## 'Towards Technology Innovation and Information Globalization '

## FACULTY OF COMPUTING AND INFORMATICS

## **BACHELOR OF COMPUTER SCIENCE WITH HONOURS**

BPKPPROGRAMME CODEHC00Software Engineering

For further inquiries, please contact:

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2016	HC00 SOFT	WARE ENG	NEERING						
20	YEAR 1			YEAR 2		YEAR 3		YEAR 4	
2		Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
Course Structure Session 2015 /	UNIVERSITY CORE COURSES (12 CREDIT HOURS)	*UW00202 Islam&Asian Civilization UE00202 WorkEthicsand Professional (UExxx02) UK00202 Creative Thinking and Writing (UKxxx02)	*UW00102 Ethnic Relations UC00302 Negotiation Skills (UCxxx02)	UW00302 Fundamentals of Entrepreneurial Acculturation (APK)					
	LANGUAGE (8 CREDIT HOURS)	UB00102 Communicative English Grammar	UB00202 Oral Communication in English	<b>UB00302</b> Reading and Writing in English	UB00402 Academic Reading and Writing				
	CO-CURRICULUM (3 CREDIT HOURS)	ECXXXX3 Co-Curriculum							
	FACULTY CORE (38 CREDIT HOURS)	KT14103 Calculus KT14303 Programming Principles	KT14203 Computer Architecture & Organization KT14403 Discrete Structures	KT24103 Data Structures & Algorithms KT24303 Network Fundamentals KT24503 Database	KT24203 Probability and Statistics KT24403 Operating Systems KT00802 Entrepreneurship in Technology	KT34103 Artificial Intelligence KT34303 Computer Graphics		KT44103 Ethics and Law in ICT	

2016	HC00 SOFTWARE ENGINEERING								
N	YEAR 1		YEAR 2		YEAR 3		YEAR 4		
2		Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
<b>Course Structure Session 201</b>	PROGRAMME CORE (36 CREDIT HOURS)		KK14203 Object Oriented Programming	KK24103 System Analysis	KK24203 Object-Oriented Modeling and Design KK24403 Models of Computation	KK34103 Software Project Management KK34303 Software Maintenance & Evolution		KK44103 Project I KK44303 Formal Methods in Software Engineering KK44503 Human- Computer Interaction	KK44203 Project II KK44403 Software Quality Management KK44603 Software Verification & Validation
	INDUSTRIAL TRAINING (12 CREDIT HOURS)						KK34212 Industrial Training		
	ELECTIVE (12 CREDIT HOURS)					KK0XX03 Elective 1		KK0XX03 Elective 2	KKOXX03 Elective 3 KKOXX03 Elective 4
	TOTAL (121 CREDIT HOURS)	17	15	16	16	15	12	15	15

\*Note: Students can choose four (4) elective courses as listed below.

## ELECTIVES LIST FOR HC00

Code	KK04103	KK04203	KK04303	KK04403	KK04503	KK04603	KK04703	KK04803
	Heuristics Algorithms	Intelligent Agents	Artificial Immune Systems	Artificial Neural Networks	Evolutionary Computing	Semantic Web	Data Mining	Information Retrieval
Credit Hours	3	3	3	3	3	3	3	3