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**Meru University of Science and Technology**

**School of Computing and Informatics**

**Department of Computer Science**

**Course code:** **CIT 3103** **Course Title**: Fundamentals To Internet

**Year of study:** First **Semester**: First **Academic year:** 2023

**Pre-requisite** None

**Contact Hours** 45

**Course Purpose**

The purpose of the course is to introduce the student to Internet and how to use it for education purpose and prepare him for internet advanced courses

**Expected Learning Outcomes:**

By the end of the course the student should be able to:

1. Demonstrate the use of a variety of internet search tools and email
2. Learn how to use internet for educational purposes
3. Learn how to protect themselves from internet hoaxes and viruses
4. Demonstrate ability to design web pages

**Course Content:**

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| **WEEK** | **MAIN** | **TOPIC SUB-TOPIC** |
| 1 | **Students Semester Registrations** | |
| 2 | **Introduction to Internet** | Opportunities provided by using internet, threats and Risks on the internet, History of the internet, Services provided by the internet, Requirements (h/ware & s/ware) for connecting to the internet and Internet tools |
| 3 | **Structure of the internet** | Important components of the web, Domain name system, Internet network hierarchy, Common Internet protocols, Internet network configurations |
| 4 | **E-Mail Basics** | Creating email accounts, composing, sending and receiving emails, features in Email like contact book, CC, BCC, Subject, Attachments, Benefits of using emails, Security threats to emails, safeguarding emails |
| 5 | **G-Suite** | G-Suite overview, G-Suite communication tools, G-Suite Apps |
| 6 | **CAT 1** |  |
| 7 | **Internet services** | E-Learning, E-Commerce, E-Business, E-Government, E-Procurement |
| 8 | **Internet Network Architecture** | Definitions, Types of Internet network architecture, OSI Network model, |
| 9 | **Internet Security** | Malware, Cybercrimes, Attacks, Threats, Exploits, Vulnerabilities, Risks, Cyber security, security mechanisms and security services |
| 10 | **CAT 2** |  |
| 11 | **Introduction to HTML** | Basic HTML concepts and tags, creating web pages and websites |
| 12 | **Intermediate HTML** | Lists, Tables, Basic formatting tags, Hyperlinks, Images |
| 13 | **Advanced HTML** | Forms, Frames, HTML 5. |
| 14 & 15 | **Examination** |  |

**Mode of Delivery:**

* Lectures
* Tutorials
* Independent study
* Group discussions
* Lab practical sessions

**Course Assessment**

Type Weighting (%)

Examination 70

Continuous Assessment 30

Total 100

**Core Reading Material**

1. Computer Networks and Internets with Internet Applications (Third Edition) Douglas E. Come Prentice Hall, 2001 ISBN: 0-13-091449-5
2. HTML for the World Wide Web with XHTML and CSS: Visual QuickStart Guide, Fifth Edition [Elizabeth Castro](http://www.amazon.com/exec/obidos/search-handle-url/index=books&field-author=Castro%2C%20Elizabeth/104-8516718-8535125) , Peachpit Press ISBN: 0321130073
3. Preston Gralla and Michael Troller., How the Internet Works (November 21, 2006), Que, Print ISBN-10: 0-7897-3626-8, Print ISBN-13: 978-0-7897-3626-0
4. Perry J. et al, The Internet – Illustrated Introductory, Course SCIENCE (3rd Ed), ISBN: 0619109580

**Recommended Reading Material**

1. Castro, E. Perl and CGI for the World Wide Web. Visual QuickStart Guide; Peachpit Press, 1999
2. Sarukkai, RR: Foundation of Wed SCIENCE; Kluwer Academic Publishers, August 2002.

**NAME OF LECTURER(S): SIGN: DATE:**

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