

## Advanced Diploma Year

### Database Specialization Plan (Sep07 Intake Onward)

Total (Without OJT) = 36 Hours

Semester I			
Course	Description	Type	Pre-Requisite
ENGL3100	Public Speaking	CR	None
MATH2200	Discrete Structure	DR	MATH1200 - Calculus I
ITDB3208	SQL: Concepts And Syntax	MR	ITDB1102 - Introduction To Database
	Major Elective	ME	
ITSE3101	Data Structure And Algorithm	MR	ITSE2100 - Object Oriented Programming(Java)

Semester II			
Course	Description	Type	Pre-Requisite
PHIL3201	Formal Arabic Communication	CR	None
ITDB3101	Database Application Development	MR	ITDB2101 - System Analysis And Design
	Major Elective	ME	
ITDB3204	Course Project	MR	ITPJ2202 - Diploma Course project ITDB3208 - SQL Concept And Syntax
	College Elective	CE	

Summer			
Course	Description	Type	Pre-Requisite
	Major Elective	ME	
ITDB3108	Data Modeling	MR	ITSE2102 - Introduction To Software Engineering

Student will take **3 Major Elective** from the following list:

Course	Description	Pre-Requisite
ITSE3211	Mobile Computing	ITSE2100 - Object Oriented Programming(Java) ITSE1203 - Introduction To Web Technology
ITSE4206	Unix System Programming	ITSE1101 - Introduction To Programming ITSE1202 – Introduction To Operating Systems
ITDB3111	Project Management	None
ITDB3112	Web Database Connectivity Using JSP	ITDB1102 - Introduction To Database ITSE2100 - Object Oriented Programming(Java)
ITSE3200	Object Oriented Analysis And Design	ITSE2100 - Object Oriented Programming(Java) ITSE3101 – Data Structure And Algorithms

Student will take **1 College Elective** from the following list:

Course	Description	Pre-Requisite
BAEC1203	Principles of Microeconomics	None
ITBS3100	Research Methodology in IT	None

**Note:** CR = College Requirement, MR = Major Requirement, DR = Department Requirement.

CE = College Elective, ME = Major Elective, DE = Department Elective

## Advanced Diploma Year

### Software Engineering Specialization Plan (Sep07 Intake Onward) Total credit hours without OJT= 36

Semester I			
Course	Description	Type	Pre-Requisite
ENGL3100	Public Speaking	CR	None
ITSE3101	Data Structure And Algorithms	MR	ITSE2100 - Object Oriented Programming(Java)
MATH2200	Discrete Structure	DR	MATH1200 - Calculus I
	Major Elective	ME	
PHIL3201	Formal Arabic Communication	CR	None

Semester II			
Course	Description	Type	Pre-Requisite
ITSE3102	Introduction To Artificial Intelligence	MR	ITSE3101 - Data Structure And Algorithms
ITSE3200	Object Oriented Analysis And Design	MR	ITSE2100 - Object Oriented Programming(Java) ITSE3101 - Data Structure And Algorithms
ITSE3204	Course Project	MR	ITPJ2202 - Diploma Course project ITSE2102 - Introduction To Software Engineering ITSE2100 - Object Oriented Programming(Java)
	Major Elective	ME	
	College Elective	CE	

Summer			
Course	Description	Type	Pre-Requisite
ITSE3203	Advanced Operating System	MR	ITSE1202 – Introduction To Operating Systems
	Major Elective	ME	

Student will take **3 Major Elective** from the following list:

Course	Description	Pre-Requisite
ITSE3112	Computer Graphics	ITSE2100 - Object Oriented Programming(Java)
ITSE3211	Mobile Computing	ITSE2100 - Object Oriented Programming(Java) ITSE1203 - Introduction To Web Technology
ITDB3111	Project Management	None
ITDB3208	SQL: Concepts and Syntax	ITDB1102 – Introduction to Database
ITDB3101	Database Application Development	ITDB2101 - System Analysis And Design

Student will take **1 College Elective** from the following list:

Course	Description	Pre-Requisite
BAEC1203	Principles of Microeconomics	None
ITBS3100	Research Methodology in IT	None

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## Advanced Diploma Year

### Network Specialization Plan (Sep07 Intake Onward)

**Total credit hours without OJT = 36**

Semester I			
Course	Description	Type	Pre-Requisite
PHIL3100	Public Speaking	CR	None
MATH2200	Discrete Structure	DR	MATH1200 - Calculus I
ITNT3103	Networking II- Design And Routing Protocols	MR	ITNT1204 – Introduction to Networking
	Major Elective	ME	
ITNT3102	Logic Design	MR	None

Semester II			
Course	Description	Type	Pre-Requisite
ITNT3203	Networking III-LAN	MR	ITNT3103 - Networking II- Design And Routing Protocols
	College Elective	CE	
ITNT3111	Client Server Computing	MR	ITSE2100 - Object Oriented Programming(Java)
ITNT3202	Computer System Design And Architecture	MR	ITNT3102 - Logic Design ITNT1103 - Computer Hardware
ITNT3204	Course Project	MR	ITPJ2202 - Diploma Course project ITNT3103 - Networking II- Design And Routing Protocols

Summer			
Course	Description	Type	Pre-Requisite
	Major Elective	ME	
PHIL3201	Formal Arabic Communication	CR	None

Student will take 2 **Major Electives** from the following list:

Course	Description	Pre-Requisite
ITIS3101	Fundamentals of Computer Security	None
ITNT3112	Networking Security And Auditing	ITIS3101 - Fundamentals of Computer Security ITNT1204 - Introduction to Networking

Student will take 1 **College Elective** from the following list:

Course	Description	Pre-Requisite
BAEC1203	Principles of Microeconomics	None
ITBS3100	Research Methodology in IT	None

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CE = College Elective, ME = Major Elective, DE = Department Elective

## Advanced Diploma Year

### Internet and E-Security Specialization Course Plan (Sep 07 Intake Onward) Total credit hours without OJT = 36

Semester I			
Course	Description	Type	Pre-Requisite
PHIL3100	Public Speaking	CR	None
MATH2200	Discrete Structure	DR	MATH1200 - Calculus I
ITNT3111	Client Server Computing	MR	ITSE2100 - Object Oriented Programming(Java)
ITIS3101	Fundamentals of Computer Security	MR	None
ITIS3102	Introduction to Cryptography And Security Risk Management	MR	ITNT1204 - Introduction to Networking

Semester II			
Course	Description	Type	Pre-Requisite
PHIL3201	Formal Arabic Communication	CR	None
ITIS3201	Firewall And Internet Security	MR	ITNT2201 - Principles Of Data Telecommunications ITSE1203 - Introduction To Web Technology
ITNT3103	Networking II- Design And Routing Protocols	MR	ITNT1204 – Introduction to Networking
	College Elective	CE	
ITIS3204	Course Project	MR	ITP2202 - Diploma Course project

Summer			
Course	Description	Type	Pre-Requisite
ITIS3202	Database Security	MR	ITDB1102 – Introduction to Database
ITNT3112	Networking Security and Auditing	MR	ITIS3101 - Fundamentals of Computer Security ITNT1204 - Introduction to Networking

Student will take 1 **College Elective** from the following list:

Course	Description	Pre-Requisite
BAEC1203	Principles of Microeconomics	None
ITBS3100	Research Methodology in IT	None

**Note:** CR = College Requirement, MR = Major Requirement, DR = Department Requirement.  
CE = College Elective, ME = Major Elective, DE = Department Elective