B.TECH ECE PROGRAM STUCTURE FOR 2021-25 (R20) REGULATION

I B.TECH I SEMESTER

Course Code	Course Name
C111	Linear Algebra & Calculus (LAC)
C112	Engineering Chemistry (EC)
C113	Programming for Problem Solving (PPS)
C114	Engineering Graphics (EG)
C115	English (ENG)
C116	Engineering Chemistry Lab (EC LAB)
C117	Programming for Problem Solving Lab (PPS Lab)
C118	English Language & Communication Skills Lab (ELCS Lab)
C119	Employability Skills – I (Aptitude)

I B.TECH II SEMESTER

Course Code	Course Name
C121	Differential Equations & Vector Calculus (DEVC)
C122	Applied Physics (AP)
C123	Data Structures (DS)
C124	Basic Electrical Engineering (BEE)
C125	Engineering Workshop (EW)
C126	Applied Physics Lab (AP Lab)
C127	Data Structures Lab (DS Lab)
C128	Basic Electrical Engineering Lab (BEE Lab)
C129	Employability Skills – II (Business English for Engineers)

II B.TECH I SEMESTER

Course Code	Course Name
C211	Electronic Devices and Circuits (EDC)
C212	Digital System Design (DSD)
C213	Signals & Systems (SS)
C214	Laplace Transforms, Numerical Methods & Complex Variables (LTNMCV)
C215	Probability Theory & Stochastic Processes (PTSP)
C216	Electronic Devices and Circuits Lab (EDC Lab)
C217	Digital System Design Lab (DSD Lab)
C218	Signals & Systems Lab (SS Lab)
C219	Environmental Science (ES)
C21A	Employability Skills – III

II B.TECH II SEMESTER

Course Code	Course Name
C221	Networks Analysis & Transmission Lines (NATL)
C222	Analog & Digital Communications (ADC)
C223	Linear IC Applications (LICA)
C224	Electronic Circuit Analysis (ECA)
C225	Control Systems (CS)
C226	Analog & Digital Communications Lab (ADC Lab)
C227	IC Applications Lab (ICA Lab)
C228	Electronic Circuit Analysis Lab (ECA Lab)
C229	Gender Sensitization Lab (GS Lab)
C22A	Employability Skills – IV

III B.TECH I SEMESTER

Course Code	Course Name
C311	Business Economics & Financial Analysis (BEFA)
C312	Microprocessors & Microcontrollers (MPMC)
C313	Digital Signal Processing (DSP)
C314	Electromagnetic Fields & Waves (EMFW)
C315	Digital Image & Video Processing (DIVP)
C316	Microprocessors & Microcontrollers Lab (MPMC Lab)
C317	Digital Signal Processing Lab (DSP Lab)
C318	Advanced Communication Skills Lab (ACS Lab)
C319	Constitution of India
C31A	Employability Skills – V

III B.TECH II SEMESTER

Course Code	Course Name
C321	Embedded System Design (ESD)
C322	Antennas & Wave Propagation (AWP)
C323	VLSI Design (VLSID)
C324	FPGA Programming (FPGAP)
C325	Java Programming (JAVAP)
C326	Scripting Languages Lab (SL Lab)
C327	ECAD Lab
C328	Intellectual Property Rights
C329	Cyber Security

IV B.TECH I SEMESTER

Course Code	Course Name
C411	Data Communications & Networks (DCN)
C412	Microwave Engineering (MWE)
C413	Python Programming (PP)
C414	Wireless Communication Networks (WCN)
C415	Electronic Measurements & Instrumentation (EMI)
C416	Digital CMOS IC Design (DCID)
C417	Data Communications & Networks Lab (DCN Lab)
C418	Microwave Engineering Lab (MWE Lab)
C419	Industry Oriented Mini Project/ Summer Internship (IOMP)
C41A	Project Stage – I (PSI)
C41B	Artificial Intelligence (AI)

IV B.TECH II SEMESTER

Course Code	Course Name
C421	Software Testing Methodologies (STM)
C422	Network Security & Cryptography (NSC)
C423	Global Positioning System (GPS)
C424	Seminar
C425	Project Stage – II (PSII)

B.TECH ECE PROGRAM STUCTURE FOR 2020-24 (R20) REGULATION

I B.TECH I SEMESTER

Course Code	Course Name
C111	Linear Algebra & Calculus (LAC)
C112	Engineering Chemistry (EC)
C113	Programming for Problem Solving (PPS)
C114	Engineering Graphics (EG)
C115	English (ENG)
C116	Engineering Chemistry Lab (EC LAB)
C117	Programming for Problem Solving Lab (PPS Lab)
C118	English Language & Communication Skills Lab (ELCS Lab)
C119	Employability Skills – I (Aptitude)

I B.TECH II SEMESTER

Course Code	Course Name
C121	Differential Equations & Vector Calculus (DEVC)
C122	Applied Physics (AP)
C123	Data Structures (DS)
C124	Basic Electrical Engineering (BEE)
C125	Engineering Workshop (EW)
C126	Applied Physics Lab (AP Lab)
C127	Data Structures Lab (DS Lab)
C128	Basic Electrical Engineering Lab (BEE Lab)
C129	Employability Skills – II (Business English for Engineers)

II B.TECH I SEMESTER

Course Code	Course Name
C211	Electronic Devices and Circuits (EDC)
C212	Digital System Design (DSD)
C213	Signals & Systems (SS)
C214	Laplace Transforms, Numerical Methods & Complex Variables (LTNMCV)
C215	Probability Theory & Stochastic Processes (PTSP)
C216	Electronic Devices and Circuits Lab (EDC Lab)
C217	Digital System Design Lab (DSD Lab)
C218	Signals & Systems Lab (SS Lab)
C219	Environmental Science (ES)
C21A	Employability Skills – III

II B.TECH II SEMESTER

Course Code	Course Name
C221	Networks Analysis & Transmission Lines (NATL)
C222	Analog & Digital Communications (ADC)
C223	Linear IC Applications (LICA)
C224	Electronic Circuit Analysis (ECA)
C225	Control Systems (CS)
C226	Analog & Digital Communications Lab (ADC Lab)
C227	IC Applications Lab (ICA Lab)
C228	Electronic Circuit Analysis Lab (ECA Lab)
C229	Gender Sensitization Lab (GS Lab)
C22A	Employability Skills – IV

III B.TECH I SEMESTER

Course Code	Course Name
C311	Business Economics & Financial Analysis (BEFA)
C312	Microprocessors & Microcontrollers (MPMC)
C313	Digital Signal Processing (DSP)
C314	Electromagnetic Fields & Waves (EMFW)
C315	Digital Image & Video Processing (DIVP)
C316	Microprocessors & Microcontrollers Lab (MPMC Lab)
C317	Digital Signal Processing Lab (DSP Lab)
C318	Advanced Communication Skills Lab (ACS Lab)
C319	Constitution of India (COI)
C31A	Employability Skills – V (EPS-V)

III B.TECH II SEMESTER

Course Code	Course Name
C321	Embedded System Design (ESD)
C322	Antennas & Wave Propagation (AWP)
C323	VLSI Design (VLSID)
C324	FPGA Programming (FPGAP)
C325	Java Programming (JAVAP)
C326	Scripting Languages Lab (SL Lab)
C327	ECAD Lab
C328	Intellectual Property Rights (IPR)
C329	Cyber Security (CSY)

IV B.TECH I SEMESTER

Course Code	Course Name
C411	Data Communications & Networks (DCN)
C412	Microwave Engineering (MWE)
C413	Python Programming (PP)
C414	Wireless Communication Networks (WCN)
C415	Electronic Measurements & Instrumentation (EMI)
C416	Digital CMOS IC Design (DCID)
C417	Data Communications & Networks Lab (DCN Lab)
C418	Microwave Engineering Lab (MWE Lab)
C419	Industry Oriented Mini Project/ Summer Internship (IOMP)
C41A	Project Stage – I (PSI)
C41B	Artificial Intelligence (AI)

IV B.TECH II SEMESTER

Course Code	Course Name
C421	Software Testing Methodologies (STM)
C422	Network Security & Cryptography (NSC)
C423	Global Positioning System (GPS)
C424	Seminar
C425	Project Stage – II (PSII)

B.TECH ECE PROGRAM STUCTURE FOR 2019-23 (R18) REGULATION

I B.TECH I SEMESTER

Course Code	Course Name
C111	Mathematics-I (M1)
C112	Applied Physics (AP)
C113	Programming for Problem Solving (PPS)
C114	Engineering Graphics (EG)
C115	Applied Physics Lab (AP Lab)
C116	Programming for Problem Solving Lab (PPS Lab)
C117	Environmental Science (ES)

I B.TECH II SEMESTER

Course Code	Course Name
C121	Mathematics-II (M2)
C122	Chemistry (CHM)
C123	Basic Electrical Engineering (BEE)
C124	Engineering Workshop (EW)
C125	English (ENG)
C126	Engineering Chemistry Lab (EC Lab)
C127	English Language Communication Skills Lab (ELCS Lab)
C128	Basic Electrical Engineering Lab (BEE Lab)

II B.TECH I SEMESTER

Course Code	Course Name
C211	Electronic Devices & Circuits (EDC)
C212	Network Analysis & Transmission Lines (NATL)
C213	Digital System Design (DSD)
C214	Signals & Systems (S&S)
C215	Probability Theory & Stochastic Processes (PTSP)
C216	Electronic Devices & Circuits Lab (EDC Lab)
C217	Digital System Design Lab (DSD Lab)
C218	Basic Simulation Lab (BS Lab)
C219	Constitution of India

II B.TECH II SEMESTER

Course Code	Course Name
C221	Laplace Transforms Numerical Methods & Complex Variables (LTNMCV)
C222	Electromagnetic Fields & Waves (EMFW)
C223	Analog & Digital Communications (ADC)
C224	Linear IC Applications (LICA)
C225	Electronic Circuit Analysis (ECA)
C226	Analog & Digital Communications Lab (ADC Lab)
C227	IC Applications Lab (ICA Lab)
C228	Electronic Circuit Analysis Lab (ECA Lab)
C229	Gender Sensitization Lab (GS Lab)

III B.TECH I SEMESTER

Course Code	Course Name
C311	Microprocessors & Microcontrollers (MPMC)
C312	Data Communication & Networks (DCN)
C313	Control Systems (CS)
C314	Business Economics & Financial Analysis (BEFA)
C315	Electronic Measurements & Instrumentation (EMI)
C316	Microprocessors & Microcontrollers Lab (MPMC Lab)
C317	Data Communication & Networks Lab (DCN Lab)
C318	Advanced Communication Skills Lab (ACS Lab)
C319	Intellectual Property Rights (IPR)
C31A	Cyber Security

III B.TECH II SEMESTER

Course Code	Course Name
C321	Antennas & Propagation (AP)
C322	Digital Signal Processing (DSP)
C323	VLSI Design (VLSID)
C324	Embedded Systems Design (ESD)
C325	Object Oriented Programming through Java (OOPTJ)
C326	Fundamentals of Management for Engineers (FOME)
C327	Digital Signal Processing Lab (DSP Lab)
C328	e-CAD Lab (ECAD LAB)
C329	Scripting Language Lab (SL Lab)
C32A	Environmental Science (ES)
C32B	Artificial Intelligence (AI)

IV B.TECH I SEMESTER

Course Code	Course Name
C411	Microwave & Optical Communications (MWOC)
C412	Digital Image Processing (DIP)
C413	Database Management Systems (DBMS)
C414	Python Programming (PP)
C415	Professional Practice Law & Ethics (PPLE)
C416	Microwave & Optical Communications Lab (MWOC Lab)
C417	Industrial Oriented Mini Project/ Summer Internship (IOMP/SI)
C418	Seminar
C419	Project Stage –I

IV B.TECH II SEMESTER

Course Code	Course Name
C421	Wireless Sensor Networks (WSN)
C422	Low Power VLSI Design (LPVLSID)
C423	Machine Learning (ML)
C424	Project Stage –II