

## Program Structure:

### BSc in Cloud Computing and Internet of Things:

نوع المقرر Course type			التنقل الأكاديمي بالساعات المعمدة/ النقاط/ الوحدات	الساعات التدريسية	عنوان المقرر	الفصل الدراسي	السنة الدراسية
المتطلب السابق	متطلب جامعة/كلية/قسم	اختياري / إجباري					
Prerequisite	University/ college/ department requirement	Compulsory/op tional	Course load in (Credits/ points/ units)	Teaching hours	Course title	Semester	Year
Nil	University	Compulsory	3	3hrs Theory	University English I	1	1
University English I	University	Compulsory	3	3hrs Theory	University English II	2	1
Nil	Program	Compulsory	4	3hrs Theory, 2hr Tutorial	Introduction to Computer systems	1	1
Nil	College	Compulsory	3	2hrs Theory, 2hr Lab	Computer Programming	1	1
Mathematic from Foundation Program	Program	Compulsory	4	3hrs Theory, 1hr Tutorial 1hr Lab	Computational Mathematics	1	1
Nil	Program	Compulsory	2	1 hr Theory, 2hr Lab	Introduction to Cloud Computing	2	1
Nil	University	Compulsory	2	2 hrs Theory	Ethics in Workplace	2	1
Nil	College	Compulsory	4	3 hrs Theory, 2hr Lab	Introduction to Operating Systems & Computer Networks	2	1
Nil	Program	Compulsory	2	1 hr Theory, 2hrs Lab	Introduction to Circuit & Electronics	1	1
Nil	College	Compulsory	3	2 hr Theory, 2 hr Lab	Database Management Systems	2	1
Nil	University	Compulsory	3	3hrs Thoery	Oman History and Islamic Culture	3	2
Introduction to Circuit & Electronics	Program	Compulsory	3	1 hrs Theory, 4hr Lab	Introduction to IoT	3	2

Computer Programming	College	Compulsory	4	3 hrs Theory, 2hrs Lab	Object Oriented Programming	3	2
Nil	College	Compulsory	3	3 hrs Theory	Distributed Computing	3	2
Computational Mathematics	College	Compulsory	4	2 hrs Theory, 1 hr Tutorial, 1hr Lab	Probability and Statistics	4	2
	College	Compulsory	4	3 hrs Theory, 2hrs Lab	Introduction to Cyber Security & Computer Forensics	4	2
Introduction to Computer Programming / Computer Programming	College	Compulsory	4	3 hrs Theory, 2hr Lab	Data Structures and Algorithms	4	2
Nil	University	Compulsory	4	3 hrs Theory, 2hr Tutrial	Entrepreneurship and Innovation	4	2
Introduction to Internet of Things	Program	Compulsory	3	2 hr Theory, 2 hr Lab	IoT Protocols and Standard	3	2
Computer Programming & Introduction to IoT	College	Compulsory	3	1 hrs Theory/seminar, 4 hr Lab	Project I	4	2
Introduction to Circuit & Electronics	Program	Compulsory	4	3 hrs Theory, 2hr Lab	Digital Electronics	5	3
Nil	College	Compulsory	4	2 hrs Theory, 4 hr Lab	Website Design & Development	6	3
Introduction to Cloud Computing	Program	Compulsory	4	3 hrs Theory, 2hr Lab	Data Centre Infrastructure & Services	5	3
Introduction to lot & IoT Protocols and standard	Program	Compulsory	4	3 hrs Theory, 2hr Lab	Microcontroller for IoT	5	3
Introduction to Cloud Computing	Program	Compulsory	4	3 hrs Theory, 2hr Lab	Cloud Computing & Virtualization	5	3
Nil	College	Compulsory	4	3 hrs Theory, 2hr Lab	Machine Learning and Data Science	6	3
Pass in 101/60 Credits	University		2	2 hrs Theory	Industrial Internship	6	3
Computer Programming	Program	Compulsory	4	2 hrs Theory, 4hrs Lab	IoT Microprocessor	6	3
Nil	Program	Compulsory	4	3 hrs Theory, 2hr Lab	Information Storage & Management	7	4
Introduction to Internet of Things	Program	Compulsory	4	3 hrs Thoery, 2hr Lab	IoT System Administration & Security	7	4

Introduction to cloud Computing & Introduction to IoT	Program	Elective	4	3 hrs Theory, 2hr Lab	IoT & Cloud Computing	7	4
Nil	Program	Elective	4	3 hrs Theory, 2hr Lab	Wireless Sensor Networks	7	4
Nil	Program	Elective	4	3 hrs Theory, 2hr Lab	Business Intelligence	7	4
Object Oriented Programming	College	Compulsory	4	1Hr Theory/seminar	Capstone Project I	7	4
Introduction to Cloud Computing	College	Compulsory	4	3 hrs Theory, 2hr Lab	Edge and Fog Computing	8	4
Nil	Program	Compulsory	4	3 hrs Theory, 2hr Lab	Security in Cloud Computing	8	4
Nil	College	Elective	4	2 hrs Theory, 4hrs Lab	Data Visualization	8	4
Nil	College	Elective	4	3 hrs Thoery, 2hrs Lab	Visualization Technologies	8	4
Capstone Project I	College	Compulsory	4	1Hr Theory/Seminar	Capstone Project II	8	4