



D Y PATIL
UNIVERSITY

PUNE

SCHOOL OF ENGINEERING

AMBI, TALEGAON, PUNE

B. TECH ELECTRICAL PROGRAMME FOR ACADEMIC YEAR 2020-21

BATCH 2020 - 2024

SUBJECT BASKET

FIRST YEAR SEMESTER - I	FIRST YEAR SEMESTER - II	SECOND YEAR SEMESTER - III	SECOND YEAR SEMESTER - IV
<i>Electrical Engineering</i>	<i>Electrical Engineering</i>	<i>Electrical Engineering</i>	<i>Electrical Engineering</i>
Engineering Mathematics-I	Engineering Mathematics-II	Power System- I	Electrical Circuit Analysis
Engineering Physics / Engineering Chemistry	Engineering Physics / Engineering Chemistry	Analog and Digital Electronics	Electrical Machines – II
Engineering Graphics	Engineering Mechanics	Electrical Machines – I	Microprocessors & Micro controller
Basic Electrical Engineering	C Programming	Electrical Measurements and Instrumentation	Digital Computational Techniques
Basic Workshop Practices - I	English for Engineers	Mathematics – III	Material Science
Induction	Basic Workshop Practices - II	Introduction to CAD	
	Environmental Studies		

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

THIRD YEAR SEMESTER - V	THIRD YEAR SEMESTER - VI	FOURTH YEAR SEMESTER - VII	FOURTH YEAR SEMESTER - VIII
<i>Electrical Engineering</i>	<i>Electrical Engineering</i>	<i>Electrical Engineering</i>	<i>Electrical Engineering</i>
Power Systems -II	Stream Core I	Stream Core IV	Project stage or Internship
Control Systems	Stream Core II	Stream Elective-I	
Power Electronics	Stream Core III	Stream Elective-II	
Electronics Design Laboratory	Technical Elective-I	Open Elective-II	
Industrial Electrical systems	Open Elective-I	Technical Elective-II	
Slot for HS(Soft Skill)	Mini Project	Slot for HS	

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STREAM CORE Semester VI	
Electrical Engineering (EE)	
Stream Core I	Power Systems Operation and Control
Stream Core II	Advance Control Systems
Stream Core III	Electrical Installation, Maintenance & Testing
Electric Vehicle Technology (EVT)	
Stream Core I	Conventional Automotive Transmission
Stream Core II	Fundamental of Electrical Vehicle Dynamics
Stream Core III	EV Batteries, Standards & Testing

Technical Elective I	
SEM VI	Takers
Design of Electrical Machines	EE
Advanced Electric Drives	ALL
Intelligent Systems & its Applications in Electrical Engineering	ALL
Utilization of Electrical Energy	EE
Energy Conservation and Auditing	EE
Electric Drives & Control	EVT
Open Elective	
Project Management	
Business Economics and Financial Planning	
Cyber and Data Laws	
Intellectual Property Rights	
Remote sensing and GIS	

STREAM CORE Semester VII	
Electrical Engineering (EE)	
Stream Core IV	Power Electronic Controlled Drives
Electric Vehicle Technology (EVT)	
Stream Core IV	Vehicle Body Engineering
Stream Core Elective I & II	
Electrical Engineering (EE)	
High Voltage Engineering	
Switchgear and Protection	
EHVAC Transmission	
Electric and Hybrid Vehicles	
Restructuring and Deregulation	
Smart Grid	
Electric Vehicle Technology (EVT)	
Renewable Energy Sources	
Computer Aided Design of Electrical Machines	
Automotive Electrical & Electronics	
Design for manufacturing and assembly	

Technical Elective II	
SEM VII	Takers
HVDC & FACTS	EE
Illumination Engineering	ALL
PLC and SCADA Applications	ALL
Artificial-Neural-Network-Fuzzy-Logic-Applications	ALL
Computer Aided PCB Design	ALL
Power Quality	ALL