**BIT 1102 Communications Technology & Internet (3 CU)**

(a) **Course Description:**This course is intended to be atthe introductory level in a curriculum and to provide foundation skills for subsequentnetwork-related courses, for example, Internet Programming. It provides an overview of Communications Technology and Internet. The goal is to help students understand the role and meaning of Communications Technology and Internet in the contemporary world.

(b) **Aims:** The course aims to:

• Give students main guidelines for the future study of networks-related courses

• Develop their knowledge and understanding of

- core networking concepts and technologies;

- Internet and intranet tools;

- basics of networking protocols;

- basics of network security;

- core Internet infrastructure;

- personal, business, social, legal and ethical implications of Internet governance

(c) **Learning Outcomes:**On completion of this course unit, the students will be able to:

• Seize main guidelines for the future study of networks-related courses

• Knowand understand:-

-Corenetworking conceptsand technologies;

-Internet and intranet tools;

-Basics of networking protocols;

-Basics of network security;

- CoreInternetinfrastructure;

-Personal, business, social,legal and ethical implications ofInternet governance

(d) **TeachingandLearningpattern:**Sincethiscourseissupposedtohaveonlylecture hours,itwillformmostlythetheoreticalknowledge.Toprovidestudentswithpractical skills, they will be given individual andgroup assignments to be done as aform of extracurricular activity.

(e) **Indicative content:**

• Networking Concepts

• Internet and Intranet Tools

• Protocols

• Security

• InternetInfrastructureandGovernance–Personal,Business,Social,LegalandEthical

Implications

(f) **Assessmentmethod:**Theassessmentwillbeinformoftestsandassignments(40%- Test I: 15%, Test II: 15%, Assignment: 10%) and final written exam (60%)

**(g)Reference Books:**

(i) The Internet Book by Comer,D.E.,PrenticeHall Inc., UpperSaddle River, 2000

(ii) InternetFutureStrategies:HowPervasiveComputingServicesWillChangetheWorldby

Amor, D.,Prentice Hall Inc., UpperSaddle River, 2002

(iii)Mastering the Internet and HTMLby Zeid, I., Prentice Hall Inc., UpperSaddle River,2000 (iv)Internet Getting Started,EditionsENI,Nantes, 2001

(v)CommunicationTechnologyUpdateandFundamentals,byGrant,A.E., Meadows,J.H., Focal Press, 2008

(vi)TheNewCommunicationsTechnologies,FifthEdition:Applications,Policy,andImpactby

Mirabito, M., Morgenstern, B.,Focal Press, 2004

(vii)Communication Technology and Social Change: Theory and Implications (Lea's

Communication Series by Mirabito, M., Morgenstern, B.,Lawrence Erlbaum, 2006