

BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING) WITH HONOURS : PROGRAM STRUCTURE DETAILS

UNIVERSITY

MATHS

CORE FACULTY (BC*) & CORE PROGRAM (BCN)

YEAR 1

YEAR 2

YEAR 3

YEAR 4

UQB11 (1)**
Co-Curriculum 1**UHS1011 (1)**
Soft Skills 1**UHR1012 (2)**
Islamic & Asian
Civillisation**UQB2**1 (1)**
Co-Curriculum 2**UGE2002 (2)**
Techno
preneurship**UHM2022 (2)**
Ethnic Relations**UHL2422 (2)**
English for
Technical
Communications**UHF1**1 (1)**
Foreign Language
1**UHS2011 (1)**
Soft Skills 2**UHE***2 (2)**
Elective University
1**UHF2**1 (1)**
Foreign Language
2**UHE***2 (2)**
Elective University
2**BUM1233 (3)**
Discrete
Mathematics &
Applications**BUM1433 (3)**
Discrete Structure
& Application**BUM2413 (3)**
Applied Statistics**Legend****Prerequisite**
—▶ pass grade****all subjects may not be offered every semester. Kindly
check latest course catalog****Elective subjects (prerequisite)****BCS3433** Software Architecture for Autonomous
System (BCS2313)**BCN3113** Ethical Hacking (BCN2023)**BCS3423** Integrated Business Process wit SAP
(BCS1133)**BCS3433** Cyber Physical System Modelling
(BUM1233 & BCI1093)**BCI3283** Mobile Application Development
(BCS2143)**BCN3213** Embedded System (BCI1023)**BCM3263** Augmented Reality (BCI1023)*****not all elective subjects available each semester,
please check latest course catalog****BCI1143 (3)**
Problem Solving**BCN1043 (3)**
Computer
Architecture &
Organization**BCS1033 (3)**
Software
Engineering**BCI1023 (3)**
Programming
Technique**BCN1053 (3)**
Data
Communications
& Networking**BCI2023 (3)**
Database
Systems**BCS1133 (3)**
System Analysis &
Design**BCI1093 (3)**
Data Structure &
Algorithms**BCS2143 (3)**
Object Oriented
Programming**BCS2173 (3)**
Human Computer
Interaction**BCS2233 (3)**
Software
Requirement
Workshop**BCN2053 (3)**
Operating
Systems**BCS2313 (3)**
Artificial
Intelligence**BCS2343 (3)**
Software Design
Workshop**BCS2243 (3)**
Web Engineering**BCI2313 (3)**
Algorithm &
Complexity**BCS2213 (3)**
Formal Method**BCN2023 (3)**
Data & Network
Security**BC*3**3 (3)**
Elective 1**BCS3233 (3)**
Software Testing**BCC3012 (2)**
Undergraduate
Project 1**BCS3133 (3)**
Software
Engineering
Practices**BCS3153 (3)**
Software Evolution
& Maintenance**BC*3**3 (3)**
Elective 2**BCC3024 (4)**
Undergraduate
Project 2**BCS3263 (3)**
Software Quality
Assurance**BCS3143 (3)**
Software Project
Management**BC*3**3 (3)**
Elective 3**BCC4012 (12)**
Industrial Training**TOTAL MIN CREDIT
HOUR = 127**

Sem 1 (16)

Sem 2 (17)

Sem 3 (17)

Sem 4 (17)

Sem 5 (17)

Sem 6 (15)

Sem 7 (16)

Sem 8 (12)