



**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)



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## Department of Electrical Engineering

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### M. Tech. Electric Vehicle Technology

**Course Name: MEV1110: Control Techniques for EV Converters**

MEV1110	Course Outcomes
CO1	<b>Distinguish</b> Converter topologies for AC/DC and DC/AC power conversion
CO2	<b>Judge</b> the pulse width modulation techniques for 1-phase and 3-phase bridge converters
CO3	<b>Calculate</b> the switching and conduction losses and compensation for dead time and DC voltage regulation
CO4	<b>Apply</b> extension of modulation methods to Multilevel inverters.
CO5	<b>Design</b> sine-triangle PWM, bus clamping PWM, space vector based PWM, advanced PWM techniques