

## COURSE OUTLINE PROGRAMME CDCS251 - BACHELOR OF COMPUTER SCIENCE (HONS.) NETCENTRIC COMPUTING

MAT406 CSC404 CSC520 CSC574 HBU121 ICT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 ITT450	PROGRAMMING I INTRODUCTION TO INTERACTIVE MULTIMEDIA COMPUTER ORGANIZATION AND ARCHITECTURE PHILOSOPHY AND CURRENT ISSUES NATIONAL KESATRIA I INTRODUCTION TO DATA COMMUNICATION AND NETWORKING FOUNDATION MATHEMATICS PROGRAMMING II PRINCIPLES OF OPERATING SYSTEMS DYNAMIC WEB APPLICATION DEVELOPMENT NATIONAL KESATRIA II DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 3.0 3.0 2.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	01 01 01 01 01 01 01 02 02 02 02 02 02 02 03 03	Elective
CSC429 CTU552 HBU111 HTT400 MAT406 CSC404 CSC520 CSC574 HBU121 HCT450 MAT421 STA416 CSC435 CSC435 CSC510 CTU554 HBU131 HTT450 HTT501	COMPUTER ORGANIZATION AND ARCHITECTURE PHILOSOPHY AND CURRENT ISSUES NATIONAL KESATRIA I INTRODUCTION TO DATA COMMUNICATION AND NETWORKING FOUNDATION MATHEMATICS PROGRAMMING II PRINCIPLES OF OPERATING SYSTEMS DYNAMIC WEB APPLICATION DEVELOPMENT NATIONAL KESATRIA II DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 2.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	01 01 01 01 01 02 02 02 02 02 02 02 03 03	
ETU552 HBU111 HTT400 MAT406 CSC404 CSC520 CSC574 HBU121 HCT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 HTT450 HTT501	PHILOSOPHY AND CURRENT ISSUES  NATIONAL KESATRIA I INTRODUCTION TO DATA COMMUNICATION AND NETWORKING FOUNDATION MATHEMATICS PROGRAMMING II PRINCIPLES OF OPERATING SYSTEMS DYNAMIC WEB APPLICATION DEVELOPMENT NATIONAL KESATRIA II DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	2.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	01 01 01 02 02 02 02 02 02 02 03 03	
MAT406 CSC404 CSC520 CSC574 HBU121 ICT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 ITT450	NATIONAL KESATRIA I INTRODUCTION TO DATA COMMUNICATION AND NETWORKING FOUNDATION MATHEMATICS PROGRAMMING II PRINCIPLES OF OPERATING SYSTEMS DYNAMIC WEB APPLICATION DEVELOPMENT NATIONAL KESATRIA II DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	01 01 02 02 02 02 02 02 02 02 03 03	
MAT406 CSC404 CSC520 CSC574 HBU121 ICT450 MAT421 STA416 CSC435 CSC435 CSC510 CTU554 HBU131 ITT450	INTRODUCTION TO DATA COMMUNICATION AND NETWORKING FOUNDATION MATHEMATICS PROGRAMMING II PRINCIPLES OF OPERATING SYSTEMS DYNAMIC WEB APPLICATION DEVELOPMENT NATIONAL KESATRIA II DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	01 01 02 02 02 02 02 02 02 02 03 03	
MAT406 CSC404 CSC520 CSC574 HBU121 ICT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 ITT450	NETWORKING FOUNDATION MATHEMATICS PROGRAMMING II PRINCIPLES OF OPERATING SYSTEMS DYNAMIC WEB APPLICATION DEVELOPMENT NATIONAL KESATRIA II DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 2.0	01 02 02 02 02 02 02 02 02 03 03	Elective
CSC404 CSC520 CSC574 HBU121 ICT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 ITT450	PROGRAMMING II  PRINCIPLES OF OPERATING SYSTEMS  DYNAMIC WEB APPLICATION DEVELOPMENT  NATIONAL KESATRIA II  DATABASE DESIGN AND DEVELOPMENT  CALCULUS I  APPLIED PROBABILITY AND STATISTICS  OBJECT-ORIENTED PROGRAMMING  DISCRETE STRUCTURES  VALUES AND CIVILIZATION II  NATIONAL KESATRIA III  INFORMATION AND NETWORK SECURITY	3.0 3.0 3.0 1.0 3.0 3.0 3.0 3.0 2.0	02 02 02 02 02 02 02 02 03 03	Elective
CSC520 CSC574 HBU121 ICT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 ITT450	PRINCIPLES OF OPERATING SYSTEMS DYNAMIC WEB APPLICATION DEVELOPMENT NATIONAL KESATRIA II DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 2.0	02 02 02 02 02 02 02 03 03	Elective
CSC574  HBU121 ICT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 ITT450	DYNAMIC WEB APPLICATION DEVELOPMENT NATIONAL KESATRIA II  DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 1.0 3.0 3.0 3.0 3.0 3.0 2.0	02 02 02 02 02 03 03 03	Elective
HBU121 ICT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 ITT450 ITT501	NATIONAL KESATRIA II  DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	1.0 3.0 3.0 3.0 3.0 3.0 2.0	02 02 02 02 03 03	Elective
ICT450 MAT421 STA416 CSC435 CSC510 CTU554 HBU131 HTT450	DATABASE DESIGN AND DEVELOPMENT CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 3.0 3.0 3.0 3.0 2.0	02 02 02 03 03 03	Elective
MAT421 STA416 CSC435 CSC510 CTU554 HBU131 HTT450	CALCULUS I APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 3.0 3.0 3.0 2.0	02 02 03 03 03	
STA416 CSC435 CSC510 CTU554 HBU131 ITT450 ITT501	APPLIED PROBABILITY AND STATISTICS OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 3.0 3.0 2.0 1.0	02 03 03 03	
CSC435 CSC510 CTU554 HBU131 ITT450	OBJECT-ORIENTED PROGRAMMING DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 3.0 2.0 1.0	03 03 03	
CSC510 CTU554 HBU131 ITT450 ITT501	DISCRETE STRUCTURES VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	3.0 2.0 1.0	03	
CTU554 HBU131 ITT450 ITT501	VALUES AND CIVILIZATION II NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	2.0 1.0	03	
HBU131 ITT450 ITT501	NATIONAL KESATRIA III INFORMATION AND NETWORK SECURITY	1.0	_	
ITT450 ITT501	INFORMATION AND NETWORK SECURITY			
ITT501		2.0	03	Elective
ITT501		3.0	03	-
	NETCENTRIC FUNDAMENTALS	3.0	03	
ITT531	PRINCIPLES OF NETWORKING	3.0	03	
FAC401	INTRODUCTORY ARABIC (LEVEL I)	2.0	03	Elective
ELC501	ENGLISH FOR CRITICAL ACADEMIC READING	2.0	04	
ISP542	FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE	3.0	04	
ITT545	WEB ENGINEERING	3.0	04	
ITT557	WEB APPLICATION SECURITY	3.0	04	Elective
ITT569	INTERNET OF THINGS (IOT)	3.0	04	Electiv
ITT588	FRONT-END TECHNOLOGY	3.0	04	
FAC451	INTRODUCTORY ARABIC (LEVEL II)	2.0	_	Elective
CSP600	PROJECT FORMULATION	3.0	05	Diceire
	ENGLISH FOR PROFESSIONAL INTERACTION	2.0	05	$\vdash$
ICT602	MOBILE TECHNOLOGY AND DEVELOPMENT	3.0	05	
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		715.30	-	-
		-		Elective
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ICT652	ETHICAL, SOCIAL, AND PROFESSIONAL ISSUES IN	3.0	06	
TT420		3.0	06	
			_	$\vdash$
11002		-		$\vdash$
	TT550 TT626 TT661 AC501 SP650 ET699 NT600	TT550 NETWORK DESIGN AND MANAGEMENT TT626 BACK-END TECHNOLOGY  TT661 EMERGENT TECHNOLOGY  AC501 INTRODUCTORY ARABIC (LEVEL III)  SP650 PROJECT  ET699 ENGLISH EXIT TEST  NT600 TECHNOLOGY ENTREPRENEURSHIP  CT652 ETHICAL, SOCIAL, AND PROFESSIONAL ISSUES IN ICT  TT420 NETWORK AND SYSTEM ADMINISTRATION TT632 MOBILE CLOUD COMPUTING ST688 COMPUTING SCIENCE INDUSTRIAL TRAINING	TT550         NETWORK DESIGN AND MANAGEMENT         3.0           TT626         BACK-END TECHNOLOGY         3.0           TT661         EMERGENT TECHNOLOGY         3.0           AC501         INTRODUCTORY ARABIC (LEVEL III)         2.0           SP650         PROJECT         6.0           ET699         ENGLISH EXIT TEST         0.0           NT600         TECHNOLOGY ENTREPRENEURSHIP         3.0           CT652         ETHICAL, SOCIAL, AND PROFESSIONAL ISSUES IN ICT         3.0           TT420         NETWORK AND SYSTEM ADMINISTRATION         3.0           TT632         MOBILE CLOUD COMPUTING         3.0           ST688         COMPUTING SCIENCE INDUSTRIAL TRAINING         7.0	TT550         NETWORK DESIGN AND MANAGEMENT         3.0         05           TT626         BACK-END TECHNOLOGY         3.0         05           TT661         EMERGENT TECHNOLOGY         3.0         05           AC501         INTRODUCTORY ARABIC (LEVEL III)         2.0         05           SP650         PROJECT         6.0         06           ET699         ENGLISH EXIT TEST         0.0         06           NT600         TECHNOLOGY ENTREPRENEURSHIP         3.0         06           CT652         ETHICAL, SOCIAL, AND PROFESSIONAL ISSUES IN ICT         3.0         06           TT420         NETWORK AND SYSTEM ADMINISTRATION         3.0         06           TT632         MOBILE CLOUD COMPUTING         3.0         06