



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 **MIP1103: Advanced Power Electronics**

MIP1103	Course Outcomes
CO1	Analyze the driver circuit of different power semiconductor devices along with its characteristics and protection schemes.
CO2	Analyze the operation of single and three phase ac-ac voltage controllers with cycloconverters and Matrix converters, application of ac-ac converters.
CO3	Design the circuit transformer version of buck converters, buck-boost converter with applications.
CO4	Analyze various Resonant and soft switching converters, ZCR, ZVR switches with its applications.
CO5	Evaluate selective harmonic elimination, analyze single-phase VSI, Three-phase VSI with SPWM, SVPWM.