

Excel Engineering
College(Autonomous)
Department of ECE

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution:

Classification/Mapping of Courses with their societal needs

Course code and name	Local needs	Regional Needs	National Needs	Global Needs
B.EECE Regulation 2017				
EC8501-Digital Communication	✓		✓	✓
EC8553-Discrete-Time Signal Processing			✓	✓
EC8552-Computer Architecture and Organization		✓	✓	✓
EC8551-Communication Networks		✓	✓	✓
EC8073-Medical Electronics	✓		✓	✓
OTL552-Digital Audio Engineering		✓	✓	✓
EC8562-Digital Signal Processing Laboratory	✓		✓	✓
EC8561-Communication System Laboratory		✓	✓	✓
EC8563-Communication Networks Laboratory	✓		✓	✓
EC8691-Microprocessors and Microcontrollers		✓	✓	✓
EC8095-VLSI Design	✓		✓	✓
EC8652-Wireless Communication		✓	✓	✓
MG8591-Principles of Management		✓	✓	✓
EC8651-Transmission Lines and RF Systems			✓	✓
EC8504-Professional elective II(Wireless Network)	✓		✓	✓
EC8681-Microprocessors and Microcontrollers Laboratory			✓	✓
EC8661-VLSI Design Laboratory		✓	✓	✓
EC8611-Technical Seminar			✓	✓
HS8581-Professional Communication	✓		✓	✓
EC8701-Antennas and Microwave Engineering			✓	✓
EC8751-Optical Communication			✓	✓
EC8791-Embedded and Real Time Systems			✓	✓
EC8702-Ad hoc and Wireless Sensor Networks			✓	✓
EC8601-Professional Elective -III (Cognitive radio)		✓	✓	✓
OME754-Open Elective - II(Industrial Safety)			✓	✓
EC8711-Embedded Laboratory			✓	✓
EC8761-Advanced Communication Laboratory	✓		✓	✓
EC8094-Satellite Communication			✓	✓

Excel Engineering
College(Autonomous)
Department of ECE

EC8007-Low Power SoC design			✓	✓
EC88111-Project Work		✓	✓	✓
B.E ECERegulation2020				
20MA104- Mathematics – I for Electrical Sciences	✓		✓	✓
20EC101- Basics of Electrical Engineering			✓	✓
20ENE01- Communicative English			✓	✓
20PH102- Physics for Electrical Sciences			✓	✓
20CS102- Problem Solving Using Python		✓	✓	✓
20EC102- Electrical Engineering Practices Lab	✓		✓	✓
20MC101- Induction Programme	✓		✓	✓
20MA204- Mathematics – II for Electrical Sciences		✓	✓	✓
20EC201- Electronic Devices			✓	✓
20ENE02- Advanced Communicative English			✓	✓
20CH202- Chemistry for Electrical Sciences	✓		✓	✓
20ME203- Engineering Graphics			✓	✓
20EC202- Electronic Devices & Circuits Lab			✓	✓
20MC202- Interpersonal Skills	✓	✓	✓	✓
20MA302- Partial Differential Equations and Linear Algebra			✓	✓
20EC301- Signals & Systems			✓	✓
20EC302- Electronic Circuits	✓		✓	✓
20EC303- Electromagnetic Fields		✓	✓	✓
20EC304- Digital Electronics			✓	✓
20CS306- Data Structures & OOPS			✓	✓
20EC305- Analog and Digital Circuits Laboratory			✓	✓
20CS305- OOPS Laboratory	✓		✓	✓
20MC301- Environmental Science			✓	✓
20MA402- Probability and Stochastic Process		✓	✓	✓
20EC401- Principles of Discrete Time Signals			✓	✓
20EC402- Linear Integrated Circuits	✓	✓	✓	✓
20EC403- Control Systems Engineering			✓	✓
20CS408- Computer Architecture & Organization	✓	✓	✓	✓
20EC404- Microprocessor & Microcontrollers			✓	✓
20EC405- Linear Integrated Circuits Laboratory			✓	✓

Excel Engineering
College(Autonomous)
Department of ECE

20EC406- Discrete Time Signal Processing Laboratory			✓	✓
20MC401- Soft Skills		✓	✓	✓
ME-Applied Electronics				
22PMA104-Applied Mathematics for Electronics Engineers	✓		✓	✓
22PAE101-Advanced Digital System Design		✓	✓	✓
22PAE102-Advanced Digital Signal Processing	✓		✓	✓
22PAE103-ASIC and FPGA Design			✓	✓
22PEA003- CAD for VLSI Circuits		✓	✓	✓
22PEA008- Wireless Adhoc and Sensor Networks			✓	✓
22PAE105-Electronic System Design Laboratory			✓	✓
22PAE201-Advanced Image and Video Processing	✓		✓	✓
22PAE202-Soft Computing and Optimization Techniques			✓	✓
22PAE203-Low Power VLSI		✓	✓	✓
22PAE204-Advanced Microprocessors and Microcontrollers Architectures			✓	✓
22PEA013- Internet of Things	✓		✓	✓
22PEA015- System on Chip Design			✓	✓
22PAE205-Term Paper Writing and Seminar			✓	✓
22PEE301-Research Methodology and Intellectual Property Rights	✓		✓	✓
22PEA020- Secure Computing Systems			✓	✓
22PEA025-Wavelets and Signal Processing			✓	✓
22PAE301-Project Work Phase- I	✓	✓	✓	✓
22PAE401-Project Work Phase -II	✓	✓	✓	✓
SIGN	Prepared by <u>N. MATHAP</u>	Reviewed by <u>Anitha</u>	Approved By <u>Dr. S. Anbulakaruppusamy</u>	
NAME	[NARMAATHAP]	[ANITHAAN]		

