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**SCHEMES OF WORK**

COLLEGE: LAIKIPIA EAST TVC MODULE: DICT Mod III SUBJECT: DATA COMMUNICATION AND NETWORKS

DATE: 24/12/2024 TERM: TERM 1 CLASS: DICT /S/22 TRAINER’S NAME: DUNCAN NDEGWA

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| **TERM 1** | | | | | | |
| **Week** | **Topic/Lesson Title** | **Objectives** | **Key Points** | **Activities** | **Reference & Aids** | **Remarks/**  **Date Taught** |
|  | **REPORTING AND REGISTRATION** | | | | | |
|  | Introduction to computer networks | By the end of the lesson the leaner should be able to:   * Explain types of networks * Explain networks topologies | * Types of computer networks * Roles of computer networks * Network topologies * Categories of computer networks | Taking notes  Class discussion  Questions and answers | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | Network Media | By the end of the lesson the leaner should be able to:   * Explain types of transmission media * Explain Advantages and disadvantages of different media and application | * Types of transmission media * Types of wireless media | Taking notes  Class discussion  Questions and answers  Practical session | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | Data communication | By the end of the lesson the leaner should be able to:   * Explain Principles of data communication * Explain encoding techniques * Explain network models | * Principles of data communication * Encoding techniques * Network models | Taking notes  Class discussion  Questions and answers | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | Ethernet Technology | By the end of the lesson the leaner should be able to:  Explain ethernet technology   * Explain different ethernet standards | * Meaning of ethernet technology * different ethernet standards | Taking notes  Class discussion  Questions and answers | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | Network troubleshooting | By the end of the lesson the leaner should be able to:   * Explain the importance of network troubleshooting * Describe different methods of network troubleshooting | * Importance of network troubleshooting   Methods of network troubleshooting | Taking notes  Practical session  Class discussion  Questions and answers | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | Network security | By the end of the lesson the leaner should be able to:   * Describe network security * Explain security techniques * Explain how to deal with security threats | * network security * security techniques | Taking notes  Class discussion  Questions and answers | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | **CAT ONE** | | | | | |
|  | Network Design | By the end of the lesson the leaner should be able to:   * Explain the meaning of network design * Describe computer development life cycle * Explain hardware and selection criteria | * meaning of network design * computer development life cycle * hardware and selection criteria | Taking notes  Practical session  Class discussion  Questions and answers | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | TCP/IP Protocols | By the end of the lesson the leaner should be able to:   * Explain meaning of TCP/IP concepts * Describe types of data flow | * meaning of TCP/IP concepts   types of data flow | Taking notes  Class discussion  Questions and answers | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | Communication software | By the end of the lesson the leaner should be able to:   * Explain the different types of communication software   Describe the types of network software | * types of communication software   types of network software | Taking notes  Class discussion  Questions and answers | * E-books * Forouzan, B. A. (2007). *Data communications and networking*. Huga Media. |  |
|  | **REVISION & EXAMINATIONS** | | | | |  |

Trainers Sign…………………. HOD’s Name....................………...Sign and stamp…………… Date………….