

E- Newsletter

DEPARTMENT OF ELECTRICAL ENGINEERING

JULY-SEPT 2020 | Volume 5, Number 3

VISIT US: <http://mitsgwalior.in/department.php?id=ee#NL>

Vision

*“ To Prepare Professionally
Competent Electrical Engineers for
Global Industrial requirements and
societal needs”*



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NEWSLETTER TEAM MEMBER

Advisor – Dr. S. Wadhvani
faculty Member- Prof. Shweta
Kumari, Prof. Aprajita
Kumari, Prof. Shailendra pratap
Prof Bhavna rathore, Prof Vishal
Chaudhary ,Dr Vikram,
Student member- Mr. Abhinav
Singh Tomar , B.Tech Third Year,
EED, Mr. Ritik Gupta, B.Tech Second
Year, EED

MISSION

- *Impart state-of-the-art technical education at UG, PG and Ph.D. levels through good academic support & facilities. (Academic Development)*
- *Keep pace with latest technological developments in the domain. (R&D Activities)*
- *Effective interactions with industries, academia and other stakeholders. (Industrial & Societal needs)*
- *Provide training on soft skills, managerial skills and professional ethics for overall development of students and society in an ethical manner. (Human Potential Development)*

Programme Educational Objectives (PEOs)

PEO-I

Graduates of the program will have successful technical and professional career

PEO-II

Graduates of the program will continue to learn and adapt in a world of constantly evolving technology

PEO-III

Graduates of the program will be able to apply, analyze, design and develop products and solutions for real life Electrical Engineering problems.

PEO-IV

Graduates of the program will be able to manage projects catering to current societal and industrial needs in an ethical manner as a members/leaders of multidisciplinary teams

FACULTY OUTREACHED

- **Dr. A.K. Wadhvani, Dr. Sulochana Wadhvani** attended One Week Online FDP on POWER QUALITY AND REACTIVE POWER MANAGEMENT, EED,DTU,NewDehli2 from 06th July 2020 to 10th July 2020.
- **Dr. A.K. Wadhvani, Dr. Sulochana Wadhvani** attended TEQIP – III Sponsored National Faculty Development Program Webinar on “Grid Integration of Hybrid Renewable Energy ”from 29th June to 1st July 2020.
- **DR. HARIMOHAN DUBEY** attended One-week FDP on HYDRO POWER OPERATION conducted by NPTI, Shivpuri from 13-17 July 2020.
- **Dr. Shishir Dixit** attended online FDP on Recent Research Trend in Electrical Engineering 14th JULY to 18th JULY 2020.
- **Dr. Shishir Dixit** attended online . Online Faculty Development Program on Emerging Techniques in Smart Power System: Challenges and Solutions conducted by the Department of Electrical Engineering, NIT Warangal from 24th to 28th August 2020.
- **Dr. Shishir Dixit**, attended 3."Renewable Energy: Research to Industry" at NIT Patna in association with Electronics & ICT Academy from 22nd to 6th September 2020.
- **Prof. Himmat Singh** attended Online Faculty Development Program on Emerging Trends in Power and Energy System from 24th to 28th August 2020.
- **Prof. Himmat Singh** attended Online Faculty Development Program on Opportunities and Challenges in Emerging Technologies of Electrical Power System from 7th to 11th September 2020.
- **Dr. Vijay Bhuria, Prof. Kuldeep Kumar Swarnkar** attended One Week Online FDP on POWER QUALITY AND REACTIVE POWER MANAGEMENT, EED,DTU,NewDehli from 6th to 10th July 2020.

FACULTY OUTREACHED

- **Prof. Saurabh Kr Rajput**, attended FDP on Emerging Trends in Power and Energy System organized by Electrical Engineering Department of GBU Greater Noida from 24th to 28th August 2020.
- **Dr. Vikram** attended Online Short Term Course on "Technological Challenges & Opportunities in COVID-19 Outbreak" NIT Uttarakhand from 6th to 10th July 2020.
- **Prof. Bhavna Rathore** attended e-FDP on "Renewable Energy Application in Smart Grid, Micro Grid and EVs (REASGMGEV-2020) from 12th to 17th July 2020
- **Prof. Bhavna Rathore** attended e-FDP on "Renewable Energy for Sustainable Development: Opportunities and Challenges" 8th to 12th September 2020.
- **Prof Punjan dohare** attended faculty development programme on Robotics & Control (RoboCon)-2020 from 15th to 19th July 2020.
- **Prof. Bhavna Rathore** attended e-FDP on "Green Technology and Sustainability Engineering (GTSE)" from 14th to 18th September 2020.
- **Prof. Shailendra Pratap Singh** attended e-FDP on Python and Emerging trend in machine learning from 13th to 17th July 2020.
- **Prof. Shailendra Pratap Singh** attended e-FDP on Recent Research trends in Electrical Engineering from 14th to 18th July 2020.
- **Prof. Shailendra Pratap Singh** attended e-FDP on Robotics and control (Robocon) from 15th to 19th July 2020.
- **Prof. Rahul Sagwal** attended e-FDP on Recent Research Trends in Electrical Engineering from 14th to 18th July 2020.
- **Prof. Rahul Sagwal** attended e-FDP on Research Orientations in Engineering with Effective Outcomes from 26th to 30th July 2020

- **Prof. Rahul Sagwal** attended on e-FDP Real-time applications of OPAL-RT for power electronics, smartgrid and microgrid from 3rd to 7th August 2020.
- **Prof. Rahul Sagwal** attended e-FDP on Emerging trends in power electronics and power systems from 24th to 29th august 2020.
- **Prof. Rahul Sagwal** attended e-FDP on Green Energy: The Energy of Future from 7th to 11th September 2020.
- **Prof Aprajita Kumari** attended faculty development programme on Robotics & Control (RoboCon)-2020 organised by NIT Silcher from 15th to 19th July 2020.
- **Prof Shweta Kumari** attended on "Renewable Energy Application in Smart Grid, Micro Grid and EVs (REASGMGEV-2020)" organized by Department of Electrical & Electronics Engineering of GMR Institute of Technology, from 13th to 17th July 2020.
- **Prof Shweta Kumari** attended faculty development programme on Robotics & Control (RoboCon)-2020 organised by NIT Silcher from 15th to 19th July 2020.
- **Prof Aprajita Kumari** attended on "Renewable Energy Application in Smart Grid, Micro Grid and EVs (REASGMGEV-2020)" organized by Department of Electrical & Electronics Engineering of GMR Institute of Technology, from 13th to 17th July 2020.
- **Prof Tarun Shrivastava** attended faculty development programme on Advanced Teaching Tools and Techniques for Quality Research and Teaching from 9th to 11th July 2020
- **Prof Tarun Shrivastava** attended faculty development programme on Emerging Trends in IT Industry from 13th to 14th July 2020.
- **Prof Tarun Shrivastava** Renewable Power Generation ,Contorl and Grid Integreation from10thto 14th August 2020.
- **Prof Tarun Shrivastava** Building Competencies for Online Teaching from 03th to 07th august 2020.
- **Prof Tarun Shrivastava** Emerging Trends in Power and Energy systems from24th to 28th august 2020.
- **Prof Tarun Shrivastava** Post COVID Challenges in Teaching Learning 7. 5G: Devices & Key Enable Technologies from 19th to 23rd September 2020

STUDENT PARTICIPATION IN SPORTS/EXTRA-CURRICULAR/CULTURAL OUTSIDE THE INSTITUTE

- **Deepu kankar** from Vth Sem attended workshop on augmented reality/virtual reality by TACThub in affiliation with AICRA(All India council for robotics and automation) on 01/09/2020.
- **Deepu kankar** from Vth Sem attended online webinar on virtual labs by IIT Delhi on 28/08/2020
- **Deepu kankar** from Vth Sem attended online course on introduction to HTML 5 by COURSERA.
- **Deepu kankar** from Vth Sem attended online course on Programming for everybody(python) by COURSERA.
- **Rushil Babelay** from Vth Sem participated in State level Poster Presentation on "Sustainable Energy Resources" TEQIP-3 on 26/09/2020
- **Aditya Sharma** from Vth Sem attended online webinar on virtual labs by iit delhi on 22/08/2020.

PLACEMENT RECORD

S. No.	No. of Student	Year of Passing	Company Name
1.	9	2020	Tcs Ninja
2.	23	2020	Accenture
3.	3	2020	Lnt infotech
4.	20	2020	Infosys
5.	4	2020	Dcm shriram

PUBLICATIONS

- A. Vishwakarma, A.Sahu, N. Seikh, P.Payasi, **S.K. Rajput, L.Srivastava**, "IOT Based Green House Monitoring and Controlling System," Conference on Engineering and System, MNNIT Allahabad, India, July10-12' 2020.
- **Vishal Chaudhary, Hari Mohan Dubey, Manjaree Pandit** , J. C. Bansal, Multi-Area Economic Dispatch with Stochastic Wind Power using Salp Swarm Algorithm, ARRAY (ELSEVIER) <https://doi.org/10.1016/j.array.2020.100044>, Sep2020
- Ritu K. R., Dr Bharat Mishra, **Dr. A.K. wadhvani**, " Simulation and Analysis of Particle Swarm Optimization Algorithm Based MPPT for PV System Operating Under Partial Shading Condition", International Journal of Scientific & Technology Research Volume 9, Issue09, September 2020, ISSN 2277-8616
- Ashwini kukreja ,**Arun Kumar Wadhvani,Sulochana Wadhvani** (2020), "Efficient Way To Analysis The Textural Features Of Brain Tumor MRI Image Using Glcm" IJISRT (IJISRT20JUL603), ISSN No: 2456-2165
- **S. K. Rajput**, D. K. Dheer and **S. Wadhvani**, "Energy Consumption and Energy Saving Potential in Indian Textile Sector," 2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET),NIT Patna, India, 2020, pp. 1-6, doi: 10.1109/ICEFEET49149.2020.9186951.
- Ashwini kukreja ,**Arun Kumar Wadhvani,Sulochana Wadhvani** (2020), "Efficient Way To Analysis The Textural Features Of Brain Tumor MRI Image Using Glcm" IJISRT (IJISRT20JUL603), ISSN No: 2456-2165
- Kingshuk Roy. **Laxmi Srivastava, Shishir Dixit**, "Power Loss Sensitivity and GWO Based Approach for Optimal Capacitor and DG Allocation in Distribution System" in 1st Global Conference on Artificial Intelligence , and Applications (GCAIA 2020), September 8-10, 2020.
- Kingshuk Roy. **Laxmi Srivastava, Shishir Dixit**, "A Forward-Backward Sweep and ALO Based Approach for DG Allocation in Radial Distribution System" in First IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC) during 25th to 26th September 2020.
- Kingshuk Roy. **Laxmi Srivastava, Shishir Dixit**, "Optimal Placement and Sizing of Distributed Generation Using Multi-Verse Optimization" in The 12th International Conference on Computational Intelligence and Communication Networks (CICN 2020) , 25th to 26th September 2020.
- A. Vishwakarma, A.Sahu, N. Seikh, P.Payasi, **S.K. Rajput, L.Srivastava**, "IOT Based Green House Monitoring and Controlling System," Conference on Engineering and System, MNNIT Allahabad, India, July10-12' 2020

PUBLICATIONS

- **S. K. Rajput**, D. K. Dheer and **S. Wadhvani**, "Energy Consumption and Energy Saving Potential in Indian Textile Sector," 2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), NIT Patna, India, July 10-11' 2020, pp. 1-6, doi: 10.1109/ICEFEET49149.2020.9186951

Ph.D AWARDED/SUBMITTED

- Transmission System Planning using Evolutionary Techniques, by Shilpi Sisodia , Supervisor- Dr. A.K.Wadhvani, Co-Supervisor, Dr. Yogendra Kumar, MANIT, Bhopal, Date of Submission -8.7.2020 at RGPV Bhopal.
- Development of Diagnostics System for Surface EMG signals Analysis using soft Computing Techniques, by Shilpi Singh, Supervisor-, Bharat Mishra, Co-Supervisor, Dr. A.K.Wadhvani, Date of Submission -26.09.2020 at MGCGV, Chitrakoot, Satna.

DEPARTMENT ACTIVITIES

- Electrical engineering department has organized Two Days Online Training/Workshop on **PSCAD software** in association with Nayak Power Systems Private Limited Duration: 25-26 September 2020
- Electrical engineering department has organized **National Level Online Quiz Competition** 05 Sep 2020

FACULTY AS RESOURCE PERSON

- **Dr. A. K. Wadhvani** delivered an expert talk on Determination of Severity Index of Covid-19: on Various Field Based on Astrological Aspects, at Millennium Institute of Technology & Science, Bhopal on 06.07.2020 2
- **Dr. A. K. Wadhvani** delivered an expert talk on Neuro-muscular Disease Diagnostics System Using Soft Computing System, Dept. of Electronics Engineering, RTU, Kota on 26.08.2020
- **Dr. A. K. Wadhvani** delivered an expert talk on Role of Artificial Intelligence in Present Scenario G.B. Pant Institute of Engineering & Technology, Pauri -Garhwal on 4.9.2020
- **Dr. A. K. Wadhvani** delivered an expert talk on Forecasting Regarding the End of Covid-19 & Successful Development of Vaccine & Determination of Severity Index of : Covid-19 on Various Field Based on Astrological Aspects & Fuzzy Rules, Swami Vivekanand Technical University (CSVТУ), Bhilai on 12.09.2020
- **Dr. A. K. Wadhvani** delivered an expert talk on Forecasting for End of Covid-19 & Severity Index Based Astrological Aspects using Fuzzy Rules, BIET, Jhansi on 19.09.2020
- **Dr. A. K. Wadhvani** delivered an expert talk on Forecasting for End of Covid-19 & Successful Development of Vaccine and Determination of Severity Index Based Astrological Aspects using Fuzzy Rules G.B. Pant Institute of Engineering & Technology, Pauri -Garhwal, 22.09.2020
- **Dr. A. K. Wadhvani** delivered an expert talk on Real Time Data Acquisition & Signal Conditioning with some Applications. MGIT. JNTU. Hyderabad on 25.9.2020