



MIT'S NEWSLETTER

VOL. 09 ♦ ISSUE 01 ♦ JANUARY to MARCH-2021

CONTENTS COVERED

Page No.

| | |
|---|-------|
| ❖ Celebrating the 72th Republic Day ----- | 1-2 |
| ❖ Institute Achievements ----- | 3 |
| ❖ PhD Awarded ----- | 3 |
| ❖ News from IQAC ----- | 3 |
| ❖ Award/Prize ----- | 3 |
| ❖ Student Counseling, Grievance Redressing & Support ----- | 4 |
| ❖ Activities Organized ----- | 4 |
| ❖ Talks Delivered Outside Institute ----- | 4-5 |
| ❖ 76th Birth Anniversary of Late His Highness Shrimant Madhavrao Scindia Ji ----- | 5 |
| ❖ Projects Undergoing ----- | 6 |
| ❖ Patent File ----- | 7 |
| ❖ FDP/STC/Workshop Attended ----- | 7 |
| ❖ NPTEL/ATAL/COURSERA/INTERNSHALA Courses Attended ----- | 7-8 |
| ❖ Book Chapter Published ----- | 8 |
| ❖ Student Club Activities Organized ----- | 8-9 |
| ❖ Entrepreneurship Development Cell ----- | 9 |
| ❖ Student's Achievements ----- | 09-10 |
| ❖ National Service Scheme ----- | 10 |
| ❖ Publications ----- | 10-11 |
| ❖ Extension Activities ----- | 11 |
| ❖ Fun Page ----- | 11 |
| ❖ Media Coverage ----- | 12 |
| ❖ Art Work ----- | 12 |
| ❖ Team Newsletter ----- | 12 |

**"Let's go invent tomorrow instead of worrying about what happened
yesterday"**

By STEVE JOBS



MIT'S-NEWS LETTER

Vol. 09, Issue 01

January-March-2021

Email. Id: newslettermits20@gmail.com

Celebrating the 72th Republic Day

The students, staff and faculty members, Secretary Scindia Engineering College Society, Er Ramesh Agrawal ji, Wish you all a very happy **72nd republic day**.

Though we have been coming to the institution right from June 2020, this is the first time that we all have assembled at one place after the COVID-19.

The republic day is celebrated because **the book by which the Indian Republic is ruled, i.e. the Indian Constitution, came into effect on 26th January, 1950, exactly 72 years ago.**

"The glory of justice and the majesty of law are created not just by the Constitution - nor by the courts - nor by the officers of the law - nor by the lawyers - but by the men and women who constitute our society".



Today, we all must salute the great scholars, freedom fighters and above all the father of the Indian Constitution, Dr. B.R. Ambedkar who have given us an excellent constitution which is inimitable and dynamic.

In today's disruptive world changes are taking place too fast. Be it on technological front or on sociological front... CHANGE has become the NEW NORMAL. This means that for the survival, we all need to change ourselves with the changing needs of the world.

Warning bells are ringing everywhere... Change or become redundant.

The clock is ticking.....Competition is getting harder by the day..

Institutions and its people both need to understand

The NEED TO CHANGE. The NEED TO ADAPT. The NEED TO ACCEPT CHANGE.

Old days and old ways are now losing relevance at a remarkably fast pace... There is a need to change our teaching methods, our attitudes and our perceptions. I am very confident that WE CAN DO IT!! When the world was on back foot, our MITS team was scoring sixers!!

The MITS fraternity has proven its commitment to the institute and its stakeholders during this difficult and devastating period by working very hard. It was a time when faculty & staff of most other institutes were "working from home". But like true warriors and brave fighters, our dedicated staff, defying the corona scare, kept attending to their duties, regularly. For this I, on behalf of the management and also on my own behalf thank each one of you, personally. I don't mind adding at this point that we all were another set of warriors to beat this pandemic.....

The result of our combined hard work reflected in many ways and the institute emerged a leader among its competitors.

The list of achievements during the COVID era is long.....

We were the first to declare our results in the state. We were able to conduct all academic activities very effectively during the pandemic times and afterwards. On-line theory and laboratory classes, mid-semester examinations, weekly quizzes, on-line internships, finishing school, students' projects &



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

dissertations, remedial classes, viva-voce, end-term examinations, six monthly review of PhD students, etc using various digital platforms. The First Year Induction Programme was also conducted on-line and received applause from one and all. We conducted our regular meetings of the Academic Council and IQAC, framed new policies, started new courses, conducted the admission process etc etc etc.

The MITS family tirelessly worked when most of the world had almost stopped. The procurement of new equipment, establishment of new labs, starting of 5 new programmes were all made possible by the TEAM WORK and joint efforts of all.

I will like to repeat the old saying here
United We Stand; Divided We Fall

Corona period has shaken the foundations of nations, societies, communities, corporates, businesses and people; rich & poor. This period will be remembered in the history of mankind... On behalf of all of you, on behalf of MITS, I want to take this opportunity to thank the almighty, the supreme power for sparing us from any big troubles. Our MITS family quite efficiently sailed through this crisis. The credit goes to the devotion and dedication of MITIANS.

TEAM stands for: T: Together E: Everyone A: Achieves M: Maximum

“Quality is not an act. It is a habit.” ~Aristotle

Quality is not a compulsion... It is a conscious choice... I am sure MITS and MITIANS, with the glorious history behind us will not like to be second to anybody in the vicinity. MITS will always chose diligence over laxity, flexibility over rigidity and quality practices over a substandard system.

The Bhagwad Geeta says that the “OUTCOME” is not in our control, but “trying our best” can be our goal. And I am very happy to say that we all did our best, in spite of various difficulties, under these crisis conditions.

For ensuring quality we all must work together for improving the branding of the institute. There is a need for people who are committed to quality, who are innovative, who have a strong feeling of belongingness towards the institute, who take initiatives, who have positive mindset & attitude, who are dynamic, who are ready to accept new work, new responsibilities and new challenges.

We all have been entrusted with the responsibility to maintain and enhance the quality of teaching and knowledge dissemination. The times demand that new methods, digital tools, MOOCs, virtual laboratories and other emerging state-of-the-art tools are employed to empower our graduates with skills that will ensure their bright future. We all must pledge once again to fulfill the commitments of a good teacher and live up to the expectations of our esteemed Chairman and the Board. Hence, not to tolerate a compromise with quality.

The institute is committed towards quality. We are committed to establish a great work culture which promotes **Meritocracy over Mediocrity**.

एक बार पुनः मैं आप सब को 72 वें गणतंत्र दिवस की हार्दिक बधाइयां देता हूँ

Finally, With Freedom in our Minds, Faith in our words, Pride in our Souls.....

Let us salute our great nation.

Jai Hind! Jai Bharat!!



Director R. K. Pandit



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Institute Achievements

U.G. Program - Civil Engineering, Mechanical Engineering and Electrical Engineering has been successfully accredited by National Board of Accreditation (NBA) for a period of 3 years (2021 – 2024), the online accreditation visit by the expert committee of evaluators was done during 19 – 21 Feb. 2021.

PhD Awarded



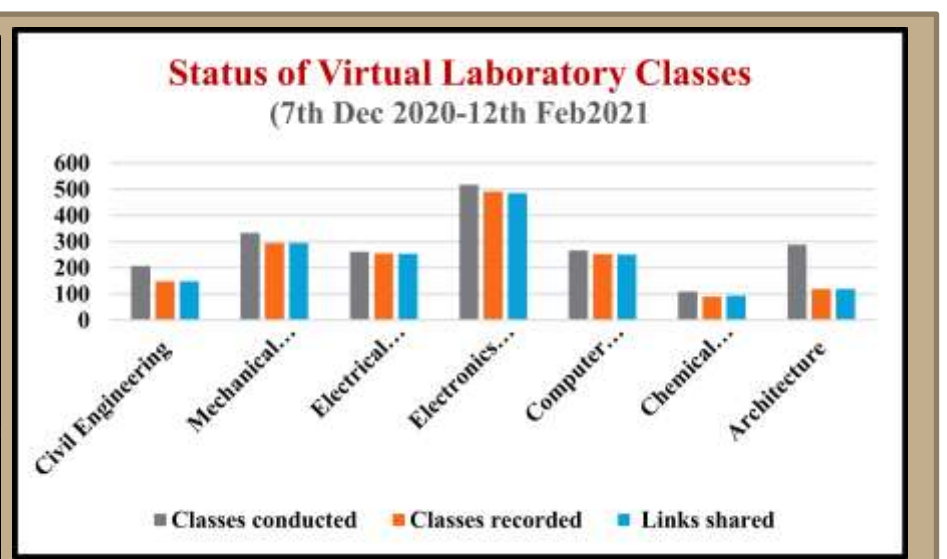
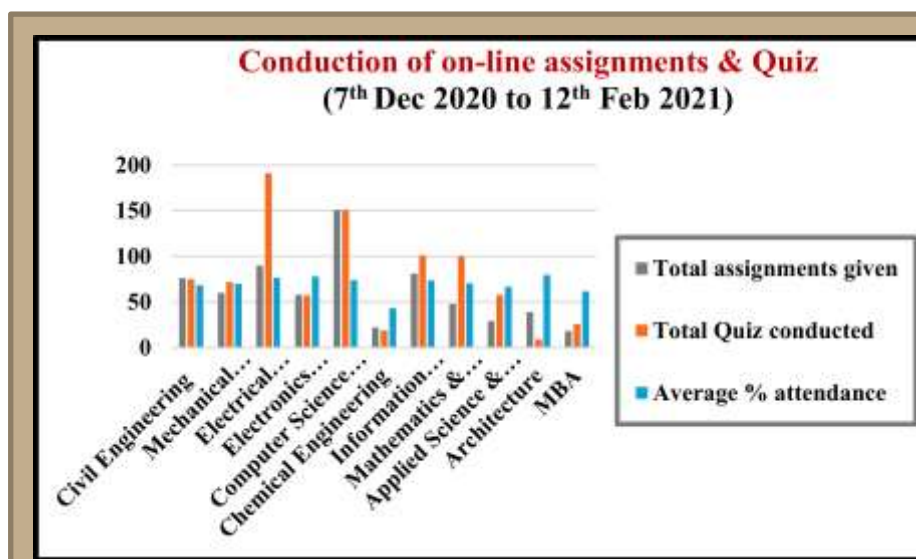
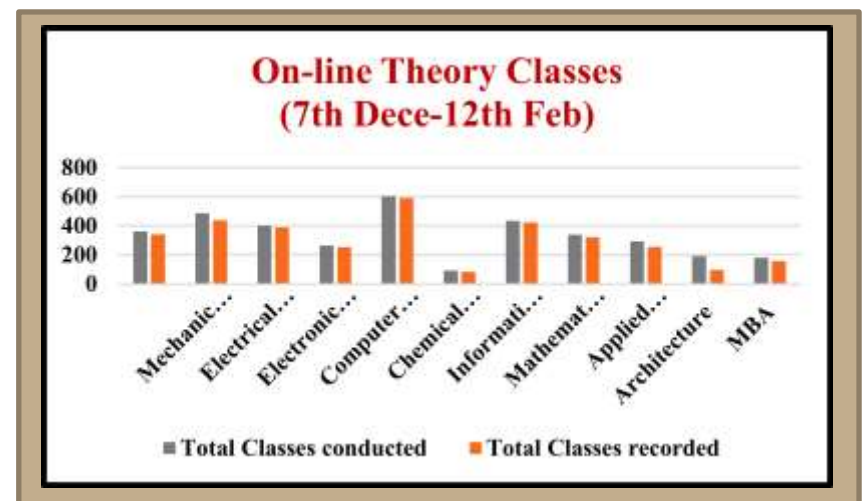
Ms. Parul Saxena has been awarded Doctor of Philosophy (Ph.D) degree under the supervision of Dr. R. S. Jadon, on the thesis title “Semantic Video Interpretation for Surveillance Using Machine Learning Technique” on 24 February 2021 from RGPV, Bhopal (M.P.).

News from IQAC

MITS has an active Internal Quality Assurance Cell (IQAC) which is constituted as per the guidelines of the NAAC (National Assessment and Accreditation Council). Quarterly meetings are conducted; the latest meeting was conducted on March 6th 2021.

Digital Teaching-Learning & Evaluation

- The institute drafted and adhered to the Digital Action Plan by customizing the PRAGYATA guidelines issued by the MHRD.
- On-line interactive classes were conducted and recorded according to schedule and then the links were uploaded on the MOODLE for ‘anytime anywhere’ learning by students, thus facilitating synchronous as well as asynchronous learning.



Award/Prize

- On MITS Day, 10th March 2021, 16 faculty & staff members were awarded with ‘Certificate of Recognition’ under different categories such as ‘Teaching-Learning’, ‘MOOC Development’, ‘Faculty Feedback Index’, ‘Development of Virtual Laboratory Content’, ‘Performance of NPTEL-Local Chapter’, ‘Administration of MITS-MOODLE’ and other similar achievements.
- Five top performing student clubs-IETE student chapter, Holistic Health Club, Art Club, Dance Club and ISTE student Chapter were awarded with a cash prize 5000/-.



Student Counseling, Grievance Redressing & Support

- The different departments of the institute conducted 18 numbers of on-line meetings with the newly admitted **First year students** for solving their various queries. Total 1008 numbers of students attended these sessions



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

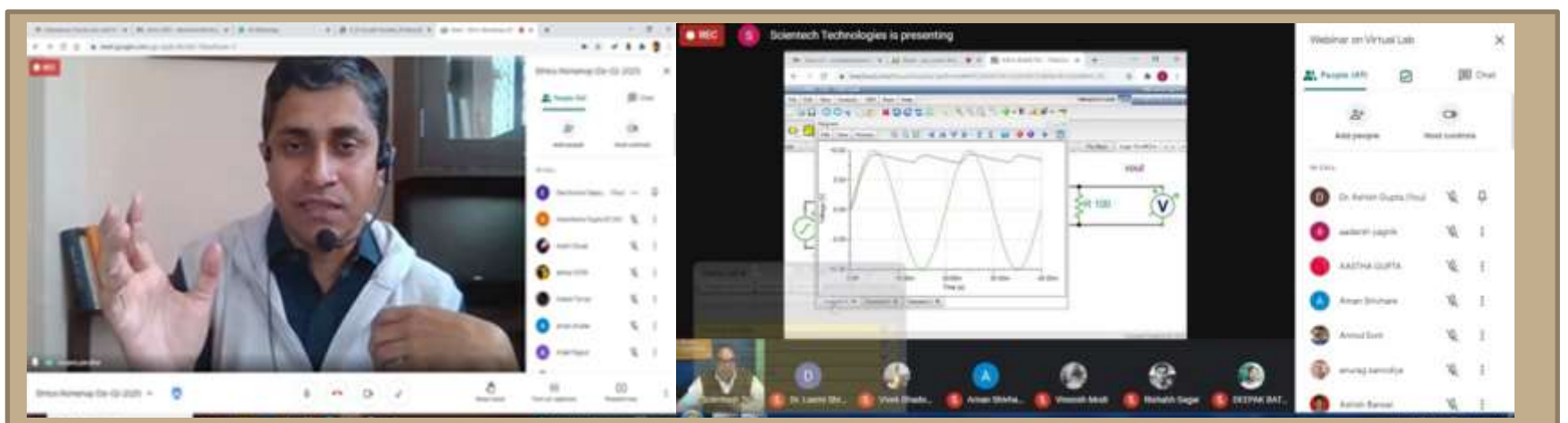
with their coordinators and faculty members. Based on the report 20 numbers of FAQs along with answers were uploaded on MOODLE.

- The **Lateral Entry students** from different Diploma Streams were admitted in the III Semester of various UG programmes. Class coordinators and faculty members helped and provided additional supported to these students. Total 07 meetings were conducted on-line which were attended by 51 students out of the 60 admitted.
- **One-day orientation programme** was conducted in each department at the beginning of the semester in January to brief the students about the provisions of the various provisions of the curriculum, internships, projects, outcome based education, remedial class mechanism etc.



Activities Organized (Workshop/Conference/FDP/STC/Expert Talk)

1. The IQAC of MITS organised interactive national workshop series in collaboration with Manav Rachana University, Faridabad, Haryana on "**Transition from traditional to blended learning: Challenges & Opportunities-I & II**" on 23rd & 30th January 2021. Resource persons: **Prof. R.K. Singh**, Faculty of Commerce & Business, Delhi School of Economics, University of Delhi, **Prof. I.K. Bhatt**, Vice Chancellor, Manav Rachna University, Faridabad, Haryana & Prof. Geeta Thakur, also from Manav Rachna University.
2. Department of Computer Science & Engineering is organizing an online two day national workshop on "**Recent Trends in Image Processing and Security**" in Collaboration with Delhi Technological University, Delhi, under TEQIP –III during 19th to 20th Feb 2021.
3. Two days' workshop (online mode) on "**Ethical Hacking- 2K21**" by Abhigyanam Abhikaushalam student's forum (AASF) in collaboration with IOT club. 13th March and 14th March 2021
4. Department of Electronics Engineering organized an online one day Seminar on "**Optical Networking for Computing applications**" on 26 Feb, 2021. Ms. Arpita Singhal coordinated the program. Total 58 participants across the country have successfully attended the program. Dr. Amritanshu Pandey, Associate Professor, IIT BHU was the expert speaker share their views during their session.
5. Department of Electronics Engineering organized an Online One Day Workshop on "**Importance of Ethics and Moral Values**" on 05 Feb, 2021 under TEQIP-III. Dr. D. K Parsedia coordinated the program. Total 39 participants have successfully attended the program. Dr. Gourakh Parulkar, MD, DNB & Pathologist, Harda was the expert speaker share their views and experiences during the session.



6. The department of Architecture organised a series of lecture on **Research Imperatives and Academic writing** on 6th March 2021. Experts from leading institute such as IIT Bombay and SPA Bhopal were called and they gave presentations and lectures on Research Methodology.

Talks Delivered Outside The Institute

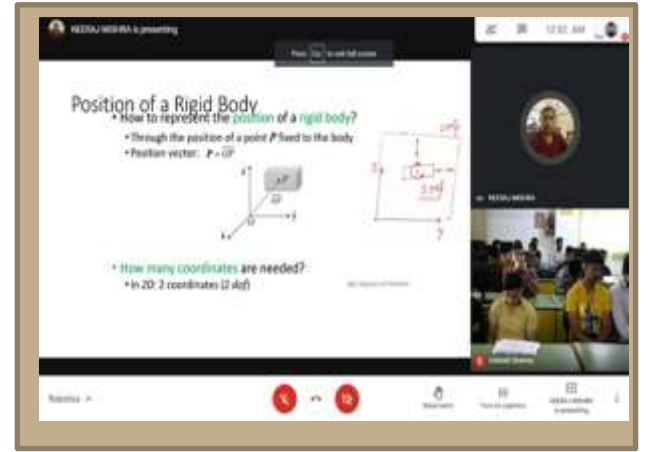
1. **Dr. Manjaree Pandit** department of Electrical Engineering, Delivered two expert talk sessions on "**AI Based Hybrid Optimization Algorithms**", FDP on "**AI Techniques for Solving Engineering Problems**", on 24th February 2021 organised By Department of Electrical engineering, UIT, RGPV Bhopal under the AICTE-RGPV Joint Teachers Training Program (TTP) from 22nd to 25th February 2021.



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

2. **Mr. Neeraj Mishra** delivered an expert lecture on “**Spatial Representation of Rigid Bodies**” on March 25, 2021 in a two-day workshop titled “**ROBOTRIX 2.0**” Organized by ROBO CLUB, Department of Mechanical Engineering, Panipat Institute of Engineering & Technology.
3. **Dr. Laxmi Srivastava** department of Electrical Engineering has delivered expert talk on 25 February 2021 at AICTE-RGPV TTP Title: “**Application of AI Techniques for Solving Engineering Problems**” Program Schedule: 22nd Feb to 27th Feb 2021 Conducted By (Host Institute): UIT-RGPV.
4. **Dr. Manjaree Pandit**, department of Electrical Engineering has delivered expert talk on 24 February 2021 AICTE-RGPV TTP on:- Title: “**Application of AI Techniques for Solving Engineering Problems**” Program Schedule: 22nd Feb to 27th Feb 2021 Conducted By (Host Institute): UIT-RGPV
5. **Dr. A .K .Wadhvani** department of Electrical Engineering has delivered expert talks on 17 March 2021 & 19/03/2021 AICTE-sponsored FDP on “**Trends for Industry 4.0 beyond 2020 perspective Title 1: “End of COVID-19 using Astrological Aspects & Fuzzy Rules”, Title "Real Time Data Acquisition & Signal Conditioning of Machine in Industries using AI & IoT"**” Program Schedule: 15th March to 20th March 2021 Conducted By : Department Of Electronics Engineering, JC Bose University of Science & Technology, YMCA Faridabad
6. **Dr. A .K .Wadhvani** department of Electrical Engineering has delivered expert talk on date 17 February 2021, Webinar on “**Towards a more Holistic & Multidisciplinary Education through NEP2020**”, under TEQIP-III at GEC Bilaspur
7. **Dr. A .K .Wadhvani** department of Electrical Engineering has delivered expert talk on two days National Webinar on “**NEP2020: Technology Use & Interaction**”, Date 18-19 February 2021 Under TEQIP-III, Vishavvidyalaya Engineering College, Lakhanpur
8. **Dr. A .K .Wadhvani** department of Electrical Engineering has delivered expert talk on Date 04 January 2021-08 Janu 2021, TEQIP-III sponsored one week FDP on “**Solar & Smart Grid Technology SSGT-2021**” at RTU Kota “Role of Fuzzy Logic in Rural Electrification Using Solar Energy”, on 06 January 2021 & “AI Applications in Solar Energy”, on 07 January 2021.
9. **Dr. A .K .Wadhvani** department of Electrical Engineering has delivered expert talk in two week FDP on “**Future Trends in Renewable Energy**”, organized by LNCT Group Bhopal Under AQIS, AICTE Title of the talk: “Role of Fuzzy Logic in Rural Electrification using Solar Energy” on 20 February 2021.
10. **Dr. A .K .Wadhvani** department of Electrical Engineering has delivered expert talk on “**Role of AI in present Secnario**”, 25 February 2021, GEC Bilaspur
11. **Dr. Shishir Dixit** department of Electrical Engineering has delivered expert talk on Date: 19 January 2021 AICTE Training Learning (ATAL) Academy Cell on:- Title: “**Green Technology & Sustainability Engineering**” Program Schedule: January 19-23, 2021 Conducted By (Host Institute): Gautam Buddha University, Greater Noida
12. **Prof. Saurabh Kr Rajput** department of Electrical Engineering has delivered expert lecture in “**DST Sponsored Solar Technology Based Entrepreneurship Development Programme (TEDP)**” at Sri Vishwakarma Skill University on topic “Economic Analysis of 25 kWp Rooftop Solar PV System”.
13. **Dr Jyoti Vimal**, department of Mechanical Engineering, chaired a session in the International Conference on **Advances in Materials, Mechanics, Mechatronics and Manufacturing** held online during March 06-07, 2021.
14. **Prof. D. Rastogi** department of Civil Engineering delivered expert talk on “**Water Conservation Techniques**” on 22 March 2021 during World Water Day Celebrations organized in association of IWWA Gwalior Centre and IEI centre Gwalior.
15. **Prof. D. Rastogi** department of Civil Engineering delivered expert talk on “**Traffic Awareness**” on 25 March 2021 during Rural NSS Camp at Swami Vivekananda Needam, Gwalior.



76th Birth Anniversary of Late His Highness Shrimant Madhavrao Scindia Ji



दिनांक १० मार्च २०२१ को कैलाश वासी स्व महाराज माधवराव सिंधिया जी के ७६ वे जन्मदिवस पर संस्थान में पुष्पांजलि कार्यक्रम के साथ साथ एम आई टी एस दिवस के उपलक्ष्य में निः शुल्क स्वास्थ्य परीक्षण शिविर का आयोजन किया गया। इस कार्यक्रम में सिंधिया एजुकेशन सोसायटी के बोर्ड ऑफ गवर्नर्स के सदस्य श्री प्रशांत मेहता, सचिव इंजिनियर रमेश अग्रवाल, संस्थान के निदेशक डॉ आर के पंडित और बिरला इंस्टिट्यूट ऑफ मेडिकल रिसर्च ग्वालियर के पदाधिकारी और डॉक्टर्स उपस्थित रहे तथा सभी फेकल्टी और स्टाफ ने विशेषयज्ञों से परामर्श लिए।



Projects Undergoing

| S.N | FACULTY | AGENCY | TITLE | STATUS |
|-----|------------------------------|--------------------|---|---------|
| 1. | Dr. M.K.Gaur | AICTE NEW DELHI | Performance Investigation of Solar Thermal system for sustainable Built Environment | Ongoing |
| 2. | Dr. C.S. Malvi | TEQIP-III | Combined power and heat generation through solar panel using phase change material | Ongoing |
| 3. | Prof. Vedansh Chaturvedi | TEQIP-III | Design of Electrodes shade for optimization of ECM process parameters using hybrid Taguchi method for rotational jobs | Ongoing |
| 4. | Prof. Vaibhav Shivhare | TEQIP-III | Experimental Analysis of Human Lumbar Vertebrae during prolonged sitting and distance Driving. | Ongoing |
| 5. | Dr. Amrat Kumar Dhamneya | AICTE TEQIP-III | Performance Enhancement of solar Distillation systems using nanoparticles | Ongoing |
| 6. | Dr. Dharmendra Jain | AICTE TEQIP-III | 3D Modelling & Finite Element Analysis of Biostructure from CT Scan & MRI Data | Ongoing |
| 7. | Dr. Naresh Kumar Raghuwanshi | AICTE TEQIP-III | Analysis and control of noise pollution in hospitals | Ongoing |
| 8. | Mr Neeraj Mishra | AICTE TEQIP-III | Design and Development of Portable Gnatho-dynamometer | Ongoing |
| 9. | Dr. Pankaj Kumar | CRS Project | Nonlinear Mechanics of Elasto-Flexible Cables using Placement Model. | Ongoing |
| 10. | Dr. Pratesh Jayaswal | AICTE | Skill and Personality Development Program for Centre of SC/ST Students | Ongoing |
| 11. | Dr. C.S. Malvi | AICTE | Modernization of Theory of Machine Lab | Ongoing |
| 12. | Dr. Naresh Kumar Raghuwanshi | AICTE TEQIP-III | Analysis and control of noise pollution in hospitals | Ongoing |
| 13. | Dr. Manoj Trivedi | IRS TEQIP3 | Multi-objective optimization using NSGA III | Ongoing |
| 14. | Dr. Manoj Trivedi | RPS AICTE | Development of optimum front for Time-Cost trade-off for construction | Ongoing |
| 15. | Dr Valiur Rahaman | AICTE-NPIU CRS | Cognitive Literary Studies for the Progress of Computational Cognitive Modeling: A Humanities Approach to Technological | Ongoing |
| 16. | Prof. Aditya Kumar Agarwal | TEQIP – IRS | Development of rationalized Water Quality Index | Ongoing |
| 17. | Dr. Laxmi Shrivastava | TEQIP – IRS | Stress detection using EEG Signal | Ongoing |
| 18. | Dr. Vandana V. Thakare | TEQIP – IRS | Design & Analysis of High Gain Dual Polarized Base Station Antenna Array for 4G/5G Applications | Ongoing |
| 19. | Dr. Karuna Markam | TEQIP – IRS | Design of High Speed Non Volatile Memristor based SRAM Cell for Cache memories | Ongoing |
| 20. | Prof. Madhav Singh | TEQIP – IRS | IoT wireless sensor Network for air monitoring | Ongoing |



Patent File

- ❖ **Dr. Jyoti Vimal** from Mechanical Engineering Department filed a patent on “**An Intelligent Electric Moving Machine (IEMM) Embedded System**” with Application number: 202011057348 on date of publication 08 January 2021.

FDP/STC/Workshop Attended (Outside the Institute)

- **Prof. Amit Kumar Manjhvar** department of CS/IT attended online short course on **Data Sciences and Analytics** during January 11-23, 2021 at Indian Institute of Technology Gandhinagar.
- **Prof. Amit Kumar Manjhvar** department of CS/IT attended one-week online faculty development programme on “**Next Generations System: Artificial Intelligence and Machine Learning**” Under TEQIP-III at SATI vidisha from 08 to 12 Feb 2021.
- **Dr. Prabhakar Singh Bhadouria** from EDC participated in the **Global Entrepreneurship Summit** 2021 at IIT Kharagpur from date 25 Feb to 28 Feb 2021.
- **Dr. Manjaree Pandit** department of Electrical Engineering attended National Awareness Workshop on “NIRF India Rankings 2021 for Higher Educational Institutions, 18 & 19 Jan 2021 conducted by Institute of Academic Excellence, Hyderabad under the Aegis of Government of Telangana.
- **Dr. Manjaree Pandit** department of Electrical Engineering attended orientation Webinar on “Outcome Based Education and Accreditation for Program Evaluators (PEVs)”, 01st Feb. 2021.
- **Dr. A .K .Wadhvani, Dr. Sulochana Wadhvani, Dr. Shishir Dixit Prof. Vishal Chaudhary,** department of Electrical Engineering attended Workshop on “**Transition from traditional to blended learning: Challenges & Opportunities-II**” Jointly organized by IQAC-Madhav Institute of Technology and Science, Gwalior & Manav Rachna University, Faridabad, Haryana from 23rd to 30th Jan 2021.
- **Prof. Ashis Patra** department of Electrical Engineering attended workshop at SUIIT-Burla (orissa) from 26th to 30th April 2021.
- **Prof. Saurabh Kr Rajput,** department of Electrical Engineering attended Short Term Course (with hands on training) on **Data Analytics and Predictive Technology driven IOT based Smart Grid Infrastructure,** organized by IIT (BHU) Varanasi from 1st to 6th March 2021.
- **Dr. Pratap Singh** department of Chemical Engineering successfully completed Three-Day Online Workshop on “Future of Chemical Engineering” organized by Department of Chemical Engineering IIT(ISM) Dhanbad and IChE, Dhanbad Regional Center 19th to 21st March 2021.
- **Dr. Pratap Singh** department of Chemical Engineering successfully completed One-Day Online National Workshop on “Air Pollution And Health Hazard (APHH-2021)” Jointly organized by Dr. B.R. Ambedkar NIT, Jalandhar, Punjab and Punjab Pollution Control Board, Punjab state Government, Punjab on 31st March 2021.
- **Prof. Swati Gupta** department of Chemical Engineering successfully completed Quality improvement Programme/Course Organized by Chemical and Biotechnology Department, IIT Roorkee from 22.02.21 to 26.02.21 on “5R’s For sustainable waste plastic management: Fundamentals and Technology Advance”.
- **Dr. Vandana Vikas Thakare** department of Electronic Engineering attended the national workshop on “NIRF Ranking for Higher Educational Institution” organized by Institute of Academic Excellence, Hyderabad on 19-20 Jan, 2021.
- **Dr. Jitendra Kumar** department of Engineering Mathematics & Computing attended Seven Days Refresher Course on Implementation of National Education Policy 2020 in Higher Education organized by Bundelkhand University, Jhansi on 17-23, March 2021.

NPTEL/ATAL/COURSERA/INTERNSHALA courses attended by the Faculty

1. **Dr. Parul Saxena** from MCA successfully completed NPTEL-AICTE FDP of 8 week course “Database Management System” with a consolidated score of 82% (Elite).
2. **Prof. Aditya Kumar Agarwal** department of Civil Engineering attended & successfully completed online NPTEL AICTE FDP on “Plastic Waste Management” and earned Elite + Silver Certificate (Jan March 2021)
3. **Prof. Mohit Aggarwal** department of Civil Engineering attended & successfully completed online ATAL FDP on “Environmental Geotechnology” from 4/1/2021 to 8/1/2021 at National Institute of Technology Surathkal.



4. **Prof. Anish P. Jacob** department of Chemical Engineering successfully completed 8 weeks FDP course on “Electrochemical Technology in Pollution Control”.
5. **Dr. Laxmi Shrivastava** department of Electronic Engineering attended ATAL Academy Online FDP “Smart sensors and its applications” 04-08, January, 2021.

Book Chapter Published

- ❖ **Shruti Dixit, Deepak Batham, R.P. Narwaria** “Elastic optical network: A Promising Solution for future Communication Networks Considering Differentiated CoS” under exclusive license to Springer Nature Singapore Ltd. 2021, S. Agrawal et al. (eds.), *Machine Intelligence and Smart systems*, Algorithms for Intelligent systems, http://doi.org/10.1007/978-981-33-4893-6_5.

Student Club Activities organized

1. **AASF student forum** organised two day workshop (online) on Ethical Hacking MITS on 13th march -14th March 2021.
2. The department of Electrical Engineering organized a webinar by IAS officer IRA SINGHAL in collaboration with **ROTARACT Club** of Gwalior Regal through online mode on 13.03.2021.
3. **Art Club** Organized Folklore Janus: Indian Folk Art Cognizance Month from 01.01.2021 to 03.02.2021 under the guidance of Prof. Pooja Sahoo. Cognizance of Indian Folk Art and Crafts in the month of Janus introducing Youth to the beautiful heritage of our country. Quiz on Indian Folk Art at the end of Month also organized. In this event more than two hundred students participated from the different cities.
4. **Art Club** Organized Republic D’Art: Competition of artworks on India’s Diversity, Constitution, Freedom and Everything that makes us feel proud about being an Indian on 26 January 2021.
5. **Art Club** Organized SHE Rules ~ Runs ~Rocks: Campaign on the occasion of international Women’s Day on 08 March 2021. Campaign on the occasion of international Women’s Day- Competition of Art Works which shows gratitude to all the women who have left a mark on our life.



6. The club of **Innovation cell** MITS has successfully organised Holiviz quiz online on 28 March 2021 from 12:00 PM to 01:00 PM. Dr C. S. Malvi coordinated the event.
7. **Aerospace Club** organized the Online Short term course titled “**Introduction to Aerospace Propulsion 3.0**” successfully held at 13-15 March 2021 in MITS Gwalior. It was sponsored Under DVP Scheme of INAE – AICTE.
8. **IET Student Chapter** organized online Quiz Competition (POTTER BRAINS) on 06-07 March 2021, under the coordination of Dr Vijay Bhuria, Electrical Engineering Department.
9. **Chemical Engineers Club** organised Alankrit (Creative Writing Competition) March 13, 2021 by Journalism Society of MITS
10. **Chemical Engineers Club** organised online Qrious (Quiz competition) March 14, 2021 by Journalism Society of MITS
11. **The Creative Architects Club** conducted the competition ‘Lockdown Diaries’ from 16 Feb-10 March 2021. The club organised an online competition where students were invited to submit their creative experiences during the lockdown. The competition had various categories which included Doodle, Sketch, Comic, Video, Poetry and Flip Book. The competition received an overwhelming number of exceptional entries from students in different universities across the state.
12. A virtual two days Yoga workshop “Spark 2021 with Yoga Magics” on 02 & 03 January 2021



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

13. The Art of living in association with **Holistic Health Club MITS** will be conducting Online Student Excellence & Learning Program (SELP) Under TEQIP-III from 09.02.2021 to 14.02.2021
14. **ISTE Students' Chapter MITS** Gwalior in coordination with ISTE Students' Chapter MANIT Bhopal, is conducting "ChimeraX" an online quizzing event on 31.01.2021.

Entrepreneurship Development Cell

| S. No. | Programme Name | Participants | from | To | Venue | Funding Agency | Coordinator/Trainer |
|--------|---------------------------------|--------------|------------|------------|----------------------------------|-------------------|-----------------------|
| 1. | Faculty Development Programme | 25 | 15/02/2021 | 27/02/2021 | EDC, MITS | DST-EDII N. Delhi | Dr. P.S Bhadouria |
| 2. | Entrepreneurship Awareness Camp | 80 | 18/03/2021 | 20/03/2021 | J. C. Mill Girls College Gwalior | DST-EDII N. Delhi | Mr. Kaushlendra Singh |



Student's Achievements in Extracurricular Activities

1. Priyanka Gupta from CS successfully completed NPTEL 12 week course "Deep Learning Part-1" with a consolidated score of 92%.
2. Ansh Saxena from CS participated in 3 days fest "AARAMBH" and "5 min hobbits- Technical skills vs. management and marketing" organized by Digital Learning Group MITS, also participated in "spark 2021 with yoga magic" organized by Health club MITS, online quiz event "Filmygyan" organized by Scrabble Club MITS, online quiz event "QUESTINARIO" organized by Quiz Club MITS and secured 2nd position in event "Call of duty solo" organized by Skyroads club MITS.
3. Puneet Kumar from CS successfully completed NASSCOM future Skill training Data Science course.
4. Umesh Kumar Ahirwar from CS successfully completed NPTEL 12 week course "The Joy of Computing using PYTHON" with a consolidated score of 77%(Elite+Silver)
5. Khushi Sharma from CS secured 1st position in Debate Competition "TALKTONIC – RAIS YOUR OPINION" organized by Digital Learning Group and Speakers club MITS.
6. Garima Jain secured 1st position in online quiz event "QUESTINARIO" organized by Quiz Club MITS,
7. Tejendra Prajapati from CS was online Guest Speaker on "IOT based Home Automaton" in Dr. Bhim Rao Ambedkar Polytechnic College Gwalior.
8. Nitanshi Chandil from CS Secured 3rd rank in "Health Quiz Competition" organised by Health Club MITS, participated in "spark 2021 with yoga magic" organized by Health club MITS, online quiz event "QUESTINARIO" organized by Quiz Club MITS
9. 4th year student from Architecture Department, Rishika Sood and her team mate Shantanu Dubey (4th year B.Tech CSE, MITS Gwalior) won the third prize and a cash award of ₹20,000 in the "Gwalior Smart City 'Tech Challenge 1.0' – 2020" organized by Smart City Gwalior and Dream hatcher Incubation Centre for their proposal on 'Energy Generating Bicycle Corridors with Piezoelectric Tiles'.
10. 3rd year students from Architecture Department Shruti Khopkar, Pragya Rajput, Shakti Gupta and Mathita Sharma (2nd year B.Arch, SALS) have participated in AIS Glass Design Olympiad 2020-21 organised by AIS Glass India. This team had qualified 2 rounds and was one of the Top 10 finalists.
11. 2nd year students from Architecture Department Shivangi Swarnkar, Austin Dominic, Anuj Dogne, Anusha Verma, Shruti Pal, Lavanya Kharait, Khushi Verma, Anmolika Saraf, won the first prize in the "Jabalpur Street for People Challenge" organised by "Ministry Of Housing And Urban Affairs" Government Of India.
12. 2nd year students from Architecture Department Austin Dominic, Anuj Dogne, and Rahul Sahani won the Best Presentation as well as secured an honourable mention in the "Gully Design competition" organized by Oculus India.
13. 2nd year student Abhay Pratap Singh Tomar along with his team S.A.F Academy won several awards in the various volleyball tournaments across Madhya Pradesh and Uttar Pradesh. The team secured the 2nd runner up

position in the Tournament held at Bharohi on 26 and 27 December and was awarded with a cash prize of ₹3100. The team then bagged the 2nd runner up position and an award of ₹5100 in the Tournament held at Etwah on 21st January. In the tournament held subsequently at Madhavgarh the team won the first prize and was honoured with a cash award of ₹ 6100.



Activity Organized Under National Service Scheme

- NSS Team Organized Seven Days residential camp at Vivekanand needam, Mahalgaon, district Gwalior from 22nd -28th March 2021. In the closing ceremony Dr. Rajiv Kansal and Dr. Manish Sagar congratulate the students.
- Chemical Engineers Club Organised Corona-Virus Awareness Programme By Department of Chemical Engineering, MITS Gwalior Under NSS Scheme on 13th March 2021.



Publications

Department of Civil Engineering

- [1] **Prof. G. Bhadoriya**, "Strength Analysis of Concrete by Using Copper Slag with Replacement of Fine Aggregate" International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P-ISSN 2349-5138 (Journal No. 43602) & 5.75 Impact Factor, Volume & Issue 1, 02/02/2021
- [2] **Prof. Aditya Kumar Agarwal & Pawan Singh**, "Color Removal of Waste Water Treatment Plant in the Vicinity of Gwalior and some suggestions to improve performance" International Journal for Research in Applied Science & Engineering Technology (UGC approved), ISSN No. 2321-9653, Vol. 9, Issue II Feb 2021, DOI- 10.22214/IJRASET
- [3] **Dr. M.K. Trivedi & Sharma K.**, "Development of Multi-Objective Scheduling Model for Construction Projects Using Opposition-Based NSGA III", J. Inst. Eng. India Ser. A (2021). <http://dx.doi.org/10.1007/s40030-021-00529-w>
- [4] **Dr. M.K Trivedi, Dr. Sanjay Tiwari and Adhish Singh Bhadoria.**, "Optimization of risk and disputes in public private partnership in construction industries". IJRAR (Feb-2021) Volume 8, Issue 1.

Department of Electrical Engineering

- [5] **Shukla S, Pandit M.** Multi-objective fuzzy rank based scheduling of utility connected microgrid with high renewable energy using differential evolution with dynamic mutation. International Transactions of Electrical Energy Systems Volume 31, Issue3, March 2021, e12787. <https://doi.org/10.1002/2050-7038.12788>.
- [6] **Rathore B, Chakrabarti S, Srivastava L.** ARI and ARID control of virtual synchronous generator for frequency response improvement. IET Renew Power Gener. 2021;15 pp.664–675.
- [7] **B. Rathore, S. Chakrabarti, L. Srivastava,** "A Self-Regulated Virtual Impedance control of VSG in a microgrid" Electric Power Systems Research, Vol. 97, 2021

[8] **Sharma H., Govindan K., Poonia R., Kumar S., El-Medany W.** (eds) *Advances in Computing and Intelligent Systems. Algorithms for Intelligent Systems.* Springer, Singapore. https://doi.org/10.1007/978-981-15-0222-4_22

[9] **Rinisha Bagaria, Sulochana Wadhvani, Arun Kumar Wadhvani,** A Wavelet Transform and Neural Network Based Segmentation & Classification System For Bone Fracture Detection, *Optik, Volume 236,* 2021,166687, ISSN 0030-4026, <https://doi.org/10.1016/j.ijleo.2021.166687>.

[10] **Ritu K R, Dr. Bharat Mishra, Dr. A K Wadhvani,** "High Performance Adaptive PSO MPPT Technique for PV Based MicroGrid for a Rural Area", *IOP Science Journal (Journal of Physics: Conference Series), Volume 1817,*doi:10.1088/1742-6596/1817/1/012026.

[11] **Rajput S.K., Wadhvani S., Singh J.** (2021) Reliability and Energy Efficiency of Ring Frame Machine in Textile Industries: Secure, Smart, and Reliable Network. In: Agrawal R., Kishore Singh C., Goyal A. (eds) *Advances in Smart Communication and Imaging Systems. Lecture Notes in Electrical Engineering,* vol 721. Springer, Singapore. https://doi.org/10.1007/978-981-15-9938-5_61.

Department of Engineering Mathematics & Computing

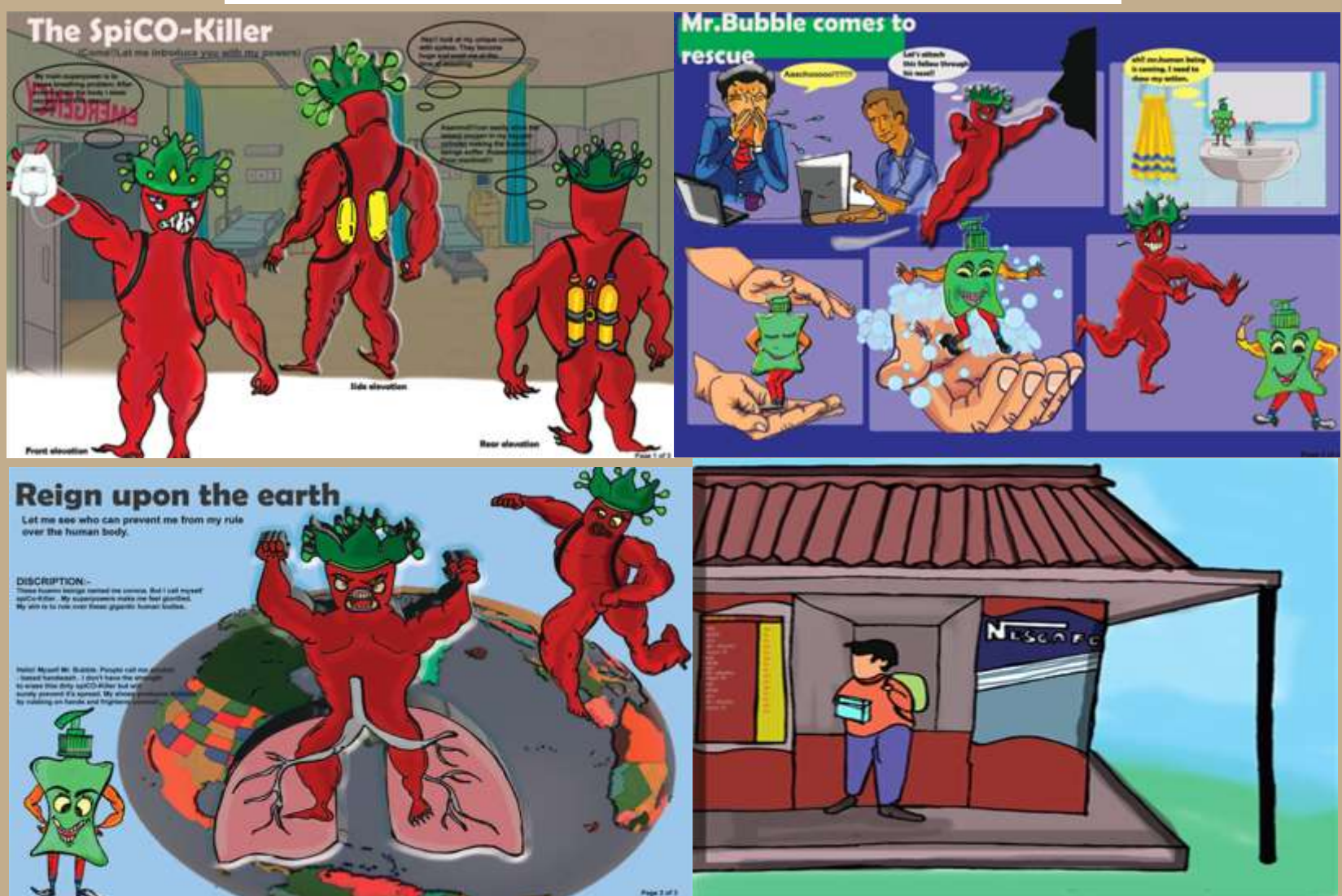
[12] **D. K. Jain, Alok Jain, Altaf Ahmad Bhat, Renu Jain** “Certain Results of (p, q) Analogue of Alpha-Function with (p, q) Derivative”, *Journal of Statistics Applications and Probability (Natural Sciences Publishing) Vol. 10 No.1,* p.45-52, March 2021 (Scopus). <http://dx.doi.org/10.18576/jsap/100105>.

Extension Activities Organized

- ✓ Department of Computer Science and Engineering organized Online **No Smoking Quiz** online event cum social awareness program on 11 March 2021.
- ✓ Department of Computer Science and Engineering organized online Awareness Program on **Save Water on world water day** 22 March 2021.



FUN PAGE by Paridhi Jain (4th Year-Architecture)



Media Coverage

स्व. माधवराव सिंधिया की जयंती पर लगाया निःशुल्क स्वास्थ्य परीक्षण शिविर



प्रवालिवर। एमआईटीएस में स्व. माधवराव सिंधिया के 76 वें जन्मदिन पर गत दिवस बिरला इंस्टीट्यूट ऑफ मेडिकल रिसर्च ने निःशुल्क स्वास्थ्य परीक्षण शिविर आयोजित किया। इसमें हृदय रोग विशेषज्ञ डॉ. आशीष चैहान, स्त्री रोग विशेषज्ञ डॉ. किश्वर सुल्ताना, नेत्र रोग विशेषज्ञ डॉ. समीक्षा जैन, मूत्र रोग विशेषज्ञ डॉ. दीपांशु शर्मा, कैंसर रोग विशेषज्ञ डॉ. गौरव अग्रवाल, चर्म रोग विशेषज्ञ डॉ. प्रतीक जैन सहित करीब 20 डॉक्टरों ने मरीजों का उपचार किया। कार्यक्रम के मुख्य अतिथि प्रशांत मेहता थे। विशिष्ट अतिथि रमेश अग्रवाल थे। इस मौके पर डॉ. आरके पंडित आदि मौजूद थे।

Awareness Poster by Preeti Wadhwa (Architecture)



Artwork by: Yashpal Singh Gour(2nd year-Architecture)



TEAM NEWSLETTER

Advisor-Dr. Rajeev Kansal (Dean S/W)

Editor- Prof. Pooja Sahoo - Incharge E-News Letter

Technical Team: -

1. Mrs. Jyotsana Singh
2. Mr. Abhishek Bansal

Editorial Board Team:-

1. Dr. Shourabh Bhattacharya
2. Prof. Aditya Kumar Agarwal
3. Prof. Amit Kumar Manjwar
4. Ar. Pranshi Jain