

FACULTY PROFILE



NAME: Dr. Varsha Yadav

DESIGNATION: Lecturer, Electrical Engineering, Government Polytechnic, Kanpur, Uttar Pradesh

QUALIFICATION: Ph.D. in Electrical Engineering – Control of Renewable Energy Based Microgrid System; B.Tech. in Electrical & Electronics Engineering.

EXPERIENCE: 15+ years of academic, technical and professional experience in Electrical Engineering, including teaching, research, curriculum development, laboratory development, academic administration and project-oriented technical activities.

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RESEARCH INTERESTS: Renewable Energy Integration; Solar PV–Wind–BES Microgrids; Advanced Control; Smart Grids; Power Quality; Weak-Grid Synchronization; Energy Storage; Grid-Forming/Grid-Following Control; AI-Based Energy Management.

TEACHING AREAS: Electrical Engineering; Fundamental of Electrical and Electronic Engineering, Basics of Power Generating Systems, Electrical Circuits, Power Electronics; Power Systems; Renewable Energy Systems; Smart Grid; Electrical Machines; Energy Management; Electrical Measurements and Instrumentation.

PUBLICATIONS: 6 SCI -indexed journal papers and 11 Scopus-indexed IEEE international conference papers, including publications in IEEE Transactions on Industrial Informatics, Electric Power Systems Research, IET Energy Conversion and Economics and Sustainable Energy Technologies and Assessments.

WORKSHOP/CONFERENCES: Participated in and presented research at IEEE international conferences, including IEEE ICCCA, IEEE PEDES, IEEE GUCON, IEEE INDICON, IEEE NPSC, IEEE ICNTE, IEEE ICEPE, IEEE SEFET, IEEE IETC and IEEE PICC.

PROFESSIONAL MEMBERSHIP: Lifetime Fellow Metrology Society of India and IEEE Member.

EXTRA CURRICULAR INVOLVEMENT: Academic committees; student activities; cultural and sports activities; admission coordination; examination coordination; anti-ragging activities; student mentoring and institutional events/seminars.

ONLINE COURSES / VIDEO LINKS: No structured online course/NPTEL course developed to date.

ADDITIONAL INFORMATION: Design a three-year Diploma curriculum in Renewable Energy Engineering.