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| <b>Module Title:</b>               | <b>Networking 1 – Semester 3</b>  |
| <b>Academic year:</b>              | 2009 – 2010   |
| <b>Credit Value:</b>               | 5 – Mandatory   |
| <b>Pre- requisites:</b>            | Computer Architecture   |
| <b>Assessment:</b>                 | 50% Final Examination, 50% Practical Examination  |
| <b>Aims</b>                        | This module provides the student with a knowledge of Ethernet technologies, TCP/IP, Network media, IP addressing and Routing, along with practical skills to design, implement and test Local Area Networks.  |
| <b>Module Content</b>              | <ul style="list-style-type: none"> <li>• Introduction to Computer Networks</li> <li>• Physical Media &amp; Transmission</li> <li>• Local area Networks</li> <li>• Network &amp; Transport Layers</li> <li>• Higher Network Layers</li> </ul>  |
| <b>Intended Learning Outcomes:</b> | <p><b>Having successfully completed this subject, the student will be able to :</b></p> <ol style="list-style-type: none"> <li>1. Describe physical networks, LAN topologies (star, bus, ring) and hardware devices.</li> <li>2. Explain LAN access methods such as Ethernet, Token Ring and FDDI.</li> <li>3. Describe the network and transport layers of IP and TCP.</li> <li>4. Define the applications of network systems</li> <li>5. Describe Networks in terms of layers.</li> <li>6. Develop or configure a real or virtual data communication system.</li> </ol> |