

# Madhav Institute of Technology & Science, Gwalior

(A Govt. Aided UGC Autonomous Institute & NAAC Accredited Institute Affiliated to R.G.P.V., Bhopal MP)

## Electrical Engineering Department

### NEWSLETTER

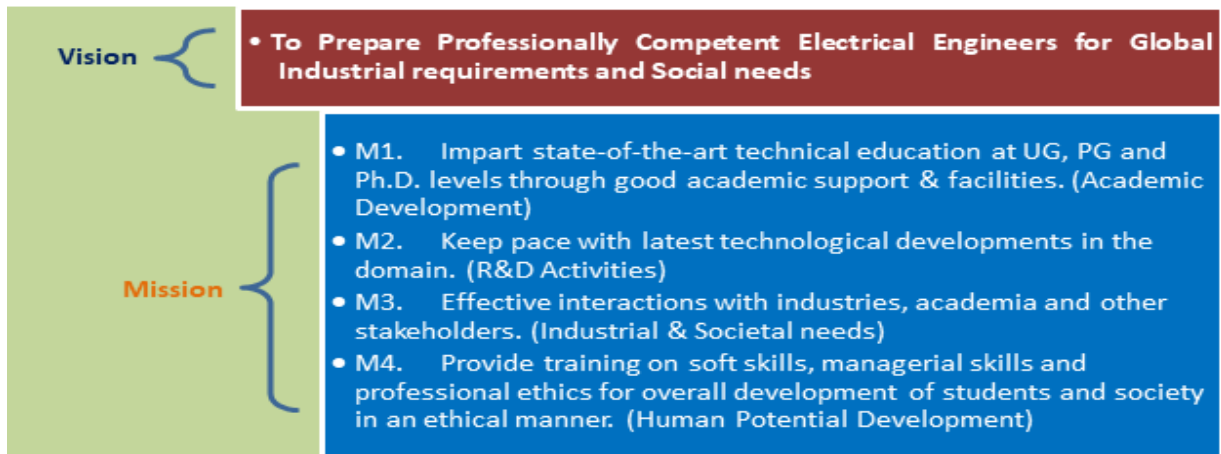
Vol. 07 No. 04

October-December 2022

*Department of Electrical Engineering is one of the oldest departments established in 1957 with an intake of 40. Currently, the department is offering undergraduate, postgraduate, and doctorate programs in various disciplines of Electrical Engineering. Presently the total intake of the B.Tech. program is 120 and the M.E. in "Industrial Systems & Drives" program is with the intake of 25. A new B.Tech. program in "Internet of Things", with an intake of 60 has been started in 2020 by the department. The thrust areas of the department are Power System, Power Electronics, Control and Biomedical Instrumentation. The department offers ME and Ph.D. programs to produce the quality research. It has state of the art laboratories to provide hands-on experiences and support research activities.*

*The department educates the students to take up challenging jobs in a wide range of industries and engage themselves in research & development activities for the betterment of the society. The syllabi of the courses are continuously updating and the laboratories are modernized to reflect the rapid changes in technology.*

*The courses offered by the department cater to learning needs from basics to the advanced level. In addition, the department offers a variety of discipline electives to cover the modern technologies.*



## FACULTY

### Talk delivered outside the Institute

- Dr Yashwant Sawle, delivered a lecture as a Keynote speaker in International conference on emerging Trends and innovation in engineering and science (ICETIES 2022) during October 14 to 15 2022 organized by SOET, SUN, Nashik, Maharashtra.
- Dr Arun Kumar Wadhvani delivered an expert lecture in One Week Online Faculty Development Programme on “Intellectual Property Rights, Innovations, Entrepreneurship, Patents & Copyrights” during 30 Nov. to 06 Dec. 2022, organized by Amity School of Architecture and Planning, Amity University Madhya Pradesh, Gwalior.
- Dr Arun Kumar Wadhvani delivered an expert lecture on “Development of Diagnostic System for Neuromuscular Disorder” in FDP under **AICTE ATAL** on Application of Artificial Intelligence in Modern Days Engineering Problems during 14.11.2022 to 25.11.2022, at UIT, RGPV Bhopal

## FACULTY

### Publications/Book Chapter

- Dinesh, P., and **Yashwant Sawle**. "Optimization of Hybrid Solar, Wind, and Diesel Energy System from Cost Analysis of Micro-Grid Using Homer Software." *Emerging Electronics and Automation*. Springer, Singapore, 2022. 161-172.

## FACULTY

### TRAINING PROGRAMME/ FDP ATTENDED

- Dr. Shishir Dixit Successfully completed SWAYAM NPTEL certificate course on Introduction to Smart Grid, Jul-Sep 2022
- Dr Vijay Bhuria attended One week UGC- Approved online Short Term Professional Development Programme on ‘Implementation of NEP-2020 for University and College Teachers’ with 'A' Grade held from October 27- to November 05, 2022

## FACULTY & STAFF

### WORKSHOP/WEBINAR ATTENDED

- Dr. Shishir Dixit of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on AI based Transformer Technologies on 01 October, 2022, organized by BVICAM, New Delhi.
- Dr. Shishir Dixit of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on Gamification in Education and Research on 15 October, 2022, organized by BVICAM, New Delhi.

- Dr. Shishir Dixit of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on Compression - The Heart of Digital Revolution on 22 October, 2022, organized by BVICAM, New Delhi.
- Dr. Shishir Dixit of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on Cyber Security, Cyber Warfare and Cyber Citizenship on 29 October, 2022, organized by BVICAM, New Delhi.
- Dr. Shishir Dixit of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on NEP-2020: Challenges and Opportunities on 12 November, 2022, organized by BVICAM, New Delhi.
- Dr. Shishir Dixit of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on Simplifying IPR and Patent Filing on 26 November, 2022, organized by BVICAM, New Delhi.
- Dr Vijay Bhuria attended One Day National Level Seminar on “Understanding of Key Indicators and Metrics for Preparation of DVV and Documents for Submission of SSR of Autonomous Institutes” (01 October 2022) organised by AISSMS Institute of Information Technology under IQAC.
- Er. Yogeshwar Dayal Jaital of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended National /Workshop Seminar on "Acoustics Metrology & Noise Pollution Control in India" on October 29, 2022
- Er. Yogeshwar Dayal Jaital of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended National /Workshop Seminar on “Precision measurements in Electrical Parameters & Calibration of Electrical Equipment” on December 31, 2022
- Mrs. Sushma Khare of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) Act for violence against women" to celebrate " International day for the elimination of violence against women “Conclave Centre Gwalior, 25-11-2022.

**ACTIVITIES ORGANIZED  
(WORKSHOP/CONFERENCE/FDP/STC/WEBINAR) at INSTITUTE  
LEVEL**

1. Electrical Engineering Department Induction Programme for First year students during 03 & 04 November 2022.







2. Holistic Health Club MITS in collaboration with the Electrical Engineering Department organized a Cleanliness Program in Madhav Institute of Technology & Science on 03/10/2022. Total 45 students actively participated in the event.





3. ISTE Students' Chapter MITS organized “FOOD FIESTA 4.0” during first year Induction Program 2022 on 02/11/2022 in Madhav Institute of Technology & Science. Approx. 1400 students actively participated in the event.

INDIAN SOCIETY FOR TECHNICAL EDUCATION  
STUDENTS' CHAPTER MITS

**Fiesta 4.0**  
**Food**

IN COLLABORATION WITH  
**NUTRITION NINJAS**

OPEN ENTRY FOR ALL

OUR SPONSERS

Jay Bhawan  
**Bisleri**  
chicago pizza

STAGE GROUND  
MITS GWALIOR, MP

2 NOV 2022  
1PM ONWARDS

FOR QUERIES CONTACT  
KAUSHAL M. : 7803098399  
HEMANT NETI : 9399499899

iste\_mits\_gwl | iste-student-chapter-mits | iste\_mits\_gwl | istemits







4. Holistic Health Club MITS Conduct a session during first year Induction Program 2022 on 02/11/2022 in Madhav Institute of Technology & Science. Approx. 1400 students actively participated in the event.

### Patent File

1. **Dr. Shishir Dixit**, A system for Classifying multiple signals for direction of arrival estimation, application number 202022105574.2, Deutsches Patent-und Markenamt (German) **Published on 20/10/2022**

### Publications

**EED, MITS Gwalior publications in renowned Journals and Conferences.**

**Details of these are as follows:**

1. Dinesh, P., and Yashwant Sawle. "Optimization of Hybrid Solar, Wind, and Diesel Energy System from Cost Analysis of Micro-Grid Using Homer Software." *Emerging Electronics and Automation*. Springer, Singapore, 2022. 161-172.
2. Saurabh Kumar Rajput & Dharmendra Kumar Dheer (2022). "Forecasting power-factor reductions in rooftop PV-integrated industrial power systems: Mathematical modelling and experimental validation." *Elsevier, Sustainable Energy, Grids and Networks*; Volume 33: 100974. <https://doi.org/10.1016/j.segan.2022.100974>
3. Saurabh Kumar Rajput & Dharmendra Kumar Dheer (2022). "Performance Analysis and Energy Conservation of PV Based Hybrid Power System." *River Publication, Distributed Generation & Alternative Energy Journal*, 38(01), 67–84. <https://doi.org/10.13052/dgaej2156-3306.3814>



## Student Participations & Achievements

### First Year (EED):

- Avishi Asati participated in poster presentation event organised by ABVIITM during 09-10 December 2022.



### Third Year (EED):

- Rahul Sharma, Yashwant Sawle, Economic Analysis of PV/Wind Grid Connected Microgrid System, IEEE 6th International Conference On Condition Assessment Techniques, In Electrical Systems (IEEE CATCON 2022) organized by NIT Durgapur, December 17-19, 2022 (Accepted)

### Final Year

- Ankita Yadav, Yashwant Sawle, Economic Analysis of Renewable energy systems for Rural electrification, International Technical Conference" titled "Control in Electric vehicles and Smart grid with Renewable Energy Synergies for sustainable development, organized by VIT Chennai, 28<sup>th</sup> & 29<sup>th</sup> October, 2022. (Accepted)

### Any other point

- Dr. Arun Kumar Wadhvani, chaired the session in 4th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2022)" held on November 19-20, 2022 at Madhav Institute of Technology & Science, Gwalior
- Dr. Shishir Dixit, chaired the session in 4th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2022)" held on November 19-20, 2022 at Madhav Institute of Technology & Science, Gwalior
- Dr. Shishir Dixit, acknowledged as a Reviewer at the 2nd International Conference on Electrical and Electronics Engineering Intelligent system held on 4-5 November 2022 at the Universitas Muhamidiyan yogyakarta, Indonesia, Sponsored by IEEE Indonesia section, Electrical Engineering, UMY.
- Dr. Shishir Dixit, acknowledged as a Reviewer in the 1 st International on Information system and Information Technology, Universitas Mercus Buana yogyakarta, Sponsored by IEEE Indonesia section
- Dr. Vijay Bhuria, Committee member in 4th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2022)" held on November 19-20, 2022 at Madhav Institute of Technology & Science, Gwalior
- Dr Vijay Bhuria, received Letter of Appreciation from Digital Learning Group of MITS Gwalior
- Dr Vijay Bhuria, participated in Quiz competition on Sports & Forest by MyGov Himachal Pradesh
- Dr Vijay Bhuria, participated in Quiz competition on Swachh Bharat Mission Grameen by MyGov
- Dr Vijay Bhuria, participated in Quiz competition on PCRA Conservation Quiz 15.0 by MyGov
- ·Dr Vijay Bhuria, participated in Quiz competition on Shnooya- Zero Pollution Mobility Campaign in India by NITI Ayog & MyGov
- Dr Yashwant Sawle, serve as an Session chair in International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology, organizing by **ICSISCET-2022**, during November 19-20, 2022.
- Dr Yashwant Sawle, serve as an PC Member & Reviewer in International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology, organizing by **ICSISCET-2022**, during November 19-20, 2022.
- Dr Saurabh Kumar Rajput, serve as an PC Member & Reviewer in International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology, organizing by **ICSISCET-2022**, during November 19-20, 2022.

- Dr Yashwant Sawle, Serve as Reviewer in IEEE 6th International Conference On Condition Assessment Techniques, In Electrical Systems (IEEE CATCON 2022) organized by NIT Durgapur.
- Dr. Yashwant Sawle, Dr. Manjaree Pandit, Conducting a Call for Special Issue entitled “Impact of Renewable Energy Technologies on the Grid, Electric Vehicles and Sustainable Development” Electronics (MDPI). (Under Q2 journal ranking).
- Mr. Saurabh Kumar Rajput, Assistant Professor, EED is awarded Ph.D. degree in the 11th convocation of NIT Patna, Bihar on 24.12.2022.

## Media Coverage

### कई मायनों में फायदेमंद है नवीन शिक्षा नीति: डॉ. दीक्षित



ग्वालियर | **DBStar**

नवीन शिक्षा नीति कई मायनों में फायदेमंद और अपने आप में विशिष्ट है। समय के साथ इस नीति के लाभ छात्रों को दिखाई देंगे। यह बात एमआईटीएस के इलेक्ट्रिकल विभाग डॉ. शिशिर दीक्षित ने कही। वह राष्ट्रीय शिक्षा दिवस के उपलक्ष्य में संस्थान के इलेक्ट्रिकल इंजीनियरिंग

विभाग व इंस्टीट्यूशनल इनोवेशन काउंसिल के संयुक्त तत्वावधान में हुईं बाद विवाद प्रतियोगिता में छात्रों को नवीन शिक्षा नीति के फायदों के बारे में बता रहे थे। इस अवसर पर प्रो. निखिल पालीवाल सहित द्वितीय वर्ष के छात्र आदित्य प्रताप सिंह, युक्ति, ऋषभ सिंह, सौर्य निगम, नितिन, मोहिनी आदि की सहभागिता रही।



**रिसर्च:** ग्वालियर के प्रोफेसर ने पहले ही किया था दावा

# भारत में 17 जनवरी से 13 अप्रैल के बीच आएगी कोविड की अंतिम लहर

नरेन्द्र कुईया

patrika.com

ग्वालियर. चीन में एक बार फिर कोविड की लहर कहर बरपा रही है। इससे भारत में भी इस महामारी को लेकर चिंता बढ़ गई है और सरकार ने इसको लेकर सतर्क किया है। इस बीच ग्वालियर के माधव इंस्टीट्यूट ऑफ टेक्नोलॉजी एंड साइंस (एमआइटीएस) के इलेक्ट्रिकल इंजीनियरिंग विभाग के प्रो. अरुण कुमार वाधवानी ने दावा किया है कि भारत में भी 17 जनवरी से 13 अप्रैल के बीच कोविड की लहर आ सकती है। यह कोविड की अंतिम लहर होगी। ख़ास बात यह है कि इसकी घोषणा उन्होंने साल भर पहले ही कर दी थी।

ज्योतिष साइंटिफिक मॉडल पर आधारित उनका ये रिसर्च पेपर इंटरनेशनल जर्नल ऑफ ज्योतिष रिसर्च में 17 मार्च-2021 को पब्लिश हो चुका था। ये डब्ल्यूडब्ल्यूडब्ल्यू.ज्योतिषजर्नल.कॉम पर ऑनलाइन उपलब्ध है। प्रो.वाधवानी ने इसे ज्योतिष साइंटिफिक मॉडल के आधार पर

## 18 फरवरी से आएगा पीक..

प्रो.वाधवानी ने इस सिस्टम के आधार पर पूर्व में भारत को प्रथम वैक्सीन में सफलता तथा तीसरी लहर की गणना की थी, जो बिल्कुल सही साबित हुई थी। इस सिस्टम की गणना के मुताबिक देश में कोरोना की अंतिम लहर 17 जनवरी-2023 से प्रारंभ होगी और 18 फरवरी से इसका पीक शुरू होगा। इस समय नार्मलाइज्ड फजी पेंडेनिक इंडेक्स (एनएफपीआई) 0.8 रहेगा तथा 13 मार्च को ये 0.5 पर पहुंच जाएगा। वहीं 28 मार्च को एनएफपीआई 0.1 हो जाएगा।

फजी लॉजिक और हेगमन डिस्टेंस के आधार पर नॉलेज बेस सिस्टम से तैयार किया है।

शेष @ पेज 7

फजी लॉजिक और हेगमन डिस्टेंस के आधार पर नॉलेज बेस सिस्टम से मैंने इसकी गणना की है। ये गणना पूर्व में भी पेंडेनिक में बिल्कुल सटीक रही है, इसके मुताबिक भारत में कोविड की अंतिम लहर का आगमन 17 जनवरी 2023 से 13 अप्रैल 2023 के बीच हो सकता है। मेरा ये रिसर्च पेपर इंटरनेशनल जर्नल ऑफ ज्योतिष रिसर्च में 17 मार्च 2021 को पब्लिश हो चुका है। इसी सिस्टम के आधार पर मैंने भारत को प्रथम वैक्सीन में सफलता तथा तीसरी लहर की गणना की थी, वह भी सही साबित हुई थी।

प्रो.अरुण कुमार वाधवानी, इलेक्ट्रिकल इंजीनियरिंग विभाग, एमआइटीएस ग्वालियर

## पेज 1 के शेष

### भारत में 17 जनवरी...

गणना में पांच महामारियों का जिक्र प्रो.अरुण कुमार वाधवानी ने इसकी गणना में विश्व की पिछली पांच महामारियों का भी जिक्र किया है। ये भी हेगमन डिस्टेंस और फजी लॉजिक के अनुसार ही हुई थीं। इनमें ब्लैक डेथ (1346-1353), द ग्रेट फ्लेज ऑफ मार्सआइल (1720-1723), द फर्स्ट कोलेरा पैडमिक (1817-1824), स्पेनिश फ्लू (1918-1920) और स्वाइन फ्लू (2009-2010) शामिल हैं।

**17 जनवरी को बृहस्पति ग्रह शनि एवं राहु के मध्य आ जाएगा:** यह गणना बृहस्पति ग्रह की राहु, केतु, शनि तथा नेपच्यून ग्रह से हेगमन डिस्टेंस से की गई है। इसमें यह देखा गया है कि जब भी बृहस्पति ग्रह, केतु एवं शनि या शनि एवं राहु या शान एवं नेपच्यून या नेपच्यून एवं राहु के साथ संयोग हो तो महामारी आती है। 17 जनवरी-2023 में बृहस्पति ग्रह शनि एवं राहु के मध्य आ जाएगा तथा 18 फरवरी-2023 से बृहस्पति ग्रह नेपच्यून ग्रह के साथ संयोग करेगा। 28 मई-2023 को बृहस्पति ग्रह राहु से आगे निकल जाएगा, उस समय एनएफपीआई 0.1 हो जाएगा, तब महामारी समाप्त होना प्रारंभ हो जाएगी। एनएफपीआई जब 0.5 से अधिक होता है, तब महामारी का पीक प्रारंभ होता है।

**नवंबर-2023 कोरोना मुक्त होगा भारत:** गणना के अनुसार 1 नवंबर-2023 को राहु एवं बृहस्पति दोनों अलग हो जाएंगे। तब जाकर एनएफपीआई 0.001 होगा और उस समय भारत पूर्ण रूप से कोरोना मुक्त होगा।