

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)

	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

HC00 SOFTWARE ENGINEERING									
Course Structure Session 2020/2021	UNIVERSITI CORE (12 Credit Hours)	(6 Credit Hours)	(4 Credit Hours)	(2 Credit Hours)	REFER TO PPIB COURSE OFFER				
	LANGUAGE (8 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	REFER TO PPIB COURSE OFFER			
	CO-CURRICULUM (3 Credit Hours)	ECXXXX3 Co-Curriculum (3 Credit Hours)							
	FACULTY CORE (35 Credit Hours)	KT14303 Programming Principles KT14503 Mathematics for Computing (6 Credit Hours)	KT14203 Computer Architecture & Organization KT14403 Discrete Structures (6 Credit Hours)	KT24103 Data Structures & Algorithms KT24503 Database (6 Credit Hours)	KT24203 Probability and Statistics KT24403 Operating Systems (6 Credit Hours)	KT34103 Artificial Intelligence KT34303 Computer Graphics (6 Credit Hours)		KT44103 Ethics and Law in ICT KT44302 Entrepreneurship in Technology (5 Credit Hours)	

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)

	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

Course Structure Session 2020/2021	HC00 SOFTWARE ENGINEERING								
	PROGRAMME CORE (39 Credit Hours)		KK14203 Object Oriented Programming (3 Credit Hours)	KK24103 System Analysis KK24303 Data Communication (6 Credit Hours)	KK24203 Object-Oriented Modeling and Design KK24603 Web Engineering (6 Credit Hours)	KK34103 Software Project Management KK34503 Software Quality and Testing (6 Credit Hours)	KK34203 Project I KK34403 Human Computer Interaction KK34603 Computer Security KK34803 Parallel Programming And Distributed Systems (12 Credit Hours)	KK44703 Project II KK44903 Software Maintenance & Evolution (6 Credit Hours)	
	INDUSTRIAL TRAINING (12 Credit Hours)								KK44212 Industrial Training (12 Credit Hours)
	ELECTIVE (12 Credit Hours)				KK0XX03 Elective 1 (3 Credit Hours)	KK0XX03 Elective 2 (3 Credit Hours)	KK0XX03 Elective 3 (3 Credit Hours)	KK0XX03 Elective 4 (3 Credit Hours)	

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)									
	Year 1		Year 2		Year 3		Year 4		
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	

HC00 SOFTWARE ENGINEERING									
TOTAL CREDIT HOURS (122 Credit Hours)	17	15	16	17	15	15	14	12	

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

ELECTIVES LIST FOR HC00

Code	KK04103	KK04303	KK04503	KK04703	KK04803	KK05203	KK05303	KK05503	KK05403	IP01903
Course Name	Heuristics Algorithms	Artificial Immune Systems	Evolutionary Computing	Data Mining	Information Retrieval	Mobile Computing	Special Topic in Computer Science	Models of Computation	Formal Methods in Software Engineering	Digital Workforce
Credit Hours	3	3	3	3	3	3	3	3	3	3

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	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

HC05 NETWORK ENGINEERING									
Course Structure Session 2020/2021	UNIVERSITI CORE (12 Credit Hours)	(6 Credit Hours)	(4 Credit Hours)	(2 Credit Hours)	REFER TO PPIB COURSE OFFER				
	LANGUAGE (8 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	REFER TO PPIB COURSE OFFER			
	CO-CURRICULUM (3 Credit Hours)	ECXXXX3 Co-Curriculum (3 Credit Hours)							
	FACULTY CORE (35 Credit Hours)	KT14303 Programming Principles KT14503 Mathematics for Computing (6 Credit Hours)	KT14203 Computer Architecture & Organization KT14403 Discrete Structures (6 Credit Hours)	KT24103 Data Structures & Algorithms KT24503 Database (6 Credit Hours)	KT24203 Probability and Statistics KT24403 Operating Systems (6 Credit Hours)	KT34103 Artificial Intelligence KT34303 Computer Graphics (6 Credit Hours)		KT44103 Ethics and Law in ICT KT44302 Entrepreneurship in Technology (5 Credit Hours)	

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)

	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

Course Structure Session 2020/2021	HC05 NETWORK ENGINEERING							
PROGRAMME CORE (39 Credit Hours)		KP14603 Object Oriented Programming Concepts (3 Credit Hours)	KP24103 System Analysis & Design KP24303 Network Fundamentals (6 Credit Hours)	KP24203 Routing Protocols and Concepts KP24403 Web Technology (6 Credit Hours)	KP34503 Software Engineering KP34703 Human-Computer Interaction (6 Credit Hours)	KP34203 Project I KP34403 Parallel and Distributed Computing KP34603 Enterprise Networks KP34803 Network Security (12 Credit Hours)	KP44703 Project II KP44903 WAN Technology (6 Credit Hours)	
INDUSTRIAL TRAINING (12 Credit Hours)								KP44212 Industrial Training (12 Credit Hours)
ELECTIVES (12 Credit Hours)				KP0XX03 Elective 1 (3 Credit Hours)	KP0XX03 Elective 2 (3 Credit Hours)	KP0XX03 Elective 3 (3 Credit Hours)	KP0XX03 Elective 4 (3 Credit Hours)	

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)									
	Year 1		Year 2		Year 3		Year 4		
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	

HC05 NETWORK ENGINEERING									
TOTAL CREDIT HOURS (121 Credit Hours)	17	15	16	17	15	15	14	12	

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

ELECTIVES LIST FOR HC05

Code	KP00103	KP00303	KP00503	KP00603	KP00703	KP00803	KP00903	KP01003	IP01903
Course Name	Ad Hoc and Sensor Networks	Network Simulation	Next Generation Network Architecture	Mobile Application Development	Data Encryptions and Cryptography	Special Topics on Network	Wireless & Mobile Computing	Network Management and Monitoring	Digital Workforce
Credit Hours	3	3	3	3	3	3	3	3	3

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	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

Course Structure Session 2020/2021	HC12 MULTIMEDIA TECHNOLOGY							
	UNIVERSITI CORE (PROMOTION OF KNOWLEDGE) (12 Credit Hours)	(6 Credit Hours)	(4 Credit Hours)	(2 Credit Hours)	REFER TO PPIB COURSE OFFER			
	UNIVERSITY CORE (LANGUAGE) (8 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	REFER TO PPIB COURSE OFFER		
	UNIVERSITY CORE (CO-CURRICULUM) (3 Credit Hours)	ECXXXX3 Co-Curriculum (3 Credit Hours)						
	FACULTY CORE (33 Credit Hours)	IT12103 Introduction to Computer Programming (3 Credit Hours)	IT12403 Internet Technology IT12203 Basic Mathematics IT12603 Operating System (9 Credit Hours)	IT32203 Discrete Mathematics IT22403 Database Management Systems (6 Credit Hours)	IT22103 Object Oriented Programming IT22303 Statistic (6 Credit Hours)	IT22603 Data Structure (3 Credit Hours)	IT32103 Human Computer Interaction IT32403 Management Information Systems (6 Credit Hours)	

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	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

	HC12 MULTIMEDIA TECHNOLOGY													
Course Structure Session 2020/2021	PROGRAMME CORE (42 Credit Hours)	IM12103 Fundamentals of Multimedia (3 Credit Hours)	IM12203 Multimedia Design (3 Credit Hours)	IM22103 Video Production (3 Credit Hours)	IM22203 Animation (6 Credit Hours)	IM22403 Technopreneurship (6 Credit Hours)	IM32103 Web Programming (9 Credit Hours)	IM32303 Computer Graphic (9 Credit Hours)	IM32603 Advanced Multimedia (8 Credit Hours)	IM32803 Multimedia Project Management (8 Credit Hours)	IM33002 Project 1 (8 Credit Hours)	IM42103 Ethics in Information Technology Industries (10 Credit Hours)	IM42303 Network and Security (10 Credit Hours)	IM42504 Project 2 (10 Credit Hours)
	INDUSTRIAL TRAINING (12 Credit Hours)													IM42612 Industrial Training (12 Credit Hours)
	MINOR / ELECTIVES (12 Credit Hours)			IPOXX03 (3 Credit Hours)	IPOXX03 (3 Credit Hours)	IPOXX03 (3 Credit Hours)						IPOXX03 (3 Credit Hours)		

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)									
	Year 1		Year 2		Year 3		Year 4		
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	

HC12 MULTIMEDIA TECHNOLOGY									
TOTAL CREDIT HOURS (122 Credit Hours)	17	18	16	17	15	14	13	12	

ELECTIVES LIST FOR HC12

Code	IP00103	IP00703	IP00803	IP00903	IP01103	IP01503	IP01603	IP01803	IP01903
Course Name	Creative Writing	Principles of Marketing	Cyber Law	Principles of Accounting	Research Methodology	Creative Thinking Skills	E-Commerce	Current Topics and Issues	Digital Workforce
Credit Hours	3	3	3	3	3	3	3	3	3

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	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

HC13 BUSINESS COMPUTING									
Course Structure Session 2020/2021	UNIVERSITI CORE (PROMOTION) OF KNOWLEDGE (12 credit hour)	(6 Credit Hour)	(4 Credit Hour)	(2 Credit Hour)	REFER TO PPIB COURSE OFFER				
	UNIVERSITY CORE LANGUAGE (8 Credit Hour)	(2 Credit Hour)	(2 Credit Hour)	(2 Credit Hour)	(2 Credit Hour)	REFER TO PPIB COURSE OFFER			
	UNIVERSITY CORE CO-CURRICULUM (3 Credit Hour)	ECXXXX3 Co-Curriculum (3 Credit Hour)							
	FACULTY CORE (33 Credit Hour)	IT12103 Introduction to Computer Programming (3 Credit Hour)	IT12203 Basic Mathematics IT12403 Internet Technology IT12603 Operating System (9 Credit Hour)	IT22103 Object Oriented Programming IT22303 Statistic (6 Credit Hour)	IT22403 Database Management System IT22603 Data Structure (6 Credit Hour)	IT32103 Human Computer Interaction (3 Credit Hour)	IT32203 Discrete Mathematics IE32403 Management Information Systems (6 Credit Hour)		

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	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

HC13 BUSINESS COMPUTING									
Course Structure Session 2019/2020	PROGRAMME CORE (42 Credit Hour)	IE12203 Business Management (3 Credit Hour)	IE12103 E-Commerce (3 Credit Hour)	IE32103 Technopreneurship (3 Credit Hour)	IE22203 E-Commerce Business Model IE22403 Web Programming (6 Credit Hour)	IE22103 Marketing IE32303 Information Technology Project Management IE32503 Analysis and Design for E-Commerce (9 Credit Hour)	IE32603 Ethics in Information Technology IE32803 Network and Security IE33002 Project 1 (8 Credit Hour)	IE42103 Security and E-Commerce Payment System IE42303 Data Mining IE42504 Project 2 (10 Credit Hour)	
	INDUSTRIAL TRAINNING (12 Credit Hour)								IE42612 Industrial Training (12 Credit Hour)
	MINOR / ELECTIVES (12 Credit Hour)			IPXXXX3 (3 Credit Hour)	IPXXXX3 (3 Credit Hour)	IPXXXX3 (3 Credit Hour)		IPXXXX3 (3 Credit Hour)	

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)									
	Year 1		Year 2		Year 3		Year 4		
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	

HC13 BUSINESS COMPUTING									
TOTAL CREDIT HOURS (122 Credit Hours)	17	18	16	17	15	14	13	12	

ELECTIVES LIST FOR HC13

Code	IP00103	IP00403	IP00803	IP00903	IP01103	IP01203	IP01703	IP01803
Course Name	Creative Writing	Intro to Psychology	Cyber Law	Principles of Accounting	Research Methodology	System Engineering	Multimedia	Current topics and issues
Credit Hours	3	3	3	3	3	3	3	3

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)

	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

HC14 DATA SCIENCE

Course Structure Session 2019/2020	HC14 DATA SCIENCE							
	UNIVERSITI CORE (PROMOTION) OF KNOWLEDGE (12 Credit Hours)	(6 Credit Hours)	(4 Credit Hours)	(2 Credit Hours)	REFER TO PPIB COURSE OFFER			
	LANGUAGE (8 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	(2 Credit Hours)	REFER TO PPIB COURSE OFFER		
	CO-CURRICULUM (3 Credit Hours)	ECXXXX3 Co-Curriculum (3 Credit Hours)						
FACULTY CORE (38 Credit Hours)	KT14303 Programming Principles KT14503 Mathematics for Computing (6 Credit Hours)	KT14203 Computer Architecture & Organization KT14403 Discrete Structures (6 Credit Hours)	KT24103 Data Structures & Algorithms KT24503 Database (6 Credit Hours)	KT24403 Operating Systems KT24602 Software Engineering KT24803 Networking and Communication (8 Credit Hours)	KT34103 Artificial Intelligence KT34503 Human Computer Interaction (6 Credit Hours)	KT34203 Computer and Information Security (3 Credit Hours)	KT44102 Ethics and Law in ICT KT44502 Distributed System (4 Credit Hours)	

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	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

Course Structure Session 2019/2020	HC14 DATA SCIENCE								
	PROGRAMME CORE (30 Credit Hours)		KD14203 Object Oriented Programming for Data Science KD14403 Fundamental of Data Science (6 Credit Hours)	KD24103 Statistics and Data Analysis KD24303 SAD for Data Science (6 Credit Hours)	KD24203 Data Mining and Warehousing (6 Credit Hours)	KD34103 Text Mining KD34303 Internet of Things (6 Credit Hours)	KD34203 Data Visualization KD34403 Machine Learning for Data Science (12 Credit Hours)	KD44103 Big Data Analytics (6 Credit Hours)	
	Projek (6 Credit Hour)						KD34603 Projek 1	KD44303 Project II	
	INDUSTRIAL TRAINING (12 Credit Hours)								KD44212 Industrial Training (12 Credit Hours)
	ELECTIVE (12 Credit Hours)				KD0XX03 Elective 1 (3 Credit Hours)	KD0XX03 Elective 2 (3 Credit Hours)	KD0XX03 Elective 3 (3 Credit Hours)	KD0XX03 Elective 4 (3 Credit Hours)	

4 YEARS PROGRAMME COURSE STRUCTURE (8 SEMESTERS)									
	Year 1		Year 2		Year 3		Year 4		
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	

HC14 DATA SCIENCE									
ELECTIVE (12 Credit Hours)				KD0XX03 Elective 1 (3 Credit Hours)	KD0XX03 Elective 2 (3 Credit Hours)	KD0XX03 Elective 3 (3 Credit Hours)	KD0XX03 Elective 4 (3 Credit Hours)		
TOTAL CREDIT HOURS (121 Credit Hours)	17	18	16	16	14	15	13	12	

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

ELECTIVES LIST FOR HC14

Code	KD04103	KD04203	KK04803	KD04403	KD04303	KK05303	IP01903
Course Name	Mobile Applications Development	Computational Thinking	Information Retrieval	Natural Languages Processing	Technopreneurship	Special Topics in Computer Science	Digital Workforce
Credit Hours	3	3	3	3	3	3	3

Subjects KD04303 and KD04503 will be offered on every semester.