

  
**AMOU UNIVERSITY**  
**“A Vehicle for Peace and Development”**  
**AMOU UNIVERSITY**



**FACULTY OF COMPUTING AND ICT**

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY PROGRAMME**

**ACADEMIC YEAR 2015/ 2016**

**COURSE DESCRIPTION**

<b>BIT 423</b>	<b>NETWORK SECURITRY</b>	
Contact Hours	52	
Pre-requisite(s)	<b>BIT 326 Local Area Networks</b>	
Purpose/Aim	<ul style="list-style-type: none"> <li>The course focuses on some principles topics that give you more concepts about network attack or threats and network security with standard and industry protocols those we use for security in real life.</li> </ul>	
Course Objective (Indicative Learning Outcomes)	<ul style="list-style-type: none"> <li>The learner should be able to examine the basic components of a network security.</li> <li>The student is guided and taught basic hands on security skills and given full understanding of network threats.</li> </ul>	
Course Content	<ul style="list-style-type: none"> <li>Basics of network security threats and attacks</li> <li>Perimeter router security</li> <li>AAA - Authentication Authorization Accounting</li> <li>Access control list ACL                             <ul style="list-style-type: none"> <li>Types of ACL</li> <li>Standard ACL</li> <li>Extended ACL</li> </ul> </li> <li>Network address translation NAT</li> <li>IOS basic firewall</li> <li>Encryption and decryption</li> </ul>	
Learning & Teaching Methodologies	Lectures, tutorials and manual configuration and practice and this book is base on practical	
Instructional Materials/Equipment	i.e. theory , lab with manual configuration real life or using simulations like Cisco packet tracker	
Course Assessment	<b>Type</b>	<b>Weighting (%)</b>



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	Examination(End Term/Final)	50	
	Continuous Assessment(Mid Term)	25	
	Continuous Assessment(Take-Away or Sit-In Assignment)	10	
	Quizzes and attendance	15	
	Total	100	
Recommended Reading	<b>Title</b>	<b>Author</b>	<b>Publisher</b>
	Network security		2011
Additional Reading	Basic network security		
	Cryptography		
Other Support Material	A variety of multimedia systems and electronic information resources as prescribed by the lecturer. Various application manuals, URL search and journals.		