Republic of Yemen
Ministry of higher Education & Scientific Research
University of Modern Sciences
Faculty of Engineering & Information Technology
Computer Networks Engineering Department

الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة العلوم الحديثة
كلية الهندسة وتكنولوجيا المعلومات
قسم هندسة شبكات الحاسوب

Level 1

No	Code	Course (Term 1)	Credit	No	Code	Course (Term 2)	Credit
1		Islamic Culture	2	1		Engineering Drawing	3
2		Arabic Language	2	2		Introduction to Programming	3
3		English Language (1)	3	3		English Language (2)	3
4		Introduction to Computer	3	4		Discrete Mathematics	3
5		Calculus	3	5		Linear Algebra	3
6		Statistics and Probabilities	3	6		Electronics Physics	3
7		General Physics	3	7		Electrical Circuits	3

Level 2

No	Code	Course (Term 1)	Credit	No	Code	Course (Term 2)	Credit
1		Database (1)	3	1		Database (2)	3
2		Differential Equations	3	2		Operating systems	3
3		Data Structures and Algorithm	3	3		Computer Architecture and Organization	3
4		Data Communication	3	4		Computer Networks	3
5		Digital Design	3	5		Object Oriented Programming	3
6		Web Technology	3	6		Instruments and Measurements	3

Level 3

No	Code	Course (Term 1)	Credit	No	Code	Course (Term 2)	Credit
1		Visual Programming	3	1		Research Methodologies	3
2		TCP/ IP Suits	3	2		Switching and Routing	3
3		Software Engineering	3	3		Wireless Communication Networks	3
4		Information Security	3	4		Network Security	3
5		Digital Signal Processing	3	5		Performance Modeling and Simulation for Computer Networks	3
6		Web Development and Design	3	6		Networks Operating System	3

Level 4

No	Code	Course (Term 1)	Credit	No	Code	Course (Term 2)	Credit
1		Distributed Systems	3	1		Storage Technology and Data Centers	3
2		Network Administration and Maintenance	3	2		Computer Ethics	3
3		High Speed Networks and WAN	3	3		Elective (3)	3
4		Elective (1)	3	4		Elective (4)	3
5		Elective (2)	3	5		Graduation Project (2)	4
6		Graduation Project (1)	2				

Elective Courses

1. Fiber Optic	2. Digital Forensics	3. Mobile Computing
4. Voice over IP	5. Firewall and Intrusion Detection	6. Visualization
7. Cloud Computing	8. Servers and Technology	9. Real Time Systems
10. Multimedia Networks		

عميد كلية الهندسة وتكنولوجيا المعلومات
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