[7.1 Year I](#_Toc240423295)  16

***7.1.1 Semester I …………………………………………………………………………………………………………………………….*** 16

UCCC 1101 Communications Skills 48 hours, 1 unit. ……………………………. 16

UCCC 1102 Creative and critical thinking 48 hours, 1 unit……………………….... 16

ECII 1101 Physics 48 hours, 1 units ……………………………………………… 16

ECII 1102 Mathematics 48 hours, 1 unit …………………………………………. 16

ECII 1103 Computer Applications 72hours ,1.5 units ……………. 16

ECII 1104 Principles of programming 72hours ,1.5 units ………………………….. 17

ECII 1105 Introduction to computing technologies 48hours ,1 unit………………. 17

ECII 1106 Operating System Technologies 48hours ,1 unit. ..……………………… 17

ECII 1107 Internet technologies 48hours ,1 unit. ………………………………........ 18

***7.1.2 Semester II …………………………………………………………………………………..***…………………………………. 18

UCCC 1201 Health Education 48 hours, 1 unit. ……………………………… …. …………………...18

UCCC 1103 Society & culture 48 hours, 1 unit. ……………………………… …. 18

ECII 1201 Principles of Economics 48 hours ,1 unit. ………………………………... 18

ECII 1202 Electrical engineering principles I 48 hour ,1 unit. ……………………... 19

ECII 1203 Discrete Mathematics 48 hours ,1 unit. ………………………………… 19

ECII 1204 Computer Networking technology I 48 hours , 1 unit. …………………………….... 19

ECII 1205 Structured programming 48hours ,1 unit. ………………………………... 19

ECII 1206 Database Systems Principles 48hours ,1 unit ……………………………. 20

ECII 1207 Computer organization and Architecture 48hours ,1 unit ………………... 20

**7.2 Year II** ***…………………………………………………………………………………..***…………………………….... 20

***7.2..1 Semester I …………………………………………………………………………………..***……………………………... 20

ECII 2101 Principles of accounting 48hours ,1 unit………………………………… 21

ECII 2102 Calculus 48 hours ,1 unit ……………………………………………….. 21

ECII 2103 Analogue Electronics 48 hours ,1 unit ……………….. 21

ECII 2105 System Analysis 48 hours ,1 unit ……………………………….... 21

ECII 2106 Visual Programming 48 hours ,1.0 unit ……………………………….... 21

ECII 2107 Database Design and Programming 48 hours ,1 unit ………………….... 22

ECII 2108 Internet and web Based Programming 48 hours ,1 unit …………………………….. 22

ECII 2104 Computer Aided drawing and design Applications 48 hours ,1 unit … 22

***7.2..2 Semester II …………………………………………………………………………………..***……………………………. 23 ECII 2201 Probability & statistics 48 hours ,1.0 units …………………………. 23 ECII 2202 Digital Electronics 48 hours ,1 unit …………………. 23

ECII 2203E-Commerce 48 hours,1.0 unit ………………………………………… 23

ECII 2204 Advanced Website development and Internet Tech23

ECII 2205 System Design & Implementation 48 hours ,1 unit …………………….. 23

ECII 2206 Advanced Visual Programming 48 hours ,1 unit …………………………….………. 24

ECII 2207 Operating System design principles 48 hours,1.0 unit ……………………… 24

ECII 2208 Data communication Technology 48 hours ,1 unit ..…………………… 24

ECII 2209 Unix and Windows Server Operating system 48 hours, 1 unit ……….... 25

***7.2.3 Semester III IBL1*** Internal attachment (Project assignments) - 12 weeks) 372 hours 4.5 units.…... 25

IBL1 2301 Network design, installation and configuration laboratory 48 hours, 0.5 units.…... 25

IBL1 2302 Hardware & Software installation and configuration laboratory 48 hours, 0.5 units. 25

IBL1 2303 Network Routing and Configuration laboratory 48 hours, 0.5 units...………………. 26

IBL1 2305 Systems Development laboratory 72 hours,0.75 units.… 26

IBL1 2306 Computer Hardware serving, repair, maintenance, & assembly Workshop practice laboratory 48 hours, 0.5 units.… 26

IBL1 2307 Web design & development 60 hours, 0.65 units ....... 26

**7.3 Year III*…………………………………………………………………………………***.…………………......................... 27

***7.3.1 Semester I******…………………………………………………………………………………***.………………….................... 27ECII 3100 Entrepreneurship Education 48 hours ,1 unit .……………………….... 27 ECII 3102Linear algebra……………………………….... 27

ECII 3103 Statistical and financial accounting systems Applications 48 hours ,1 unit ………… 27

ECII 3104 Data Structures and Analysis of Algorithm 48 hours,1.0 unit …………….... 28

ECIII 3015 Simulation and Modelling 48 hours,1.0 unit ..………………….... 28

ECII 3016 Object Oriented Analysis and Design 48 hours,1.0 unit. ..………………...... 28

ECII 3017 Computer Graphics 48 hours,1.0 unit..………………………………....... 28

***7.3.2 Semester II*** 29

ECII 3201 Research Methods 24 hours, 0.5 unit..……………. …………………...29

ECII 3202 Numerical Methods 48 hours,1.0 unit... …………………………….. 29

ECII 3203 Mobile Networks and Computing 48 hours,1.0 unit ..……………………… 30

ECII 3204 Network design, Security & administration 48 hours,1.0 unit ………………. 30

ECII 3205 Object Oriented Programming (OOP) 48 hours,1.0 unit.……………………………. 30

ECII 3206 Artificial Intelligence and Expert Systems 48 hours,1.0 unit..……………………...... 30

ECIII 3207 Compiler Construction……………....... 31

ECIII 3208 Information System Management and Audit 48 hours,1.0 unit……………… 31

***7.3.3 Semester III***  IBL2 Industrial attachment (External) 432 hours, 4.5 units..………………... 31

IBL2 3301 Software Engineering Studio 96 hours,1.5 units.… 31

IBL2 3302 Design, Installation and Maintenance of Networked Systems 96 hours, 1 unit. 31

IBL2 3303 Mobile Application Development, 1 units ....... 31

IBL2 3304 Business Plans, 1 units ........................................................................ 31

**7.4 Year IV *…………………………………………………………………………………***.…………………..................... 32

***7.4.1 Semester I******………………………………………………………***.…………………..................... 32

ECIII 4101 Software Project management 48 hours,1.0 unit ..………………. …………………..32

ECIII 4102 Multimedia Systems and Applications 48 hours,1.0 unit..………………………...... 32

ECIII 4103 Environment Management 48 hours,1.0 unit ……... …………………...32

ECII 4104 Distributed systems and Networks 48 hours,1.0 unit ..……………………......... 32

ECII 4105 Database Administration 48 hours,1.0 unit ..………………………….... 33

ECII 4106 Computer Visions 48 hours,1.0 unit. ………………… …………………...33

ECII 4107 Information Technology Project A 96 hours, 2 units.…………… ………... 33

***7.4.2 Semester II* *…………………………………………………………………………………***.………………….................... 34ECII 4101 Organization Management 48 hours,1.0 unit ..………………………... 34

ECII 4102 Cryptography and information System Security 48 hours,1.0 unit .……………...34

ECII 4103 Estimating, Tendering and computer services contracts 48 hours,1.0 unit ..……… 34

ECII 4104 ICT, emerging technological trends and Society 48 hours,1.0 unit.…… …………… 34

ECII 4105 Legal and ethical issues in Computing 48 hours,1.0 unit ………… ………. 35

ECII 4106 Information Technology Project B 96 hours, 2 units..………... ……………………….. 35

# 8 Distribution of Examination Marks, Lectures and Practicals..………………………………………… 36