

Structure for

Bachelor of Technology (B.Tech.)

in

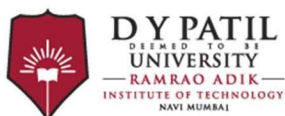
Electronics and Computer Engineering

With effect from A.Y. 2024-2025

B. TECH IN ELECTRONICS & COMPUTER ENGINEERING

Semester-I

Course Code	Course Name
2413FEB1T1	Engineering Mathematics-I
2413FEB1T2	Engineering Chemistry
2413FEE1T1	Engineering Graphics
2413FEE1T2	Basic Electrical Engineering
2413FEB1L1	Engineering Chemistry Lab
2413FEE1L1	Engineering Graphics Lab
2413FE1L2	Basic Electrical Engineering Lab
2413FES1L1	Basic Workshop Practices – I
2413FEI1L1	Indian Cultural Studies
2413FEL1L1	Health and Wellness



D Y PATIL
DEEMED TO BE
UNIVERSITY
— RAMRAO ADIK —
INSTITUTE OF TECHNOLOGY
NAVI MUMBAI

RAMRAO ADIK INSTITUTE OF TECHNOLOGY

D. Y. PATIL VIDYANAGAR, SECTOR - 7, NERUL, NAVI MUMBAI - 400706.

WEBSITE: www.dypatil.edu/schools/rait



D Y PATIL
DEEMED TO BE
UNIVERSITY
— RAMRAO ADIK —
INSTITUTE OF TECHNOLOGY
NAVI MUMBAI

RAMRAO ADIK INSTITUTE OF TECHNOLOGY

D. Y. PATIL VIDYANAGAR, SECTOR - 7, NERUL, NAVI MUMBAI - 400 706

WEBSITE: <https://dypatil.edu/schools/ramrao-adik-institute-of-technology>

B. TECH IN ELECTRONICS & COMPUTER ENGINEERING

Semester-II

Course Code	Course Name
2413FEB2T1	Engineering Mathematics-II
2413FEB2T2	Engineering Physics
2413FEE2T1	Engineering Mechanics
2413FEC2T1	C Programming
2413FEA2T1	English for Engineers
2413FEB2L1	Engineering Physics Lab
2413FEE2L1	Engineering Mechanics Lab
2413FEC2L1	C Programming Lab
2413FES2L1	Basic Workshop Practices - II
2413FEL2L1	Sports and Yoga

B. TECH IN ELECTRONICS & COMPUTER ENGINEERING

Semester-III

Course Category	Course Code	Course Name
Programme Core Course	2413ECC3T1	Electronic Devices and Circuit Theory
	2413ECC3T2	Database Management System
	2413ECC3T3	Applied Mathematics– III
Multidisciplinary Minor - I	2413ECU3T1	Embedded Systems
Open Elective - I	2413ECG3T1 (Management)	Human Resource Management
	2413ECG3T2 (Technology)	Emerging Trends in Technology
	2413ECG3T3 (Behaviour Science)	Innovation and Creativity
	2413ECG3T4 (Economics)	Accounting for Everyone
Ability Enhancement Course	2413ECA3T1	Business English and Communication
Value Education Course	2413ECV3T1	Environmental Science
Vocational Skill Enhancement Course	2413ECS3L1	Skill Based Lab I OOPM with JAVA
Programme Core Course Lab	2413ECC3L1	Electronic Devices and Circuit Theory Lab
	2413ECC3L2	Database Management System Lab

B. TECH IN ELECTRONICS & COMPUTER ENGINEERING

Semester-IV

Course Category	Course Code	Course Name
Programme Core Course	2413ECC4T1	Digital Logic Design
	2413ECC4T2	Data Structure Essentials
	2413ECC4T3	Applied Mathematics- IV
Multidisciplinary Minor - II	2413ECU4T1	Introduction to Internet of Things
Open Elective – II	2413ECG4T1 (Management)	Project Management
	2413ECG4T2 (Technology)	E-commerce and Digital Marketing
	2413ECG4T3 (Behaviour Science)	Design Thinking
	2413ECG4T4 (Economics)	Microeconomics
Humanities Social Science and Management	2413ECH4T1	Financial Management
Vocational Skill Enhancement Course	2413ECS4L1	Skill Based Lab –II Python
Common Engg. Project / Field Project	2413ECP4L1	Mini Project-I
Programme Core Course Lab	2413ECC4L1	Digital Logic Design Lab
	2413ECC4L2	Data Structures Essentials Lab
Audit Course	2413ECQ4T1	Constitution of India

B. TECH IN ELECTRONICS & COMPUTER ENGINEERING

Semester-V

Course Category	Course Code	Course Name
Programme Core Course	2413ECC5T1	Neural Network and Fuzzy Logic
	2413ECC5T2	Design and Analysis of Algorithms
	2413ECC5T3	Digital Signal Processing
Program Elective Course - I	2413ECD5T1	Web Technology
	2413ECD5T2	Introduction to Data Science
	2413ECD5T3	Basic VLSI Design
	2413ECD5T4	Principles of Communication Engineering
Multidisciplinary Minor - III	2413ECU5T1	Industrial Automation
Open Elective - III	2413ETG5T1 (Management)	Products, Services & IT Service Management
	2413ECG5T2 (Technology)	Cyber and Data Law
	2413ECG5T3 (Behaviour Science)	Comprehensive Skill Development for Employability
	2413ECG5T4 (Economics)	Business Administration
Humanities Social Science and Management	2413ECH5T1	Entrepreneurship Development and Management
Programme Core Course Lab	2413ECC5L1	Neural Network and Fuzzy Logic Lab
	2413ECC5L2	Design and Analysis of Algorithms Lab
	2413ECC5L3	Digital Signal Processing Lab
Program Elective Course - I Lab	2413ECD5L1	Web Technology Lab
	2413ECD5L2	Introduction to Data Science Lab
	2413ECD5L3	Basic VLSI Design Lab
	2413ECD5L4	Principles of Communication Engineering Lab

B. TECH IN ELECTRONICS & COMPUTER ENGINEERING

Semester-VI

Course Category	Course Code	Course Name
Programme Core Course	2413ECC6T1	Linear Control System
	2413ECC6T2	Computer Communication Network
Program Elective Course - II	2413ECD6T1	Automata Theory
	2413ECD6T2	Real Time Operating System
	2413ECD6T3	CMOS VLSI Design
	2413ECD6T4	Wireless and Mobile Communication
Program Elective Course - III	2413ECD6T5	Renewable Energy Distributed System
	2413ECD6T6	Big Data Analytics
	2413ECD6T7	Computer Organization and Architecture
	2413ECD6T8	Cryptography and Network Security
Multidisciplinary Minor - IV	2413ECU6T1	Mechatronics
Vocational and Skill Enhancement Course	2413ECS6L1	Skill Based Lab-III MATLAB
CEP/FP (Common Engineering Project/Field Project)	2413ECP6L1	Mini Project- II
Programme Core Course Lab	2413ECC6L1	Linear Control System Lab
	2413ECC6L2	Computer Communication Network Lab
Program Elective Course – II Lab	2413ECD6L1	Automata Theory Lab
	2413ECD6L2	Real Time Operating System Lab
	2413ECD6L3	CMOS VLSI Design Lab
	2413ECD6L4	Wireless and Mobile Communication Lab
Program Elective Course – III Lab	2413ECD6L5	Renewable Energy Distributed System Lab
	2413ECD6L6	Big Data Analytics Lab
	2413ECD6L7	Computer Organization and Architecture Lab
	2413ECD6L8	Cryptography and Network Security lab

B. TECH IN ELECTRONICS & COMPUTER ENGINEERING

Semester-VII

Course Category	Course Code	Course Name
Programme Core Course	2413ECC7T1	Software Engineering
	2413ECC7T2	Machine Learning
Program Elective Course - IV	2413ECD7T1	Introduction to UAV
	2413ECD7T2	Cloud Computing
	2413ECD7T3	Introduction to Cyber Physical Systems
	2413ECD7T4	5G Communication Technologies
Program Elective Course - V	2413ECD7T5	Introduction to Augmented Reality and Virtual Reality
	2413ECD7T6	Robotics
	2413ECD7T7	Cyber Security
	2413ECD7T8	High Performance Computing
Research Methodology	2413ECR7T1	Research Methodology
	2413ECR7T2	Intellectual Property Rights
Programme Core Course Lab	2413ECC7L1	Software Engineering Lab
	2413ECC7L2	Machine Learning Lab
Program Elective Course - IV Lab	2413ECD7L1	Introduction to UAV Lab
	2413ECD7L2	Cloud Computing Lab
	2413ECD7L3	Introduction to Cyber Physical Systems Lab
	2413ECD7L4	5G Communication Technologies Lab
Program Elective Course - V Lab	2413ECD7L5	Introduction to Augmented Reality and Virtual Reality Lab
	2413ECD7L6	Robotics Lab
	2413ECD7L7	Cyber Security Lab
	2413ECD7L8	High Performance Computing Lab
Project	2413ECP7L1	Project

B. TECH IN ELECTRONICS & COMPUTER ENGINEERING

Semester-VIII

Course Category	Course Code	Course Name
Multidisciplinary Minor - V	2413ECU8T1	NPTEL Course 1
Multidisciplinary Minor - VI	2413ECU8T2	NPTEL Course 2
Internship /OJT	2413ECN8L1	Internship