## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
### ANANTHAPURAMU - 515 002 (A.P.) - INDIA

**Examination Branch**

B.Tech IV Year I Semester (R20) Regular & Supplementary October/November 2025 Examinations

Time: 10:00 AM to 01:00 PM

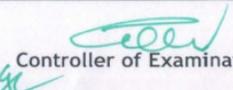| Date / Day | COMPUTER SCIENCE & INFORMATION TECHNOLOGY | INFORMATION TECHNOLOGY | ARTIFICIAL INTELLIGENCE & DATASCIENCE | CSE (ARTIFICIAL INTELLIGENCE) | CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | CSE (DATA SCIENCE) | CSE (INTERNET OF THINGS) | COMPUTER SCIENCE &ENGINEERING |
|---|---|---|---|---|---|---|---|---|
| **27.10.2025 Monday** | Cyber Security 20A05705a | | Process Mining 20A30701a | Recommender Systems 20A31701a | | Cyber Security 20A05705a | | Agile Methodologies 20A05701b |
| | Human Computer Interaction 20A12702a | | Intelligent Information Retrieval Systems 20A30701b | | | User Interface Design 20A32701a | Privacy and Security in IOT 20A35702a | Vehicular Adhoc Networks 20A05701c |
| | ... | | Knowledge Representation and Reasoning 20A30701c | | | Process Mining 20A32701b | ... | ... |
| **29.10.2025 Wednesday** | | Game Development 20A12703a | Optimization Techniquesin AI 20A30702a | Optimization Techniques in AI 20A31702a | | Cryptography & Network Security 20A05702b | Big Data Analytics for IOT 20A35701a | ... |
| | Augmented Reality & VirtualReality 20A12703b | | ... | | | | Business Analytics 20A35701b | Cryptography & NetworkSecurity 20A05702b |
| | Computer Vision 20A05604c | | | Game Development in AI 20A31702b | Machine Learning for Unstructured Data 20A33701a | | Data Visualization 20A32601T | |
| **31.10.2025 Friday** | Advanced Databases 20A12701a | | Dev Ops 20A30703a | | | Bio Informatics 20A32702a | Wearable Computing 20A35703c | Full Stack Development 20A05703a |
| | ... | | | | | Social Network Analysis 20A32702b | Fog and Edge Computing 20A35703a | |
| | .. | | Reinforcement Learning 20A30703b | | | | Industrial and Medical IOT 20A35703b | ... |

Date: 10-10-2025

Controller of Examinations

B.Tech IV Year I Semester (R20) Regular & Supplementary October/November 2025 Examinations

Time: 10:00 AM to 01:00 PM

| Date / Day | COMPUTER SCIENCE & INFORMATION TECHNOLOGY | INFORMATION TECHNOLOGY | ARTIFICIAL INTELLIGENCE & DATA SCIENCE | CSE (ARTIFICIAL INTELLIGENCE) | CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | CSE (DATA SCIENCE) | CSE (INTERNET OF THINGS) | COMPUTER SCIENCE & ENGINEERING |
|---|---|---|---|---|---|---|---|---|
| 03.11.2025 Monday | Entrepreneurship and Incubation 20A52701a | | | | | | | |
| | Management Science 20A52701b | | | | | | | |
| | Enterprise Resource Planning 20A52701c | | | | | | | |
| 05.11.2025 Wednesday | Open Elective Course - III (See Annexure-I) | | | | | | | |
| 07.11.2025 Friday | Open Elective Course - IV (See Annexure-II) | | | | | | | |
| 10.11.2025 Monday | Blockchain Technology and Applications 20A05703b | | | | | | | |
| 12.11.2025 Wednesday | Deep Learning 20A05703c | | | --- | | Deep Learning 20A05703c | --- | Deep Learning 20A05703c |
| 14.11.2025 Friday | Natural LanguageProcessing 20A05702c | | AI for Image Analysis 20A30702b | | | Natural Language Processing 20A05702c | --- | Natural Language Processing 20A05702c |
| 17.11.2025 Monday | --- | | | | | | | Cloud Computing 20A05701a |
| 19.11.2025 Wednesday | --- | | | | | | | Fundamentals of AR/VR 20A05702a |

Date: 10-10-2025

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
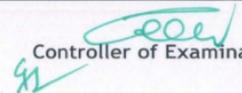ANANTHAPURAMU - 515 002 (A.P.) - INDIA

Examination Branch

B.Tech IV Year I Semester (R20) Regular & Supplementary October/November 2025 Examinations

Time: 10:00 AM to 01:00 PM

| Date / Day | CIVIL ENGINEERING | ELECTRICAL & ELECTRONICS ENGINEERING | FOOD TECHNOLOGY | MECHANICAL ENGINEERING | ELECTRONICS & COMMUNICATION ENGINEERING |
|---|---|---|---|---|---|
| 27.10.2025 Monday | Finite Element Analysis 20A01701a | Power System Operation & Control 20A02701a | Food Engineering 20A27701a | Modern Manufacturing Methods 20A03701a | DSP Processors & Architectures 20A04701a |
| | Railways, Airport and Harbour Engineering 20A01701b | Switched Mode Power Converters 20A02701b | Food Toxicology 20A27701b | Design for Manufacturing (DFM) 20A03701b | Introduction to Internet of Things 20A04701b |
| | Ground Improvement Techniques 20A01701c | Electrical & Electronics Instrumentation 20A02701c | Novel Technologies for Food Processing 20A27701c | Operations Research 20A03701c | Satellite Communications 20A04701c |
| 29.10.2025 Wednesday | Prestressed Concrete 20A01702a | Electrical distribution System & Automation 20A02702a | Thermal Processing of Foods 20A27702c | Automobile Engineering 20A03702a | Real Time Operating Systems 20A04702a |
| | Hydraulic Structures and Waterpower Engineering 20A01702b | FPGA Based Controller Design 20A02702b | Brewing Technology 20A27702a | Mechanical Vibrations 20A03702b | Digital Image Processing 20A04702b |
| | Industrial Waste and Wastewater Management 20A01702c | Intelligent Control Techniques 20A02702c | Food Additives 20A27702b | Refrigeration & Air Conditioning 20A03702c | Radar Engineering 20A04702c |
| 31.10.2025 Friday | Design and Drawing of Irrigation Structures 20A01703c | Electrical Vehicle Technologies 20A02703c | Extrusion Technology 20A27703a | Geometric Dimensioning and Tolerances 20A03703c | Cellular & Mobile Communications 20A04703c |
| | Remote Sensing and GIS 20A01703a | Programmable Logic Controllers 20A02703a | Food Safety and Standards Act & Regulations in India 20A27703b | Mechatronics & MEMS 20A03703a | Smart Sensors 20A04703a |
| | Bridge Engineering 20A01703b | Linear & Digital IC Applications 20A04403T | Food Plant Sanitation and Hygiene 20A27703c | Design of Oil Hydraulics and Pneumatics 20A03703b | Nano Electronics 20A04703b |

Date: 10-10-2025

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
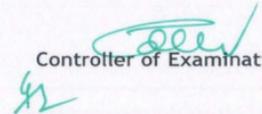ANANTHAPURAMU - 515 002 (A.P.) - INDIA

| Examination Branch |

B.Tech IV Year I Semester (R20) Regular & Supplementary October/November 2025 Examinations

Time: 10:00 AM to 01:00 PM

| Date / Day | CIVIL ENGINEERING | ELECTRICAL & ELECTRONICS ENGINEERING | FOOD TECHNOLOGY | MECHANICAL ENGINEERING | ELECTRONICS & COMMUNICATION ENGINEERING |
|---|---|---|---|---|---|
| 03.11.2025 Monday | Entrepreneurship and Incubation 20A52701a | | | | |
| | Management Science 20A52701b | | | | |
| | Enterprise Resource Planning 20A52701c | | | | |
| 05.11.2025 Wednesday | Open Elective Course - III (See Annexure-I) | | | | |
| 07.11.2025 Friday | Open Elective Course - IV (See Annexure-II) | | | | |

Date: 10-10-2025

Controller of Examinations

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

ANANTHAPURAMU - 515 002 (A.P.) - INDIA

Examination Branch

**B.Tech IV Year I Semester (R20) Regular & Supplementary October/November 2025 Examinations**

Time: 10:00 AM to 01:00 PM

| Date / Day | CSE (CYBER SECURITY) | COMPUTER SCIENCE AND DESIGN | ARTIFICIAL INTELLIGENCE & MACHINE LEARNING |
|---|---|---|---|
| 27.10.2025 Monday | Privacy Preserving & Data Publishing 20A05H01 | --- | Recommender Systems 20A31701a |
| | --- | --- | Intelligent Information Retrieval Systems 20A30701b |
| | Quantum Computing 20A37701a | Internet of Things 20A05603T | --- |
| 29.10.2025 Wednesday | Cyber Laws 20A37702a | Usability Studies & Evaluation 20A38701a | Optimization Techniques in AI 20A31702a |
| | --- | Animation Principles & Design 20A38701b | Applications of AI 20A30601T |
| | --- | Digital Audio Design & Synthesis 20A38701c | Game Development in AI 20A31702b |
| 31.10.2025 Friday | Authentication Techniques 20A37703a | Full Stack Development 20A05703a | --- |
| | Cyber Physical Systems 20A35603T | --- | Reinforcement Learning 20A30703b |
| | --- | --- | --- |
| 03.11.2025 Monday | Entrepreneurship and Incubation 20A52701a | | |
| | Management Science 20A52701b | | |
| | Enterprise Resource Planning 20A52701c | | |
| 05.11.2025 Wednesday | Open Elective Course - III (See Annexure-I) | | |
| 07.11.2025 Friday | Open Elective Course - IV (See Annexure-II) | | |
| 10.11.2025 Monday | Blockchain Technology and Applications 20A05703b | | |
| 12.11.2025 Wednesday | Deep Learning 20A05703c | | --- |
| 14.11.2025 Friday | Natural Language Processing 20A05702c | --- | AI for Image Analysis 20A30702b |
| 17.11.2025 Monday | --- | Cloud Computing 20A05701a | |
| 19.11.2025 Wednesday | Fundamentals of AR/VR 20A05702a | | --- |

Note: (i) Any omissions or clashes in this time table may please be informed to the undersigned immediately.
(ii) If any discrepancies are found, the same may be informed to the undersigned immediately

Date: 10-10-2025

Controller of Examinations

| Open Elective Course - III | | |
|---|---|---|
| Branch/Specialization | Course Code | Course Name |
| CIVIL ENGINEERING | 20A02704 | IOT Application in Electrical Engineering |
| CIVIL ENGINEERING | 20A03704 | Product Design & Development |
| CIVIL ENGINEERING | 20A04704 | Electronic Sensors |
| CIVIL ENGINEERING | 20A05704a | Web Technologies |
| CIVIL ENGINEERING | 20A05704b | VR & AR for Engineers |
| CIVIL ENGINEERING | 20A05704c | Software Engineering |
| CIVIL ENGINEERING | 20A27704 | Human Nutrition |
| CIVIL ENGINEERING | 20A51702 | Chemistry of Nanomaterials and Applications |
| CIVIL ENGINEERING | 20A54702 | Numerical Methods for Engineers |
| CIVIL ENGINEERING | 20A56702 | Sensors and Actuators for Engineering Applications |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A01704 | Cost Effective Housing Techniques |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A03704 | Product Design & Development |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A04704 | Electronic Sensors |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A05704a | Web Technologies |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A05704b | VR & AR for Engineers |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A05704c | Software Engineering |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A27704 | Human Nutrition |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A51702 | Chemistry of Nanomaterials and Applications |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A54702 | Numerical Methods for Engineers |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A56702 | Sensors and Actuators for Engineering Applications |
| MECHANICAL ENGINEERING | 20A01704 | Cost Effective Housing Techniques |
| MECHANICAL ENGINEERING | 20A02704 | IOT Applications in Electrical Engineering |
| MECHANICAL ENGINEERING | 20A04704 | Electronic Sensors |
| MECHANICAL ENGINEERING | 20A05704a | Web Technologies |
| MECHANICAL ENGINEERING | 20A05704b | VR & AR for Engineers |
| MECHANICAL ENGINEERING | 20A05704c | Software Engineering |
| MECHANICAL ENGINEERING | 20A27704 | Human Nutrition |
| MECHANICAL ENGINEERING | 20A51702 | Chemistry of Nanomaterials and Applications |
| MECHANICAL ENGINEERING | 20A54702 | Numerical Methods for Engineers |
| MECHANICAL ENGINEERING | 20A56702 | Sensors and Actuators for Engineering Applications |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A01704 | Cost Effective Housing Techniques |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A02704 | IOT Applications in Electrical Engineering |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A03704 | Product Design & Development |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A05704a | Web Technologies |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A05704b | VR & AR for Engineers |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A05704c | Software Engineering |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A27704 | Human Nutrition |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A51702 | Chemistry of Nanomaterials and Applications |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A54702 | Numerical Methods for Engineers |

| | | |
|---|---|---|
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A56702 | Sensors and Actuators for Engineering Applications |
| COMPUTER SCIENCE & ENGINEERING | 20A01704 | Cost Effective Housing Techniques |
| COMPUTER SCIENCE & ENGINEERING | 20A02704 | IOT Applications in Electrical Engineering |
| COMPUTER SCIENCE & ENGINEERING | 20A03704 | Product Design & Development |
| COMPUTER SCIENCE & ENGINEERING | 20A04506 | Principles of Communication Systems |
| COMPUTER SCIENCE & ENGINEERING | 20A04704 | Electronic Sensors |
| COMPUTER SCIENCE & ENGINEERING | 20A27704 | Human Nutrition |
| COMPUTER SCIENCE & ENGINEERING | 20A51702 | Chemistry of Nanomaterials and Applications |
| COMPUTER SCIENCE & ENGINEERING | 20A54702 | Numerical Methods for Engineers |
| COMPUTER SCIENCE & ENGINEERING | 20A56702 | Sensors and Actuators for Engineering Applications |
| INFORMATION TECHNOLOGY | 20A01704 | Cost Effective Housing Techniques |
| INFORMATION TECHNOLOGY | 20A02704 | IOT Applications in Electrical Engineering |
| INFORMATION TECHNOLOGY | 20A03704 | Product Design & Development |
| INFORMATION TECHNOLOGY | 20A04506 | Principles of Communication Systems |
| INFORMATION TECHNOLOGY | 20A04704 | Electronic Sensors |
| INFORMATION TECHNOLOGY | 20A27704 | Human Nutrition |
| INFORMATION TECHNOLOGY | 20A51702 | Chemistry of Nanomaterials and Applications |
| INFORMATION TECHNOLOGY | 20A54702 | Numerical Methods for Engineers |
| INFORMATION TECHNOLOGY | 20A56702 | Sensors and Actuators for Engineering Applications |
| FOOD TECHNOLOGY | 20A01704 | Cost Effective Housing Techniques |
| FOOD TECHNOLOGY | 20A02704 | IOT Applications in Electrical Engineering |
| FOOD TECHNOLOGY | 20A03704 | Product Design & Development |
| FOOD TECHNOLOGY | 20A04704 | Electronic Sensors |
| FOOD TECHNOLOGY | 20A05704a | Web Technologies |
| FOOD TECHNOLOGY | 20A05704b | VR & AR for Engineers |
| FOOD TECHNOLOGY | 20A05704c | Software Engineering |
| FOOD TECHNOLOGY | 20A51702 | Chemistry of Nanomaterials and Applications |
| FOOD TECHNOLOGY | 20A54702 | Numerical Methods for Engineers |
| FOOD TECHNOLOGY | 20A56702 | Sensors and Actuators for Engineering Applications |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A01704 | Cost Effective Housing Techniques |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A02704 | IOT Applications in Electrical Engineering |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A03704 | Product Design & Development |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A04506 | Principles of Communication Systems |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A04704 | Electronic Sensors |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A27704 | Human Nutrition |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A51702 | Chemistry of Nanomaterials and Applications |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A54702 | Numerical Methods for Engineers |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A56702 | Sensors and Actuators for Engineering Applications |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A01704 | Cost Effective Housing Techniques |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A02704 | IOT Applications in Electrical Engineering |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A03704 | Product Design & Development |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A04506 | Principles of Communication Systems |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A04704 | Electronic Sensors |

| | | |
|---|---|---|
| CSE (ARTIFICIAL INTELLIGENCE) | 20A27704 | Human Nutrition |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A51702 | Chemistry of Nanomaterials and Applications |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A54702 | Numerical Methods for Engineers |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A56702 | Sensors and Actuators for Engineering Applications |
| CSE (DATA SCIENCE) | 20A01704 | Cost Effective Housing Techniques |
| CSE (DATA SCIENCE) | 20A02704 | IOT Applications in Electrical Engineering |
| CSE (DATA SCIENCE) | 20A03704 | Product Design & Development |
| CSE (DATA SCIENCE) | 20A04506 | Principles of Communication Systems |
| CSE (DATA SCIENCE) | 20A04704 | Electronic Sensors |
| CSE (DATA SCIENCE) | 20A27704 | Human Nutrition |
| CSE (DATA SCIENCE) | 20A51702 | Chemistry of Nanomaterials and Applications |
| CSE (DATA SCIENCE) | 20A54702 | Numerical Methods for Engineers |
| CSE (DATA SCIENCE) | 20A56702 | Sensors and Actuators for Engineering Applications |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A01704 | Cost Effective Housing Techniques |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A02704 | IOT Applications in Electrical Engineering |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A03704 | Product Design & Development |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A04506 | Principles of Communication Systems |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A04704 | Electronic Sensors |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A27704 | Human Nutrition |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A51702 | Chemistry of Nanomaterials and Applications |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A54702 | Numerical Methods for Engineers |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A56702 | Sensors and Actuators for Engineering Applications |
| CSE (INTERNET OF THINGS) | 20A01704 | Cost Effective Housing Techniques |
| CSE (INTERNET OF THINGS) | 20A02704 | IOT Applications in Electrical Engineering |
| CSE (INTERNET OF THINGS) | 20A03704 | Product Design & Development |
| CSE (INTERNET OF THINGS) | 20A04506 | Principles of Communication Systems |
| CSE (INTERNET OF THINGS) | 20A04704 | Electronic Sensors |
| CSE (INTERNET OF THINGS) | 20A27704 | Human Nutrition |
| CSE (INTERNET OF THINGS) | 20A51702 | Chemistry of Nanomaterials and Applications |
| CSE (INTERNET OF THINGS) | 20A54702 | Numerical Methods for Engineers |
| CSE (INTERNET OF THINGS) | 20A56702 | Sensors and Actuators for Engineering Applications |
| CSE (CYBER SECURITY) | 20A01704 | Cost Effective Housing Techniques |
| CSE (CYBER SECURITY) | 20A02704 | IOT Applications in Electrical Engineering |
| CSE (CYBER SECURITY) | 20A03704 | Product Design & Development |
| CSE (CYBER SECURITY) | 20A04704 | Electronic Sensors |
| CSE (CYBER SECURITY) | 20A04506 | Principles of Communication Systems |
| CSE (CYBER SECURITY) | 20A27704 | Human Nutrition |
| CSE (CYBER SECURITY) | 20A54702 | Numerical Methods for Engineers |
| CSE (CYBER SECURITY) | 20A56702 | Sensors and Actuators for Engineering Applications |
| CSE (CYBER SECURITY) | 20A51702 | Chemistry of Nanomaterials and Applications |
| COMPUTER SCIENCE AND DESIGN | 20A01704 | Cost Effective Housing Techniques |
| COMPUTER SCIENCE AND DESIGN | 20A02704 | IOT Applications in Electrical Engineering |
| COMPUTER SCIENCE AND DESIGN | 20A03704 | Product Design & Development |
| COMPUTER SCIENCE AND DESIGN | 20A04704 | Electronic Sensors |
| COMPUTER SCIENCE AND DESIGN | 20A04506 | Principles of Communication Systems |
| COMPUTER SCIENCE AND DESIGN | 20A27704 | Human Nutrition |
| COMPUTER SCIENCE AND DESIGN | 20A54702 | Numerical Methods for Engineers |

| | | |
|---|---|---|
| COMPUTER SCIENCE AND DESIGN | 20A56702 | Sensors and Actuators for Engineering Applications |
| COMPUTER SCIENCE AND DESIGN | 20A51702 | Chemistry of Nanomaterials and Applications |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A01704 | Cost Effective Housing Techniques |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A02704 | IOT Applications in Electrical Engineering |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A03704 | Product Design & Development |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A04704 | Electronic Sensors |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A04506 | Principles of Communication Systems |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A27704 | Human Nutrition |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A54702 | Numerical Methods for Engineers |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A56702 | Sensors and Actuators for Engineering Applications |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A51702 | Chemistry of Nanomaterials and Applications |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A01704 | Cost Effective Housing Techniques |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A02704 | IOT Applications in Electrical Engineering |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A03704 | Product Design & Development |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A04506 | Principles of Communication Systems |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A04704 | Electronic Sensors |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A27704 | Human Nutrition |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A51702 | Chemistry of Nanomaterials and Applications |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A54702 | Numerical Methods for Engineers |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A56702 | Sensors and Actuators for Engineering Applications |

| Open Elective Course - IV | | |
|---|---|---|
| **Branch/Specialization** | **Course Code** | **Course Name** |
| CIVIL ENGINEERING | 20A02705 | Renewable Energy Systems |
| CIVIL ENGINEERING | 20A03705 | Introduction to Composite Materials |
| CIVIL ENGINEERING | 20A04705 | Microcontrollers and Applications |
| CIVIL ENGINEERING | 20A05705a | Cyber Security |
| CIVIL ENGINEERING | 20A05705b | Introduction to Full Stack Development |
| CIVIL ENGINEERING | 20A05705c | Industrial IOT |
| CIVIL ENGINEERING | 20A27705 | Waste and Effluent Management |
| CIVIL ENGINEERING | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| CIVIL ENGINEERING | 20A54703 | Number Theory & Its Applications |
| CIVIL ENGINEERING | 20A56703 | Smart Materials and Devices |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A01705 | Health, Safety & Environmental Management |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A03705 | Introduction to Composite Materials |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A04706 | Principles of Cellular & Mobile Communications |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A05705a | Cyber Security |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A05705b | Introduction to Full Stack Development |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A05705c | Industrial IOT |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A27705 | Waste and Effluent Management |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A54703 | Number Theory & Its Applications |
| ELECTRICAL & ELECTRONICS ENGINEERING | 20A56703 | Smart Materials and Devices |
| MECHANICAL ENGINEERING | 20A01705 | Health, Safety & Environmental Management |
| MECHANICAL ENGINEERING | 20A02705 | Renewable Energy Systems |
| MECHANICAL ENGINEERING | 20A04705 | Microcontrollers and Applications |
| MECHANICAL ENGINEERING | 20A05705a | Cyber Security |
| MECHANICAL ENGINEERING | 20A05705b | Introduction to Full Stack Development |
| MECHANICAL ENGINEERING | 20A05705c | Industrial IOT |
| MECHANICAL ENGINEERING | 20A27705 | Waste and Effluent Management |
| MECHANICAL ENGINEERING | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| MECHANICAL ENGINEERING | 20A54703 | Number Theory & Its Applications |
| MECHANICAL ENGINEERING | 20A56703 | Smart Materials and Devices |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A01705 | Health, Safety & Environmental Management |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A02705 | Renewable Energy Systems |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A03705 | Introduction to Composite Materials |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A05705a | Cyber Security |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A05705b | Introduction to Full Stack Development |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A27705 | Waste and Effluent Management |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A54703 | Number Theory & Its Applications |
| ELECTRONICS & COMMUNICATION ENGINEERING | 20A56703 | Smart Materials and Devices |

| | | |
|---|---|---|
| COMPUTER SCIENCE & ENGINEERING | 20A01705 | Health, Safety & Environmental Management |
| COMPUTER SCIENCE & ENGINEERING | 20A02705 | Renewable Energy Systems |
| COMPUTER SCIENCE & ENGINEERING | 20A03705 | Introduction to Composite Materials |
| COMPUTER SCIENCE & ENGINEERING | 20A04705 | Microcontrollers and Applications |
| COMPUTER SCIENCE & ENGINEERING | 20A04706 | Principles of Cellular & Mobile Communications |
| COMPUTER SCIENCE & ENGINEERING | 20A27705 | Waste and Effluent Management |
| COMPUTER SCIENCE & ENGINEERING | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| COMPUTER SCIENCE & ENGINEERING | 20A54703 | Number Theory & Its Applications |
| COMPUTER SCIENCE & ENGINEERING | 20A56703 | Smart Materials and Devices |
| INFORMATION TECHNOLOGY | 20A01705 | Health, Safety & Environmental Management |
| INFORMATION TECHNOLOGY | 20A02705 | Renewable Energy Systems |
| INFORMATION TECHNOLOGY | 20A03705 | Introduction to Composite Materials |
| INFORMATION TECHNOLOGY | 20A04705 | Microcontrollers and Applications |
| INFORMATION TECHNOLOGY | 20A04706 | Principles of Cellular & Mobile Communications |
| INFORMATION TECHNOLOGY | 20A27705 | Waste and Effluent Management |
| INFORMATION TECHNOLOGY | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| INFORMATION TECHNOLOGY | 20A54703 | Number Theory & Its Applications |
| INFORMATION TECHNOLOGY | 20A56703 | Smart Materials and Devices |
| FOOD TECHNOLOGY | 20A01705 | Health, Safety & Environmental Management |
| FOOD TECHNOLOGY | 20A02705 | Renewable Energy Systems |
| FOOD TECHNOLOGY | 20A03705 | Introduction to Composite Materials |
| FOOD TECHNOLOGY | 20A04705 | Microcontrollers and Applications |
| FOOD TECHNOLOGY | 20A05705a | Cyber Security |
| FOOD TECHNOLOGY | 20A05705b | Introduction to Full Stack Development |
| FOOD TECHNOLOGY | 20A05705c | Industrial IOT |
| FOOD TECHNOLOGY | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| FOOD TECHNOLOGY | 20A54703 | Number Theory & Its Applications |
| FOOD TECHNOLOGY | 20A56703 | Smart Materials and Devices |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A01705 | Health, Safety & Environmental Management |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A02705 | Renewable Energy Systems |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A03705 | Introduction to Composite Materials |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A04705 | Microcontrollers and Applications |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A04706 | Principles of Cellular & Mobile Communications |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A27705 | Waste and Effluent Management |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A54703 | Number Theory & Its Applications |
| ARTIFICIAL INTELLIGENCE & DATA SCIENCE | 20A56703 | Smart Materials and Devices |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A01705 | Health, Safety & Environmental Management |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A02705 | Renewable Energy Systems |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A03705 | Introduction to Composite Materials |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A04705 | Microcontrollers and Applications |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A04706 | Principles of Cellular & Mobile Communications |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A27705 | Waste and Effluent Management |

| | | |
|---|---|---|
| CSE (ARTIFICIAL INTELLIGENCE) | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A54703 | Number Theory & Its Applications |
| CSE (ARTIFICIAL INTELLIGENCE) | 20A56703 | Smart Materials and Devices |
| CSE (DATA SCIENCE) | 20A01705 | Health, Safety & Environmental Management |
| CSE (DATA SCIENCE) | 20A02705 | Renewable Energy Systems |
| CSE (DATA SCIENCE) | 20A03705 | Introduction to Composite Materials |
| CSE (DATA SCIENCE) | 20A04705 | Microcontrollers and Applications |
| CSE (DATA SCIENCE) | 20A04706 | Principles of Cellular & Mobile Communications |
| CSE (DATA SCIENCE) | 20A27705 | Waste and Effluent Management |
| CSE (DATA SCIENCE) | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| CSE (DATA SCIENCE) | 20A54703 | Number Theory & Its Applications |
| CSE (DATA SCIENCE) | 20A56703 | Smart Materials and Devices |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A01705 | Health, Safety & Environmental Management |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A02705 | Renewable Energy Systems |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A03705 | Introduction to Composite Materials |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A04705 | Microcontrollers and Applications |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A04706 | Principles of Cellular & Mobile Communications |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A27705 | Waste and Effluent Management |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A54703 | Number Theory & Its Applications |
| CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) | 20A56703 | Smart Materials and Devices |
| CSE (INTERNET OF THINGS) | 20A01705 | Health, Safety & Environmental Management |
| CSE (INTERNET OF THINGS) | 20A02705 | Renewable Energy Systems |
| CSE (INTERNET OF THINGS) | 20A03705 | Introduction to Composite Materials |
| CSE (INTERNET OF THINGS) | 20A04706 | Principles of Cellular & Mobile Communications |
| CSE (INTERNET OF THINGS) | 20A27705 | Waste and Effluent Management |
| CSE (INTERNET OF THINGS) | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| CSE (INTERNET OF THINGS) | 20A54703 | Number Theory & Its Applications |
| CSE (INTERNET OF THINGS) | 20A56703 | Smart Materials and Devices |
| CSE (CYBER SECURITY) | 20A01705 | Health, Safety & Environmental Management |
| CSE (CYBER SECURITY) | 20A02705 | Renewable Energy Systems |
| CSE (CYBER SECURITY) | 20A03705 | Introduction to Composite Materials |
| CSE (CYBER SECURITY) | 20A04705 | Microcontrollers and Applications |
| CSE (CYBER SECURITY) | 20A04706 | Principles of Cellular & Mobile Communications |
| CSE (CYBER SECURITY) | 20A27705 | Waste and Effluent Management |
| CSE (CYBER SECURITY) | 20A54703 | Number Theory & Its Applications |
| CSE (CYBER SECURITY) | 20A56703 | Smart Materials and Devices |
| CSE (CYBER SECURITY) | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| COMPUTER SCIENCE AND DESIGN | 20A01705 | Health, Safety & Environmental Management |
| COMPUTER SCIENCE AND DESIGN | 20A02705 | Renewable Energy Systems |
| COMPUTER SCIENCE AND DESIGN | 20A03705 | Introduction to Composite Materials |
| COMPUTER SCIENCE AND DESIGN | 20A04705 | Microcontrollers and Applications |

| | | |
|---|---|---|
| COMPUTER SCIENCE AND DESIGN | 20A04706 | Principles of Cellular & Mobile Communications |
| COMPUTER SCIENCE AND DESIGN | 20A27705 | Waste and Effluent Management |
| COMPUTER SCIENCE AND DESIGN | 20A54703 | Number Theory & Its Applications |
| COMPUTER SCIENCE AND DESIGN | 20A56703 | Smart Materials and Devices |
| COMPUTER SCIENCE AND DESIGN | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A01705 | Health, Safety & Environmental Management |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A02705 | Renewable Energy Systems |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A03705 | Introduction to Composite Materials |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A04705 | Microcontrollers and Applications |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A04706 | Principles of Cellular & Mobile Communications |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A27705 | Waste and Effluent Management |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A54703 | Number Theory & Its Applications |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A56703 | Smart Materials and Devices |
| ARTIFICIAL INTELLIGENCE & MACHINE LEARNING | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A01705 | Health, Safety & Environmental Management |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A02705 | Renewable Energy Systems |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A03705 | Introduction to Composite Materials |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A04705 | Microcontrollers and Applications |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A04706 | Principles of Cellular & Mobile Communications |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A27705 | Waste and Effluent Management |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A51703 | Green Chemistry and Catalysis for Sustainable Environment |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A54703 | Number Theory & Its Applications |
| COMPUTER SCIENCE & INFORMATION TECHNOLOGY | 20A56703 | Smart Materials and Devices |