

No	Information of NPM, IT-61052	
1	Unit name:	Network Planning and Management
2	Code:	IT-61052
3	Classification:	Engineering subject
4	Credit value:	3
5	Semester/ Year Offered:	1/VI
6	Pre-requisite:	NA
7	Mode of delivery:	Presentation, Assignment, Practical
8	Assessment system and breakdown of marks: Practical Assignment Groupwork Presentation	Assignment, Groupwork Presentation, Practical, Examination 20 % 10 % 10 %
	Examination	60%
9	Academic staff teaching unit:	Department of Information Technology Engineering
10	<p>Course outcome of unit:</p> <p>After completion of this course, students will be able to</p> <ol style="list-style-type: none"> <li>1. To apply methodology used in Network Planning and Management</li> <li>2. To classify network analysis, including the systems approach, definitions and concepts</li> <li>3. To compare network architecture, developing internal and external relations within and between major functions (addressing and routing , security, network management, and performance in the network</li> <li>4. To design decisions, including how to evaluate and select vendors, vendor products and service providers and diagramming the design</li> </ol>	
11	<p>Synopsis of unit:</p> <p>Network Planning and Management is designed to be applied in network</p>	

	<p>engineering, architecture, and design as well as for professional study for IT engineers and management. It is structured to follow the logical progression of analyzing, developing and validating requirements, which form the basis for making network design decisions. This provides student with step-by-step procedures for doing network analysis, architecture and design. This have refined this process through years of architecting and designing large-scale networks for government agencies, universities, and corporations, and have incorporated the ideas and experiences of expert designers.</p>
12	<p>Topic:</p> <p>Chapter 1</p> <ul style="list-style-type: none"> <li>• Introduction</li> </ul> <p>Chapter 5</p> <ul style="list-style-type: none"> <li>• Network Architecture</li> </ul> <p>Chapter 6</p> <ul style="list-style-type: none"> <li>• Addressing and Routing Architecture</li> </ul> <p>Chapter 7</p> <ul style="list-style-type: none"> <li>• Network Management Architecture</li> </ul> <p>Chapter 8</p> <ul style="list-style-type: none"> <li>• Performance Architecture</li> </ul> <p>Chapter 9</p> <ul style="list-style-type: none"> <li>• Security and Privacy Architecture</li> </ul> <p>Chapter 10</p> <ul style="list-style-type: none"> <li>• Network Design</li> </ul>
13	<p>Main references: Network Analysis, Architecture and Design (Third Edition)  Author: James D. McCabe</p>
14	<p>Additional references: Data Communications and Networking (FIFTH EDITION)  Author: Behrouz A. Forouzan</p>