MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

Newsletter

DEPARTMENT OF ELECTRICAL ENGINEERING

OCT-DEC 2020

Volume 5, Number 4

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. Wadhwani facultyMember- Prof. Aprajita Kumari,Prof. Shailendra pratap Prof Bhavna rathore,Prof Vishal Chaudhary ,Dr Vikram, Prof. Shweta Kumari, Student member-Mr. Abhinav Singh Tomar , B. Tech Final Year,

EED, Mr. Ritik Gupta, B. Tech Third

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. Shishir Dixit Online Faculty Development Program AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" at Institute of Engineering and Technology Devi Ahilya University Indore FROM 13TH TO 17TH October 2020.
- ▶ Dr. Shishir Dixit attended online International Summit on Quality Indices in Higher Education organised by Delhi. Technological University, Delhi from 6th to 7th NOV 2002
- > **Dr. Shishir Dixit,** attended AICTE Training And Learning (ATAL) Academy Online FDP on "Energy Engineering" at National Institute of Technology Agarta from 23rd to 27th NOV 2020.
- Prof. Saurabh Kr Rajput, attended FDP on Recent Trends in Energy and Power System (RTEPS) 19th to 23rd OCT 2020
- Dr. Vikram attended IIST Online FDP on Control and Automation from
- ▶ Prof. Shailendra Pratap Singh attended IIST Online FDP on Control and Automation from 15th -18th DEC 2020.
- ▶ Prof. Shailendra Pratap Singh attended AICTE ATAL Sponsored FDP on Application of AI in Engineering from 14th 18th DEC 2020
- ▶ **Prof Aprajita Kumari** attended TEQIP III Short-Term Course on "Deep Dive in Deep Vision" FROM 7^{TH} TO 9^{TH} DEC 2020.

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

- Rashmi Kumari has participated in Online National Workshop on Internet of Things (IoT) and Data Analytics at MITS Gwalior from 23rd oct- 24th oct 2020.
- ➤ Nitin Goyal has completed NPTEL Courses on Semiconductor devices and circuits and Selection of nanomaterials for energy harvesting and storage application, Technologies for clean and renewable energy production.
- > AJAY SHARMA has completed NPTEL Course Semiconductor devices and circuit.

PUBLICATIONS

- ➢ Book Chapter 1: Singh A.P., Singhal A., Athaya A., Rajput S.K., Srivastava L., Sharma V. (2021) Energy Audit of Hybrid (Grid, Solar Rooftop Photovoltaic System and Diesel Generator) Electric Power Supply System: A Case Study of Commercial Building. In: Gupta O.H., Sood V.K. (eds) Recent Advances in Power Systems. Lecture Notes in Electrical Engineering, vol 699. Springer, Singapore. http://doi-org-443.webvpn.fimu.edu.cn/10.1007/978-981-15-7994-3 27
- ➤ PoonamSingh, ManjareePandit, LaxmiSrivastava, "Comparison of Traditional and Swarm Intelligence based Techniques for Optimization of Hybrid Renewable Energy System", Renewable Energy Focus, doi.org/10.1016/j.ref.2020.06.010, (Available online since 3 July 2020, In Press, Journal Pre-proof) Volume 35, December 2020, Pages 1-9
- Vishal choudhary, Hari Mohan Dubey, Manjaree Pandit, J.C.Bansal, "Multi-Area Economic Dispatch with Stochastic Wind Power using Salp Swarm Algorithm", Array 8 (2020) 100044 (Available online 11 September 2020) doi.org/10.1016/j.array.2020.100044
- Nikhil Paliwal, Laxmi Srivastava, Manjaree Pandit, "Application of grey wolf optimization algorithm for load frequency control in multi-source single area power system", Evolutionary Intelligence, https://doi.org/10.1007/s12065-020-00530-5, November 2020
- > Sunita Shukla, Manjaree Pandit, "Multi-objective fuzzy rank based scheduling of utility connected microgrid with high renewable energy using differential evolution with dynamic mutation" accepted for publication on 26th December 2020 in International Transactions on Electrical Energy Systems (ITEES) Wiley.
- ➤ Book Chapter (Accepted): Rajput S.K., Wadhwani S., Singh J. (2021), "Reliability and Energy Efficiency of Ring Frame Machine in Textile Industries: Secure, Smart, and Reliable Network" Lect. Notes Electrical Eng., Vol. 721, Rajeev Agrawal et al. (Eds): Advances in Smart Communication and Imaging systems, 978-981-15-9937-8, 488434_1_En, (Chapter 61) International Conference Paper: Rajput S.K., Dheer D.K., Wadhwani S., "Improving Energy Efficiency of Ring Frame Motor of Textile Industry", December 2020 ICSISCET, Madhav Institute of Technology & Science, Gwalior, MP. India.

PUBLICATIONS

- ▶ Book Chapter 1: Singh A.P., Singhal A., Athaya A., Rajput S.K., Srivastava L., Sharma V. (2021) Energy Audit of Hybrid (Grid, Solar Rooftop Photovoltaic System and Diesel Generator) Electric Power Supply System: A Case Study of Commercial Building. In: Gupta O.H., Sood V.K. (eds) Recent Advances in Power Systems. Lecture Notes in Electrical Engineering, vol 699. Springer, Singapore. http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-7994-3 27
- ▶ Book Chapter 2: Babul A.K., Rajput S.K., Singh H., Yadaw R.C. (2021) Energy and Economic Analysis of Grid-Type Roof-Top Photovoltaic (GRPV) System. In: Singh A.K., Tripathy M. (eds) Control Applications in Modern Power System. Lecture Notes in Electrical Engineering, vol 710. Springer, Singapore. http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-8815-0 34
- ➤ **Book Chapter3 (Accepted):** Rajput S.K., Wadhwani S., Singh J. (2021), "Reliability and Energy Efficiency of Ring Frame Machine in Textile Industries: Secure, Smart, and Reliable Network" Lect. Notes Electrical Eng., Vol. 721, Rajeev Agrawal et al. (Eds): Advances in Smart Communication and Imaging systems, 978-981-15-9937-8, 488434_1_En, (Chapter 61)
- ➤ International Conference Paper: Rajput S.K., Dheer D.K., Wadhwani S., "Improving Energy Efficiency of Ring Frame Motor of Textile Industry", December 2020 ICSISCET, Madhav Institute of Technology & Science, Gwalior, MP. India.
- Kingshuk Roy, Laxmi Srivastava, Shishir Dixit, "MVO Based Approach for Optimal DG and Capacitor Allocation" in Second International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET- 2020)" December 18 - 19, 2020.
- ➤ Vinay Kumar, **Shishir Dixit**, Modified DC-DC Converter for integration of Energy sources in Second International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET- 2020)" December 18 19, 2020.

DEPARTMENT ACTIVITES

- ➤ 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.Shishir Dixit delivered an expert talk on TPC and Reviewer in 2nd International Conference on Enhanced Research and Industrial Application 2020 8 October 2020 -Yogyakarta, Indonesia International Conference on Enhanced Research and Industrial Application
- > **Dr.Shishir Dixit** delivered an expert talk on TPC and Session Chair in 12th IIEEE International Conference (CICN 2020)