

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