
Baccalaureate Year
Database Specialization Plan (Sep07 Intake Onward)

Semester I			
Course	Description	Type	Pre-Requisite
PHIL4101	Oman Civilization	CR	None
ITDB4102	Oracle Fundamental	MR	ITDB1102 - Introduction To Database ITDB3208 - SQL Concept And Syntax
ITDB4101	Web Database Connectivity using ASP.NET	MR	ITSE1203 - Introduction To Web Technology ITDB1204 - Applied Database
	Major Elective	ME	
ITSE4111	Database Management and Security	MR	ITDB1102 - Introduction To Database

Semester II			
Course	Description	Type	Pre-Requisite
ITDB4200	Advance Database Techniques	MR	ITDB4102 - Oracle Fundamental
ITDB4108	Essential of XML	MR	ITBS2203 - E-Commerce for IT
ITDB4103	Data Warehouse Design	MR	ITDB3108 - Data Modeling
ITDB4201	Database Administration	MR	ITDB3208 - SQL Concept And Syntax
ITDB4204	Course Project	MR	ITDB3204 – Course Project Adv Diploma

Summer			
Course	Description	Type	Pre-Requisite
ITDB4311	Distributed Database Systems	MR	ITDB1102 - Introduction To Database
	College Elective	CE	

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

Course	Description	Pre-Requisite
ITDB4109	Web Application and Database Security	None
ITDB4115	SQL Server	ITDB3208 - SQL Concept And Syntax
ITDB4302	Data Mining	ITDB3208 - SQL Concept And Syntax

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

Course	Description	Pre-Requisite
ITBS4000	Human Computer Interaction	None
ENGL4100	Business Communication Skills	None

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

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

Baccalaureate Year

Software Engineering Specialization Plan (Sep07 Intake Onward)

Semester I			
Course	Description	Type	Pre-Requisite
PHIL4101	Oman Civilization	CR	None
ITSE4100	Formal Languages And Automata Theory	MR	ITSE3101 - Data Structure And Algorithms MATH2200 - Discrete Structure
ITSE4201	Machine And Assembly Language	MR	ITSE1101 – Introduction to Programming ITSE3101 - Data Structure And Algorithms
ITSE4202	Graphical User Interfaces	MR	ITSE2100 – Object Oriented Programming(Java)
ITDB4101	Web Database Connectivity using ASP.NET	MR	ITSE1203 - Introduction To Web Technology ITDB1204 – Applied Database

Semester II			
Course	Description	Type	Pre-Requisite
ITSE4204	Course Project	MR	ITSE3204 – Course Project Adv Diploma
ITSE4101	Software Design Methods	MR	ITSE2102 - Introduction To Software Engineering ITSE3200 - Object Oriented Analysis & Design
	Major Elective	ME	
ITDB4108	Essentials of XML	MR	ITBS2203 - E-Commerce for IT
ITSE4102	Compiler Theory	MR	ITSE4201 - Machine And Assembly Language ITSE4100 - Formal Languages And Automata Theory

Summer			
Course	Description	Type	Pre-Requisite
ITSE4115	Software Measurement & Testing	MR	ITSE2102 - Introduction To Software Engineering
	College Elective	CE	

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

Course	Description	Pre-Requisite
ITSE4111	Database Management & Security	ITDB1102 - Introduction To Database
ITDB4102	Oracle Fundamental	ITDB1102 - Introduction To Database ITDB3208 - SQL Concept And Syntax
ITSE4206	Unix System Programming	ITSE1101 - Introduction to Programming ITSE1202 – Introduction to Operating System
ITDB4109	Web Application and Database Security	None

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

Course	Description	Pre-Requisite
ITBS4000	Human Computer Interaction	None
ENGL4100	Business Communication Skills	None

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Baccalaureate Year

Network Specialization Plan (Sep07 Intake Onward)

Semester I			
Course	Description	Type	Pre-Requisite
ITNT4102	Ad-Hoc Wireless Mobile Networking	MR	ITNT3103 - Networking II Design and Routing Protocols ITNT3102 - Logic Design
ITNT4202	Networking IV-WAN Administration	MR	ITNT3203 - Networking III LAN Design and Protocols
ITNT3105	General High Speed Networks	MR	ITNT3103 - Networking II Design and Routing Protocols
ITNT4206	Linux System Administration - I	MR	ITSE1202 – Introduction to Operating System
	Major Elective	ME	

Semester II			
Course	Description	Type	Pre-Requisite
	College Elective	CE	
ITNT4204	Course Project	MR	ITNT3204 – Course Project Adv Diploma
PHIL4100	Oman Civilization	CR	None
	Major Elective	ME	
	Major Elective	ME	

Summer			
Course	Description	Type	Pre-Requisite
ITNT4205	TCP/IP Programming	MR	ITNT3103 - Networking II Design and Routing Protocols ITSE2100 - Object Oriented Programming(Java)
	Major Elective	ME	

Student will take 4 **Major Electives** from the following list:

Course	Description	Pre-Requisite
ITNT4111	Disaster recovery and risk management	ITNT3103 - Networking II Design and Routing Protocols
ITDB3111	Project Management	None
ITIS3102	Introduction to Cryptography and Security Risk Management	ITNT1204 – Introduction to Networking
ITSE3211	Mobile Computing	ITSE2100 - Object Oriented Programming(Java) ITSE1203 - Introduction To Web Technology
ITIS3201	Firewalls and Internet Security	ITNT2201 - Principles Of Data Telecommunications ITSE1203 - Introduction To Web Technology
ITSE4301	Techniques in Security Applications Development	ITSE2100 - Object Oriented Programming(Java) ITSE1101 – Introduction to Programming
ITSE3112	Computer Graphics	ITSE2100 - Object Oriented Programming(Java)
ITNT4103	Microprocessors	ITNT3202 - Computer System Design And Architecture ITSE1101 - Introduction to Programming

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

Course	Description	Pre-Requisite
ITBS4000	Human Computer Interaction	None
ENGL4100	Business Communication Skills	None

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Baccalaureate Year

Internet and E-Security Specialization Course Plan (Sep 07 Intake Onward)

Semester I			
Course	Description	Type	Pre-Requisite
	Major Elective	ME	-
ITIS4201	Information Security And Auditing	MR	ITNT1204 - Introduction to Networking ITIS3101 - Fundamentals Of Computer Security
ITDB4109	Web Application And Database Security	MR	None
ITIS4101	Network Security Management	MR	ITIS3102 - Introduction To Cryptography And Security Risk Management ITNT3103 - Networking II Design and Routing Protocols
ITNT4206	Linux System Administration - I	MR	ITSE1202 – Introduction to Operating System

Semester II			
Course	Description	Type	Pre-Requisite
PHIL4101	Oman Civilization	CR	None
	College Elective	CE	
ITIS4204	Course Project	MR	ITIS3204 – Course Project Adv Diploma
ITIS4202	Secure Electronic Commerce And Other Applications	MR	ITBS2203 - E-Commerce for IT
	Major Elective	ME	

Summer			
Course	Description	Type	Pre-Requisite
ITIS4203	Portal Management	MR	ITIS4101 - Network Security Management
	Major Elective	ME	

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

Course	Description	Pre-Requisite
ITNT4111	Disaster Recovery and Risk Management	ITNT3103 - Networking II Design and Routing Protocols
ITDB3111	Project Management	None
ITNT4205	TCP/IP Programming	ITNT3103 - Networking II Design and Routing Protocols ITSE2100 - Object Oriented Programming(Java)
ITSE3211	Mobile Computing	ITSE2100 - Object Oriented Programming(Java) ITSE1203 - Introduction To Web Technology
ITSE4115	Software Measurement And Testing	ITSE2102 – Introduction To Software Engineering
ITSE4301	Techniques in Security Applications Development	ITSE2100 - Object Oriented Programming(Java) ITSE1101 – Introduction to Programming
ITSE3112	Computer Graphics	ITSE2100 - Object Oriented Programming(Java)

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

Course	Description	Pre-Requisite
ITBS4000	Human Computer Interaction	None
ENGL4100	Business Communication Skills	None

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