

CURRICULUM OF BACHELOR OF SCIENCE IN INFORMATION SYSTEMS (BSIS)

===== YU-CCIS - Version 1 =====



STUDY PLAN BY SEMESTER (Information Systems)

FIRST YEAR (Freshmen) (37 Credit Hours)

Course Code	Course Title	Pre-Req	L T	L B	C R	Course Code	Course Title	Pre-Req	LT	LB	CR
CIS 103	Programming Fund 1	CMP 002	3	2	4	CIS 104	Programming Fundamentals II	CIS 103	3	2	4
ENG 101	English Essay Writing		3	0	3	IS 102	Introduction to Information Systems		3	0	3
PHY 201	Intro to Physical Science		3	0	3	STT 103	Probability an Statistics	MTH 001	3	0	3
MGT 101	Intro to Management		3	0	3	MGT 102	Organization Behavior	MGT 101	3	0	3
MTH 104	Calculus 1	MTH 001	3	0	3	MTH 105	Discrete Mathematics	MTH 001	4	0	4
ISL 101	Foundation of Islamic Culture		3	0	2	ARB 102	Communication Skills in Arabic		3	0	2
TOTAL CREDIT HOURS			17	2	18	TOTAL CREDIT HOURS			18	2	19

SECOND YEAR (Sophomore) (34 Credit Hours)

Course Code	Course Title	Pre-Req	L T	L B	C R	Course Code	Course Title	Pre-Req	LT	LB	CR
CIS 201	Fundamental of Web Design	CIS 103	3	0	3	IS 211	Systems Analysis & Design	IS 102	3	0	3
CIS 202	Data Structures	CIS 104	3	0	3	NES 212	Data Comm and Computer Networks		3	0	3
ENG 201	Technical Report Writing	ENG 101	3	0	3	IS 321	Advance Database Systems	IS 221	3	0	3
IS 221	Introduction to Database Systems	CIS 104	3	0	3	MKT 102	Introduction to Marketing		3	0	3
ECO 201	Principles of Microeconomics		3	0	3	ACC 201	Financial Accounting	MGT 101	3	0	3
ISL 201	Foundation of Islamic Economy	ISL 101	2	0	2	ARB 202	Writing Skills in Arabic	ARB 102	2	0	2
TOTAL CREDIT HOURS			17	0	17	TOTAL CREDIT HOURS			17	0	17

THIRD YEAR (Junior) (31 Credit Hours)

Course Code	Course Title	Pre-Req	L T	L B	C R	Course Code	Course Title	Pre-Req	LT	LB	CR
IS 382	Information Assurance	IS 102	3	0	3	CIS 321	Operating Systems	CIS 103	3	0	3
CIS 381	Computer Ethics	IS 102	2	0	2	CIS 386	Project Management	IS 102	3	0	3
CIS 305	Internet Business	IS 102	3	0	3	IS 322	Mathematical Modelling of IS	MTH 104	3	0	3
IS 333	Enterprise Internet Systems	IS 102	3	0	3	IS 384	Information Security	IS 102	3	0	3
IS 334	Decision Support Systems	IS 102	3	0	3		IS Elective 1		3	0	3
ISL 301	Work Ethics in Islam	ISL 201	2	0	2						
TOTAL CREDIT HOURS			16	0	16	TOTAL CREDIT HOURS			15	0	15

Summer Session (3 Credit Hours)

Course Code	Course Title	Pre-Req	LT	LB	CR
CIS 493	Cooperative Assignment	90 Credit Hours	3		3
TOTAL CREDIT HOURS			3		3

FOURTH YEAR (Senior) 30 Credit Hours

Course Code	Course Title	Pre-Req	L T	L B	C R	Course Code	Course Title	Pre-Req	LT	LB	CR
CIS 491	Graduation Project 1	90 CH	3	0	3	CIS 492	Graduation Project 2	CIS 491	3	0	3
	MINOR 1		3	0	3		MINOR III		3	0	3
	MINOR II		3	0	3		IS ELECTIVE IV		3	0	3
	IS ELECTIVE II		3	0	3		FREE ELECTIVE I		3	0	3
	IS ELECTIVE III		3	0	3		FREE ELECTIVE II		3	0	3
TOTAL CREDIT HOURS			15	0	15	TOTAL CREDIT HOURS			15	0	15

GRAND TOTAL 135 CREDIT HOURS

STUDY PLAN BY SEMESTER (Information Systems)

IS Minors

E-Business Minor					
Course Code	Course Title	Pre-Requisite	LT	LB	CR
IS 303	E-Commerce Programming	CIS 201	3	0	3
IS 352	Web Server Operation	NES 212	3	0	3
IS 431	Business Application Development	IS 211	3	0	3
TOTAL CREDIT HOURS					

Big Data Minor					
Course Code	Course Title	Pre-Requisite	LT	LB	CR
IS 432	Big-Data Analytics	IS 221	3	0	3
IS 433	Data Visualization	IS 221	3	0	3
IS 434	Data Science	IS 221	3	0	3
TOTAL CREDIT HOURS					

Information Security Minor					
Course Code	Course Title	Pre-Requisite	LT	LB	CR
IS 481	Ethical Hacking & Intrusion Detection	IS 384	3	0	3
NES 483	Forensics & Incident Response	IS 384	3	0	3
IS 483	Cyber Security	IS 384	3	0	3
TOTAL CREDIT HOURS					

IS Electives

CCIS Elective (Pool of Courses)					
Course Code	Course Title	Pre-Requisite	LT	LR	CR
IS 332	Data Mining	IS 321	3	0	3
MTH201	Operation Research	STT103	3	0	3
IS 351	Client-Server Programming	CIS 104	3	0	3
IS 353	Secure E-commerce	CIS 305	3	0	3
IS 451	Intranet and Portals	CIS 201	3	0	3
IS 435	Systems Modelling and Simulation	IS 211	3	0	3
IS 436	Knowledge-Based Systems	IS 333	3	0	3
IS 437	Selected Topics in Information Systems	IS 333	3	0	3
IS 438	Artificial Intelligence and Expert Systems	IS 333	3	0	3
SWE401	Software Quality Assurance		3	0	3
IS 484	IT Audit and Control	IS 384	3	0	3
IS 439	Big Data Applications	IS 321	3	0	3
SWE 422	Principles of Video and Animation		3	0	3
MGT 305	Quality Management	MGT 101	3	0	3
IS 335	Data Warehousing	IS 321	3	0	3
MKT 312	Marketing Research	MKT 102	3	0	3