

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. 03

July-September 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 Y Sawle, delivered National Level Research Scholar Meet on Innovations and Recent Advancement on Renewable Energy & sustainability Technologies, organized by Orient Institute of Science & Technology Bhopal, on 28/07/2022 to 29/07/2022
- Dr A.K Wadhvani, delivered an expert lecture on “Real Time Bone Fracture Identification using Deep Learning” on 15/09/2022 for the STC on “Deep Learning” scheduled from 12/09/2022 to 16/09/2022 organized by Department of Computer Science & Engineering, NITTTR, Chandigarh.

FACULTY

Publications/Book Chapter

- Ojha, M.K., Wadhvani, S., Wadhvani, A.K., Shukla, A. (2023). Automated Identification of Tachyarrhythmia from Different Datasets of Heart Rate Variability Using a Hybrid Deep Learning Model. In: Tiwari, R., Pavone, M.F., Ravindranathan Nair, R. (eds) Proceedings of International Conference on Computational Intelligence. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-2126-1_12

FACULTY

TRAINING PROGRAMME/ FDP ATTENDED

- Dr. Shishir Dixit Participated in 4 th edition of one week STC on Power System Restructuring & Renewable Energy Integration (PSRREI) 4.0" from 6th September to 10th September 2022, Organised by Department of Electrical & Electronics Engineering, Bharatiya Vidyapeet's College of Engineering, New Delhi, India IET India.
- Dr. Shishir Dixit Participated in one week online STC on Emerging Trends in Power and Energy Systems (ETPES 2022) held during July 26-31 2022, Organised by Department of Electrical Engineering. National Institute of Technology NewDelhi.
- Dr. Himmat Singh Participated in 4 th edition of one week STC on Power System Restructuring & Renewable Energy Integration (PSRREI) 4.0" from 6th September to 10th September 2022, Organised by Department of Electrical & Electronics Engineering, Bharatiya Vidyapeet's College of Engineering, New Delhi, India.
- Dr. Himmat Singh Participated in one week online STC on Emerging Trends in Power and Energy Systems (ETPES 2022) held during July 26-31 2022, Organised by Department of Electrical Engineering. National Institute of Technology New Delhi.
- Kuldeep Kumar Swarnkar Participated in one week online STC on Emerging Trends in Power and Energy Systems (ETPES 2022) held during July 26-31 2022, Organised by Department of Electrical Engineering. National Institute of Technology NewDelhi.
- Vishal Chaudhary Participated one week STC on Power System Restructuring & Renewable Energy Integration (PSRREI) 4.0" from 6th September to 10th September 2022, Organised by Department of Electrical & Electronics Engineering, Bharatiya Vidyapeet's College of Engineering, New Delhi, India.

- Dr. Vijay Bhuria Participated in 4 th edition of one week STC on Power System Restructuring & Renewable Energy Integration (PSRREI) 4.0" from 6th September to 10th September 2022, Organised by Department of Electrical & Electronics Engineering, Bharatiya Vidyapeet's College of Engineering, New Delhi, India.

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 Computing Sciences: Historical Perspective on 24 September, 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 Multitasking: Myth and Challenges on 17 September, 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 Digital Twin: New Normal for IR 4.0 on 27 August, 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 Data Privacy - A Humanistic Perspective on 10 September, 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 AI- Technology, Use Cases and the Way Forward on 06 August, 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 Resilient Humans – Key to Performance on 30 July, 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 Authentication: Password & Beyond on 23 July, 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 Low Code Platforms (HpAPaaS): Future of Software Development on 16 July, 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 5G: Myths and Challenges on 09 July, 2022, organized by BVICAM, New Delhi.
- Dr. Himmat Singh of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on Computing Sciences: Historical Perspective on 24 September, 2022, organized by BVICAM, New Delhi.
- Dr. Himmat Singh of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on Multitasking: Myth and Challenges on 17 September, 2022, organized by BVICAM, New Delhi.
- Dr. Himmat Singh of Department of Electrical Engineering, Madhav Institute of Technology and Science (M.I.T.S.), Gwalior, (M.P.) India has successfully attended Webinar on Digital Twin: New Normal for IR 4.0 on 27 August, 2022, organized by BVICAM, New Delhi.
- Mrs. Sushma Khare Department of Electrical Engineering, Madhav Institute of Technology and Science Gwalior, (M.P.) Awareness Programme for Self Defence: Women and Girls, 7 Sep 2022, 4:00 PM to 6:00 PM, Eminent Speaker/Trainer: Sensei Santosh Pandey, (Technical Director), Karate-Do Association of Gwalior, MITS, Gwalior.
- Mrs. Sushma Khare Department of Electrical Engineering, Madhav Institute of Technology and Science Gwalior, (M.P.), Three days' Workshop on "Connect to Yourself" held on 20th to 22nd September 2022, From : 1:00 PM- 2:00PM organized by Department of Electronics Engg, MITS, Gwalior.

- Mrs. Sushma Khare Department of Electrical Engineering, Madhav Institute of Technology and Science Gwalior, (M.P.) “DHEERA-say NO to VAW” on 22/09/2022 from 4pm to 6 pm at Conclave Centre, MITS, Gwalior.
- Dr Y Sawle , attended Webinar on NAAC Sponsored Two Days Online Workshop Under IQAC, MITS, Gwalior on 03/09/2022 to 04/09/2022.
- Dr Y Sawle, attended National level Research Scholar Meet on Innovations and Recent Advancement in Renewable Energy & Sustainability Technologies, organized by Orient Institute of Science & Technology Bhopal, on 28/07/2022 to 29/07/2022.
- Dr Y Sawle Training Program/FDP On Training: Art of Writing Research Paper – Methods & Solution FDP: Advance Tools and Techniques for Research Methodology organized by during 24-30 September 2022
- Yogeshwar Dayal Jaital, Successfully participated in National Workshop/Seminar on understanding of ISO: IEC 17011:2017 General requirements for Accreditation Bodies on July 16-17, 2022
- Yogeshwar Dayal Jaital, successfully participated in National Workshop/Seminar on Pressure Measurements and Uncertainty Calculation on August 06, 2022
- Yogeshwar Dayal Jaital, successfully participated in National Workshop/Seminar on Implementation of the Legal Metrology Act, 2009 & Online Case Management System on August 13, 2022
- Yogeshwar Dayal Jaital, Successfully participated in National Workshop/Seminar on Principle/ working of Petrol/ Diesel Dispensing Units & fraudulent practices on August 20, 2022
- Yogeshwar Dayal Jaital, Successfully participated in National Workshop/Seminar on Testing/ verification of Automatic Rail Weighbridges on August 27, 2022
- Dr Vijay Bhuria attended Webinar on NAAC Sponsored Two Days Online Workshop Under IQAC, MITS, Gwalior on 03/09/2022 to 04/09/2022.
- Nikhil Paliwal attended NAAC Sponsored Two Days Online Workshop Under IQAC, MITS, Gwalior on 03/09/2022 to 04/09/2022.
- Saurabh Kumar Rajput attended NAAC Sponsored Two Days Online Workshop Under IQAC, MITS, Gwalior on 03/09/2022 to 04/09/2022.
- Vishal Chaudhary attended NAAC Sponsored Two Days Online Workshop Under IQAC, MITS, Gwalior on 03/09/2022 to 04/09/2022
- Dr Sulochana Wadhvani attended NAAC Sponsored Two Days Online Workshop Under IQAC, MITS, Gwalior on 03/09/2022 to 04/09/2022
- Praveen Bansal attended NPTEL Awareness cum SPOC felicitation workshop on 17th July 2022 at IIT-Kanpur extension center, Noida

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

1. Department of Electrical Engineering has organised A National Level Quiz Competition on the occasion of Teachers Day on 05 September 2022 under UG students of AICTE approved Institutions. The registration link among the students was floated through QR code and google form <https://forms.gle/M1U3MmvmHD16f5je8>. Total 301 participants were registered for the online quiz. 160 students from Madhya Pradesh, Rajasthan, Haryana and Maharastra have joined the online quiz at 1.00-2.00 pm. Total 50 questions were asked in following area- Electrical, Mechanical, Computer science, IT/Robotics/ AI, Covid-19, General Knowledge, Sports, History, Make in India, Atma

Nirbhar Bharat. The winner of the competition are (1) Devkant Sharma, MITS, Gwalior (2) Saket Yadav, MITS, Gwalior (3) Alok Sharma, MITS Gwalior. E-certificate has been provided to all successful participants.

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

On the Occasion of
TEACHER'S DAY

E-CERTIFICATES TO ALL PARTICIPANTS

DEPARTMENT OF ELECTRICAL ENGINEERING
ORGANIZES
NATIONAL LEVEL QUIZ COMPETITION
On 5th SEP 2022(1:00-2:00 PM)

REGISTRATION LINK :- <https://forms.gle/fh1HpG3yVhA2hURu5>

Faculty Coordinator:-
Dr. Vijay Bhuria
Prof. Kuldeep Swarnkar

Student Coordinator:-
Ankit Sharma
Yash Dewasthale

Contact no.
6264848396, 7470533369

Scan To Register

2. Department of Electrical Engineering has organized an In-House Workshop on “Outcome Based Education (OBE) practices and implementation” 08 September, 2022. The Objectives of the workshop was to review teaching learning activities in support of OBE. The coordinators, Prof. Kuldeep Kumar Swarnkar & Prof. Saurabh Kumar Rajput, shared the best teaching learning practices of the department. The importance of Remedial classes along with Remedial class time table were shared by Prof. Kuldeep Kumar Swarnkar

3. Department of Electrical Engineering organized a workshop “Awareness of Internship for Career Growth” on 10.09.2022. The objective of the workshop was to inform the students about the need and importance of internship & projects for placements and career growth. The workshop followed by discussion was conducted in the online mode and 6 alumni experts delivered their experiences with a total 72 participants.





Electrical Engineering Department



WORKSHOP

AWARENESS OF INTERNSHIP FOR CAREER GROWTH

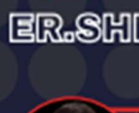
10 SEPTEMBER 2022, VIRTUAL/YT LIVE



ER. ANKIT SAHU

WORKFORCE ADVISORY CONSULTANT
ERNST & YOUNG

Live QnA



ER. SHREYA BANDIL

APPLICATION DEVELOPMENT ANALYST
ACCENTURE



ER. ASHISH GUPTA

M. TECH (P)
IIT DELHI

ER. SWAPNIL TRIPATHI

RESEARCH SCHOLAR
IIT MADRAS



ER. ANANT SHRIVASTAVA

SYSTEM ENGINEER
INFOSYS

Limited seats

You're Invited!

ER. SATYAM SHARMA

ASSOCIATE SOFTWARE ENGINEER
ACCENTURE



ER. ARNAV JAISWAL

ASSOCIATE SOFTWARE ENGINEER
TYKE



Free E-Certificates to all registered participants from EED



REGISTER NOW :

<https://forms.gle/D6vvhbTNUg8Cw7JkPA>

Faculty coordinator:-
Prof. Praveen Bansal
Prof. Saurabh Rajput

4. Department of Electrical Engineering has organised an Institute Level Event on the occasion of International Day of peace on 21 September 2022. The registration link among the students was float through QR code and google form <https://forms.gle/Xkc9SPsLMVb4SAyY6> .Total 39 participants were registered for the Events. Event has been organised online in which participants requires to fill the form of their respective competitive Event before 7:00 a.m. on 21 September 2022. Total 24 participants were actual participate in the events. Total 3 Events have been organised: Slogan writing, Drawing and Article writing. Dr Shishir Dixit was the Judge for all the three events.

Madhav Institute of Technology and Science, Gwalior
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute, Affiliated to R.G.P.V., Bhopal)



Department of Electrical Engineering
INTERNATIONAL DAY OF PEACE



"Make Peace of Mind Your Priority"

SEPTEMBER 21
REGISTER HERE -



Student Coordinator -
Danish Singhal
Pritam Kumar Barpete
Priya Singh
Ram Gupta
CONTACT NO. - 8871788036
9098459303

Event's -

- Poster Making
- Slogan writing
- Article writing

E-certificate to all Participant's

Amazing Prize's for Winner's

Faculty Co-ordinator-
Dr. Vijay Bhuria
Prof. Praveen Bansal

5. Holistic Health Club MITS Organized 'Mystery of Silence' on the occasion of International Sign language Day in offline mode during 28/09/2022-29/09/2022 in Madhav Institute of Technology & Science. Total 90 students actively participated in the event.

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
WORK IS WORSHIP

HOLISTIC HEALTH CLUB
PRESENTS

Mystery of Silence
Cause action speak louder than words

DUMB CHARADES

MUSIC ROUND

Certifications to all.

Winning team gets Prize money

Registration fees: Rs 50

See you at Seminar Hall 3 on 28th and 29th September
TIME : 4-6 PM

For Queries:
Vaishali Dubey
8109591294
Ansh Rathore
8964032372

SCAN TO REGISTER

6. ISTE Students' Chapter MITS is conducting “WIT-SEIZE”, technical events sponsored by AICTE-SPICES (Scheme for promoting Interests, Creativity and Ethics among Students) It is a three-day event to familiarize students with how the ongoing placements work. It includes three rounds where 1st round will be an online assessment including reasoning and general aptitude, 2nd round will be group discussion where students will get to know about their verbal abilities, language proficiency, etc. and 3rd round will be a personal interview round where a panel of faculty members will judge participants on certain criteria. This will help to improve students’ skill sets and their confidence, promoting them to work on enhancing themselves during 07/09/2022-09/09/2022 in Madhav Institute of Technology & Science. Total 501 students actively participated in the event.



The poster for the WIT-SEIZE event features a dark background with yellow and white geometric patterns. At the top left is the logo of Madhav Institute of Technology & Science (MITS) with the motto 'WORK IS WORSHIP'. At the top right is the ISTE logo. The central text reads 'INDIAN SOCIETY FOR TECHNICAL EDUCATION STUDENTS' CHAPTER MITS GWALIOR' and 'Sponsored by AICTE SPICES'. The event title 'WIT-SEIZE' is prominently displayed in a large, white, serif font. Below the title is an illustration of four people sitting at a table, representing a panel or interview. The dates 'FROM 07-09 SEPTEMBER, 2022' are shown in a bold, white font. A list of event features is provided in two columns, including free registration, limited seats, cash prizes, certificates, mock campus placement, online assessment, group discussion, and personal interview. A QR code is located in the bottom left corner, with the text 'Scan QR Code to Register' next to it. In the bottom right corner, contact information is provided: 'For Queries Contact Arjun :- 9111782224 Abhay :- 6264698239'. The bottom of the poster features a yellow banner with social media handles for Twitter (@iste_mits_gwl), LinkedIn (iste-student-chapter-mits), Instagram (@iste_mits_gwl), and Facebook (istemits).

INDIAN SOCIETY FOR TECHNICAL EDUCATION
STUDENTS' CHAPTER MITS GWALIOR

Sponsored by
AICTE
SPICES

WIT-SEIZE

FROM
07-09 SEPTEMBER, 2022

- Free Registration
- Limited seats, Register soon
- Cash prizes worth Rs. 10K
- Certificate to all participants
- Mock campus placement
- Online Assessment
- Group Discussion
- Personal Interview

Scan QR Code
to Register

For Queries Contact
Arjun :- 9111782224
Abhay :- 6264698239

iste_mits_gwl iste-student-chapter-mits iste_mits_gwl istemits

7. ISTE Students' Chapter MITS is conducting “YouVista”, techno-cultural events sponsored by AICTE-SPICES (Scheme for promoting Interests, Creativity and Ethics among Students) It is a one-week event. This includes three events, where the 1st event will be a Book Carnival. It is an open book fair, where students and readers from different colleges will get the opportunity to explore and buy books of various genres like science fiction, thriller etc. of reputed authors throughout India and to attend live on-campus book release inauguration ceremonies. 2nd Event is a workshop on Self-defence, workshop covers training and counselling session on Korean martial art Taekwondo for spreading awareness on women empowerment among female students. This will help to improve students’ skill sets and their confidence, promoting them to work on enhancing themselves. 3rd Event is hands on experience to students on cyber security and ethical hacking in two days’ workshop during **20/09/2022-27/09/2022** in Madhav Institute of Technology & Science. Approx. 1720 students actively participated in different events



The poster for 'YouVista Book Carnival 2.0' features a central illustration of a woman with orange hair sitting on a stack of books and reading. The background is white with a subtle topographic map pattern. Logos for ISTE, AICTE-SPICES, and the organizing institutions are at the top. The event dates '20-21 sep 10 Am ONWARDS' and 'FREE ENTRY FOR ALL' are prominently displayed. Contact information for Arjun Soni and Hemant Neti is provided at the bottom right. Social media handles for Twitter, LinkedIn, Instagram, and Facebook are listed at the bottom left. A QR code for scanning is also included.

INDIAN SOCIETY FOR TECHNICAL EDUCATION STUDENTS' CHAPTER MITS

Sponsored by **AICTE SPICES**

YouVista Book Carnival 2.0

20-21 sep 10 Am ONWARDS
FREE ENTRY FOR ALL

POWERED BY **CHAMP Redde's** and **Anecdote**

STATUE GROUND MITS GWALIOR, MP

SCAN QR CODE

FOR QUERIES CONTACT
ARJUN SONI : 9111782224
HEMANT NETI : 9399499099

Twitter: [iste_mits_gwl](#) | LinkedIn: [iste-student-chapter-mits](#) | Instagram: [iste_mits_gwl](#) | Facebook: [istemits](#)

INDIAN SOCIETY FOR
TECHNICAL EDUCATION
STUDENTS' CHAPTER MITS



MADHAV INSTITUTE OF
TECHNOLOGY AND SCIENCE
GWALIOR

Sponsored By



AICTE
SPICES



YouVista

Powered By



MPower2.0

SELF DEFENCE WORKSHOP

20th - 24th SEPTEMBER, 2022

4:30PM - 5:30 PM

VENUE :- STAGE GROUND

- Free Registrations
- Certificate To All Participants



Scan To
Register

For Queries, Contact

CHETNA GOUR
VIDHI SIROTHIA

9893517291
9680615298



iste_mits_gwl



iste-student-chapter-mits



iste_mits_gwl



istemits



INDIAN SOCIETY FOR TECHNICAL EDUCATION
STUDENTS' CHAPTER MITS GWALIOR



Sponsored By



YouVista

ETHICAL HACKING & CYBERSECURITY

in collaboration with




REGISTRATION FEE:
ISTE MEMBER ₹ 50/-
NON ISTE MEMBER ₹ 100/-



Ajinkya Lohakare
Ethical Hacker TEDX Speaker

Limited Seats, Register Soon
Certificate to all Participants


 26-27, Sept 2022

 10:00 AM - 3:00 PM




For Queries contact

Kaushal Mishra 7803098399
Aditya Kohli 9589633545

 iste_mits_gwl

 iste-student-chapter-mits

 iste_mits_gwl

 istemits

8. An orientation programme was conducted by the Electrical Engineering Department for the II, III and IV year B. Tech students (EE, EE-IoT) on August 1st, 2022. A spectrum of sessions has been organised under the programme and are presented by faculties. The orientation programme consisted of sessions on the flexible curriculum scheme, OBE (CO, PO, PEO), internship program/modules, career opportunities, NPTEL, NEP-2020, NEC courses, Proficiency evaluation and assessment rubrics, mentor-mentee activities, institute guidelines for plagiarism, feedback, lab visits etc. They were also introduced to students' clubs and achievements. At the end of the sessions, they were encouraged to share their overview of their experiences in the previous semesters and were also instructed to give their feedback on the orientation program.









Patent File

Nil

Publications

EED, MITS Gwalior publications in renowned Journals and Conferences.

Details of these are as follows:

1. Singh, P., Pandit, M., Srivastava, L. (2023). Optimal Sizing of Stand-Alone Hybrid Energy System Using Black Widow Optimization Technique. In: Kumar, S., Hiranwal, S., Purohit, S.D., Prasad, M. (eds) Proceedings of International Conference on Communication and Computational Technologies . Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-3951-8_26.
2. Shukla, S., Pandit, M. (2023). An Overview of Recent Nature Inspired Computational Techniques for Dynamic Economic Dispatch. In: Kumar, S., Hiranwal, S., Purohit, S.D., Prasad, M. (eds) Proceedings of International Conference on Communication and Computational Technologies . Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-3951-8_60
3. Tiwari V, Dubey HM, Pandit M, Salkuti SR. CHP-Based Economic Emission Dispatch of Microgrid Using Harris Hawks Optimization. *Fluids*. 2022; 7(7):248. <https://doi.org/10.3390/fluids7070248>

4. Tiwari, V., Dubey, H.M., Pandit, M. (2023). Optimal Planning of Renewable-Based Microgrid Using Bald Eagle Search Algorithm. In: Kumar, S., Hiranwal, S., Purohit, S.D., Prasad, M. (eds) Proceedings of International Conference on Communication and Computational Technologies . Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-3951-8_51
5. Kashyap, A., Pandit, M., Dewan, L., Saini, V. (2023). Sparse Optimization of Output Error Model Using Genetic Algorithm. In: Kumar, S., Hiranwal, S., Purohit, S.D., Prasad, M. (eds) Proceedings of International Conference on Communication and Computational Technologies. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-3951-8_71
6. Dinesh Pitchandi and Yashwant Sawle, Optimization of Hybrid Solar, Wind and Diesel Energy System from Cost Analysis of micro grid using Homer Software, E2A, Springer (Scopus)
7. Tanmay Katare, Sulochana Wadhvani, Kuldeep Swarnkar, “Derating of Transformer under Harmonic Loads ”, International Journal of Research and Analytical Reviews (IJRAR) Volume 9, Issue 3, September 2022.
8. Chaudhary, V., Pandit, M., Dubey, H.M. (2023). Renewable Energy Integrated Economic Dispatch Using Intelligent Techniques: An Overview. In: Kumar, S., Hiranwal, S., Purohit, S.D., Prasad, M. (eds) Proceedings of International Conference on Communication and Computational Technologies . Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-3951-8_38
9. Paliwal, N., Srivastava, L., Pandit, M. (2023). Performance Evaluation of Sine Cosine Algorithm-Based Controllers for LFC in an Isolated Hydropower System Integrated with Energy Storage System. In: Kumar, S., Hiranwal, S., Purohit, S.D., Prasad, M. (eds) Proceedings of International Conference on Communication and Computational Technologies. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-3951-8_64
10. Paliwal, N, Srivastava, L, Pandit, M. Rao algorithm based optimal Multi-term FOPID controller for automatic voltage regulator system. *Optim Control Appl Meth.* 2022; 1- 28. doi:[10.1002/oca.2926](https://doi.org/10.1002/oca.2926)

Student Participations & Achievements

Second Year (EED):

- Disha jain has participated in “TECHXSUMMER 22” organized by IETE STUDENTS forum on 12 June, 2022.
- Ankit Sharma has participated in “STARTUPNEST” organized by Digital Learning Group in association with Gurukul Dream Foundation under the patronage of MITS, Gwalior on 27th August 2022.



Third Year (EED):

- Industrial visit to PGCIL Guna with 52 students along with Prof. Rakesh Narvey, Dr. Himmat Singh, Er. Ravi Gupta and Mrs. Shashi Goyal on 10/09/2022.
- Namrata Tekchandani participated in National level Competition in the Flipkart Grid 4.0 software development challenge organized by flipkart on 07 September 2022.

Any other point

- Dr Y Sawle & Dr Manjaree Pandit, Guest Editor of Call for Special Issue "Impact of Renewable Energy Technologies on the Grid, Electric Vehicles and Sustainable Development" in Electronics, MDPI Listed in Q2 Journal, duration from 27/09/2022 to 31/03/2023.
- Award Facilitation of two final year Electrical Engineering students (Ikshita trivedi & Kartikey kumar) by Bank of Baroda and celebration of commemorative Hindi Diwas on 14 September 2022 at MITS Gwalior.
- Dr. Manjaree Pandit, Coordinated NAAC Sponsored Two-Days National Workshop On Curriculum Development for the Effective Implementation of NEP-2020, Dated 03rd and 4th September, organized by MITS, Gwalior under IQAC.

- Nikhil Paliwal, worked as a member of technical organizing committee in NAAC Sponsored Two-Days National Workshop On Curriculum Development for the Effective Implementation of NEP-2020, Dated 03rd and 4th September, organized by MITS, Gwalior under IQAC.
- Prof. Bhavna Rathore has successfully defended her PhD from IIT Kanpur.

ABOUT SPEAKERS
The speakers from reputed education & research organizations and National Governing Bodies are invited to deliver lectures in this workshop

REGISTRATION
Faculty members of AICTE recognized engineering institutions are eligible to apply for the course. Participants will be given course material. The interested candidates need to apply on or before the due date at the following link: <https://forms.gle/SK2iKX2iKsUGWebXA> Last date of receiving completed application forms is **30th August 2022**. The candidate will be informed of his/her selection in advance via email.

FINANCIAL ASSISTANCE
There will be no registration fee for the participants.

CHIEF PATRON
Prof. D.P. Agrawal
Former Chairperson, UPSC, New Delhi

PATRON
Dr. R. K Pandit
Director, MITS Gwalior

COORDINATORS
Dr. Manjaree Pandit, Dean Academics
Dr. Prateesh Jayaswal, Coordinator, IQAC

ORGANIZING SECRETARY
Dr. Akhilesh Tiwari, Member Secretary, Academic Council

COURSE CONTENTS
To keep pace with global education standards, the Indian Higher Education Institutes are required to adopt the National Education Policy 2020 in phase wise manner or completely. Considering the above fact, MITS is conducting this **Two Day National Workshop on Curriculum Development for the Effective Implementation of NEP-2020** to create awareness about vision, principles objectives and strategies of this new policy.

The mode of conduction will be interactive where the participants will play an active role. The National Workshop on Curriculum Development for the Effective Implementation of NEP-2020 will benefit the faculty members of Technical/ Engineering institutes by addressing key reforms required in the education system in the following areas:

- Curriculum planning with key concepts of NEP-2020
- Stakeholder participation in curriculum design and implementation
- Curriculum delivery with emphasis on employability and skill development
- Assessment and evaluation with NEP-2020 perspective
- Credit transfer provisions and associated issues
- Curriculum Development with Focus on NEP-2020: An MITS Case Study
- Implementation of NEP-2020: MITS experience
- Revised Accreditation Framework of the NAAC

NAAC Sponsored

TWO-DAY NATIONAL WORKSHOP
ON
Curriculum Development for the Effective Implementation of NEP-2020
3rd & 4th September 2022
Organized by

IQAC
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
(A Govt. Aided Autonomous Institute, Affiliated to RGPV, Bhopal)
Race Course Road, Gola Ka Mandir,
Gwalior, M.P. 474005
website: www.mitsgwalior.in

ABOUT MITS

Madhav Institute of Technology & Science (MITS), Gwalior is Govt. Aided, UGC Autonomous, NAAC Accredited institute situated in Northern part of Madhya Pradesh. The institute is listed in 251-300 band of NIRF -2021 & promising band of ARIIA-2021 and NPTEL local Chapter of the institute has secured AAA rating (listed in the band of 01 -10) during 2021 amongst more than 4,000 Chapters of NPTEL across the nation. The Institute started initially with 3 disciplines: Civil, Mechanical and Electrical Engineering with intake of 40 each. At present, the Institute is offering regular 17 Bachelors, 10 Masters and Doctoral Degrees Programmes in Engineering & Technology, Architecture & Planning, Computer Application and Management with the strength of more than 5000 students. Many of the programmes are accredited by the National Board of Accreditation (NBA).

The Institute is a recognized Quality Improvement Programme (QIP) Centre of AICTE for Ph.D. Programme, institute has implemented TEQIP-II & TEQIP-III successfully and was declared as the best performer in the final performance audit amongst all the TEQIP-III funded institutes of the nation.

As per the vision of the institute, " *To create world class quality Engineers and Technocrats capable of providing leadership in all spheres of life and society* ", the institute has implemented Outcome Based Education (OBE) and Flexible curriculum with provision of major / minor degrees. Institute has collaborated with globally recognized organizations and implemented National Educational Policy (NEP-2020) for the multidisciplinary education. Institute conducts various activities under the provision of Novel Engaging Courses for the holistic development of students.


PREAMBLE

National Education Policy of India 2020 (NEP 2020), was approved on 29 July 2020 and has replaced the previous National Policy on Education-1986. The new policy aims to transform elementary to higher education systems as well as vocational training in both rural and urban India by 2040, with focus on developing and maximizing our country's human resource for the benefit of society with environmental sustainability & safety.

Therefore, in order to achieve the goals of National Education Policy vis a vis Higher Education, various strategies need to be implemented as follows:

1. Robust education system and research facility to compete with global standards
2. Provision of multiple entry and multiple exit at higher level of education
3. Establishment of academic bank of credit in which credits earned by the students during their academics from different HEIs could be stored and transferred at the time of final degree
4. Holistic development of students by recognizing, identifying, and fostering the unique capabilities of each student
5. Provision of flexibility to choose learning trajectories and programmes, according to their talents and interests
6. Teaching based on higher order thinking skills to enhance creativity, logical decision-making, innovation and critical thinking
7. Provision of equity and inclusion of students in all academic or non academic in the education system
8. Teachers and faculty as the heart of the learning process – their recruitment, continuous professional development, positive working environments and service conditions
9. Redesigning vocational training to ensure the development of skill and later applying it for economic growth.

75 Azadi Ka Amrit Mahotsav









Media Coverage

ट्रांसमिशन सिस्टम में होता है ऑप्टिकल फाइबर का प्रयोग : डॉ दीक्षित

सत्ता सुधार ■ ग्वालियर

विद्युत अभियांत्रिकी विभाग, माधव इंस्टिट्यूट ऑफ टेक्नोलॉजी एंड साइंस, ग्वालियर, म.प्र. द्वारा पावर ग्रिड गुना ट्रांसमिशन लिमिटेड 400 किलो वाल्ट सबस्टेशन गुना के लिए औद्योगिक यात्रा आयोजित की गई। इस औद्योगिक यात्रा का आयोजन डॉक्टर शिशिर दीक्षित, एसोसिएट प्रोफेसर, एमआईटीएस ग्वालियर एवं निखिल पालीवाल असिस्टेंट प्रोफेसर द्वारा किया गया है। उक्त इंडस्ट्रियल ट्रिप में इलेक्ट्रिकल विभाग द्वारा गुना ट्रांसमिशन लिमिटेड 400 किलो वोल्ट सबस्टेशन गुना में पावर ग्रिड के साथ एम ओ यू के तहत आयोजित



किया गया है। इस इंडस्ट्रियल ट्रिप में 60 छात्र-छात्राओं के साथ प्रोफेसर राकेश नावें, डॉक्टर हिम्मत सिंह, इंजीनियर आर पी गुसा व श्रीमती शशि गोयल के साथ गए थे। इस इंडस्ट्रियल ट्रिप में एक आधुनिक सबस्टेशन की विभिन्न विषयों से अबगत कराया गया। स्काडा सिस्टम, टट्रांसमिशन सिस्टम में लगातार मॉनिटरिंग एवं किसी भी

तरह के फाल्ट के दौरान उसे स्वयं ठीक करके अनवरत सप्लाई देना सुनिश्चित करता है। ट्रांसमिशन सिस्टम में ग्राउंड वायर की जगह ऑप्टिकल फाइबर का उपयोग किया जाता है जो की कम्युनिकेशन के लिए भी उपयोग में आता है। औद्योगिक दौर में छात्र 400 किलो वोल्ट सबस्टेशन के इरेक्शन, चार्ज, नियमित संचालन, कामकाज और रखरखाव संचालन सहित विभिन्न नई चीजें सिखने को मिली हैं। अति आधुनिक उपकरण जैसे के वैक्यूम सर्किट ब्रेकर, एस.फ 6 सर्किट ब्रेकर आदि के बारे में भी जानकारी उल्लब्ध कराई गयी।

TEAM NEWSLETTER

Advisor - Dr. Sulochana Wadhvani

Member - Prof. Kuldeep Kumar Swarnkar
Prof. Vishal Chaudhary
Prof. Manoj Kumar