

SCHOOL OF ENGINEERING AND TECHNOLOGY AMBI, TALEGAON, PUNE Department of Electronics & Telecommunication Engineering Subject Basket for M. Tech (E&TC – VLSI and Embedded Systems)

School of Engineering and Technology

Ambi, Talegaon, Pune

M. Tech (E&TC – VLSI and Embedded Systems) Programme for Academic Year 2020 - 2021

Batch 2020 - 2022

SUBJECT BASKET



SCHOOL OF ENGINEERING AND TECHNOLOGY AMBI, TALEGAON, PUNE

Department of Electronics & Telecommunication Engineering

Subject Basket for M. Tech (E&TC – VLSI and Embedded Systems)

FIRST YEAR SEMESTER - I	FIRST YEAR SEMESTER - II	SECOND YEAR SEMESTER - III	SECOND YEAR SEMESTER - IV
M. Tech. in E&TC Engg.	M. Tech. in E&TC Engg.	M. Tech. in E&TC Engg.	M. Tech. in E&TC Engg.
RTL Simulation and Synthesis with PLDs & FPGAs	Analog & Digital CMOS VLSI Design	Testing and Verification of VLSI Circuits	Dissertation Phase II
Microcontrollers & Programmable Digital Signal Processor	Embedded Automotive Systems	ASIC Design Program Elective V	
Research Methodology and IPR Program Elective I (1) VLSI Signal Processing (2) MOS Device Modelling and	Program Elective III (1) Mixed Signal IC Design (2) Embedded SoC Design (3) Low Power VLSI Design	 (1) Communication Network (2) Reconfigurable Computing (3) Engineering Risk – Benefit Analysis (4) Selected Topics in Mathematics (5) Nano Materials & Nano Technology Open Elective	
Characteristics (3) Programming Languages for Embedded Software (4) Microelectromechanical Systems Program Elective II	Program Elective IV (1) IOT with Artificial Intelligence (2) Network Security and Cryptography (3) Embedded Signal Processor Architecture 	 Industrial Safety Real Time Operating System Advanced Processor Architecture Memory Technologies 	
(1) CAD of Digital Systems(2) System Design with Embedded Linux(3) Parallel Processing	(4) Physical Design Automation Seminar I / Mini Project	Seminar II / Mini Project	
Audit Course I	Audit Course II	Dissertation Phase I	

*The School/College has all the rights to revise the syllabus/curriculum at any time.



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Audit Course- I & II

M.Tech. in E&TC Engg VLSI & Embedded Systems
Disaster Management
Value Education
Constitution of India
Foreign Language
Economics for Engineers
English for Research Paper Writing
Personality Development through Life Enlightening Skills
Renewable Energy Studies