



Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)



Department of Electrical Engineering

M.Tech Integrated Power System

Course Name **MIP1107: Micro and Smart Grids** (Professional Elective-I)

MIP1107	Course Outcomes
CO1	Interpret Micro grid concepts, modes of operation and control, Protection and islanding issues, etc..
CO2	Analyze and design Power quality issues in micro grids like modeling and stability analysis, regulatory standards and economics and basic smart grid concepts Load and generation.
CO3	Design Power flow analysis, economic dispatch and unit commitment problems and various verticals of smart grid.
CO4	Implement Smart grid communication and measurement technologies like Phasor Measurement Unit (PMU), Smart meters, Wide Area Monitoring system (WAMS) etc..
CO5	Distinguish Renewable Energy Sources in smart grid and associated issues and their applications in Electric vehicles etc..