

DEGREE ROAD MAP – R22

1-1

MA101BS Matrices & Calculus	PH102BS Applied Physics	CS103ES Programming for Problem Solving	ME104ES Engineering Workshop	EN105HS English for Skill Enhancement
PH107BS Applied Physics Lab	CS108ES Programming for Problem Solving Lab	EN109HS English Language & Communication Skills Lab	MC110 Environmental Science	

1-2

MA201BS Ordinary Differential Equations & Vector Calculus	CH202BS Engineering Chemistry	ME203ES Computer Aided Engineering Graphics	EE204ES Basic Electrical Engineering	EC205ES Electronic Devices and Circuits
CH207BS Engineering Chemistry Lab	EE208ES Basic Electrical Engineering Lab	EC206ES Applied Python Programming Laboratory	EC209ES Electronic Devices and Circuits Laboratory	

2-1

EC301PC Analog Electronic Circuits	EC302ES Network Analysis and Synthesis	EC303PC Digital Logic Design	EC304PC Signals and Systems	EC305ES Probability Theory and Stochastic Processes
EC306PC Analog Electronic Circuits Laboratory	EC307PC Digital Logic Design Laboratory	EC308PC Basic Simulation Laboratory	MC309 Constitution of India	

2-2

MA401BS Numerical Methods and Complex Variables	EC402PC Electromagnetic Fields and Transmission Lines	EC403PC Analog and Digital Communications	EC404PC Linear and Digital IC Applications	EC405PC Electronic Circuit Analysis
EC406PC Analog and Digital Communications Laboratory	EC407PC Linear and Digital IC Applications Laboratory	EC408PC Electronic Circuit Analysis Laboratory	EC409PC Real Time Project/ Field Based Project	MC410 Gender Sensitization Lab

3-1

EC501PC Microcontrollers	EC502PC IoT Architectures and Protocols	EC503PC Control Systems	SM504MS Business Economics & Financial Analysis	Professional Elective-I
EC505PC Microcontrollers Laboratory	EC506PC IoT Architectures and Protocols Laboratory	EN508HS Advanced English Communication Skills Laboratory	MC510 Intellectual Property Rights	

3-2

EC601PC Antennas and Wave Propagation	EC602PC Digital Signal Processing	EC603PC CMOS VLSI Design	Professional Elective-II	Open Elective-I
EC604PC Digital Signal Processing Laboratory	EC605PC CMOS VLSI Design Laboratory	EC606PC Advanced Communication Laboratory	EC606PC Industry Oriented Mini Project/ Internship	MC609 Environmental Science

4-1

EC701PC
Microwave and
Optical
Communications

Professional
Elective-III

Professional
Elective-IV

Open Elective-II

EC702PC

Professional
Practice, Law &
Ethics

EC703PC
Microwave and
Optical
Communications
Laboratory

EC704PC
Project Stage – I

4-2

Professional
Elective-V

Professional
Elective-VI

Open Elective-III

EC801PC
Project Stage-II