

Computer Science Study Plan v4

Bachelor

Major	Computer Science / Bachelor			Plan Semester	20142		
College	Oman College of Management & Technology			Department	Computer Science & MIS		
Plan Hrs.	132			Plan Type	Major		
Min Semester	4 Semesters	Training	Not Found	Edition	4	Study Type	Morning
Max Semester	14 Semesters	Training		Thesis Type	Nothing		

Category Group College Requirement Compulsory Hrs. 24
Hrs. 21

Course Code	Course Title	Hrs.	Prerequisite Courses	Hrs.
102106	Entrepreneurship: Creativity and Innovation	3		
103202	Scientific Research Methods	3		
701101	English Language I	3		
701102	English Language II	3	701101	3
701103	English Language II	3	701102	3
701105	Arabic Language	3		
701108	Arabic Islamic Civilization	3		

Group Elective Hrs. 3

Course Code	Course Title	Hrs	Prerequisite Courses	Hrs.
701107	History of Oman	3		
701109	Islamic Culture	3		
701110	Environment & Society	3		
701112	Omani Society	3		
701113	Media Culture	3		
701114	Islamic Economics	3		
701117	Introduction to Psychology	3		
701118	Introduction to Library Science	3		
701120	Physical Education	3		
701122	Human Rights Issues	3		

Category Group Department Requirement Compulsory Hrs. 24
Hrs. 24

Course Code	Course Title	Hrs	Prerequisite Courses	Hrs.
502101	Calculus I	3		
502103	Discrete Mathematics	3		
502105	Programming in a Selected Language	3		
502202	Data Structures	3	502105	3
502301	Object Oriented Programming	3	502105	3
502302	Database Management Systems	3	502301	3
503401	Operating Systems	3	502105	3

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503407	Multimedia Systems	3	
Category	Supporting Requirement	Hrs. 78	
Group	Compulsory	Hrs. 72	

Course Code	Course Title	Hrs.	Prerequisite Courses	Hrs.
502102	Calculus II	3	502101	3
502104	Probability	3		
502203	Algorithms Analysis & Design	3	502202	3
503200	Programming in Java Language	3	502105	3
503201	Assembly Language Programming	3		
503202	Computation Theory	3	502103	3
503203	Applications Software Packages	3		
503205	System Programming	3	502105	3
503207	Information Technology	3		
503209	File Structures	3	502202	3
503210	Digital Logic Design	3		
503301	System Analysis and Design	3	502302	3
503302	Building Systems Using 4GL	3	502302	3
503303	Prolog Language Programming	3	502105 & 502103	6
503304	Artificial Intelligence	3	503303	3
503305	Computer Graphics	3	502202	3
503402	Compilers Design	3	503202	3
503403	Computer Architecture	3	503210	3
503404	Data Communications & Networks	3	503207	3
503405	Software Engineering	3	502301	3
503409	Graduation Project	3		
503416	Internet Programming	3		
503417	Data Security	3	502101	3
503418	Object-Oriented Analysis and Design	3	502301	3

Category	Supporting Requirement	Hrs. 78
Group	Elective	Hrs. 6

Course Code	Course Title	Hrs	Prerequisite Courses	Hrs.
502201	Microprocessors and Microcomputers	3	503210	3
503204	Operation Research	3	502202	3
503206	Human Computer Interaction	3		
503208	Simulation Techniques	3	502105	3
503307	Functional Programming	3	502202	3
503308	Programming Languages Techniques and Meth	3	502202	3
503406	Information Retriever Systems	3	502202	3
503408	Expert Systems	3	503304	3
503410	Parallel Processing & Programming	3	503205	3
503415	Natural Language Processing	3	502105	3
503419	Advanced Special Topics in Computer Science	3		

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Category Free Courses Hrs. 6
Group Free Hrs. Hrs. 6

Course Code	Course Title	Hrs.	Prerequisite Courses	Hrs.
		3		
		3		