

AMITY GLOBAL INSTITUTE
MODULE SYLLABUS

Course	Diploma in Computing
Module Title	Data and Computer Communications
Start Date	September 2018
End Date	September 2019
Syllabus / Content / Learning Outcomes	<p>On successful completion of the module students will be able to:</p> <p>Knowledge and Understanding</p> <ol style="list-style-type: none"> a. Demonstrate an elementary understanding of primary networking concepts b. Demonstrate an elementary appreciation of the use of main network structures <p>Subject specific skills</p> <p>On successful completion of the module students will have demonstrated their ability to:</p> <ol style="list-style-type: none"> a. Demonstrate an elementary understanding of protocols, network organization and addressing b. Demonstrate an elementary understanding of flow control, end-to-end error handling c. Demonstrate an elementary understanding of OSI and Internet network models <p>Key Skills</p> <p>On successful completion of the module students will have had the opportunity to:</p> <ol style="list-style-type: none"> a. Be capable of managing own learning, making appropriate use of available resources b. Manage time reasonably, make reasonable attendance, attempt timely submission of assignment
No. of Teaching Hours	<p>Teacher Managed Learning</p> <p>Eg : Lectures : 48 Hrs</p> <p>Student Managed Learning</p> <p>Eg : Tutorials, Seminars etc : 152 Hrs</p> <p>TOTAL = 200</p>
Teaching Methods	Lectures, tutorials, case-studies analysis, research journals and group discussion
Assessment Methods and Weightages	<p>Written Assessment 1 (1500 Words) – 50%</p> <p>Written Assessment 2 (1500 Words) – 50%</p>
Skills for Maximising Learning Outcomes	Reading and Research
Dates of Examination and Submission of Assignment	<p>Examination Period (not all modules have end-of-semester / year examinations)</p> <p>Indicative:</p> <p>January 2019</p> <p>September 2019</p>
Recommended Text & Reference	<ul style="list-style-type: none"> • William Stallings - "Data and Computer Communications", Prentice Hall • Behrouz A Forouzan – "Data Communications and Networking", McGrawHill

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Lesson No.	Learning Outcome
1.	Data Communication and Protocols in Networks
2.	OSI Model and Layers in OSI Model
3.	Signal Conversions in Physical Layer
4.	Media in Physical Layer
5.	Data Link Layer and LAN
6.	Delivery and Routing in Network Layer
7.	Wired and Wireless Transmission in Transport Layer
8.	Domain Naming and Client-Server Model in Application Layer