**BIT 3204 Enterprise Network Management (4 CU) Description**

The course is to equip students with knowledge of managing enterprise computer/data networks. This caters for enterprise critical aspects like reliability, security and user management. To provide a solid basis on the theoretical and practical understand of data communication

**Aims**

* The aims of the course are to equip students with skills to plan, manage and monitor large computer networks.

**Teaching and Learning Pattern** : Teaching will be in terms of lectures and Tutorials

**Indicative Content**

• The infrastructure for network management.

• The Internet and ISO models. SNMP, ASN.1.

• Structure of management information and MIB.

• Events and managed objects. EMS vs. NMS . NOC,

• Remote and Web-based management tool.

• OAM&P Focus:

• Operation, maintenance, performance monitoring.

• Introduction of traffic engineering and load balancing.

**Assessment method:** Assessment will be in form of coursework and tests (40%) and final examination

(60%)

**Reading lists**

(i) Effective management of local area networks by Kornel Terplan, McGeaw-Hill, 1992