first Semester

ES-101 Programming in ‘C’

BS-103/BS-121# Applied Chemistry / Basic Chemistry#

BS-105 Applied Physics – I

ES-107 Electrical Science

BS-109 Environmental Studies

BS-111 Applied Mathematics – I

\*\*Group 1 or Group 2 shall be offered:

HS-113 Group 1: Communications Skills

OR

Group 2:

HS-115 Indian Constitution\*\*\*

HS-117 Human Values and Ethics\*\*\*

ES-119 Manufacturing Proces

Practical/Viva Voce

BS-151 Physics-I Lab

Any of the following corresponding to the theory

paper offered:

ES-153 Programming in ‘C’ Lab

BS-155 Applied Chemistry

ES-157 Engineering Graphics-I

Any of the following corresponding to the theory

paper offered:

ES-159 Electrical Science Lab

BS-161 Environmental Studies Lab

second semester

\*Any one of the following:

ES-102 Programming in ‘C’

BS-104/BS-120# Applied Chemistry / Basic Chemistry#

BS-106 Applied Physics – II

\*Any one of the following:

ES-108 Electrical Science

BS-110 Environmental Studies

BS-112 Applied Mathematics – II

\*\*Group 1 or Group 2 shall be offered:

HS-114 Group 1: Communications Skills

OR

Group 2:

HS-116 Indian Constitution\*\*\*

HS-118 Human Values and Ethics\*\*\*

ES-114 Engineering Mechanics

Practical/Viva Voce

BS-152 Physics-II Lab

\*Any of the following corresponding to the theory

paper offered:

ES-154 Programming in ‘C’ Lab

BS-156 Applied Chemistry

ES ES-158 Engineering Graphics-II

\*Any of the following corresponding to the theory

paper offered:

ES-160 Electrical Science Lab

BS-162 Environmental Studies Lab

ES-164 Workshop Practice

(cse)

third semester

ES ES-201 Computational Methods

HS/MS HS-203 Indian Knowledge System\*

PC CIC-205 Discrete Mathematics

PC ECC-207 Digital Logic and Computer Design

PC CIC-209 Data Structures

PC CIC-211 Object-Oriented Programming using C++

Practical / Viva Voce

ES ES-251 Computational Methods Lab

PC ECC-253 Digital Logic and Computer Design Lab

PC CIC-255 Data Structures Lab

PC CIC-257 Object-Oriented Programming using C++ Lab

FOURTH SEM

BS BS-202 Probability, Statistics and Linear Programming

HS/MS HS-204 Technical Writing\*

PC CIC-206 Theory of Computation

PC EEC-208 Circuits and Systems

PC CIC-210 Database Management Systems

PC CIC-212 Programming in Java

Practical / Viva Voce

BS BS-252 Probability, Statistics and Linear Programming Lab

PC EEC-254 Circuits and Systems Lab

PC CIC-256 Database Management Systems Lab

PC CIC-258 Programming in Java Lab

FIFTH SEM

HS/MS HS-301 Economics for Engineers

PC CIC-303 Compiler Design

PC CIC-305 Operating Systems

PC CIC-307 Computer Networks

PC CIC-309 Software Engineering

PC CIC-311 Design and Analysis of Algorithm

Practical / Viva Voce

PC CIC-351 Compiler Design Lab

PC CIC-353 Operating Systems Lab

PC CIC-355 Computer Networks Lab

PC CIC-357 Software Engineering Lab

PC CIC-359 Design and Analysis of Algorithm Lab

PC / Internship ES-361 Summer Training Report - 1

(ECE)

THIRD SEM

ES ES-201 Computational Methods 4 4

HS/MS HS-203 Indian Knowledge System\* 2 2

PC ECC-205 Signals and Systems 3 3

PC ECC-207 Digital Logic and Computer Design 4 4

PC ECC-209 Analog Communications 4 4

PC ECC-211 Analog Electronics-I 4 4

Practical / Viva Voce

ES ES-251 Computational Methods Lab 2 1

PC ECC-253 Digital Logic and Computer Design Lab 2 1

PC ECC-255 Analog Communications Lab 2 1

PC ECC-257 Analog Electronics-I Lab 2 1

PC ECC-259 Signals and Systems Lab

FOURTH SEM

BS BS-202 Probability, Statistics and Linear Programming 4 4

HS/MS HS-204 Technical Writing\* 2 2

PC EEC-206 Network Analysis and Synthesis 3 3

PC ECC-210 Microprocessors and Microcontrollers 3 3

PC ECC-212 Digital Communications 3 3

PC ECC-214 Analog Electronics-II 3 3

PC ECC-216 Electromagnetic Field Theory 3 3

Practical / Viva Voce

BS BS-252 Probability, Statistics and Linear Programming Lab 2 1

PC ECC-256 Microprocessors and Microcontrollers Lab 2 1

PC ECC-258 Digital Communications Lab 2 1

PC ECC-260 Analog Electronics-II Lab 2 1

PC EEC-262 Network Analysis and Synthesis Lab

FIFTH SEM

HS/MS HS-301 Economics for Engineers 2 2

PC ECC-303 Digital Signal Processing 4 4

PC ECC-305 Microelectronics 3 3

PC EEC-307 Introduction to Control Systems 3 3

PC ECC-309 Transmission Lines, Waveguides and Antenna Design 4 4

PC ECC-311 Data Communication and Networking 4 4

Practical / Viva Voce

PC ECC-351 Digital Signal Processing Lab 2 1

PC ECC-353 Microelectronics Lab 2 1

PC EEC-355 Introduction to Control Systems Lab 2 1

PC ECC-357 Transmission Lines, Waveguides and Antenna Design Lab 2 1

PC ECC-359 Data Communication and Networking Lab 2 1

(EE)

THIRD SEM

ES ES-201 Computational Methods 4 4

HS/MS HS-203 Indian Knowledge System\* 2 2

PC ECC-205 Signals and Systems 3 3

PC EEC-209 Electrical Materials 3 3

PC EEC-211 Electrical Machines - I 4 4

PC ECC-213 Electromagnetic Field Theory 3 3

PC ECC-215 Electronics – I 3 3

Practical / Viva Voce

ES ES-251 Computational Methods Lab 2 1

PC EEC-257 Electrical Machines – I Lab 2 1

PC EEC-259 Electrical Engineering Workshop 2 1

PC ECC-261 Electronics - I Lab

FOURTH SEM

BS BS-202 Probability, Statistics and Linear Programming 4 4

HS/MS HS-204 Technical Writing\* 2 2

PC EEC-206 Network Analysis and Synthesis 3 3

PC EEC-210 Electrical Machines - II 4 4

PC EEC-212 Power Systems - I 4 4

PC ECC-218 Electronics - II 4 4

Practical / Viva Voce

BS BS-252 Probability, Statistics and Linear Programming Lab 2 1

PC EEC-256 Electrical Machines - II Lab 2 1

PC EEC-260 Power Systems - I Lab 2 1

PC EEC-262 Network Analysis and Synthesis Lab 2 1

PC ECC-264 Electronics - II Lab

FIFTH SEM

HS/MS HS-301 Economics for Engineers 2 2

PC EEC-303 Power Systems – II 4 4

PC EEC-305 Electrical and Electronics Measurements 4 4

PC EEC-307 Introduction to Control Systems 3 3

PC EEC-309 Power Electronics 4 4

PC ECC-313 Microprocessors and Microcontrollers 3 3

Practical / Viva Voce

PC EEC-351 Power Systems – II Lab 2 1

PC EEC-353 Electrical and Electronics Measurements Lab 2 1

PC EEC-355 Introduction to Control Systems Lab 2 1

PC EEC-357 Power Electronics Lab 2 1

PC ECC-363 Microprocessors and Microcontrollers Lab 2 1

PC / Internship ES-361 Summer Training Report - 1

(ME)

THIRD SEM

ES ES-201 Computational Methods 4 4

HS/MS HS-203 Indian Knowledge System\* 2 2

PC MEC-205 Theory of Machines 3 3

PC MEC-207 Strength of Materials 4 4

PC MEC-209 Manufacturing Science and Technology-I 4 4

PC MEC-211 Thermal Engineering - I 4 4

Practical / Viva Voce

ES ES-251 Computational Methods Lab 2 1

PC MEC-253 Theory of Machines Lab 2 1

PC MEC-255 Strength of Materials Lab 2 1

PC MEC-257 Thermal Engineering – I Lab 2 1

PC MEC-259 Manufacturing Science and Technology-I La

FOURTH SEM

BS BS-202 Probability, Statistics and Linear Programming 4 4

HS/MS HS-204 Technical Writing\* 2 2

PC MEC-206 Manufacturing Science and Technology-II 4 4

PC MEC-208 Material Science and Metallurgy 4 4

PC MEC-210 Thermal Engineering - II 4 4

PC MEC-212 Machine Design-I 4 4

Practical / Viva Voce

BS BS-252 Probability, Statistics and Linear Programming Lab 2 1

PC MEC-254 Manufacturing Science and Technology-II Lab 2 1

PC MEC-256 Thermal Engineering - II Lab 2 1

PC MEC-258 Machine Design - I Lab

FIFTH SEM

HS/MS HS-301 Economics for Engineers 2 2

PC MEC-303 Machine Design-II 4 4

PC MEC-305 Fluid Mechanics and Hydraullic Machines 4 4

PC MEC-307 Metrology and Instrumentation 4 4

PC MEC-309 Industrial Engineering 4 4

PC MEC-311 Heat and Mass Transfer 4 4

Practical / Viva Voce

PC MEC-351 Machine Design-II Lab 2 1

PC MEC-353 Fluid Mechanics and Hydraullic Machines Lab 2 1

PC MEC-355 Heat and Mass Transfer Lab 2 1

PC / Internship ES-361 Summer Training Report - 1 \*

(CE)

THIRD SEM

ES ES-201 Computational Methods 4 4

HS/MS HS-203 Indian Knowledge System\* 2 2

PC CEC-205 Structural Analysis - I 4 4

PC CEC-207 Structural Design - I 4 4

PC CEC-209 Fluid Mechanics 4 4

PC CEC-211 Geomatics Engineering 4 4

Practical / Viva Voce

ES ES-251 Computational Methods Lab 2 1

PC CEC-253 Civil Engineering Drawing Lab 2 1

PC CEC-255 Fluid Mechanics Lab 2 1

PC CEC-257 Geomatics Engineering Lab

FOURTH SEM

BS BS-202 Probability, Statistics and Linear Programming 4 4

HS/MS HS-204 Technical Writing\* 2 2

PC CEC-206 Soil Mechanics 4 4

PC CEC-208 Hydraulics and Hydrology 4 4

PC CEC-210 Environmental Engineering - I 4 4

PC CEC-212 Transportation Engineering 4 4

Practical / Viva Voce

BS BS-252 Probability, Statistics and Linear Programming Lab 2 1

PC CEC-254 Soil Mechanics Lab 2 1

PC CEC-256 Hydraulics Lab 2 1

PC CEC-258 Transportation Engineering Lab

FIFTH SEM

HS/MS HS-301 Economics for Engineers 2 2

PC CEC-303 Structural Analysis - II 4 4

PC CEC-305 Structural Design - II 3 3

PC CEC-307 Geotechnical Engineering 4 4

PC CEC-309 Environmental Engineering - II 4 4

PC CEC-311 Traffic Engineering and Pavement Design 4 4

Practical / Viva Voce

PC CEC-351 Structural Design Lab 2 1

PC CEC-353 Building Material and Concrete Testing Lab 2 1

PC CEC-355 Geotechnical Engineering Lab 2 1

PC CEC-357 Environmental Engineering Lab 2 1

PC / Internship ES-361 Summer Training Report - 1 \*