

FACULTY PROFILE



Name:Mr. Ravi Chaurasia

Designation:Assistant Professor

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Professional Qualification:

- PhD, NIT Kurukshetra, India, (Awaiting for final Ph.D. Defense)
- M-Tech, GBTU, Lucknow, India, 2012.
- B.Tech, UPTU, Lucknow, India, 2004.

Publications (Journals & Conferences):

- Chaurasia R, Gairola S, Pal Y. Performance investigation and estimation of the 1 kWp photovoltaic array for an isolated hilly area in India. Environmental Progress & Sustainable Energy.:e14091. (SCI, WoS)
- Chaurasia R, Gairola S, Pal Y. Technical, economic, and environmental performance comparison analysis of a hybrid renewable energy system based on power dispatch strategies. Sustainable Energy Technologies and Assessments. 2022 October 1;53:102787.(SCI, WoS)
- Sambhi S, Sharma H, Bhadoria V, Kumar P, Chaurasia R, Chaurasia GS, Fotis G, Vita V, Ekonomou L, Pavlatos C. Economic Feasibility of a Renewable Integrated Hybrid Power Generation System for a Rural Village of Ladakh. Energies. 2022 Jan;15(23):9126.(SCI, WoS)
- Chaurasia R, Gairola S, Pal Y. Assessment of the impact of battery selection on the feasibility of hybrid renewable energy systems. Energy Storage. 2022 Aug;4(4):e329. (ESCI, WoS)
- Chaurasia R, Gairola S, Pal Y. Technical, economic feasibility and sensitivity analysis of solar photovoltaic/battery energy storage off-grid integrated renewable energy system. Energy Storage. 2022 Feb;4(1):e283. (ESCI, WoS)

- Chaurasia R, Gairola S, Pal Y. Optimal planning and performance estimation of renewable energy model for isolated hilly Indian area. *Energy Systems*. 2021 Nov 9:1-34.(ESCI, WoS)
- Kumar N, Kumar J, Chaurasia R, Sharma H. Comparison of various load frequency control schemes in restructured power system environment. *InJournal of Physics: Conference Series* 2021 August 1 (Vol. 2007, No. 1, p. 012028). IOP Publishing. (SCOPUS, WoS)
- Chaurasia R, Viral R, Asija D, Bahar T. Performance Analysis of Self-Excited Induction Generator (SEIG) with ELC for the Wind Energy System. *InInnovations in Electrical and Electronic Engineering: Proceedings of ICEEE 2020 2021* (pp. 219-236). Springer Singapore. (SCOPUS, WoS)
- Dixit A, Sen D, Gupta VS, Chaurasia R. Designing of an economically configured solar power illumination system for scarcely electrified areas. *In2016 International Conference on Signal Processing, Communication, Power and Embedded System* 2016 October 3 (pp. 433-440). IEEE.(SCOPUS, WoS)
- Singh J, Singh B, Singh SP, Chaurasia R, Sachan S. Performance investigation of permanent magnet synchronous motor drive using vector controlled technique. *In2012 2nd International Conference on Power, Control and Embedded Systems* 2012 December 17 (pp. 1-11). IEEE. (SCOPUS, WoS)
- Chaurasia R, Gairola S, Pal Y, Viral R. Optimal Siting and Sizing of an Off-grid Integrated Renewable Energy System (IRES) For Remote Rural Electrification. *In2019 3rd International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE) 2019* Oct 10 (pp. 669-676). IEEE.(SCOPUS, WoS)
- Chaurasia R, Gairola S, Pal Y, Viral R. A study of optimization algorithms applied to Integrated Renewable Energy Systems. *In 2019 3rd International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE) 2019* October 10 (pp. 106-109). IEEE. (SCOPUS, WoS).
- Chaurasia Ravi, Gupta V. S., Viral R. K., and DebojyotiSen, "Performance Analysis of Self Excited Induction Generator (SEIG) with ELC for A Wind Energy System," *IEEE ICTPACT-2017*, Selaiyur, Chennai, Tamilnadu, India, 6-8 Apr 2017.
- Sambhi S, Sharma H, Bhadoria V, Kumar P, Chaurasia R, Chaurasia GS, Fotis G, Vita V, Ekonomou L, Pavlatos C. Technical and Economic Analysis of Solar PV/Diesel Generator Smart Hybrid Power Plant using Different Battery Storage Technologies for SRM IST Delhi-NCR Campus. *Sustainability*. (SCI, WoS)
- Chaurasia R, Gairola S, Pal Y, Renewable Energy Management through Integration of Nickel Iron Battery Technology for an Off-Grid Village In 2023 2^{1st} IEEE Interregional NEWCAS Conference. An IEEE CAS Society Interregional Flagship Conference(SCOPUS, WoS). *Communicated*

Patents

- Predictive fault detection in grid-connected PV-system using tanning-based model[Patent No-202211049006, Published, Awaiting Request for Examination]

- System and method for control of a grid-connected power generating system [Patent No- 202211056658, Published, Awaiting Request for Examination]
- System and method for remote health monitoring through the internet of things (IoT) [Patent No- 202211057636, Published, Awaiting Request for Examination]

WORK EXPERIENCE: 17 year +