

Course Title	Networks and Information Security				
Course Code	CIS205				
Course Type	Compulsory				
Level	Bachelor (1 st cycle)				
Year / Semester	2 nd year / 4 th semester				
Teacher's Name	TBA				
ECTS	6	Lectures / week	3 hours / 14 weeks	Laboratories / week	None
Course Purpose and Objectives	To provide students with an introduction of data communications and networking in the context of a business environment. To make students aware of and familiar with networking technologies currently being used in the world for local and wide area connectivity and internet-working. To prepare an information system professional to deal with telecommunications and networks in an organizational situation.				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Describe and categorize computer networks, models and standards • State and identify transmission concepts and media approaches. • Explain and describe layering, addressing and routing • Define and discuss network technologies for wired and wireless networks. • Describe network management concepts and classify security risks, prevention and detection technologies. • Design and analyze business network needs considering business and communication aspects. 				
Prerequisites	CSE200	Co-requisites	None		
Course Content	<p>Introduction to communication and business information. Data communications and networking; distributed processing the internet and distributed applications. Business information: audio, data, image, video.</p> <p>Internet and distributed applications: the Internet and how it works, TCP/IP, client/server networking; internet based applications; internet operation;</p> <p>Local Area Networks: architecture and infrastructure; topologies, components, Ethernet, switches, VPNs, Wireless LANs. Wide Area Networks: technologies, services and wireless WANs.</p> <p>Networks and information security: threats and their types, attacks, malware, counter measures and techniques, cryptography, security software, security policies. Network management, planning and design</p>				

Teaching Methodology	Face-to-face						
Bibliography	<p>Stallings W. and Case T. (2013) Business Data Communications – Infrastructure, Networking and Security, Pearson.</p> <p>Easttom W. (2016) Computer Security Fundamentals, Pearson</p> <p>Stallings W. (2014) Network security essentials: applications and standards, Pearson</p>						
Assessment	<table border="1"> <tr> <td>Examinations</td> <td>80%</td> </tr> <tr> <td>Assignments</td> <td>10%</td> </tr> <tr> <td>Class Participation and attendance</td> <td>10%</td> </tr> </table>	Examinations	80%	Assignments	10%	Class Participation and attendance	10%
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Language	English						