B.Tech. Electronics and Communication Engineering

This program offers in-depth knowledge in communication engineering through both theoretical learning and practical sessions. Students are exposed to key areas such as Digital and Wireless Communications, Wireless Networks, Optical Communications, Microwave Circuits, and Signal Processing. The program provides valuable hands-on experience under the guidance of experienced faculty members.

PROGRAMME STRUCTURE

SEMESTER I (Physics Cycle)
- BMATS101   Mathematics-2 Optimization Techniques for CS stream
- BPHY102   Modern Physics for CSE stream
- BCS103   Python Programming for Beginners
- BEC104   Introduction to Electrical Engineering
- BCS105   Web Programming Fundamentals
- BENG106   Communicative English
- BCO107   Indian Constitution
- BCS108   Drafting Techniques with CAD

SEMESTER I (Chemistry Cycle)
- BMATS101   Mathematics-I Complex Variables and Linear Algebra
- BCHE102   Applied Chemistry for CSE stream
- BCS103   Computational Problem-Solving Using C
- BEC104   Basics of Electronics and Communication
- BCS105   Introduction to Embedded System
- BDEPT106   Corporate Social Responsibility
- BK107   Kannada
- BCS109   Innovative Thinking & Design Strategies

SEMESTER II (Physics Cycle)
- BMATS101   Mathematics-2 Optimization Techniques for CS stream
- BPHY102   Modern Physics for CSE stream
- BCS103   Python Programming for Beginners
- BEC104   Introduction to Electrical Engineering
- BCS105   Web Programming Fundamentals
- BENG106   Communicative English
- BCO107   Indian Constitution
- BCS108   Drafting Techniques with CAD

SEMESTER II (Chemistry Cycle)
- BMATS101   Mathematics-2 Optimization Techniques for CS stream
- BCHE102   Applied Chemistry for CSE stream
- BCS103   Computational Problem-Solving Using C
- BEC104   Basics of Electronics and Communication
- BCS105   Introduction to Embedded System
- BDEPT106   Corporate Social Responsibility
- BK107   Kannada
- BCS109   Innovative Thinking & Design Strategies

SEMESTER III
- BMAT301   Mathematics-III: Differential Equations and Laplace Transforms
- BEC302   Digital System Design using Verilog
- BEC303   Signal Processing

- BEC304   Network Analysis
- BECL305   Signal Processing Laboratory
- BEC306   Computer Organization and Architecture
- BEC307   Social Connect and Responsibility
- BEC308   Data Structures using C
- BNSS309   National Service Scheme (NSS)
- BPE309   Physical Education (PE) (Sports and Athletics)
- BYG309   Yoga

SEMESTER IV

- BEC401   Electro-magnetic Theory and Waves
- BEC402   Principles of Communication Systems
- BEC403   Microcontrollers & Interfacing
- BEC404   Digital System Design using Verilog
- BECL405   Microcontrollers & Interfacing Laboratory
- BEC406   Programmable Logic Controllers
- BBT407   Biology For Engineers
- BDEPT408   Universal human values
- BNSS409   National Service Scheme (NSS)
- BPE409   Physical Education (PE)(Sports and Athletics)
- BYG409   Yoga

SEMESTER V

- BEC501   Technological Innovation and Management
- BEC502   Entrepreneurship
- BEC503   Computer Networks and Cyber
- BECL504   Security
- BEC505   Digital Communication
- BEC506   Digital Communication Lab
- BEC507   Intelligent Systems and Machine Learning Algorithms
- BEC508   Mini Project
- BNSS509   Research Methodology & IPR
- BPE509   Environmental Studies
- BYG509   National Service Scheme(NSS)
     Yoga
     Physical Education(PE)

SEMESTER VI

- BEC601   Embedded System Design
- BEC602   VLSI Design and Testing
- BEC603   Multimedia Communication
- BEC604   Open Elective 1(offered by other branches)
- BEC605   Major Project Phase I
- BECL606   VLSI Design and Testing Lab
- BEC607   Python Programming for Machine Learning Applications
- BEC608   Internship
- BNSS609   National Service Scheme (NSS)
- BPE609   Yoga
- BYG609   Physical Education (PE)
     (Sports and Athletics)

SEMESTER VII

- BEC701   Microwave Engineering and Antenna Theory
- BEC702   Wireless Communication & Networks
- BEC703   Radio Frequency and Microwave Engineering
- BEC704   Application Specific Integrated Circuit
- BEC705   Open Elective -II (offered by other branches)
- BEC706   Major Project Phase-II

SEMESTER VIII

- BEC801   *NPTEL COURSE 1
- BEC802   *NPTEL COURSE 2
- BEC803   Internship(Industry/Research)(14-20weeks)