BACHELOR OF INFORMATION TECHNOLOGY WITH HONOURS

TRACK IN DATA SCIENCE

YEAR 3

SEMESTER 5

- DIGITAL ENTREPRENEURSHIP I
- INTRODUCTION TO DATA SCIENCE
- . PRACTICES IN BIG DATA I
- ELECTIVE I
- CAPSTONE I
- FOREIGN LANGUAGE I

SEMESTER 6

- DIGITAL ENTREPRENEURSHIP II
- CAPSTONE II
- ELECTIVE II
- DATA MINING AND APPLICATIONS
- FOREIGN LANGUAGE II
- FINAL YEAR PROJECT I

YEAR 4

SEMESTER 7

- SCIENTIFIC VISUALIZATION
- ELECTIVE III

SEMESTER 8

- STUDENT PROGRAMS IN ENTERPRISE
- FINAL YEAR PROJECT II

INDUSTRIAL TRAINING

YEAR 1

SEMESTER '

- ENGLISH LANGUAGE I
- APPRECIATION OF ETHICS AND CIVILIZATION
- CO-CURRICULUM I
- HUMAN-COMPUTER INTERACTION
- FUNDAMENTALS OF PROGRAMMING
- COMPUTATIONAL MATHEMATICS
- FUNDAMENTALS OF ENTREPRENEURSHIP

SEMESTER 2

- ENGLISH LANGUAGE II
- CO-CURRICULUM II
- PHILOSOPHY AND CURRENT ISSUES
- DATA STRUCTURE
- DISCRETE MATHEMATHICS
- CYBER SECURITY
- ENTREPRENEURIAL BEHAVIOURS

YEAR 2

SEMESTER 3

- ENGLISH FOR SCIENCE
- LINEAR ALGEBRA
- . SYSTEM ANALYSIS AND DESIGN
- OBJECT-ORIENTED PROGRAMMING
- DATABASE
- STRATEGIC ENTREPRENEURSHIP/ CORPORATE ENTREPRENEURSHIP

SEMESTER 4

- PROBABILITY AND STATISTICS
- · INTERNET OF THINGS
- APPLICATION DEVELOPMENT
- INFORMATION TECHNOLOGY MANAGEMENT PROJECT
- MANAGEMENT & NEW ENTERPRISE DEVELOPMENT/ INNOVATION MANAGEMENT IN ENTREPRENEURSHIP

TRACK IN DATA SCIENCE

TRACK IN ARTIFICIAL INTELLIGENCE

YEAR 3

SEMESTER 5

- DIGITAL ENTREPRENEURSHIP I
- PRACTICES IN ARTIFICIAL INTELLIGENCE I
- COMPUTATIONAL INTELLIGENCE
- ELECTIVE I
- CAPSTONE I
- FOREIGN LANGUAGE I

SEMESTER 6

- DIGITAL ENTREPRENEURSHIP II
- CAPSTONE II
- ELECTIVE II
- MACHINE LEARNING
- FOREIGN LANGUAGE II
- FINAL YEAR PROJECT I

YEAR 4

SEMESTER 7

- EVOLUTIONARY COMPUTING
- ELECTIVE III
- STUDENT PROGRAMS IN ENTERPRISE
- FINAL YEAR PROJECT II

SEMESTER 8

INDUSTRIAL TRAINING

CURRICULUM STRUCTURE

Curriculum	MQA Program Stand	ard - Computing (%) ^b	Curriculum At UMK		
Component	Credit Hour	Percentage (%)	Credit	Credit Hour	
General Course	10 – 14	8 – 12	16	12.70	
Core Course	33 – 45	28 – 38	42	33.33	
Elective Course	27 – 67	23 – 56	36	28.57	
Final Year Project	6 – 11	5 – 8	6	4.76	
Industrial Training	6 – 12	5 – 10	12	9.52	
Optional Course (Entrepreneurship UMK)	12 – 30	10 – 25	14	11.11	
Total		120	126	100	

STUDY PLAN

		SEMESTER 1				SEMESTER 2			
YEAR	COMPONENT	CODE	CODE COURSE CREDIT CODE		COURSE	CREDIT			
		UBI1012	ENGLISH LANGUAGE I	2	UBI1022	ENGLISH LANGUAGE II	2		
	GENERAL COURSE	I LISK 10202 L APPRECIATION DE ETHICS AND CIVILIZATION T		2	UK_1_1	CO-CURRICULUM II			
		UK_1_1	CO-CURRICULUM I	1	USK10102	PHILOSOPHY AND CURRENT ISSUES	2		
	1 CORE COURSE	JIT10603	HUMAN-COMPUTER INTERACTION	3	JIT10403	DATA STRUCTURE	3		
1		JIT10203	FUNDAMENTALS OF PROGRAMMING	3	JIT10503	DISCRETE MATHEMATHICS	3		
		JIT10303	COMPUTATIONAL MATHEMATICS	3	JIT10703	CYBER SECURITY	3		
	OPTIONAL COURSE (Entrepreneurship UMK)	AFT1013	FUNDAMENTALS OF ENTREPRENEURSHIP	3	APT2013	ENTREPRENEURIAL BEHAVIOURS	3		
	TOTAL CREDIT			17			17		

			SEMESTER 3		SEMESTER 4			
YEAR	COMPONENT	CODE COURSE		CREDIT	CODE	COURSE	CREDIT	
	GENERAL COURSE	UBI2012	ENGLISH FOR SCIENCE	2				
	CORE COURSE	JIT20803	LINEAR ALGEBRA	3	JIT21203	PROBABILITY AND STATISTICS	3	
		JIT20903	SYSTEM ANALYSIS AND DESIGN	3	JIT21303	INTERNET OF THINGS	3	
		JIT21003	OBJECT-ORIENTED PROGRAMMING	3	JIT21403	APPLICATION DEVELOPMENT	3	
2		JIT21103	DATABASE	3	JIT21503	INFORMATION TECHNOLOGY MANAGEMENT PROJECT	3	
	OPTIONAL COURSE (Entrepreneurship UMK)	AFT3093/ APT3083	STRATEGIC ENTREPRENEURSHIP/ CORPORATE ENTREPRENEURSHIP	3	APT2053/ AFT2023	MANAGEMENT & NEW ENTERPRISE DEVELOPMENT/ INNOVATION MANAGEMENT IN ENTREPRENEURSHIP	3	
	TOTAL CREDIT			17			15	

ELECTIVE (ARTIFICIAL INTELLIGENCE STREAM)

			SEMESTER 5			SEMESTER 6		
YEAR	COMPONENT	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT	
		JIE31703	DIGITAL ENTREPRENEURSHIP I	3	JIE32003	DIGITAL ENTREPRENEURSHIP II	3	
	SPECIALIZATION COURSE	JIE31804	PRACTICES IN ARTIFICIAL INTELLIGENCE I	4	JIE32104	CAPSTONE II	4	
		JIE32703	COMPUTATIONAL INTELLIGENCE	3	JIE33_04	ELECTIVE II	4	
2		JIE33_04	ELECTIVE I	4	JIE32803	MACHINE LEARNING	3	
		JIE32602	CAPSTONE I	2				
	OPTIONAL COURSE	UB_2_2	FOREIGN LANGUAGE I	2	UB_2_2	FOREIGN LANGUAGE II	2	
	FINAL YEAR PROJECT				JIT32302	FINAL YEAR PROJECT I	2	
	TOTAL CREDIT			18			18	

\/=	V545		SEMESTER 7			SEMESTER 8		
YEAR	COMPONENT	CODE	COURSE	CREDIT	CODE	COURSE	CREDIT	
	SPECIALIZATION	JIE42903	EVOLUTIONARY COMPUTING	3				
	COURSE	JIE43_03	ELECTIVE III	3				
4	OPTIONAL COURSE(Entrepreneurship UMK)	JFT4082	STUDENT PROGRAMS IN ENTERPRISE	2				
	FINAL YEAR PROJECT	JIT42504	FINAL YEAR PROJECT II	4				
	INDUSTRIAL TRAINING				JIT42612	INDUSTRIAL TRAINING	12	
	TOTAL CREDIT			12			12	

OPTIONAL ELECTIVES **

	SEMESTER 5 & 6						
COMPONENT	CODE	COURSE	CREDIT				
	JIE33004	PRACTICES IN ARTIFICIAL INTELLIGENCE II	4				
	JIE31904	PRACTICES IN BIG DATA I	4				
	JIE33104	PRACTICES IN BIG DATA II	4				
SPECIALIZATION COURSE	SEMESTER 7						
	JIE43303	NATURAL LANGUAGE PROCESSING	3				
	JIE43403	IMAGE PROCESSING AND COMPUTER VISION	3				
	JIE31803	INTRODUCTION TO DATA SCIENCE	3				

OVERALL TOTAL CREDIT	126	Credit hours distribution per semester (12-19 credit
HOURS	120	hours)> 20 credit hours, requires Dean's approval