



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Permanent Affiliation by Andhra University & Approved by AICTE)
 Accredited by NBA (ECE, EEE, CSE, IT, Mech. Civil & Chemical) & NAAC)
 Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District
 Phone: 08933-225083/84/87 Fax: 226395
 Website: www.anits.edu.in email: principal@anits.edu.in

Department of Electronics and Communication Engineering

Academic Year: 2022-23

Regulation	Semester	Subject	Subject Opted
R20	5th	Open ELECTIVES: 1. Python Programming Professional Elective: "Electronic Measurements and Instrumentation"	Open ELECTIVES: 1. Python Programming Professional Elective: 2. Electronic Measurements and Instrumentation
R20	6th	Open ELECTIVES: 1. Java Programming 2. Database management system (DBMS) Professional Electives: 1. DIGITAL IC DESIGN USING HDL 2. INFORMATION THEORY & CODING	Open ELECTIVES: 1. Java Programming 2. Database management system (DBMS) Professional Electives: 1. DIGITAL IC DESIGN USING HDL 2. INFORMATION THEORY & CODING
R19	7th	Professional Elective 4 1. Cellular and Mobile Communications 2. Real time operating systems (RTOS) 3. Speech Processing Professional Elective 5 1. Digital Image Processing 2. Satellite communications & GPS 3. Low power VLSI	Professional Elective 4 1. Cellular and Mobile Communications Professional Elective 5 1. Digital Image Processing Open Elective 1. Machine Learning

		Open Elective 1. Machine Learning	
R19	8th	Professional Elective 6 1. VLSI Signal processing 2. Data Communications 3. Phased Array systems Open Elective-4 1. Introduction to Neural Network & Deep Learning 2. Sensors and Actuators	Professional Elective 6 2. Data Communications Open Elective-4 1. Introduction to Neural Network & Deep Learning 2. Sensors and Actuators

Academic Year: 2021-22

Regulation	Semester	Subject	Subject Opted
R19	5th	Open ELECTIVES: 1. Python Programming Professional ELECTIVES: 1. Electronic Measurements and Instrumentation	Open ELECTIVES: 1. Python Programming Professional ELECTIVES: 2. Electronic Measurements and Instrumentation
R19	6th	Open ELECTIVES: 1. Java Programming 2. Database management system (DBMS) Professional Electives: 1. DIGITAL IC DESIGN USING HDL 2. INFORMATION THEORY & CODING	Open ELECTIVES: 1. Database management system (DBMS) Professional Electives: 1. DIGITAL IC DESIGN USING HDL 2. INFORMATION THEORY & CODING
R15	7th	Professional Elective-II 1. Advanced Digital Signal Processing 2. Radar Signal Processing 3. Digital IC design using HDL 4. Digital Image Processing Open Elective-II: (for ECE, offered other departments) 1. Project management 2. Industrial Safety and Hazards Management 3. IT infrastructure and management 4. Multimedia concepts 5. E-Governance 6. Robotics 7. Power Electronics	1. Digital IC design using HDL 2. Digital Image Processing
R15	8th	Professional Elective-III 1. Phased array systems 2. Bio-medical Instrumentation 3. Optical communications 4. Embedded and Real Time Systems	1. Optical communications 2. Satellite Communications & GPS

		Professional Elective-IV	
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| | | <ol style="list-style-type: none">1. Satellite Communications & GPS2. VLSI Signal processing3. Wireless sensor networks4. Cognitive Radio Networks | |
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Academic Year: 2020-21

Regulation	Semester	Subject	Subject Opted
R15	5th	OPEN ELECTIVES: Computer Operating Systems_CSE311B Advanced Numerical Techniques_MAT311A Nano Technology and Engineering Applications_PHY311 Advanced Numerical Techniques_MAT311A Industrial Safety and Hazards Management_CHE311A Building Planning and Construction_CIV311B RenewableEnergyTechnologies_EEE311 File Systems And Databases_CSE311A Basic Civil Engineering_CIV311A Principles and Applications of NDTmethods_PHY312 Robotics_MEC311A Environmental Sciences_CHY311A Python Programming	ELECTIVES: Python Programming
R15	6th	Professional Elective-I 1. Analog IC Design 2. EMI / EMC 3. Electronic Measurements and Instrumentation 4. Telecommunications and switching Networks	1. Electronic Measurements and Instrumentation
R15	7th	Professional Elective-II 1. Advanced Digital Signal Processing 2. Radar Signal Processing 3. Digital IC design using HDL 4. Digital Image Processing Open Elective-II: (for ECE, offered other departments) 1. Project management 2. Industrial Safety and Hazards Management 3. IT infrastructure and management 4. Multimedia concepts 5.E-Governance	1. Digital IC design using HDL 2. Digital Image Processing

		6. Robotics 7. Power Electronics	
R15	8th	Professional Elective-III Professional Elective-IV 1. Phased array systems 2. Bio-medical Instrumentation 3. Optical communications 4. Embedded and Real Time Systems Professional Elective-IV 1. Satellite Communications & GPS 2. VLSI Signal processing 3. Wireless sensor networks 4. Cognitive Radio Networks	1. Optical communications 2. Satellite Communications & GPS

Academic Year: 2019-20

Regulation	Semester	Subject	Subject Opted
R15	5th	OPEN ELECTIVES: Computer Operating Systems_CSE311B Advanced Numerical Techniques_MAT311A Nano Technology and Engineering Applications_PHY311 Advanced Numerical Techniques_MAT311A Industrial Safety and Hazards Management_CHE311A Building Planning and Construction_CIV311B RenewableEnergyTechnologies_EEE311 File Systems And Databases_CSE311A Basic Civil Engineering_CIV311A Principles and Applications of NDTmethods_PHY312 Robotics_MEC311A Environmental Sciences_CHY311A Python Programming	ELECTIVES: RenewableEnergyTechnologies_EEE311 File Systems And Databases_CSE311A Computer Operating Systems_CSE311B Robotics_MEC311A Basic Civil Engineering_CIV311A Industrial Safety and Hazards Management_CHE311A SEC
R15	6th	Professional Elective-I 1. Analog IC Design 2. EMI / EMC 3. Electronic Measurements and Instrumentation 4. Telecommunications and switching Networks	1. Electronic Measurements and Instrumentation
R15	7th	Professional Elective-II 1. Advanced Digital Signal Processing 2. Radar Signal Processing 3. Digital IC design using HDL 4. Digital Image Processing Open Elective-II: (for ECE, offered other departments) 1. Project management 2. Industrial Safety and Hazards Management 3. IT infrastructure and management 4. Multimedia concepts 5.E-Governance	1. Digital IC design using HDL 2. Digital Image Processing

		6. Robotics 7. Power Electronics	
R15	8th	Professional Elective-III Professional Elective-IV 1. Phased array systems 2. Bio-medical Instrumentation 3. Optical communications 4. Embedded and Real Time Systems Professional Elective-IV 1. Satellite Communications & GPS 2. VLSI Signal processing 3. Wireless sensor networks 4. Cognitive Radio Networks	1. Optical communications 2. Satellite Communications & GPS 3. VLSI Signal processing

Academic Year: 2018-19

Regulation	Semester	Subject	Subject Opted
R15	5th	OPEN ELECTIVES: Computer Operating Systems_CSE311B Advanced Numerical Techniques_MAT311A Nano Technology and Engineering Applications_PHY311 Advanced Numerical Techniques_MAT311A Industrial Safety and Hazards Management_CHE311A Building Planning and Construction_CIV311B RenewableEnergyTechnologies_EEE311 File Systems And Databases_CSE311A Basic Civil Engineering_CIV311A Principles and Applications of NDTmethods_PHY312 Robotics_MEC311A Environmental Sciences_CHY311A Python Programming	ELECTIVES: Computer Operating Systems_CSE311B Advanced Numerical Techniques_MAT311A Nano Technology and Engineering Applications_PHY311 Advanced Numerical Techniques_MAT311A Industrial Safety and Hazards Management_CHE311A Building Planning and Construction_CIV311B RenewableEnergyTechnologies_EEE311 File Systems And Databases_CSE311A Basic Civil Engineering_CIV311A Principles and Applications of NDTmethods_PHY312 Robotics_MEC311A Environmental Sciences_CHY311A
R15	6th	Professional Elective-I 1. Analog IC Design 2. EMI / EMC 3. Electronic Measurements and Instrumentation 4. Telecommunications and switching Networks	1. Electronic Measurements and Instrumentation
R15	7th	Professional Elective-II 1. Advanced Digital Signal Processing 2. Radar Signal Processing	1. Digital IC design using HDL 2. Digital Image Processing

		3. Digital IC design using HDL 4. Digital Image Processing Open Elective-II: (for ECE, offered other departments) 1. Project management 2. Industrial Safety and Hazards Management 3. IT infrastructure and management 4. Multimedia concepts 5.E-Governance 6. Robotics 7.Power Electronics	
R15	8th	Professional Elective-III Professional Elective-IV 1. Phased array systems 2. Bio-medical Instrumentation 3. Optical communications 4. Embedded and Real Time Systems Professional Elective-IV 1. Satellite Communications & GPS 2. VLSI Signal processing 3. Wireless sensor networks 4. Cognitive Radio Networks	1. Optical communications 2. Satellite Communications & GPS 3. VLSI Signal processing

Academic Year: 2017-18

Regulation	Semester	Subject	Subject Opted
R15	5th	Advanced Numerical Techniques_MAT311A Environmental Sciences_CHY311A Nano Technology and Engineering Applications_PHY311 RenewableEnergyTechnologies_EEE311 Computer Network CSE Computer Operating Systems_CSE311B File Systems And Databases_CSE311A Robotics_MEC311A Computer-aided design MECH Basic Civil Engineering_CIV311A Building Planning and Construction_CIV311B Industrial Safety and Hazards Management_CHE311A	Advanced Numerical Techniques_MAT311A Environmental Sciences_CHY311A Nano Technology and Engineering Applications_PHY311 RenewableEnergyTechnologies_EEE311 Computer Network CSE Computer Operating Systems_CSE311B File Systems And Databases_CSE311A Robotics_MEC311A Computer-aided design MECH
R15	6th	Professional Elective-I 1. Analog IC Design 2. EMI / EMC 3. Electronic Measurements and Instrumentation 4. Telecommunications and switching Networks	1. Electronic Measurements and Instrumentation
R15	7th	Professional Elective-II 1. Advanced Digital Signal Processing 2. Radar Signal Processing 3. Digital IC design using HDL 4. Digital Image Processing	VLSI Design and Embedded Systems (CE)
R15	8th	Core Elective – II 1. Data Communications 2. Bio-Medical Signal Processing 3. Microwave Networks Free Elective – II 1. Fundamentals of Mobile Communications 2. Basics of GPS	1. Data Communications