



TULSIRAMJIGAIKWAD-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)



Department of Electronics & Communication Engineering

B.Tech Electronics & Communication Engineering

Course Name: **EC3506: Digital System Design**

| EC3506 | Course Outcome |
|---------------|---|
| CO1 | Understand programmable devices and discuss the architecture of CPLD and FPGA. |
| CO2 | Apply basic knowledge of Hardware description Language, design flow and design Methodology. |
| CO3 | Analyze combinational circuits which give fundamental concepts and techniques used in digital electronics. |
| CO4 | Analyze sequential circuits and components used in the typical data path designs: Register, Adders, Shifters, Comparators; Counters, Multiplier, Arithmetic-Logic Units (ALUs), RAM. |
| CO5 | Implement Computer-Aided Design (CAD) tools which is essential to the design of digital circuits. |