrical Engineering Department on 17th to 21st June 2019, sponsored by Gujarat Council on Science and Technology, Govt. of Gujarat. The training programme aimed at orienting scenario of electric vehicle adaptation, steps adopted by the country for faster adaptation and encourage EV manufacturers & entrepreneurs. It also focused upon challenges & its solutions faced by EV Industries, future demand, and scope of employment, and research trends in the sector of electric & hybrid vehicles.



## Field Visits Organised

- Ashok Generator
- Golden Non-conventional Energy System, Jamnagar.
- Kakrapar Atomic Power Station
- Om Electrical, Ahmedabad, Moti Cher, Gujarat.
- Rekto Electrical, Rajkot
- Ultracab India Ltd., Rajkot
- Gujarat Solar Park, Charanaka, Gujarat.

## Student Achievement

- Best paper award in Power Generation, Transmission and Distribution Track, titled Neural Network Approach to Short and Long Term Load Forecast using Weather Conditions was awarded to Mr. Arbogast Nyandwi, a post-graduate student at the department which was jointly published by Prof. Dinesh Kumar, Professor – Electrical Engineering Department at International Conference on Electrical and Electronics Engineering at the Madan Mohan Malaviya University of Technology, Gorakhpur UP.

## Student Participation

Sports Activities	Cultural Activities	Club Activities
11	18	66

## Faculty Achievements

- Best paper award in Power System Protection-Fault Detection Track titled A Faulty Section Identification Scheme in Thyristor Controlled Series Compensated Transmission Lines using Superimposed Currents was awarded to Prof. Nishant Kothari, Professor – Electrical Engineering Department at 8th International Conference on Power Systems (ICPS) 2019 at Malaviya National Institute of Technology, Jaipur.
- Announcement for successful completion of Doctoral Studies from Electrical Engineering Department;
  - Prof. Amit Ved
  - Prof. Tapan Trivedi
  - Prof. Krishna Patel

## Faculty Participation in Training

Name	Title of Programme
Prof. Darshana Kunal Valani	Matlab Based Teaching Learning in Mathematics, Science and Engineering, Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul.
	National Level Five-day Faculty Development Programme on Latex, Department of Humanities and Sciences, CMR Engineering College.
	Mathematical Modelling in Multidisciplinary domain, Bannari Amman Institute of Technology.
Prof. Nirav Tolia	Future of Electric Mobility in India, Marwadi University.
	Matlab based teaching-learning in Mathematics, Science & Engineering, D Y Patil University, Pune.
Prof. Pavak Mistry	Introduction to the Internet of Things and Embedded Systems, Coursera.
Prof. Dhirajkumar Shrimali	Future of Electric Mobility in India, Marwadi University.
Prof. Atul Kunpara	Future of Electric Mobility in India, Marwadi University.
Dr. Amit Ved	Artificial Intelligence, Vardhaman College of Engineering in collaboration with Brain O Vision Solutions India Pvt. Ltd.
Prof. Uvesh Sipai	Future of Electric Mobility in India, Marwadi University.
	IUCEE International Engineering Educator Certification Programme, IUCEE.

## Faculty Participation in Conference/Seminar/Webinar

National Conferences	Seminars	Workshop
4	11	7

## Publications

Year	Papers in Journals	Papers in Conferences	Book Publications	Publication in Book Chapters
2018-19	3	-	1	-
2019-20	6	4	-	2



# FACULTY OF SCIENCE

## DEPARTMENT OF CHEMISTRY

The Department of Chemistry provides a broad foundation in Chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective. Department focuses on preparing 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. Subject experts were invited to explore and share knowledge, celebrated various activity days, organised sports week with high enthusiasm. Researchers at the department are encouraged to explore and publish research papers in reputed and high impact factor journals.

### Talks Organised

- “Awareness of API and R&D”, Dr. Nilesh Jamariya, Research Scientist – R & D Intas Pharmaceutical, Ahmedabad.
- “Development of Sustainable Nanomaterials for Novel Multiple Applications”, Dr. Atindra D. Shukla, Associate Professor & Director, Shah-Schulman Center for Surface Science & Nanotechnology, Dharmsinh Desai University, Nadiad.
- “Organo Catalyzed name reaction and its application”, Dr. Naval Kapuriya Bhakta Kavi Narsinh Mehta University, Junagadh.
- “Nuclear Magnetic Resonance – Spectroscopy”, Dr. D. I. Brahmbhatt, Head & Professor of Organic Chemistry, Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar.
- “Selection of Research Theme”, Dr. Vishal Mayani, Professor, Department of Chemistry, Marwadi University.
- “Research paper writing”, Dr. Suranjana Mayani, Professor, Department of Chemistry, Marwadi University.
- “Awareness of API and R&D”, Dr. Nilesh Jamariya, Research Scientist – R & D Intas Pharmaceutical, Ahmedabad.
- “Development of Sustainable Nanomaterials for Novel Multiple Applications”, Dr. Atindra D. Shukla, Associate Professor & Director, Shah-Schulman Center for Surface Science & Nanotechnology, Dharmsinh Desai University, Nadiad.
- “Organo Catalyzed name reaction and its application”, Dr. Naval Kapuriya Bhakta Kavi Narsinh Mehta University, Junagadh.
- “Nuclear Magnetic Resonance – Spectroscopy”, Dr. D. I. Brahmbhatt, Head & Professor of Organic Chemistry, Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar.
- “Selection of Research Theme”, Dr. Vishal Mayani, Professor, Department of Chemistry, Marwadi University.
- “Research paper writing”, Dr. Suranjana Mayani, Professor, Department of Chemistry, Marwadi University.

### Student Activities

**Fit India Movement-2019:** A nation-wide movement launched by Hon. Prime Minister of India Shri. Narendra Modi, to encourage people to remain healthy and fit by including physical activities and sports in their daily lives. The students and faculty members of the Department of Chemistry participated in physical and sports activities organised at the university campus on 29th August 2019. The department encourages and actively involves in such social awareness initiatives.

**Rajkot Marathon-2019:** Participation of students Mr. Ayan, Mr. Ramesh, and Mr. Bhargav in Rajkot Marathon, organised by Rotary Club Midtown in support of Rajkot Municipal Corporation on 29th December 2019.

**Sports Week Celebration-2020:** The Faculty of Science and Faculty of Pharmacy organised Sports Week from 17th to 20th February 2020 which witnessed the participation of 600 students. Sports events such as Cricket, Volleyball, Kabbadi, Kho-Kho, and Tug of War were organised. Active participation of students was witnessed from the Faculty of Science & Faculty of Pharmacy.

**Christmas Day Celebration:** The Department designs & balances with academic curriculum along with co-curricular activities so that every student gets to learn beyond subjects. The activities are aimed to bring social skills, intellectual skills, moral values, personality progress, and character appeal to students. Events like Dare-Box, Quiz, Drama were organised on the eve of Christmas Day which witnessed student participation with joy and enthusiasm and the winners were felicitated.

**Teachers Day Celebration:** Teachers Day, celebrated to acknowledge the challenges, hardships, and special role that teachers play in our lives. The day is celebrated with appreciation to teachers and honoring them for their special contributions to the communities. Competitions such as elocution, games, dramas, song performances, and quiz sessions were organised and were celebrated with high fervor.

**English Day Celebration:** To promote the English language as a medium of communication on the campus, English Day is celebrated every month at the Departments of Marwadi University. Faculty members prepare themselves for active learning and other methods to involve students to improve their English language.



## Student Achievements

- During the Academic Year, Ms. Krishna Muliyaishiya, a UG student from the department, participated in singing at various regional & national competitions of repute.
- Ms. Aditi Singh, a student from sem. 6 of Department of Chemistry, participated in India Public Speaking Contest-2020 and was awarded 3rd runner-up in the regional round.
- Mr. Riddham Hadavani, Mr. Zill Dobariya & Ms. Aditi Singh participated in GNU SciTech Fest-2019 organised by Ganpat University on the occasion of National Science Day.
- Mr. Abhay Ram, Mr. Sagar Dalsania, and Mr. Prince Parmar participated in the 11th National Level Science Symposium 2019 organised by Christ College in association with Gujarat Council of Science and Technology, Gandhinagar.

## Field Visits Organised

- Central Salt & Marine Chemical Research Institute (CSMCRI), Bhavnagar. The visit helped students to understand the real research work and gave exposure to the sophisticated scientific instruments and research laboratory.
- Sterlife Biotech Pvt. Ltd, Ahmedabad. Visit provided an opportunity to see various proceedings in the pharmaceutical industry and also shared knowledge regarding the various steps of drug formulation.
- Indian Institute of Science Education and Research, Pune.

## Student Participation

Conferences	Industrial Internships
4	40

## Publications

Year	Papers in Journals	Papers in Conferences
2019-20	3	2

# DEPARTMENT OF PHYSICS

During the Academic Year 2019-20, various steps & academic activities such as inviting expert lectures, organising scientific events, industrial visits, seminars, and training were initiated to engage and enhance Teaching-Learning practices at the Department. Department also initiated collaborative research work in new and emerging research areas and the research findings were published in renowned publications nationally and internationally.

## Talks Organised

- “Sustainable development in space science”, Dr. Hari Om Vats, Founder & Director, Space Education, and Research Foundation and Ex-Scientist Physical Research Laboratory, Ahmedabad.
- “Sky Gazing”, Dr. Neelesh Rana, Science Centre, Rajkot.
- “A Seminar on De-Centralised Solar Power”, Prof. Rakesh Oza, Associate Professor.
- “Sensor and Photo-detector applications integrating plasmonics and 2D materials”, Prof. Rozalina Zakaria, Professor – University of Malaya, Malaysia.
- “Cryogenics”, Dr. D Venkateshwarlu, Dr. D S Kothari Fellow at Saurashtra University, Rajkot.
- “Statistical Mechanics and its applications in Biology”, Dr. Subrata Pal, Professor – Department of Chemistry, Marwadi University.
- “Impact of Lockdown on Climate”, Dr. Yogesh Jani, Professor – Department of Physics, Physics Department.
- “Research: Importance and Outcomes”, Dr. Prashant Ghediya, Professor – Department of Physics, Marwadi University.

## Field Visits

- Bhabha Atomic Research Centre, Mumbai.
- Sardar Patel Renewable Energy Research Institute, Vallabh Vidyanagar, Anand.
- Shah-Schulman Center for Surface Science and Nanotechnology, Dharmsinh Desai University, Nadiad.

## Student Achievements

- Mr. Raviraj Jadav, Ms. Priya Paneri, and Mr. Ritesh Joshi, students from the department were awarded 1st rank in the poster competition at the 12th National Science Symposium-2020 – Recent Trends in Science and Technology organised at Christ College, Rajkot.
- Ms. Heena Panjwani was awarded 1st rank in an oral presentation at the 12th National Science Symposium – 2020 on Recent Trends in Science and Technology, Christ College, Rajkot.
- Mr. Jaydeep Dholakiya, Mr. Harshik Dattani, Mr. Pranav Makadia were awarded 1st rank for a scientific working model at Science Manthan-2020 at Charotar University of Science and Technology, Changa.
- Ms. Drashti Bhangadiya, secured 2nd rank in Scitoons in Science Manthan-2020 at Charotar University of Science and Technology, Changa.
- Ms. Zalak Ajmera was awarded 3rd rank in Scitoons in Science Manthan-2020 at Charotar University of Science and Technology, Changa.
- Mr. Vatsal Pandya secured 1st rank in the Quiz competition at Young Science Conclave organised by R. K. University, Rajkot.

## Student Participation

Sports Activities	Cultural	Co-curricular	Career Readiness Programmes	English Proficiency Lectures
8	6	5	65	35

## Faculty Achievements

- Prof. Prashant Ghediya, Assistant Professor – Department of Physics, Marwadi University has been awarded the visiting Scientist Award by Indian National Science Academy, New Delhi.

## Publications

Year	Papers in Journals	Papers in Conferences	Book Publications	Publication in Book Chapters
2019-20	14	1	0	0

# DEPARTMENT OF MATHEMATICS

In this era of emerging technologies & advanced sciences, developed nations are focusing on applied research by using knowledge linkages between Scientists, Engineers, and Researchers. Mathematics & statistics form the backbone for knowledge development for Scientists and Engineers. The department focuses upon producing Scientists equipped with modern mathematics tools with a strong understanding of real-world and engineering problems.

## Workshops & Talks Organised

- **“Basics of MATLAB”**, Dr. Subhanshu Goyal, Professor–Department of Mathematics, Marwadi University. The workshop focused primarily on orient students familiar with the fundamentals and utility of “MATLAB” for solving complex numerical problems and interprets results.
- **“Introduction to LATEX”**, Dr. Jignesh Chauhan, Assistant Professor–Department of Mathematics, Marwadi University. The workshop was primarily organised to make the participants aware of the superiority of Latex software in writing scientific articles/research papers/ blogs compared to ordinary tools that are used for writing the materials in MS Word.
- **“Differential Equations & Dynamical Systems”**, a national level workshop was organised at Savitribai Phule Pune University, which was attended by Post Graduate students of the Department along with faculty members. The workshop provided insights and encouraged students to undertake research studies in the field of Differential Equations & Dynamical Systems. It also provided a chance for interaction with fellow participants from Higher Educational Institutes and to share knowledge.
- **“A Quest for the Infinity”**, Prof. Gautam Hathiwala, Assistant Professor–Department of Mathematics, Marwadi University.
- **“Biography of Zero”**, Prof. Gautam Hathiwala, Assistant Professor–Department of Mathematics, Marwadi University.

## Faculty Participation in Training

Faculty Name	Programme Title
<b>Prof. Subhanshu Goyal</b>	Introduction to Operations Research, IIT Madras.
<b>Prof. Minal Shukla</b>	FDP Level I & II, L&D Department, Marwadi University.
	MATLAB Workshop with Application in Linear Algebra, Bangalore Institute of Technology (BIT), Bangalore.
	Mathematical Sciences for CSIR-NET/SET/GATE, Shree Narayan Guru College, Coimbatore.
	Introduction to Abstract & Linear Algebra, NPTEL-AICTE
<b>Prof. Minakshi Hathiwala</b>	FDP Level I & II, L&D Department, Marwadi University.
	Differential Equations & Dynamical Systems, Savitribai Phule Pune University (SPPU), Pune, Maharashtra.
	Modern Algebra, NPTEL-AICTE.
	MATLAB based Teaching-Learning in Mathematics, Science & Engineering
<b>Prof. Gautam Hathiwala</b>	FDP Level I & II, L&D Department, Marwadi University.
	Differential Equations & Dynamical Systems, Savitribai Phule Pune University (SPPU), Pune, Maharashtra.
	Matrix Analysis with Applications, NPTEL-AICTE.
	MATLAB based Teaching-Learning in Mathematics, Science & Engineering.
<b>Prof. Jignesh Chauhan</b>	MATLAB based Teaching Learning in Mathematics, Science and Engineering, Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai.
	Geodesics on Unit Sphere: A differential geometry approach and solution of ODE, J. N. M. Patel Science College, Surat.
<b>Prof. Mahadityasinh Sarvaiya</b>	FDP Level I & II, L&D Department, Marwadi University.

## Study Tour Organised

- Vikram Sarabhai Science Community Centre, Ahmedabad.

A study tour to Vikram Sarabhai Science Community Centre was organised for Under Graduate & Post Graduate students of the Department on 11th January 2020. Tour gave an insight into various activities of Vikram Sarabhai Science Community Centre such as by explaining of working models, use of mathematics through several hands-on activities. It also had firsthand experience of various problems by applying techniques associated with various branches of mathematics such as Graph Theory, Topology, and Number Theory.



## Publications

Year	Papers in Journals	Papers in Conferences	Books	Chapters in Books
<b>2019-20</b>	1	1	1	1

## Student Achievements

- Ms. Priyanka Sanavda, a postgraduate student from the Department of Mathematics was awarded the “Innovation in Science Pursuit for Inspired Research (INSPIRE)” fellowship announced by the Department of Science and Technology, Govt. of India.
- Mr. Bhavin Joshi and Mr. Ranveer Bhutiya secured 2nd Rank in the poster competition at the 12th National Science Symposium-2020 – Recent Trends in Science and Technology organised at Christ College, Rajkot.
- Ms. Rajvi Pandya, an undergraduate student from the Department has been selected for the Mathematics Training and Talent Search (MTTS) programme.

# DEPARTMENT OF MICROBIOLOGY

The teaching-learning philosophy of the Department of Microbiology and Biotechnology at Marwadi University follows the exhaustive biological skill development of students and inculcates recent knowledge in the field of study. Department has established collaborative associations with research institutes and industries which help students to prosper in their professional career. The faculty members at the department have rich international doctoral and post-doctoral experience which is unique in the region.

## Talks Organised

- A talk on Intellectual Property Rights was arranged for the post-graduate students of the Department as an integral part of the curriculum on 5th November 2019 by Dr. Pranav Vyas, Associate Professor-Department of Microbiology and Biotechnology Center, M S University, Baroda. The talk introduced students to the concepts as well as rules & regulations of Intellectual Property Rights, copyrights, and patents.
- Talk to introduce students on the concept of importance and types of competitive exams in the life science field was delivered by Dr. Rushit Shukla, Assistant Professor-Department of Microbiology, Christ College, Rajkot. The talk focused on and oriented students with different exams and the scope of life science as a career option.

## Field Visits Arranged

- Narara National Park: An education tour for the students of the Department was organised on 29th February 2020. 48 students along with the faculty members participated which shared insights about the role and importance of microbes in marine areas, ecological roles of mangroves, the importance of rare and endangered species, and experienced how an ecosystem can be preserved.

## National Science Day Celebration 2020

Every year National Science Day is celebrated on 28th February to mark the discovery of the Raman Effect and contributions in the field of Science by Indian Physicist Sir C V Raman on 28th February 1928. Celebration of National Science Day at the Department aimed to encourage students towards science and innovative thinking and also to reflect the importance of science in our day to day life and overall well being of mankind.

Events such as essay writing competition, drawing competition, quiz competition, model presentation, and scavenger hunt were organised which helped students to focus on general awareness of science and learning along with fun. Students were felicitated upon successfully qualifying in each category of competitions.

## Faculty Achievements

- Prof. Ujwalkumar Trivedi has been awarded as a Fellow of the Indian Chemical Society.

## Publications

Year	Papers in Journals	Publication in Book Chapters
<b>2019-20</b>	2	5

# MEFGI – DIPLOMA STUDIES

The Diploma Engineering Programme of Marwadi University is designed with a curriculum focused on practical and skill-oriented training. Programme is designed based on collaboration with sector skill councils listed by the Ministry of Skill Development & Entrepreneurship (MSDE) and is a unique curriculum to bring a complete blend of seasoned learning along with industry support.

## Talks & Workshops Organised

### Startup and Entrepreneurship Conclave 2019

A workshop titled Startup and Entrepreneurship Conclave 2019 was organised on 26th & 27th June 2019. The conclave aimed at disseminating knowledge of University-based innovations & ecosystem, support innovations & ideas with Government policies and schemes for entrepreneurs & start-ups, and also to motivate students about start-ups and entrepreneurship in conversation with successful industry leaders. Renowned entrepreneurs from different branches of Saurashtra and Gujarat inspired and guided students. Ms. Isha Pathak from the Center for Entrepreneurship Development, Government of Gujarat guided students with the offerings from CED about the Start-up ecosystem in Gujarat. 350 students along with 40 faculty members from the Institute actively participated in the workshop.

### Workshop for Final Year Students of Civil Engineering Department

A workshop for the Final Year Students of Diploma Civil Engineering Department was organised from 24th to 28th February 2020. Students were oriented with skills and knowledge of fieldwork with a combination of both technical and non-technical skills which shall be helpful during their professional life.

Expert sessions such as General Development Control Regulations (GDCR), Real Estate Regulation Act (RERA), online submission system of building plan in Municipal Corporation, future construction material, Experts from Rajkot Municipal Corporation, and field practitioners were organised. Field training, as well as hands-on practice, was given by the department faculties on foundation tracing on-site, field survey using a total station, masonry bond preparation on-site, and bar bending schedule on-site.

## Field Visits & Study Tours Organised

Organisation	Student Participants
Ultracab India Pvt. Ltd, Rajkot	26
Bhaskaracharya Institute for Space Applications and Geoinformatics, Gandhinagar	35
Kakrapar Atomic Power Station, Surat	16
Rajkot Municipal Corporation.	35
Arcon Industries	26
Kishan forge Ltd, Rajkot.	40
Popular Gear Ltd, Rajkot.	40
Infinity Infoway Pvt. Ltd, Rajkot	63
Orient Abrasives Ltd, Porbandar	21
Rain Gauge Station and Aji-4 Dam, Rajkot	28
Rekto Electricals, Rajkot	22

## Faculty Participation in Training

- Prof. Navnit Patel, Faculty Development Programme on “Teaching Pedagogy and Skill Enhancement” during 16th to 20th December 2019 at GMB Polytechnic, Rajula.
- Prof. Mital Joiser, Faculty Development Programme on “Teaching Pedagogy and Skill Enhancement” during 16th to 20th December 2019 at GMB Polytechnic, Rajula.
- Prof. Smit Kacha, “Application of Geosynthetic and Ground Improvement Techniques” during 5th & 6th July 2019.

## Publications

Year	Papers in Journals	Papers in Conferences
2018-19	2	-
2019-20	1	4

# FACULTY OF COMPUTER APPLICATIONS

Academic Year 2019-20 posed challenges due to the unexpected pandemic situation, but the Institute swiftly overcame by introducing an online mode of delivery to all the students without any interruption. Faculty of Computer Applications also initiated collaborative and developmental talks with corporate houses in India and abroad to enhance teaching and learning practices at the Department.

## Talks & Guest Lectures Organised

Sessions aimed at providing in-depth knowledge of the topic beyond syllabus coverage.

- “Expert Session on FON”, Dr. Atul Gosai, Professor – Saurashtra University, Rajkot.
- “Expert Session of Laravel”, Mr. Alkesh Kaba, Praxware Technologies, Ahmedabad.
- “Expert session of Ionic”, Mr. Pradip Vala, Aelius Technologies, Rajkot.
- “Expert Lecture on Software Engineering”, Mr. Sanjay Togadiya, R K Infotech, Rajkot.
- “Software project on Ionic”, Mr. Akash Padiyar, Akash Infotech, Rajkot.
- “Risk Analysis and Assessment with Information Security”, Mr. Naresh Kumar, SAER Technology Pvt. Ltd, New Delhi.
- “Expert Session on PHP”, Mr. Ashish Gondaliya, Webfirm Infotech Pvt. Ltd, Ahmedabad.
- “Expert Lecture on Machine Learning”, Dr. Jeegar Trivedi, Sardar Patel University.
- “Expert Lecture on Python”, Dr. Shyam Chawda.
- “Expert session of DAA”, Mr. Bhavesh Atara, Aim Career Solutions, Rajkot.
- “Expert Session of Networking”, Prof. Komal Shah, Professor - Government Engineering College, Rajkot.

## Workshops & Webinars Organised

During the Academic Year 2019-20, workshops & webinars were organised on campus and online modes which aimed at providing the opportunity to enhance knowledge levels of students with the in-depth and real-time industrial implementation of relevant topics as well as the creation of a brand image for the department.

- Artificial Intelligence & Machine Learning, Dr. Ram Kumar, Ministry of Education, Oman.
- Impact of IR 4.0 in Post-COVID scenario, Dr. Shamala Subramanyam, Malaysia.
- Web services scalability, Mr. Shuveb Hussain.
- Android Fundamentals, Prof. Maulik Parek, Assistant Professor-Faculty of Computer Applications.
- Cyber Security Fundamentals, Prof. Brijesh Jajal, Assistant Professor-Faculty of Computer Applications.
- Live Demos of PANDAS & PANDA SQL in Python, Prof. Nilesh Advani, Assistant Professor-Faculty of Computer Applications.
- Lessons for Life, Prof. R. Sridaran, Dean-Faculty of Computer Applications.
- Big Data Introduction, Prof. Nootan Padia, Assistant Professor-Faculty of Computer Applications.
- Robotics Process Automation, Prof. Seema Trivedi, Assistant Professor-Faculty of Computer Applications.
- Panel Discussion-PG in Computer Application, Prof. Sunil Bajaja, Associate Professor-Faculty of Computer Applications.
- Android Level-2, Prof. Maulik Parekh, Assistant Professor-Faculty of Computer Applications.
- Advanced Java (MVC), Prof. R. Sridaran, Dean-Faculty of Computer Applications, and Prof. Kalpesh Popat, Assistant Professor-Faculty of Computer Applications.
- Mathematic Essentials for Computer Applications, Prof. Keshvi Mehta.

## Cyber Safe Abhiyan

With the advent of new technologies and increased use of smart gadgets, the usage of the internet and online-transactions has become common which has created new challenges like cyber theft, information hacking, and other cyber frauds. Hence, awareness concerning cybersecurity has become essential. Looking upon the need and as a part of social responsibility, the Faculty of Computer Applications of Marwadi University took initiative to create awareness and arranged “Cyber Safe Abhiyan” on 14th September 2019 an exhibition and expert talk on Cyber Security.

The occasion was graced by Shri. Ravi Mohan Saini, IPS DCP-Zone I, Rajkot, and Dr. Y P Kosta, Provost-Marwadi University, witnessed a huge response with the participation of more than 1,000 students from schools and colleges of Rajkot and Saurashtra region. The event was inaugurated with the Cyber Safe Exhibition, where the cybersecurity students gave awareness concerning cybersecurity and preventive measures to avoid information theft and frauds. Shri Ravi Mohan Saini addressed the participants and oriented awareness about cyber frauds with the increase in the use of technology. Talks on Cyber Security and Provisions in our Constitution in the form of Cyber Law were delivered by Mr. Krishna Sharma, Professional Hacker from Delhi, and Dr. Rahul Nikam, Associate Professor-Faculty of Law, Marwadi University. The participants were oriented with insightful learning through exhibitions and the talks delivered.



## Student Participation

Academic Activities	Co-Curricular Activities	Club Activities	Career Counseling
24	28	14	34



## Faculty Achievements at the Department

Academic Year 2019-20 posed challenges due to the unexpected pandemic situation, but the Institute swiftly overcame by introducing an online mode of delivery to all the students without any interruption. Faculty of Computer Applications also initiated collaborative and developmental talks with corporate houses in India and abroad to enhance teaching and learning practices at the Department.

Best Lesson Plan Appreciation	
<b>Subjects:</b>	Computer Organisation & Architecture & Data Structure
<b>Date:</b>	<b>31/10/2019</b>
<b>Members:</b>	Dr. BrijeshJajal, Prof. Amit Gohil, Prof. Jitesh Solanki, and Prof. ShrutiManiar
<b>Activity Brief:</b>	It's a regular practice at FoCA to appreciate faculty teams who present the best Lesson plan for their subject in the upcoming semester. The process is to maintain the quality of academic processes and encourage faculties to provide their best for the students. For the even semester of the year 2019-20, Dr. R. Sridaran appreciated 2 best lesson plans for the subjects Computer Organisation& Architecture of BCA Sem-1 prepared by Dr. BrijeshJajal& Prof. Amit Gohil and Data Structure of BCA Sem –3 prepared by Prof. Jitesh Solanki and Prof. ShrutiManiar

Best Committee Presentation Appreciation	
<b>Committee:</b>	Entrepreneurship Cell Committee
<b>Date:</b>	<b>30/11/2019</b>
<b>Members:</b>	Dr. Jaypalsinh Gohel and Prof. Amit Gohil
<b>Activity Brief:</b>	In order to make department-related activities more effective, in the year 2019-20, Dr. R. Sridaran introduced a committee structure in place of the team leader structure as it was not suitable when we want to provide equal opportunities to the young talents to perform the task independently. To make people buy-in to the idea and make the change process smooth, Dr. R. Sridaran announced to appreciate a committee that would present the best activity plan for the upcoming semester.

## Faculty Achievements: Certifications

Sr.	Faculty Name	MOOC/Online Module Title	Certificate Provider
1	Dr. KalpeshPopat	Cyber Security Course: Beginner to Advanced	Udemy
2	Dr. KalpeshPopat	Hibernate: Advanced Development Techniques	Udemy
3	Dr. AshwinDobariya	PHP Tutorial Course	SoloLearn
4	Dr. AshwinDobariya	HTML Fundamental Course	SoloLearn
5	Dr Ashwin Dobariya	C Tutorial Course	SoloLearn
6	Dr Ashwin Dobariya	Java Tutorial Course	SoloLearn
7	Dr Ashwin Dobariya	C# Tutorial Course	SoloLearn
8	Dr Ashwin Dobariya	Python 3 Tutorial Course	SoloLearn
9	Dr Ashwin Dobariya	Data Science And Visualisation Using Python	CSI Gwalior Chapter
10	Dr Ashwin Dobariya	Online workshop on "Emerging Trends and Future Computing Technologies"	Bololand University, Assam
11	Dr Jaypalsinh Gohil	Big Data	Cognitive Class
12	Dr Jaypalsinh Gohil	Python 3 Tutorial Course	SoloLearn
13	Prof. Maulik Parekh	Python 3 Tutorial Course	SoloLearn
14	Prof. Maulik Parekh	Java Tutorial Course	SoloLearn
15	Prof. Maulik Parekh	Introduction to Data Science	Cognitive Class
16	Prof. Nootan Padia	Hadoop 101	Cognitive Class
17	Prof. Amit Gohel	Web Development Using VueJS	Eduonix
18	Prof. Amit Gohel	DevOps on AWS	Eduonix
19	Prof. Amit Gohel	jQuery Tutorial course	SoloLearn
20	Prof. Amit Gohel	Python Network Programming for Network Engineers (Python 3)	Udemy
21	Prof. Vivek Gondaliya	Python 3 Tutorial Course	SoloLearn
22	Prof. Hiral Thakar	SQL Fundamentals Course	SoloLearn
23	Prof. Hiral Thakar	Java Tutorial Course	SoloLearn
24	Prof. Hiral Thakar	C# Tutorial Course	SoloLearn
25	Prof. Hiral Thakar	Blockchain Technology	SoloLearn
26	Prof. Dimple Chauhan	Autopsy	BASIS Technology
27	Prof. Dimple Chauhan	NSE level 1 and 2	Online Fortinet NSE Institute
28	Prof. Dimple Chauhan	Ethical Hacking & Cyber Security Training – Summer 2020	By Industry Expert from Cyberator
29	Prof. Jitesh Solanki	C Tutorial Course	SoloLearn
30			
31	Prof. Maulik Tanna	Google Ads Display Certification	Google
32			

## Faculty Participation in FDPs/Seminars/Workshops

Sr No.	Name of the Faculty	Details	Dates/Year
1	Dr. Brijesh Jajal	5 days online AICTE FDP on the Internet of Things - NITTTR-Chandigarh	15 – 19 April 2020
2	Dr. Jaypalsinh Gohil	5 days online AICTE FDP on the Internet of Things - NITTTR-Chandigarh	15 – 19 April 2020
3	Prof. Nootan Padia	GTU 5 DAYS FDP ON DATA ANALYTICS	08 – 12 July 2019
4	Dr. Divyakant Meva	One day FDP on Machine Learning - GTU	14/09/2020
5	Prof. Amit Gohel	6 days Online FDP on "R Programming" by IIT Bombay	19 – 24 April 2020
6	Prof. Maulik Parekh	One day FDP on Machine Learning with Python- GTU	14/09/2019
7	Prof. Amit Gohel	5 days Webinar Series on Research Methods	01 – 04 May 2020
8	Dr. Ashwin Dobariya	6 days Online FDP On "R Programming" by IIT Bombay	19 – 24 April 2020
9	Dr. Ashwin Dobariya	One day FDP on 'The Power of Emotional Intelligence of Teachers and How To Raise It'	16/05/2020
10	Prof. Dimple Chauhan	FDP on "Hands-on training on Blockchain Technology and its applications" - GTU	10 – 14 February 2020

## Publications

Year	Papers in Journals	Papers in Conferences
<b>2018-19</b>	14	7
<b>2019-20</b>	-	1

## Projects / Consultancy work Initiated

### Machine Vision Research Work

Considering the availability of tile manufacturing exporters around Rajkot, there is a need for a precise automated system for the tile quality inspection. In this regard, the idea of the Machine Vision Project was introduced at the Faculty of Computer Applications-Marwadi University.

#### Milestones of activities:

1. Edge detection on all sides - Using Lab view Vision Acquisition - July 2019.
2. Procurement of Sizer machine as a compliment from Metropole Tiles, Morbi – March 2020.



# FACULTY OF BUSINESS MANAGEMENT

Faculty of Business Management (FoBM) was started as a constituent unit of Marwadi University to create through excellence-driven and research-based education system, business professionals with holistic personality, professional ethics, and social consciousness.

The Department offers MBA, MBA (Business Analytics), and MBA (Executive Programme) with a wide range of Specialisations viz. Marketing Management, Financial Management, HR Management, and International Business Management.

The department is adding five new specialisations from the coming academic year- Operations Management, Logistics, and Supply Chain Management, Banking and Insurance, Entrepreneurship & Family Business Management, and Systems & IT. The Department is enriched with highly skilled and qualified faculties with more than 60% of faculties holding the Ph.D. degree. Department has also witnessed a handsome rate of placement for our MBA students since its inception.

## Expert Talks Organised

Sr. No.	Name of resources person	Topic Delivered	Date	No of participants
1.	Mr. Ashish Agarwal	Analysis of Macroeconomic Variables and Their Influence on Investment Climate.	21/09/19	800
2.	Mr. Atul Bhole	Equity Outlook and Investment Philosophy	21/09/19	800
3.	Mr. Miten Lathia	Resistance and Supporting Activities of Equity Market	21/09/19	800
4.	Mr. Mahendra Kumar Jajoo	How fixed income securities are more lucrative investment than equity investment	21/09/19	800
5.	Ms. Braxy Kuriakose	Investment in debt funds	21/09/19	800
6.	Mr. Yogesh Bhatt	Risk and Rewards for Investors	22/09/19	750
7.	Mr. Ankit Rajesh Parmer	Benefits of Exchange Trade	22/09/19	750
8.	Mr. Sudhanshu Asthana	Funds New Investment Avenue	22/09/19	750
9.	Mr. Nitin Anand	Real Estate Investment Trust (REITs)	22/09/19	750
10.	Harsh Savani - AEGIS Technology	Business Analytics and its Importance in today's Business Environment.	16/11/19	14
11.	Dr. Sandeep Atre	Awareness within the self.	31/01/2020	700
12.	Dr. V. Aditya Srinivas	Accelerating the skills by various Methods.	31/01/2020	700
13.	Mr. Dhananjay Singh	"VUCA World- A New Normal".	31/01/2020	700
14.	Dr. G. Mallikarjun	Development of skills on interpersonal and technical skills	01/02/2020	650
15.	Mr. Vikram Singhania	Importance of higher learning and knowledge-based industry.	01/02/2020	650
16.	Dr. Tarun Sharma	Planning and Goal setting of life.	01/02/2020	650

## Introduction about Department

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## Activities/Events organised at Department

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## Expert talks/Guest lectures for students during AY 2019-20

S. No.	Title	Name of resources person	Topic Delivered	Date	No of participants
1.	Expert Talk	Mr. Ashish Agarwal	Analysis of Macroeconomic Variables and Their Influence on Investment Climate.	21/09/19	800
2.	Expert Talk	Mr. Atul Bhole	Equity Outlook and Investment Philosophy	21/09/19	800
3.	Expert Talk	Mr. Miten Lathia	Resistance and Supporting Activities of Equity Market	21/09/19	800
4.	Expert Talk	Mr. Mahendra Kumar Jajoo	How fixed income securities are more lucrative investment than equity investment	21/09/19	800
5.	Expert Talk	Ms. Braxy Kuriakose	Investment in debt funds	21/09/19	800
6.	Expert Talk	Mr. Yogesh Bhatt	Risk and Rewards for Investors	22/09/19	750
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10.	Expert Talk	Harsh Savani - AEGIS Technology	Business Analytics and its Importance in today's Business Environment.	16/09/19	14
11.	Expert Talk	Dr. Sandeep Atre	Awareness within the self.	31/01/2020	700
12.	Expert Talk	Dr. V. Aditya Srinivas	Accelerating the skills by various Methods.	31/01/2020	700
13.	Expert Talk	Mr. Dhananjay Singh	“VUCA World- A New Normal”.	31/01/2020	700
14.	Expert Talk	Dr. G. Mallikarjun	Development of skills on interpersonal and technical skills	01/02/2020	650
15.	Expert Talk	Mr. Vikram Singhanian	Importance of higher learning and knowledge-based industry.	01/02/2020	650
16.	Expert Talk	Dr. Tarun Sharma	Planning and Goal setting of life.	01/02/2020	650





## Value Added Courses for Students AY 2019-20

Faculty of Business Management (FOBM) was started as a constituent unit of “Marwadi University” to create through excellence-driven and research-based education system, business professionals with holistic personality, professional ethics, and social consciousness.

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S.No.	Date	Course	No. of Participants	Resource Person	Outcome
1.	29 - 31 August 2019	Advanced Excel	65	CS Ronak Raithaththa	The course provided hands-on training on different advanced features of Excel: 1. Synthesize information into a logical framework, 2. Summarize it into a meaningful format, and then 3. Display the summary into easy-to-read tables and graphs using Excel.
2.	07/01/2020	Personal Finance Success Boot Camp	24	Prof Hiren Parekh & Prof Ronak Raithaththa	The Financial Success Boot Camp gave insight to students about basic concepts of money savings, investment avenues, and insurance.
3.	27 - 28 January 2020	SPSS -1	16	Dr. Tina Dutta	The objective of this course was to provide practical knowledge about SPSS (Statistical Package for Social Science) and to render the use of SPSS in increasing academic and industrialist research performance.
4.	29/02/2020	SPSS -2	50	Dr. Prashant Biswas	This course was designed to acquaint the researchers with the tools, techniques, and practices of SPSS.
5.	04 - 12 June 2020	Six Sigma	20	Prof. Rohit Lala	The value-Added certification course provided a proper insight to a student about Six Sigma and its usage in the field of production.

## Workshops and Training Programme for Students



S. No	Date	Name of Event	No. of Participants	Resource Person	Outcome
1.	13 -14 September 2019	GST workshop	60	Prof. Hiren Parekh	1.Students gained an understanding of GST 2. Students gained working knowledge and application in routine compliances. 3.Workshop enhance the skills in a structured and practical manner for students. 4.Gave insight to use such skills to take managerial decisions.
2.	27 - 28 September 2019	Advanced Corporate Communication- 1	32	Prof. Brij Yagnik (L & D department)	The workshop provided hands-on experience in Communication Skills: 1. Different styles of communication and how to improve understanding and build rapport with others. 2.Reflected on different methods of communication and decided when each is most suitable.
3.	4 - 5 October 2019	Advanced Corporate Communication - 2	32	Prof. Brij Yagnik (L & D department)	The workshop provided hands-on experience in Communication Skills: 1. The role of body-language and voice-tone in effective communication. 2.Communication of the message effectively and engagingly for the recipient.
4.	07 - 09 November 2019	Workshop on Digital Marketing	42	Mr Pandey from Brandveda, Ahmedabad	Students learned hands-on training on Digital Media tools and social media marketing practices
5.	15/11/19	Workshop on Technical Analysis	56	Mr. Yog Joshi	This Workshop was for Final Year MBA Finance students aware of various Technical Analysis tools and their Hands-on Exercises in the field of Finance.
6.	10-12Feb, 2020	Placement Training	60	L & D Department, Marwadi University	Students got trained for various aspects of Placement Training - Aptitude, Verbal, Language, GD & Resume writing.

## Notable Activities are undertaken at the Department

S. No.	Date	Event	No. of Participants	Resource Person	Objective of Event
	10/07/19	"Maiden Union Budget 2019-20: Perspectives"	500	C.A. Kalpesh Doshi C.A Hiren Thakker	To give students a Review of Budget 2019
	22 - 23 July 2019	Anushtapan (New student Experience)	300	Mr. Naynesh Parekh, Mr. Jayen Kotecha	The objective of the event was to give an overview of their upcoming journey in University and give the insight to shape up their career.
	31/07/19	The orientation of YUVA members from the Management Department	55	Mr. Rahul Dangar, Chairman, Yuva Forum, CII- YI, Rajkot Chapter.	The objective of this event was to orient the students towards the activities and purpose of the YUVA forum for Building India and explained the orientation of the YUVA forum at the National level
	05/08/19	National Symposium "Reimagining New India: Social Entrepreneurship"	300	Shri Mital Khetan, Shri Taksh Mishra, Mr. Rajendra Joshi	The event was conducted to unleash new ideas among young minds, where the student got a chance to know about the experiences of various entrepreneurs and also gained knowledge about the role of entrepreneurs in the upliftment of the economy.
	19/08/19	Menstruation Awareness Seminar	220	Dr. Manisha Singh Patel - Wockhardt Hospital	The objective of this Seminar was to spread awareness among female students about various issues and give them tips to maintain hygiene in daily life. It was achieved by addressing their various questions.
	21 - 22 September 2019	<b>Marwadi Investment Conclave</b>	800	10 Eminent Speakers Were Invited	The basic objective of the conclave was to create a platform to discuss and deliberate on the dynamics related to investment opportunities in different asset classes.
	28 December 2019	7th Alumni Meet	200	-	It was an annual alumni meet where passed out students of all faculties of management get together and met their friends and faculty members to cherish their memories.
	31 - 01 Feb 2020	4th National Level Management Conclave <b>Manthan 2020</b>	800	CA Kalpesh Doshi, CA Hiren Thakker	The objective of the event was to give an overview of their current trends and techniques in the corporate world and also given an idea to students about expectations of industry from new upcoming managers.
	14/03/2020	<b>Prashasti 2020</b>	800	-	The Objective of the event was to give recognition to students who have shown their talents in various fields.

## Industrial Visits Organised during 2019-20

S No.	Date	Place	No of Students	Resource Person	Outcome
1.	06/09/19	Kich Architectural Product Pvt. Ltd.	65	Sagar Mehta	Students learned basic functionality of Manufacturing organisation
2.	14/02/2020	Gopal Snacks Pvt. Ltd.	113	Mr. Bhargav Joshi	Students learned basic functionality of Manufacturing organisation
3.	18/02/2020	Seasons Hotel	60	NA	Students learned basic functionality of Hospitality Domain
4.	28/02/2020	Electrotherm (India) Ltd.	49	Mr. Karan Thaker	Students learned basic functionality of Manufacturing organisation

## Cultural & Co-Cultural Workshops Organised

Sr. No.	Date	Activity Type	Activity	No. of Participants
1.	19/08/19	Workshop	Photography Workshop	50
2.	19/08/19	Workshop	Tips and Tricks in Photography	72
3.	07/09/19	Workshop	Linocut Printing Workshop	52
4.	30/09/19	Workshop	Art of Constructive Critique	40
5.	14 – 15 February 2020	Workshops	Artathon-2020	300

## Career Counseling for Employability and Skill up Programmes for Students

Sr. No.	Date	Activity Type Activity	Activity	No. of Participants	Resource Person	Objective
1.	16 -18 September 2019	Training Session	Mock PI	195	Mr. Tamiz Sheikh & Ms. Radha (experts Focus Academy)	Mock PI gave students a firsthand experience of problems and difficulties faced by the candidates. It also provided valuable inputs to crack Placement Interviews easily.
2.	30 - 01 October 2019	Training Session	SIG	33	L & D Department	This training imparted them knowledge about Corporate Etiquette
3.	26/12/19	Assessment Test	Co-Cubes Test	120	Placement Department	The objective of the test was making student acquaint with 1.Understand or visualise any real-time Problem. 2. Ability to analyse. 3.Verbal and Written Communication Skills
	18/02/2020	Special session	GD & PI	50	Prof. Rachita Mehta. L & D Department, Marwadi University, Rajkot	The Session of GD and PI was conducted to make students employment ready.

## Details of Short-Term Courses / Training Undertaken by Faculty Members

Sr. No.	Name Of Faculty	Activity	Date	Title of Training /Workshop	Organised by	National / International
1.	Alpesh Gajera,	NPTEL Course	Jul-Oct 2019	NPTEL Course	NPTEL	National
2.	Prof.T. Muthukumar	R programming workshop	09/11/19	Workshop	IIT- Bombay	National
3.	Prof.T. Muthukumar	Workshop	29/02/2020	One Day Workshop on C and C++	IIT- Bombay	National
4.	Meeta Mandaviya	Workshop	16/04/2020	Development of Higher Education in India: An overview	Guru Angad Dev Teaching and Learning Centre SGTB Khalsa College, the University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD	National
5.	Meeta Mandaviya	Workshop	01/05/2020	Enhancing Research Effectiveness using Scopus, ScienceDirect, and Mendeley	Faculty Development Centre Kurukshetra University, Kurukshetra In Collaboration With Elsevier ( Under the Aegis Of Mhrd, Govt. Of India)	International
6.	Meeta Mandaviya	Workshop	27/05/2020	National workshop on the development of Teachers' e-kit	Guru Angad Dev Teaching and Learning Centre SGTB Khalsa College, the University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD	National
7.	Meeta Mandaviya	Workshop	29/05/2020	Towards the excellence in Higher education in India in the 21st Century	Guru Angad Dev Teaching and Learning Centre SGTB Khalsa College, the University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD	National



## Details of Seminars/STTPs/FDPs attended by Faculties

S. No.	Name of Faculty	FDP/MDP/STTP	Date	Title of FDP/MDP /STTP	Organised by	National / International
1.	Alpesh Gajera	FDP	July-Oct ,2019	FDP	NPTEL	National
2.	Muthu Kumar	FDP- Case Writing	03/08/19	FDP	FoBM-Marwadi University	Inhouse
3.	Navjyot Raval	FDP	03/08/19	Case Writing	FoBM, Marwadi University	Inhouse
4.	Hiren Parekh	FDP	03/08/19	Case Writing	FoBM, Marwadi University	Inhouse
5.	Alpesh Gajera	FDP	03/08/19	Case Writing	FoBM, Marwadi University	Inhouse
6.	Darshana Vitthalani	FDP	03/08/19	Case Writing	FoBM, Marwadi University	Inhouse
7.	Meeta Mandaviya,	FDP	21 -26 September 2019	One week FDP on Blue Ocean Strategy, AICTE Training And Learning (ATAL) Academy	AICTE Training And Learning (ATAL) Academy	National
8.	Navjyot Raval	FDP Level 1	22/08/19	Teaching	L & D Dept Marwadi University	Inhouse
9.	Darshana Vitthalani,	FDP	22/08/19	FDP-level-1	L & D Dept Marwadi University	Inhouse
10.	Bindiya Gupta	FDP	25/08/19	Faculty Development Programme- Level 2	Marwadi University	Inhouse
11.	Muklesh Tiwari	FDP	20/09/2020	A managerial perspective on Business Analytics	GTU Ahmedabad	National
12.	Muthu Kumar	FDP	20-24 January 2020	Managerial Perspective on Business Analytics	GTU Ahmedabad	National
13.	Navjyot Raval	FDP Level 2	24/01/2020	Learning	L & D Dept Marwadi University	Inhouse

## Details of Conferences/Webinars attended by Faculties

S. No.	Name of Faculty	Conference /Webinars	Date	Title of Conference / Webinar	Organised by	National/ International
1.	Meeta Mandaviya	Conference	02 - 04 January 2020	Conference	AIMS - IIM Kozhikode	International
2.	Bindiya Gupta,	Symposia	30 -31 January 2020	5th International Youth Symposium 2020	Marwadi University	International
3.	Prof. T. Muthukumar	National Conference	19-20 February 2020	Innovative Management Practices for Sustainable Business Models	Parul University, Vadodara	National
4.	Amar Vijay Gandhi	Webinar Series	1 - 5 May 2020	International Business Beyond COVID 19	Gujarat Technological University - GSMS	National

## Research & Development Activities

### Publications

Year	Papers in Journals	Papers in Conferences	Book Publications	Publication in Book Chapters
2018-19	6	3	-	1
2019-20	19	5	-	-

# FACULTY OF LIBERAL STUDIES

Faculty of Liberal Studies (FoLS) was started in the year 2016 as a constituent unit of Marwadi University to provide quality education, in various functional areas and transforming students into professionals, entrepreneurs, and researchers having a deep-rooted sense of Social Responsibility.

The Department offers various courses i.e. BBA, BBA (Hons.), BBA (Financial Markets), B. Com and B.Com (Hons.) with a wide range of Specialisations in different streams. The department is enriched with highly skilled and qualified faculties.

Sr. No.	Name of Resources Person	Topic Delivered	Date	No of Participants
1.	CA Gaurav Mehta	Scope and core concepts of Cost Accounting	06/07/19	25
2.	CA Brijen Sampat	Value addition by finance professionals	13/07/19	30
3.	CA Sharad Anada	Functional difficulties and Input Tax Credit under GST	20/07/19	25
4.	CA Dhaval Bhojani	Government policies for Business growth	17/08/19	25
5.	CA Kalpesh Parekh	Tax planning for individuals	07/09/19	35
6.	Mr Ashish Agarwal	Analysis of Macroeconomic Variables and Their Influence on Investment Climate.	21/09/19	800
7.	Mr Atul Bhole	Equity Outlook and Investment Philosophy	21/09/19	800
8.	Mr Miten Lathia	Resistance and Supporting Activities of Equity Market	21/09/19	800
9.	Mr Mahendra Kumar Jajoo	How fixed income securities are more lucrative investment than equity investment	21/09/19	800
10.	Ms Braxy Kuriakose	Investment in debt funds	21/09/19	800
11.	Mr Yogesh Bhatt	Risk and Rewards for Investors	22/09/19	750
12.	Mr Ankit Rajesh Parmer	Benefits of Exchange Trade	22/09/19	750
13.	Mr Sudhanshu Asthana	Funds New Investment Avenue	22/09/19	750
14.	Mr Nitin Anand	Real Estate Investment Trust (REITs)	22/09/19	750
15.	CA Raj Vora	Elements to be considered while forming a contract	04/01/2020	23
16.	CA Hardik Vyas	Feature of Tally ERP 9	18/01/2020	23

## Workshop for Final Year Students of Civil Engineering Department

S. No.	Name of Faculty	Achievement	Date	Description	Organisation	Level
1.	Dhiresh Kulshrestha	External Examiner for Ph.D.	04/05/19	PhD Evaluation from RTM-Nagpur University - (MH) [A State University of Maharashtra] "Impact of HRD Climate on Productivity of the organisation: A Study with Reference to the IT Industries in Pune (for the period 2012-2018)	Faculty of Commerce and Business Economics, Nagpur University	National
2.	Dhiresh Kulshrestha	External Examiner for Ph.D.	29/05/19	PhD Evaluation from RTM-Nagpur University - (MH) "An Analytical Study of the organisation and working of Special Economic Zones in Maharashtra State" (For the period 2010-2015)	Faculty of Commerce and Business Economics, Nagpur University	National
3.	Dhiresh Kulshrestha	Invited as Resource Person	5-6 July 2019	Syllabus Reforms at HRDC	KBC North Maharashtra University Jalgaon (MH)	National
4.	Dhiresh Kulshrestha	Invited as Resource Person	14/11/19	Economics Business and Commercial Laws Syllabus Reforms	ICSI- Ministry of Corporate Affairs -New Delhi Government of India	National
5.	Dhiresh Kulshrestha	Invited as Resource Person	25-29 Nov 2019	Economics Glossary	Government of India Commission for Scientific and Technical terminology Ministry of Human Resource Development New Delhi Department of Higher Education	National
6.	Dhiresh Kulshrestha	Invited as Resource Person	02/12/19	Syllabus Reforms Committee at Vardhmaan Mahaveer Open University Kota (Rajasthan)	Department of Economics Faculty of Social Science, University Kota (Rajasthan)	National
7.	Dhiresh Kulshrestha	Invited as Resource Person	24-25 Jan 2020	FDP	Department of Economics- Tilka Manjhi Bhagalpur University- Bhagalpur [A State University of Bihar]	International
8.	Dhiresh Kulshrestha	Invited as Subject Expert	12/02/2020	FDP	Department of Economics, Dr. H.S. Gaur University Sagar (M.P) -A Central University of Madhya Pradesh	National

## Conferences Attended by Faculty Members

S. No.	Name of Faculty	Conference /Webinars	Date	Title of Conference / Webinar	Organised by	National/ International
1.	T. Rajasekar	National Conference	22/12/19	72nd All India Commerce Conference	Indian Commerce Association	National
2.	Dhiresk Kulshrestha	Conference	27-29 December 2019	An Economic Analysis of Production and Marketing of Cotton in Rajkot District of Gujarat	Indian Economic Association collaboration with Auro University Surat (Gujarat)	
3.	Ruturaj Doshi	Conference	24-25 Jan 2020	12th International Conference on Perspectives, Practices & Trends on Business Management and Innovation	VMPIM, Ganpat University	International
4.	Jitendra Patolia	Conference	24-25 January 2020	12th international conference on perspective, Practice and research trends on "Business Management and Innovation"	Ganpat University	International
5.	Uma Sharma,	Symposia	Jan 30-31, 2020	5th International Youth Symposium 2020	Marwadi University	International
6.	Dhiresk Kulshrestha	Webinar	26/02/2020	A special Webinar on Infectious Diseases in Asia: Recent Hiccups in World Economy due to Corona outbreak	The Economist London (UK)	International
7.	T. Rajasekar	International Conference	04/03/2020	Three Day International Conference on Environment, Politics, and Media: Indian and European Experience organised jointly by Pondicherry University and German Universities from 4th to 6th 2020 at the UNESCO Madanjeet Singh Institute for South Asia Regional Cooperation (UMISARC).	Pondicherry University jointly with German Universities	International

## Research & Development Activities

### Publications

Year	Papers in Journals	Papers in Conferences	Book Publications	Publication in Book Chapters
2018-19	5	2	1	-
2019-20	7	5	-	1



# FACULTY OF LAW

## Conferences Attended by Faculty Members

Title of Talk	Name of resource person	Organisation/institute from where resource person belongs
Indian Society and Law: An Interface	Prof. Hemixa Rao	Ex- Vice-Chancellor, Hemchandracharya North Gujarat University, Patan, Gujarat
Consumer Protection Act, 1986	Mr. Abhishek Awasthi	Consumer Education and Research Centre (CERC)
Fundamental rights	Dr. Tarkesh Molia	Institute of Law, Nirma University
Essentials of a Comprehensive Contract with reference to Government Contract	Mr. Subhrarag Mukherjee	Asia, Pacific, and Japan (APJ) in Hewlett Packard Technologies Ltd.
International Law & Jurisprudence	Mr. Fabricio Fortese and Mr. Dordelly Rosales Nelson	Law department, at Vesalius College (Belgium)
Sales of Goods Act-Part I	Mr. Jaimin R Dave	Advocate Gujarat High Court
Sales of Goods Act-Part II	Mr. Jaimin R Dave	Advocate Gujarat High Court
Basics & techniques of Mooting	Mr. Saunak Rajguru	Attorney, J. Sagar Associates, New Delhi
Consumer Protection Act	Mr. Punit B. Juneja	Advocate, Gujarat High Court & Head of Punit B. Juneja & Associates Legal Firm
Consumer Protection Act New Amendment	Mr. Abhishek Awasthi	Practicing advocate CERC, Ahmadabad & Advocate Gujarat High Court
Caste & Social Change in India	Dr. Saurabh Anand	Assistant Professor, GNLU, Gandhinagar
Realism vs Liberalism in International Politics	Dr. Nirmal Jindal	Associate Professor, University of Delhi
Political Thought & Ideology	Dr. Mithilesh Kumar Jha	Assistant Professor IIT, Gauhati
Appointment of Judges	Dr. Abhinash Bhagi	Associate Professor, GNLU, Gandhinagar
Doctrine of Pleasure	Dr. Tarkesh Molia	Associate Professor, Institute of Law, Nirma University
Law of Treaties	Dr. Srinivas Burra	Assistant Professor, Faculty of Legal Studies, South Asian University, New Delhi
An overview of Indian Penal Code-I	Mr. Hriday Buch	Senior Advocate Gujarat High Court
An overview of Indian Penal Code-II	Mr. Hriday Buch	Senior Advocate Gujarat High Court
Practical prospects of the Criminal Law Amendment Act	Mr. Aditya Choksi	Advocate Gujarat High Court
Hindu Succession Act	Mr. Mehul Shah	Senior Advocate Gujarat High Court
Environment Protection Act & General Principles	Dr. Subradipta Sarkar	Associate Professor, Faculty of Law, Jamia Millia Islamia

## Workshops Organised

Title of Programme	Brief about Programme	No. of Participants
Critical Thinking Workshop	To develop critical thinking of Law graduates, the Faculty of Law, Marwadi University organised a Two-Day Workshop on 6th and 7th September-2019. Mr. Vikram Rajola, Chairman of In-Feed Foundation was invited to deliver his expertise and knowledge.	52
Career development & Resume Building	Mr. Niteesh Upadhyay, Assistant Professor, Galgotia University & Founder of knowledgesteez.com conducted the workshop on different career aspects in law.	63
Grounds of Divorce under Family Law (Webinar)	Mr. Satyajeet Desai, Senior Counsel, Gujarat High Court	56
Importance of Post Mortem report in Criminal Investigation (Webinar)	Prof. Krishnadutt Chavali, Professor & Head, Forensic Medicine & Toxicology, All India Institute of Medical Sciences, Raipur	153
Law and Politics: Critical Concepts in Political Science (Webinar)	Dr. Dhruv Pande, Faculty of Law, Marwadi University & Prof. (Dr.) Domenico Melidoro, Researcher & Faculty in Political Science, Ethos Luiss Business School, Rome (Italy)	87
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, FoL, MU	226
Sociology for Law Students	Dr. Saurabh Anand, GNLU & Dr. N. Bangkim Singh, FoLMU	126
Stay Home, Stay Safe? Domestic Violence During Covid-19	Dr. Sangita Laha, Associate Professor and Dean, Nusrl Ranchi & Dr. Rachna Choudhary & Ms. Nibedita Basu from FoLMU	275
How to prepare for CLAT in the last 30 days	Mr. Rajneesh Singh, CLAT Mentor & Dr. Prinkal Joshi, Director of PI Education CLAT Coaching Institute	249
How to secure an Internship and convert it into a PPO (Webinar)	Mr. Moin Ladha, Partner, Khaitan and Co., Partner, Mr. Pururaj Bhar, Partner, Cyril Amarchand Mangaldas, Ms. Sheetal Talwar, Deputy General Counsel, Tata Chemicals Limited & Ms. Winnie Shekhar, Partner, Induslaw	234
Critical Thinking for law professionals (Webinar)	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	217

## Student Activities

Details of the Event	No. of Participants
Rajkot Youth Model United Nations	6
Offline Moot Competition (Baroda School of Legal Studies, Faculty of Law, The Maharaja Sayajiroa University of Baroda)	3
Offline Moot Competition (Department of Law, Manikya Lal Verma Sharamjeevi College, Janardan Rai Nagar Rajasthan Vidyapeeth)	3
Online Moot Competition (1st Anand Swaroop Gupta Memorial Virtual National Moot Court Competition, Sharda University)	3
Adjudged Finalist in Jigyasa 2.0 Quiz competition organised by KLE Law Society's College, Bangalore.	1
Participation certificate for Family Law Quiz Competition by Legal Sansad.	1
2nd National Essay Writing Competition Org. By: Symbiosis Law School, Nagpur	2
Asia Youth International Model United Nations, Malaysia	1

## Cultural & Co-curricular Activities

Details of the Event	No. of participants
Women's Day Celebration (Dr. Rachna Choudhary)	10
Cricket Tournament (Faculty: Dr. Krunal Purohit)	41
Hindi Diwas Celebration	30

## Faculty Participation in Conferences

Faculty Name	Programme Name	Participating Institute
N. Bangkim Singh	International Conference on Media, Culture, and Development: Issues and Perspectives	DR. Babasaheb Ambedkar Open University (Paper presented)
N. Bangkim Singh	One Day Workshop on Clinical Legal Education and Access to Justice	Gujarat National Law University
N. Bangkim Singh	How to secure an Internship and turn it into a Pre-Placement Offer	Faculty of Law, Marwadi University
N. Bangkim Singh	Critical Thinking for Law Professionals	Faculty of Law, Marwadi University
N. Bangkim Singh	New Avenues in the Legal profession Post Covid-19	Faculty of Law, Marwadi University
N. Bangkim Singh	Stay Home, Stay Safe? Domestic Violence during Covid 19	Faculty of Law, Marwadi University
Dr. Krunal Purohit	International Conference on Media, Culture, and Development: Issues and Perspectives	DR. Babasaheb Ambedkar Open University (Paper presented)
Dr. Krunal Purohit	Ample Opportunities and Growth Prospects in the Economy of India	DR. Babasaheb Ambedkar Open University (Paper presented)
Dr. Krunal Purohit	MANAGING ONLINE CLASSES and CO-CREATING MOOCs	Ramanujan College, University of Delhi (Online FDP)
Dr. Krunal Purohit	Faculty Development Programme (FDP)-Level 1	L&D Department, Marwadi University
Dr. Rahul Nikam & N. Bangkim Singh	Faculty Development Programme (Level -01)	L&D Department, Marwadi University
Dr. Rahul Nikam, Dr. Krunal Purohit & N. Bangkim Singh	Faculty Development Programme (Level -02)	L&D Department, Marwadi University
Dr. Rahul Nikam	MANAGING ONLINE CLASSES and CO-CREATING MOOCs	Teaching Learning Centre at Ramanujan College, University of Delhi (Online FDP), Sponsored by MHRD PMMMNMTT

## Research Papers Published

Paper Title	Faculty Name
Study of Child Rights under Hindu Law with Specific Reference to Illegitimate Child	Dr. Rachna Choudhary
Research and Development Strategies of Mobile Manufacturing Industries in India	Dr. Krunal Purohit
Challenges and Solutions For Self Reliant India (Atma Nirbhar Bharat): in The Context of Post Covid-19 Situation	Dr. Krunal Purohit
Law on Refugees and Internally Displaced People	Shruti Das and Nibedita Basu,
The Entanglement of Genocide and Culture: Cultural Genocide in Chander Prakash Singh and Dr. Ajaymeet Singh, Genocide and Ethical Cleansing,	Shruti Das and Nibedita Basu,
Utilising Solar Energy: Policy and Initiatives in Journal of Gujarat Research Society	Nibedita Basu
Constitutionality of Practice of Polygamy in India in International Journal of Law Management & Humanities	Nibedita Basu
“Constitutional Validity of Judicial Review in Electoral Laws”	Nibedita Basu
“Asylum Practices in India” in Journal of Legal Studies and Research bearing	Nibedita Basu
“Legal Framework of COVID 19 in India” in White Black Legal Law Journal	Nibedita Basu

## Consultancy Projects Initiated

Project Title	Value of Project
Selection 2019: Erasmus + KA 2 Project: Cooperation for Innovation and Exchange of Good Practices -- Capacity Building in the Field of Higher Education on Development of a Master Level Programme 'International Law and Forced Migration Studies' (ILFM)	€ 92,000
International Law and Forced Migrations (ILFM) Erasmus + KA 2 Project	€ 999,175

# FACULTY OF PHARMACY

The Faculty of Pharmacy (FoP) at Marwadi University strives to create highly skilled pharma professionals who can significantly contribute to the wellbeing of mankind be it a pharma or healthcare sector. The focus of the department is to facilitate learning through globally adopted best pedagogical approaches ably supported by the state-of-the-art infrastructural facilities and a dedicated team of faculty committed to bringing out all-round development of the students. Even during the challenges that arise due to the corona pandemic, the department swiftly adapted to the new and emerging technologies in the education field and not letting the pandemic affect students' learning in any way.

Faculty of Pharmacy regularly organises various activities like webinars, expert talks, industry visits to enrich the knowledge of the students and keep them abreast of the latest developments happening in the pharmacy field. In the academic year 2019-20, apart from teaching activities, the Faculty of Pharmacy organised a Gujarat State Pharmacy council-sponsored refresher course, webinars, and expert talks on various topics covering different areas of the pharmaceutical field such as GC-MS and Mass chromatography techniques, international marketing of pharmaceutical products, quality assurance, the role of product managers, etc., for the benefits of the students. Moreover, the department also took initiatives to equip the faculty with better skills in pedagogy by undergoing short training programmes and attending FDPs for the targeted outcome.

## Events Organised

Title	Name of resource person	Organisation/ institute from where resource person belongs	No. of participants
Entrepreneurship Awareness Programme	Dr. Mukesh Gohel, PG Research Director & Professor	Anand College of Pharmacy, Anand, Gujarat	75
	Dr. Manish Rachchh, Director (R&D) & CEO	Accuprec Research Lab Pvt. Ltd., Ahmedabad.	



## Workshops Organised at the Department

Title	No. of participants	Impact & outcome
GUJCOST sponsored National Seminar and Workshop on "3D Printing Technology in Pharmaceutical and Medical Applications"	273	3D printing has become one of the most revolutionary and powerful tools serving as a technology of precise manufacturing of individually developed dosage forms, tissue engineering, and disease modeling.  All the participants were enriched with knowledge of 3D printing technology, excipient requirement, and forthcoming scopes of this newer technology in the pharmaceutical industry.
Community pharmacist in the UK	104	Understanding of various aspects of working as a community pharmacist, registration procedure for international pharmacy graduates, language requirements, and career opportunities in the UK
GPAT- All you need to know about	72	Insight into the ways of preparation, what books to refer to, how to do revision and practice
Role of a product manager in pharma marketing	64	Understanding of the concept of pharma marketing, marketing management, hierarchy in sales and marketing, how a pharma company conducts its business, role of a product manager, available opportunities for pharmacy graduates, and eligibility criteria to become a product manager in a pharmaceutical company
Living with COVID-19: What we know so far?	56	Understanding of transmission, symptoms, impact of nutritional status and co-morbid conditions, precautions to be taken for COVID-19
COVID-19: Therapeutic avenues	52	Repurposing of drugs, their limitations, and new therapies being developed for treating COVID-19 infection
Concept of QA validation in manufacturing practices	45	Understanding of types of validation as per EMA guidelines, critical quality attributes, hybrid approach, design space approach, critical process variables for tablet and parenteral formulations, cGMP, GDP, eligibility criteria to work as a process validation officer in a pharmaceutical company
Equipment qualification in the pharmaceutical industry: An overview	120	Understanding of various aspects of equipment qualification in terms of purchase, validation, and use by a pharmaceutical company, Emphasis on the importance of documentation at all steps, concepts of IQ, OQ, and PQ, and having properly drafted SOPs for each type of qualification
Gujarat State Pharmacy Council sponsored Two days refresher Course for Registered Pharmacists.	108	The refresher course was organised by FoP, MU to refresh the knowledge of registered pharmacists and to make them aware of different innovative aspects introduced into the field globally. It is also made mandatory by GSPC to attend such courses by all the registered pharmacists before the renewal of their certificate to get updated with the current scenario of the pharma field.



## Society Engagement Activities

Activity	Remark
NSS Health Camp at Kagdadi village	The objective to involve pharmacy students in this health camp is to sensitise them for discharging community services. Being healthcare students, another objective was to make them aware of their social responsibilities and cultivate moral values. Around 100 villagers took the benefit of free blood group testing service offered by the faculty of pharmacy, Marwadi University
Quiz competition on COVID-19	Huge participation from healthcare professionals, students, and faculty members from all over India with great enthusiasm. A total of 1681 participants had taken up the e-Quiz and 970 of them had secured more than 50% marks and were given e-certificate.
World Pharmacist Day Celebration 2019	Video/short film making competition on any one of the following themes: <ul style="list-style-type: none"> <li>Herbal medicines as an immunity booster</li> <li>Role of pharmacists in the healthcare system.</li> </ul>

## Student Academic Activities

Event	Details of the event	No. of participants
Academic visit of Sophisticated Instrumental Research Facility at DPS, Saurashtra University, Rajkot.	Academic institution visits were carried out at the Department of Pharmaceutical Sciences, Saurashtra University, the main objective of the institutional visit is to provide students an insight into the practical applications of what they are learning in theory because; theoretical knowledge is not enough for making a good professional career. Students learned about various instruments during this visit like LCMS/MS, GC-MS/MS, AAS, HPTLC, DSC, FT-IR, Particle size analyser, Brookfield viscometer, Spray dryer, Lyophilizer, Micro ultracentrifuge, Probe sonicator, etc.	75
Pharmafest-2019	Pharmafest is a National Level Symposium which is an amalgamation of technical nontechnical sports as well as cultural fiesta. Faculty of Pharmacy, Parul University hosted the celebration of the 11th year of Grandeur of Pharmafest 2019. A varied range of 17 different novel events such as Pharmattoo, Drug Autobiography, Vocal Cyclone, Loguiz, Pharma Vogue along with conventional events such as Innoveron (model), Hang it (poster), Wrangle over (Debate), Ad mad show (marketing) and Mr. & Ms. Pharmafest. Nontechnical events include Pharmabuzz, Sports like Cricket, PubG, Tug of war and Box football, and Kho Kho.	20
Boot camp for idea marathon	The event aims at inciting the young minds of researchers into realising the problems and start thinking about becoming problem solvers and use their uninhibited innovative approaches to propose innovative solutions to these Problems, Organised by the Department of Pharmaceutical Sciences, Saurashtra University, Rajkot, 360 005, Gujarat, India	02
Pharma Spectre	Organised by Shree Dhanvantary Pharmacy College, Kim, Gujarat.	32
Scintilla	Organised by MS University, Vadodara, Gujarat.	32

## Co-Curricular Activities

Event	Details of the event	No. of participants
Sports day celebration	Sports day was organised by the faculty of pharmacy in association with the Sports & Physical Education Department, Marwadi University on 06-02-2019, with great enthusiasm. Great interest was observed among the students and the faculty members. All of them came in a large number to enjoy the sports programme. Before the events began, the names of the participants were called out. The students were lined-up. There were several outdoor sports events such as the 100-meter race, Dodgeball, Cricket, Kho-kho, Kabaddi, and indoor sports events such as Chess, Carrom, and table tennis.	58
Sports week	Sports week was organised by the Faculty of Pharmacy in association with the Faculty of Science and Sports & Physical Education Department, Marwadi University with great enthusiasm. Great interest was observed among the students and the faculty members. All of them came in a large number to enjoy the sports programme. Before the events began, the names of the participants were called out as a team. There were several sports events such as Cricket, Kho-Kho, Kabaddi, Volleyball, Tug of war, and Throw a ball.	208
Spiritual tour at Khodal Dham temple, Kagvad	The students and faculty visited KhodalDham temple and enjoyed the serenity and took pictures of gardens and greenery around. The tour ended providing academic knowledge as well as a spiritual experience.	75
The art of henna making (Mehndi Art)	Mehndi is a form of body art originating in ancient India, in which decorative designs are created on a person's body, using a paste, created from the powdered dry leaves of the henna plant. Dating back to ancient India, mehndi is still a popular form of body art among the women of Indian. Staining oneself with mehndi is Vedic customs, intended to be a symbolic representation of the outer and the inner sun. Vedic customs are centered on the idea of "awakening the inner light". There are many variations and designs. Women usually apply mehndi designs to their hands and feet.	41

## Participation in Career Counseling Activities

Sr.	Title	No. of participants	Impact & outcome
1.	Community pharmacist in the UK	104	Understanding of various aspects of working as a community pharmacist, registration procedure for international pharmacy graduates, language requirements, and career opportunities in the UK
2.	GPAT- All you need to know about	72	Insight into the ways of preparation, what books to refer to, how to do revision and practice
3.	Role of a product manager in pharma marketing	64	Understanding of the concept of pharma marketing, marketing management, hierarchy in sales and marketing, how a pharma company conducts its business, role of a product manager, available opportunities for pharmacy graduates, and eligibility criteria to become a product manager in a pharmaceutical company
4.	Concept of QA validation in manufacturing practices	45	Understanding of types of validation as per EMA guidelines, critical quality attributes, hybrid approach, design space approach, critical process variables for tablet and parenteral formulations, cGMP, GDP, eligibility criteria to work as a process validation officer in a pharmaceutical company
5.	Equipment qualification in the pharmaceutical industry: An overview	120	Understanding of various aspects of equipment qualification in terms of purchase, validation, and use by a pharmaceutical company, Emphasis on the importance of documentation at all steps, concepts of IQ, OQ, and PQ, and having properly drafted SOPs for each type of qualification

## Faculty Participation in Conferences/Webinars/Seminars

Details of faculties attended Conferences/Seminars/STTPs/FDPs	Organiser
How to Conduct Online Class for Students	Atal Incubation center, Pondicherry Engineering college Foundation
Intellectual Property Rights (IPR) on Healthcare	IIPHG-Technology Business Incubator Atal Incubation Centre-GTU
Patents and intellectual property rights	Ganpat University
Quality by Design ANDA Pharmaceutical Development Report for IR Dosage form	Ramanbhai Patel College of Pharmacy
Post-COVID: Opportunities and Challenges	DadashahebBalpande College of Pharmacy
How to face audit effectively and the role of the regulatory department	Ramanbhai Patel College of Pharmacy
Phytomedicines revisited post-COVID 2019	L. M. College of Pharmacy
Biologics: The Future of Therapeutics & Healthcare Management	SCES's Indira College of Pharmacy
Unlock Your Potential	Marwadi University
Pharmacy Profession in India: Current status and future challenges	University of Kashmir
Gas Chromatography & Mass Spectrometry: Basics & Applications	Faculty of Pharmacy, Marwadi University
In-silico techniques in drug designing	Burkatullah University
SPARC INDO-US Immunology	IIT, Ropar
Teaching in uncertain times: Opportunities and challenges	Babariyalnstitute of Pharmacy
Redefining the Role of Educator in Covid-19 Outbreak Era	GTU & Anand Pharmacy College
Comprehensive Quality Initiatives for Higher Education in PandemicEra	UkaTarsadia University (UTU)
Skill development in Pharmacy education, research, and practice	GIET School of Pharmacy
Teaching in uncertain times: Opportunities and Challenges	Jointly organised by Babaria Institute of Pharmacy, Baroda, and GTU, Ahmedabad
Post-COVID: Opportunities and Challenges	DadasahebBalpande College of Pharmacy, Nagpur
Skill Development in Pharmacy Education, Research and Practice	GIET School of Pharmacy IQAC in association with IPA, Rajahmundry
Skilling Teachers for Online Education	Department of Humanities, UkaTarsadia University
Phytomedicines Revisited post-COVID 2019	L.M. College of Pharmacy, Ahmedabad in association with GTU, Ahmedabad
Biologics: The Future of Therapeutics & Healthcare Management	SCES's Indira College of Pharmacy, Pune
Basics of Chromatographic Techniques	S.K.Patel College of Pharmaceutical Education & Research, Ganpat University
COVID 19 stark Realities & Ramifications	GTU-Graduate school of Pharmacy in collaboration with Agilent Technologies Pvt. Ltd
Advance Chromatographic solutions	Shankersinh Vaghela Bapu Institute of Pharmacy,
Career Prospects of Indian Pharmacy Graduates in	Gandhinagar
United State of America	Shri Vithal Education & Research Institute's
Current Indian Pharmaceutical Regulations & Post COVID-19	College of Pharmacy, Pandharpur, Maharashtra, India
Opportunities	School of Pharmacy, LNCT University, Bhopal
Recent Advancement in Pharmaceutical Science and Drug Development	Jointly organised by
High-Performance Thin-Layer Chromatography – Technique and Applications	Faculty of Pharmacy, The Maharaja Sayajirao University, Baroda
COVID-19: Challenges and Future Prospects of	and

## Research Publications

Year	Journals
2018-19	2
2019-20	6

## Project Grants Received

Sr.	Project title	Funding agency	Fund (INR)
1.	Topical spray to relieve menstrual pain	SSIP, Government of Gujarat.	50,000

## Patents Applied

1. Title of the invention: A novel drug delivery device for pulmonary administration of drugs in animals.

Inventors: Gohel MC, Gandhi TR, Thakkar VT, Baldaniya LH, Shah PA, Trivedi RN

Application Number: 201821002898.

2. Title of the invention: A novel pelletisation process.

Inventors: Gohel MC, Gandhi TR, Thakkar VT, Baldaniya LH, Rana HB, Dholakia MS, Omri Abdel Wahab

Application Number: 201821007502.

3. Title of the invention: An immediate-release tablet composition of telmisartan.

Inventors: Panchal Sumati A., Thakkar Vaishali T., Gandhi Tejal R., Baldaniya Lalji H.

Application Number: 202021034082.

# FACULTY OF PHYSIOTHERAPY

Faculty of Physiotherapy is Marwadi University's foray into creating the finest healthcare professionals in the country. With the support of knowledgeable academicians, superlative top management, and strong clinical practice, we are confident of making a mark in this prestigious profession. Faculty of physiotherapy Marwadi University builds professionals to play a role in health promotion and treatment of the injury. They gain in-depth knowledge of the body and how it works with specialised hands-on clinical skills to assess, diagnose, and treat symptoms of the disease, illness, and disability.

## Society Connect Activities Organised

### Visit to Sadbhavana Vridhashram

30 students were taken to visit Sadbhavana Vridhashram along with the faculties. The goal of the visit was to emphasise the role of physiotherapy in the community. All the physiological changes in the geriatric group were explained. Also, ergonomic advice and functional modifications were explained to the students. Dr. Radhika Pande and Dr. Yagnik Dave coordinated this study tour where all the geriatric conditions and their physiological changes were explained to the students. Also, different aspects of rehabilitation were explained



### Visit to Ramkrishna Ashram

30 students were taken for a study tour as a part of the orientation programme. During the visit, an introduction to the physiotherapy clinic setup and scope of the field was explained in detail. All the modalities and different equipment used in rehabilitation were introduced to the students. The pediatric rehabilitation department was also shown with an advanced setup.

## Student Participation

Co-Curricular Activities	Sports	Academic Activities
19	16	32

## English Day Celebration

The class-based activity was conducted to celebrate English day. All the 52 students were divided into groups and allotted random topics to prepare 2 minutes of talk in each group both international and national students were kept and priority was given to those students who needed help for spoken English.

## World Physiotherapy Day 2020 Celebrations

Online poster making competition was organised by the Faculty of Physiotherapy for its students. Active participation of students was a witness and 9 winners were selected. Their posters were shared by faculties and the official account of FoPT on their social media profiles from 1 September to 8 September, to raise awareness about physiotherapy in society. The theme for the Poster Making was different fields of physiotherapy, Covid-19, and Tele-Rehabilitation.

## Community Health Camp at Kagadadi Village

To get students familiarised with the health condition, facilities, awareness, and attitudes, and also to demonstrate the assessment of physical health problems, their assessment, and management at the community level, this camp was organised. All the faculties and students of FoPT participate in this, faculties consulted villagers approaching with their health problems are faculties managed them, while students observed and helped with tasks like measuring blood pressure and weight





# LEARNING & DEVELOPMENT DEPARTMENT

The Marwadi University offers a unique learning platform – Learning & Development Department for students, faculty members and external entities unlike most other Universities in the country.

## Motivational & Counseling Activities

### Mindfulness Session for Hostel Students

A Special mindfulness training program for hostel student to learn mindfulness exercises such as Concentration Exercises, Yoga, Pranayama & Meditation.

Total No. of Sessions	14
Total No. of Students Attended	271



### Motivational Session for 1st Year Students

A Special motivational session “UDAAN” conducted for 1st Year students during BRIDGE course. Session highlighted different traits to become successful in life.

Total No. of Sessions	12
Total No. of Students Attended	528

## Counseling Activities

A special campaign regarding how to remain stress free and positive during initial days of COVID has been launched, Campaign objective was to spread awareness about how to remain stress free, positive and also cater counseling services to students who are facing socio-psycho issues due to pandemic with HELP LINE Number.

No of Student Avail benefit of counseling	130
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Mentorship Activities at MU			
Sr No	Activity	Objective	Statistics
1	Meeting with Mentors	Support mentors by meeting them on one on one basis and share strategies for effective mentoring	122 Mentors Covered
2	Mentor – Mentee Interactions	To ensure that interaction between Mentor & Mentee happening in the university.	Total 4938 Interaction done between Mentor & Mentee
3	Best Mentoring Practices	Recognize mentors by sharing their Best Mentoring Practices across the campus	8 Mentors have been recognized for their Best Mentoring Practices

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

Training Type	L&D Department, MU	Others	Grand Total
External	-	7	7
Internal	150	-	150

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

Training Type	L&D Department, MU	Others	Grand Total
External	-	4	4
Internal	7	-	7



# DEPARTMENT OF COMMUNICATION SKILLS

Department of Communication Skills offers a wide range of courses to enrich the communication proficiency in English. The courses are designed in order to fulfill 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.

Sr.	Department of Communication Skills Activities: 2019 - 2020	Participants
1	Placement Training	1,349
2	English Training and Workshops (Online)	157
3	English Days	7,849
4	Book Talks	500
5	Sparks, students' e-magazine	36
6	Public Speaking Competitions	199
7	French Certificate Course	17
	<b>Total Number of Students</b>	<b>10,107</b>



## Student Placements & Trainings

Student Placement Department at Marwadi University works closely with Industrial Houses & Corporate to generate employment opportunities for students. Placement Team comprises of 8 members spread across the nation to cater to the needs of the organizations for placements. The Department generates placement opportunities in over 450+ companies annually. To bridge the gap, the Placement Department shares the feedback report received from the companies with concerned stakeholders for better improvement, which enhances the skills of students for better employment prospects.

## Sector-Wise Placement Offers

Sector	Companies Visited	Offers Extended
IT Sector	186	325
Manufacturing	95	87
Chemical / Pharma / Laboratories	56	74
Banking / Insurance / Share broking Sector	37	88
Service Industry	25	13
Education	20	18
Consultancy	17	19
Construction	12	10
Food & Beverages	8	24
Hospital	1	0
Government Organization	1	0
Fashion & Accessories	1	7

Institute Wise - Student Placement	
Institute	Students Placed
Faculty of Engineering & Technology	383
Faculty of Liberal Studies	12
Faculty of Business Management	127
Faculty of Computer Applications	102
Faculty of Science	38
MEFGI - Diploma Studies	3
<b>Total</b>	<b>665</b>

# STUDENT PLACEMENTS & TRAININGS

Student Placement Department at Marwadi University works closely with Industrial Houses & Corporate to generate employment opportunities for students. Placement Team comprises of 8 members spread across the nation to cater to the needs of the organizations for placements. The Department generates placement opportunities in over 450+ companies annually. To bridge the gap, the Placement Department shares the feedback report received from the companies with concerned stakeholders for better improvement, which enhances the skills of students for better employment prospects.

## Sector-Wise Placement Offers

Sector	
Automobile	3
B.Pharm	
BBA	4
BBA (Hons	3
BCA	53
Bcom	29
Bsc. Chem	68
Bsc. Micro	49
Chemical	52
Chemical-PG	7
Civil	23
Civil-PG	10
Computer	97
Computer-PG	13
Electrical-PG	
ICT	
Information Technology	35
MBA	82
Mechanical	28
Mechanical-PG	4
Msc. Chem	82
Msc. Maths	14
Msc. Micro	57
Msc. Physics	37

# MARWADI UNIVERSITY INNOVATION, INCUBATION & RESEARCH CENTER (MUI2 R CENTER)

Prime Minister of India has a vision that millions and millions of Indian youth should acquire the skills which could contribute towards making India a modern country. Marwadi University also wants to support the Government of India flagship programme "Skill India" and started certification courses in Automation Sector to support unemployable youth/enhancing the skill of existing employees to become skilled & employable. We believe that Education is dynamic, and as per the industry need and demand universities want to offer various certificate courses to our students to become industry responsive and readily employable. Marwadi University understands Skill Development is a shared responsibility and for that an aim to train students/unemployed youth/existing employees in different certificate programmes to enhance their skill & knowledge.

Working Areas	Skill Development, Entrepreneurship, Innovation, Incubation, Govt. Grants
New Infrastructure Establishment	<ul style="list-style-type: none"><li>• Lab setup under the IT &amp; ITeS sector with the Support of Anchor Institute DAIICT under the Govt. of Gujarat Scheme for Skill Development</li><li>• Set up MOOC Studio for online video lecture recording.</li><li>• Setting up Maker Lab at MC 102A ongoing</li><li>• Setting up First Office lab at MC 102A ongoing</li></ul>

Academic Year	2019-20
Patents Filed	3
Patents Published	2
Patents Granted	2
Design Granted	1
Copyright Granted	1
No. of Start-ups Supported	12



## Activities Organised

Sr. No.	Activities	Outcome/Achievements
1	Entrepreneurship Awareness Programme	30+ event organised and sanitised 5000+ students
2	Expert talk on Entrepreneurial Career Option	2 days Entrepreneurship conclave organised, 15 speakers motivated 500 students for their entrepreneur journey and motivated
3	University Level Hackathon (2 or 3 of the industry/Society problem)	<ul style="list-style-type: none"> <li>Smart City Hackathon Rajkot 2020 was organised to solve local problems of Rajkot Municipal corporation at the campus. 59 team, 287 students, 16 mentors, 27 jury, 65 student volunteers, 20 MU staff involved</li> <li>Smart India Hackathon 2020 organised at the campus and 80 ideas; 300 students Participated</li> </ul>
4	Sprint Workshop "How to test Big idea in 5 days"	4 days Entrepreneurial Sprint on AI & Internet-of-Things organised, 63 participants participated and Prog. conducted by Prof. Kunal Mankodiya, USA
5	IPR Awareness Programme	5 IPR awareness programme organised and sensitised 1400+ students
6	Prototype Building Workshop (3 D Printing)	3 Programme organised and participated 150 students
7	Prototype Building Workshop (Laser Cutting)	3 Programme organised and participated 150 students
8	Prototype Building Workshop (PCB Designing)	1 Programme organised and participated 50 students

## Activities organised to Identify, Develop & Commercialise Student's Innovative Ideas

Sr. No.	Activities	Outcome/Achievements
1	Idea Generation-Brainstorm product issues	Organised 15 days Entrepreneurship Development Programme where all the topics covered by the 14 experts in 24 session
2	New product development strategy	
3	Idea Screening	
4	Innovation support	
5	New product concept development	
6	Rapid Prototyping	Domain-specific technical experts are invited from time to time to talk on their technological startup journey and further guidance
7	To develop and test concepts in a rapid way for a low cost	
8	Collaborative and digital design tools and rapid prototyping Business analysis of new products	
9	Business analysis of new products	Prototyping lab equipment and tools usage explained and guide for the working model development
10	New product prototypes and market testing	
11	The initial introduction of a product or service to it's mass production and adoption	

# FINISHING SCHOOL - IT & ITES SECTOR AT MARWADI UNIVERSITY

Five years ago, the management of Marwadi Education Foundation began considering the possibilities of setting up a finishing school that would essentially bridge the gap between academia and industry. This novel idea turned into reality after the grant of Rs. 50 Lakhs was approved by the Department of Science & Technology, Gujarat. Right from lab establishment, procurement of computer systems & other peripherals, the formation of the syllabus, reaching out to relevant industry for collaboration, only the bests have been considered. We, at The Finishing School, invite the youth of the region to get benefitted by associating themselves with it.”

Finishing School (FS) has been established to impart career-focused technical education amongst the youth of the region. The initiative has received funding support from the Department of Science & Tech (DST), Gov. of Gujarat. Finishing School will provide the necessary technical knowledge to create skilled IT professionals and open up more placement opportunities for them.

Finishing School for IT/ITES consists of three labs that include:

- An Advanced Technology lab with 62 superfast systems.
- An iOS lab with 20 Apple iMac systems
- A Machine Vision Research lab for conducting advanced research experiments, Internet of Things (IoT) – RaspberryPI, Board, Sensors, Home Appliances, etc.

## Courses Offered under Finishing School

Sr. No.	Title of Course	Teaching Hours
1	Big Data Hadoop – HBase, Pig and Hive	35 Hours
2	Cloud Computing	80 Hours
3	Data Analytics - R Programming	50 Hours
4	iOS Application Development	130 Hours
5	Machine Vision	60 Hours
6	Mobile Application Development using Android	90 Hours
7	Oracle Database Administration	80 Hours
8	Programming with Java	80 Hours
9	Essentials of Visual Modeling with UML 2.0 & IBM Rational Software Architect (RSA)	60 Hours
10	Game Development	40 Hours
11	Internet of Things	70 Hours
12	PHP	120 Hours
13	Object-Oriented Programming with C#.NET and Web Application Development with ASP.NET	180 Hours
14	Tally	100 Hours
15	Amazon Web Series	36 Hours

## Finishing School Deep-Dive Training

Finishing School provides training to the students of MU as well as nearby colleges for the latest technologies and most demanded skillsets at a very nominal cost. The workshops aim at enhanced employability through skill development. It provides in-depth knowledge about the technology or tools through a hands-on training session where students will work with the trainers on practical assignments. The training modules are of two types; a regular module for the duration of 35 to 50 hours and fast-track modules for 20 to 25 hours. For our University toppers, it is provided free of cost, and for students who secure 2nd to 10th rank in academics, we provide them 50% scholarship.

Sr. No.	Programme	Date	Duration	Trainer	No of Participants
1	Advanced Android	29-Jun-19	20 hours	Prof. Maulik Parekh	8
2	Ethical Hacking	17-Jul-19	20 hours	Mr Krishna Sharma	32
3	iOS (L2 - B2)	10-Aug-19	35 hours	Mr Sanket Chauhan	7
4	iOS (L1 - B6)	26-Sep-19	35 hours	Mr Sanket Chauhan	11
5	Android Programming	05-Dec-19	40 hours	Prof. Maulik Parekh	9
6	Tally Deep Dive Training	15-Feb-20	25 hours	Dr Kalpesh Popat	11
7	Social Media Marketing & Advertisement	15-Feb-20	50 hours	Mr Sanket Andnani, Social Circuit Pvt. Ltd., Rajkot	19

## Finishing School Deep-Dive Training

The Finishing School parallel curricular training is an initiative that aims to make future-ready IT professionals by providing the skill-based courses paralleled with their regular academics. For the same every year programme coordinator and HoD analysis the syllabus and identifies the most significant skills. Once this exercise is done, the semester wise training list will be prepared. According to the list, Finishing School coordinators will carry out the training. The details of these training are provided in the table below;

Sr. No.	Programme	Date	Duration	Trainer	No of Participants
1	BCA & BCA (Hons) [Sem- 1, batch 2019-23] 1-day workshop on Designing Tools	31/08/19	6 hours	Mr. Rohin Shah	45 out of 60
2	BCA & BCA (Hons) [Sem- 1, batch 2019-23] 1-day workshop on Designing Tools	14/09/19	6 hours	Mr. Rohin Shah	45 out of 63
3	BCA & BCA (Hons) [Sem- 4, batch 2018-22] 1-day workshop on Advanced Excel	30/11/19	6 hours	Prof. Kalpesh Popat	18 out of 42
4	BCA & BCA (Hons) [Sem- 4, batch 2018-22] 1-day workshop on Advanced Excel	07/12/19	6 hours	Prof. Kalpesh Popat	18 out of 47
5	BCA & BCA (Hons) [Sem- 4, batch 2018-22] 1-day workshop on Tally	14/12/19	6 hours	Prof. Prachi Gadhiya	37 out of 42
6	BCA & BCA (Hons) [Sem- 4, batch 2018-22] 1-day workshop on Tally	21/12/19	6 hours	Prof. Prachi Gadhiya	33 out of 47
7	BCA & BCA (Hons) [Sem - 2, batch 2019-23] 1-day workshop on Dreamweaver and Web Hosting	07/03/2020	6 hours	Siddharth Jogia & Ashish Bhandari from RK Infotech, Rajkot	70 out of 73
8	M.Sc. (Cyber Security and Cyber Law) Sem-2 Networking Workshop	08/01/2020	36 hours	Aim Career Solution	5 out of 5

## Finishing School Seminar Series

Finishing School provides some free seminars on the latest technologies and most demanded skill sets. These seminars are for all the students of MU as well as other nearby colleges of Rajkot. Experts come from the industries or from our selected resource team to deliver the sessions. The seminar aims at providing basic knowledge about the technology or the field, details about skill and its importance for enhanced employability, and a live demo of its real-time implementation. The seminars are generally 1 to 2 hours.

Sr. No.	Programme	Date	Duration	Trainer	No of Participants
1	Tally	21/12/19	2 hours	Dr. Kalpesh Popat	33
2	Social Media Marketing	03/01/2020	2 hours	Mr. Sanket Andnani, Social Circuit Pvt. Ltd., Rajkot	40
3	Social Media Marketing	08/01/2020	2 hours	Mr. Sanket Andnani, Social Circuit Pvt. Ltd., Rajkot	28



# LEARNING RESOURCE CENTRE

Library - Learning Resource Centre of the University, Specialist collections, use of up-to-date technology, and a team of enthusiastic and dedicated staff all combined to form a library which serves the users of the Marwadi University as well as contributes towards the research needs of the institution, and is one of the best ICT equipped academic libraries in the region.

- Fully equipped with RFID (Radio Frequency Identification Device) Technology
- Specially devised and designed Self KIOSK for Self-Check-in & Check out
- Self-Kiosk equipped with Face recognition and fingerprint.
- Along RemoteXs subscribed eJournals, eBooks and all other eContent, that too anytime from anywhere
- E-Resource Lab having 60+ computer systems with the latest configuration to assist with online research and resources
- Specially devised and designed Mobile Application having features of; Intimation, Alerts, History, Account Status, and Books search facilities
- Connected with other libraries and resource centers to retrieve information resources worldwide
- Separate Study rooms and discussion rooms
- Additional Transportation facility for special Late Evening & Sunday for Library users

## Facilities Established

Floor	Details
<b>Ground Floor</b>	Lending Collection (Including Textbooks, General and Competitive exam collection, Special collection Gujarati Collection, etc.) Special Collection Print Journals and Magazine Section Newspaper Section Faculty Publication Display Self-Kiosk OPAC – 12 systems Computer Lab – 20 Systems Technical processing room with the storage facility Seating Arrangement for Readers
<b>First Floor</b>	Computer Lab Discussion Rooms Sitting Arrangements
<b>Sixth Floor</b>	Reference Collection Print Journals and Magazine Section Newspaper Section Faculty Publication Display Self-Kiosk OPAC – 6 systems Computer Lab – 24 Systems Discussion Rooms Seating Arrangement for Readers
<b>Sixth Mezzanine Floor</b>	Seating Arrangement for Readers (Provide different sitting for reader comfort)
<b>Law library @ Building No. 8</b>	Law Books Collection Law Special Collection (AIR Manuals and Bound Volumes) Computer Facility Sitting Arrangement Circulation Counter

## Library Usage During the Year

Sr.no.	Collection for	Total
1	Print Journals and Magazines	190
2	Daily Newspapers	30

Special Devices		
1	Kindle Devices for Circulations	15
(2Lac+ eBooks subscription for Kindle Device)		

## Subscribed e-Resources

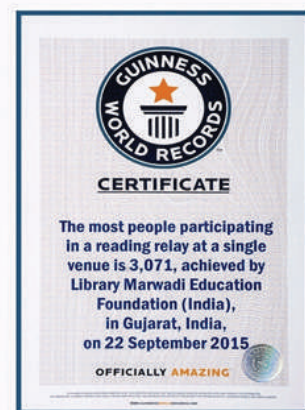
Sr.No	Title
1	IEEE
2	ASME
3	ASCE
4	Manuputra
5	EBSCO – eBooks collection
	(5Lac. + eBooks collection)
6	IET Digital Library –
	(400+ eBooks collection)
7	Raxter
8	Turnitin Plagiarism Detection Software
9	Urkund Plagiarism Software Provided by MHRD
10	Grammarly

## Books Added in the year 2019-20

Title	Volume	Total	Expenditure (INR in Lakhs)
<b>944</b>	<b>1464</b>	<b>2408</b>	<b>12.78</b>

## Special Achievement

Library of Marwadi Education Foundation's Group of Institutions, Rajkot has recently got a place in Guinness World Record after successful completion of record attempt for relay reading which was executed under the title "Most People participating in a Reading Relay - Single Work." "Gandhiji's Autobiography: My experiments with Truth". 3071 students and staff participated and read the aforesaid autobiography in relay successfully. The record attempt started at 8:00 am on 22nd September 2015 and lasted till 6:30 pm. Guinness World Record authority has recently approved the record and declared MEFGI Library as Guinness World Record Holder. More details are available on the official website of Guinness World Record.



## Activities Organised to enhance Industry-Academia Interaction

Sr. No.	Activities	Outcome/Achievements
1	Awareness Programme for NewGen IEDC Scheme with the Industry/Institute	<ul style="list-style-type: none"> <li>Awareness Programme organised with inviting experts from Accuprec Research Labs Pvt. Ltd. and Anand College of Pharmacy at the Campus</li> </ul>
2	Workshop on Academia-Industry Collaborations	<ul style="list-style-type: none"> <li>Organised Workshop on startup by Digital Impact Square, TCS initiative</li> </ul>
3	Entrepreneur/Startup Internship work at Industry/Institute	<ul style="list-style-type: none"> <li>Students registered under the NewGen IEDC project have completed internship work related to their product/process/service to know better technology and further usage in their prototype development.</li> </ul>
4	Resource sharing collaboration with Industry/Institute	<ul style="list-style-type: none"> <li>DAIICT, Gandhinagar for Startup Mentorship Support</li> <li>Education Department, Govt. of Gujarat for resource sharing of mentorship, hackathon, Maker lab development</li> <li>Wearable Biosensing Lab, the USA for Start-up Mentorship and technology guidance</li> </ul>





# PHYSIOTHERAPY RESEARCH & REHABILITATION CENTRE

Faculty of Physiotherapy has established and developed a very advanced Physiotherapy Research and Rehabilitation Centre in the heart of Rajkot city in March 2019 with the collective efforts of the entire faculty from the department. The physiotherapy center is well equipped with all advanced electrotherapy instruments and provides the services with high concession rates to the patients and many patients take the benefits of the same.

Month	No. of Patients	Income (Rs.)
March. 20	27	1750
April. 20	-	-
May. 20	35	1550
June. 20	64	3200
July. 20	125	6200
August. 20	81	3900
September. 20	127	6200



# INTERNATIONAL RELATIONS

The International Relations Office at Marwadi University essentially operates in two major functions One Collaborating with Foreign Universities and facilitates funded as well as non-funded Students & Staff Exchange programmes. Monitor opportunities for Research & Development with foreign as well as national funding agencies. The second major function is international students' assistance & welfare, wherein all assistance related to incoming international students as soon as they arrive in India is coordinated. This includes assistance to students to comply with legal formalities like FRRO a critical procedure to validate a foreigner's long-term stay in India.

## International Collaborations

Name of the University	Country
1. University of Dunaujvaros	Hungary
2. Damascus University	Syria
3. Syrian Private University	Syria
4. the University of Brasilia,	Brazil
5. Coimbra Group of Brazilian Universities	Brazil
6. Tribhuvan University	Nepal
7. Siauliu University	Lithuania
8. Budapest University of Technology & Economics	Hungary
9. Szechenyi Istvan University, Gyor	Hungary
10. Obuda University	Hungary
11. Technical University of Ostrava	Czech Republic

## Visit of International Delegations to Marwadi University

Name of Official	Name of University/Organisation coming from	Purpose/Lecture details
Prof. Dr. Zdzislaw Polkowski	Jana Wyzykowskiego University, Poland	Visiting Professor for Computer Engineering
Prof. Dr. Anthony Maciejewski	Colorado State University, USA	Expert lecture in Robotics
Prof. Dr. William Oakes	Purdue University, USA	Expert lecture in Experimental Physics and Industrial Control System
Prof. Dr. Remigijus Bubnys	Siauliu University, Lithuania	Institutional cooperation
Dr. Nirmal-Kumar Nair	University of Auckland, New Zealand	Expert lecture on Protection and Safety on Power Systems with Highly Renewable Distributed Energy Resources
Prof. Dr. Andrzej Trochimzuk	Wroclaw University of Science & Technology, Poland	Expert Lecture on Polymers
Prof. Dr. Elzbieta Wojaczynska	Wroclaw University of Science & Technology, Poland	Expert Lecture on asymmetric synthesis
Ms. Karolina Farbizewska & Ms. Maria Borkowska	Wroclaw University of Science & Technology, Poland	Informative sessions on International Summer School at Wroclaw University of Science & Technology



## International Visits by Officials of Marwadi University

Name of Official from MU	University/Organisation Visited	Purpose/Lecture details
Prof. Dr. R.B. Jadeja And Prof. Dr. Rajesh Patel	Hungary Rectors Conference, Hungary	To attend the XXI Century International Higher Education Conference
Prof. Dr. R.B. Jadeja	Lodz University of Technology, Poland	Erasmus+ Staff mobility visit week
	Budapest University of Science & Technology, Hungary	To discuss areas of collaboration and cooperation with Marwadi University
	Obuda University, Hungary	
	Szechenyi Istvan University, Hungary	
	Slovak University of Technology, Slovakia	
	Technical University of Ostrava, Czech Republic	

## Student Exchange Programmes Initiated

Name of University Visited	Country	MU Department	No. of Students Participated
Lodz University of Technology	Poland	Computer Engineering, IT Engineering, Civil Engineering, and Physics	14 UG Level
Wroclaw University of Science & Technology	Poland	Chemical Engineering	01 Diploma
Lodz University of Technology	Poland	ICT	01 PhD
Technical University of Kaiserslautern	Germany	ICT 6, Mechanical Engineering 3, Automobile 2	11 UG



# MARKETING AND OUTREACH ACTIVITIES

The Outreach Department consists of Outreach and Development and Branding and Communication. As a part of increasing the presence and visibility of Marwadi University across the globe, we engage and participate in exhibitions and initiatives undertaken by the Government of India as well as the Government of Gujarat to promote educational institutions.

## Participation in Study in India programme, initiated by MHRD-Govt. of India.

The Study in India programme promoted by FICCI and EDCIL under the MHRD provides scholarships to deserving students across the world. We took part in multiple exhibitions in Indonesia, Vietnam, Zambia, Mozambique, Tanzania, Srilanka, Mauritius Ethiopia, Kenya, etc



## International Visits by Officials of Marwadi University

In 2019 the Government of Gujarat initiated the STUDY IN GUJARAT Scheme to highlight the Quality Educational Institutions in the state of Gujarat. This started with road-shows across the country as well as different countries in Africa and the Middle East. We are proud to say that MU was a premier partner of the Govt of Gujarat in Study in Gujarat and was the host university in Mozambique and Uganda.



## International Visits by Officials of Marwadi University

### Participation in National & International Road Shows

#### National

Sr. No.	Date	City
1	20-Jan-20	Guwahati
2	21-Jan-20	Indore
3	28-Jan-20	Patna
4	28-Jan-20	Ranchi
5	29-Jan-20	Hyderabad
6	31-Jan-20	Nashik

#### International

Sr. No.	Date	City
1	17-Feb-20	Uganda
2	13-Feb-20	Kenya
2	20-Feb-20	Zimbabwe
3	24-Feb-20	Mozambique

## National & International Webinars

Multiple Webinars were conducted in various countries and different states of India to promote and counsel students for career guidance by experts of various faculty of Marwadi University. Over 2000 students across the country have engaged with our institution on different platforms.

## 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

## Short Term Skill Based Job Oriented Courses

Initiated by Dr. Y P Kosta, Provost-Marwadi University, short term skill-based job-oriented courses focused on providing and training the high-school dropouts by providing key skills demanded by the industry for employability. The outreach team visited more than 10 nearby villages and engaged the village elders, parents, and students to make them understand the importance of the courses being offered by the University.

- Total Industry Visited – 35 (Shapar and Metoda)
- Total Courses – 16
- Total Job Created – 300+
- 4 CGS

1. First Batch – 30 December to 11 January 2020
2. Student – 13
3. Placed for Job – 11 Students out of 13

Ribad	Dholra	Piplana	Bharudi	Rataiya	Vagudad
Virva	Kangsiyali	Mungavavadi	Khirsara	Ishvariya	Devda
Padavala	Pipaliya	Kothariya	Vajdi	Balsar	Anadpar

## Social Media Presence

### Facebook

Followers	2,66,816
Avg. Post Reach	176,903
Pageviews	917
Avg. Video Views	11,727
Post engagements	11,194
New Page likes	690

### Instagram

Followers	18,657
Following	9
Reach	119,900
Impressions	216,104
Avg. Video Views	4,453

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# PART 3

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- Technical Events
- Financial Statement

# TECHNICAL EVENTS

## IEEE - INDICON 2019

Marwadi University is governed by its statutory bodies, formed as per the provisions stated in the Gujarat Private Universities Act No. 8 of 2009. Statutory bodies function to, review and approve from time to time, the policies, plans & procedures and suggest measures for improvement and development of the University

The 16th IEEE INDICON 2019, a flagship annual International Conference of IEEE India Council was organised by IEEE Gujarat Section and hosted by Marwadi University during 13-15 December 2019 with the THEME: "Application of Artificial Intelligence in Engineering for Prosperity and Betterment of Humanity".

A total of 611 submissions were received mostly from Academia (86.3%), Government (4.1%), Industry (2.5%), and Research Facility (4.6%), of which 209 were presented during the Conference with an acceptance ratio of 34%. There were 18 tracks including 14 Regular tracks, 3 Focused Sessions, and 1 M V Chauhan Students Paper Contest.

The Conference was privileged to have two Plenary talks:

- Prof. Toshio Fukuda (IEEE President-Elect) of Beijing Institute of Technology/Meijo University (China), Professor Emeritus, Nagoya University (Japan).
- Prof. Ravinder Dahiya (IEEE Sensors Council President-elect), Bendable Electronics and Sensing Technologies (BEST) Group, School of Engineering, University of Glasgow, UK.
- A Special Keynote talk was scheduled to excite the innovation and entrepreneurship ecosystem aspirants. The talk was delivered by Mr. Sunil Parekh, Zydus Board of Governors, Ahmedabad on the topic "India's startup Ecosystem, review, impact, prospects".
- 15 Invited Talks were scheduled in the conference based on the tracks and the number of participants in those tracks.



## Marwadi Investment Conclave 2019

Faculty of Business Management, Marwadi University successfully organized two day Marwadi Investment Conclave-2019 on 21st and 22nd September, 2019. The basic objective of the conclave was to create a platform to discuss and deliberate on the dynamics related to investment opportunities in different asset classes. The theme of the conclave was "Investing in the \$5 trillion resurgent India"- India's Economic Ascension: Investment opportunities. The conclave thoroughly discussed investment outlook of different asset classes in different tracks which includes Equity, Fixed income, Mutual Funds and other alternatives. The participants of the conclave included students, potential Investors, HNIs, Stock Brokers, Employees of Marwadi Shares & Finance Ltd and Faculties from the Departments of Marwadi University, and also students from different educational institutions. Mr. Jitendra Chandarana, Vice President Marwadi University, Mr. Anish Chandarana and Mr. Jeet Marwadi, Honourable Trustees graced the occasion.

Mr. Prakash Diwan, Director, Altamount Capital Management Pvt. Ltd delivered key note address and highlighted the different issues which significantly influenced on investment climate and stress on his speech various problems like liquidity crisis, MSME difficulties, Currency weakness, stressed corporate earnings, GST, Demonetization and others. The Event organized at PG Auditorium, Marwadi University.

The closing ceremony of the Conclave started with remarks by the Chief Guest Mr. Ketan Marwadi, President-Marwadi University. His closing Presidential address highlighted the issues facing the economy, government's response towards corrective measures. He also portrayed about demographic dividend, social reforms and their impact on positive side of the economy. He also mentioned his appreciation to the government to disclose policy issues with more diligence towards strengthen the macroeconomic environment.





# FINANCIAL STATEMENT OF THE YEAR

MARWADI EDUCATION FOUNDATION							
PROVISIONAL CONSOLIDATED ABRIDGED INCOME & EXPENDITURE ACCOUNT FOR							
THE YEAR ENDED 31.03.2020							
Expenditure	Sch. No.	Amount ₹ (in lac)	Amount ₹ (in lac)	Income	Sch. No.	Amount ₹ (in lac)	Amount ₹ (in lac)
Admin Expense	22		1,461.72	Fees	16		8,931.79
Advertisement Expense	23		464.65	Other Fees	17		266.66
Electricity Expense			268.74	Interest Income	18		56.19
Depreciation	1		1,236.31	Rent Income	19		48.73
Finance Charges	24		1,122.05				
House Keeping Expense			198.93	Misc Income	20		26.94
Library Expense			31.51	Penalty for Late Fees	21		8.58
Placement Expense			9.63				
Repair & Maintenance Expense	25		296.81				
Salary	26		3,516.23				
Employee benifit Expense	27		30.66				
Student Related Expense	28		220.07				
<u>Excess of Income Over Expenditure Transferred to the Balancesheet</u>			<b>481.58</b>				
Total			<b>9,338.89</b>	Total			<b>9,338.89</b>

