**COMPUTER SCHEMES OF WORK FORM 4 TERM 2**

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **T/L ACTIVITIES** | **T/L AIDS** | **REFERENCE** | **REMARKS** |
| **1** | Opening and Revision | | | | | | | |
| **2** | 1 | Impact of information and communication technology (ICT) on society | Application of artificial intelligence Application of artificial intelligence-natural language processing | By the end of the lesson, the learner should be able to: Explain the application of artificial intelligence in expert systems Explain the application of artificial intelligence in natural language processing | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 74 |  |
| 2 | Impact of information and communication technology (ICT) on society | Application of artificial intelligence-artificial neutral networks | By the end of the lesson, the learner should be able to:  Explain the application of artificial intelligence in artificial neutral networks | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 75 |  |
| 3 | Impact of information and communication technology (ICT) on society Career opportunities in information and communication technology | Application of artificial intelligence- Robotics Introduction | By the end of the lesson, the learner should be able to: Explain the application of artificial intelligence in robotics Discuss the importance of ICT | Explaining Demonstration Discussions Explaining | Newspaper Letters Books Internet Handouts Newspaper | Longhorn Computer Studies by S.Mburu and C.Chemwa page 75-76 |  |
| **3** | 1 | Career opportunities in information and communication technology | Computer operator | By the end of the lesson, the learner should be able to:  Explain the responsibilities of computer operator | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 78 |  |
| 2 | Career opportunities in information and communication technology | Computer technician System analyst | By the end of the lesson, the learner should be able to: Explain the responsibilities of computer technician Explain the responsibilities of system analyst | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 78 |  |
| 3 | Career opportunities in information and communication technology | Computer programmer | By the end of the lesson, the learner should be able to: | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 79-80 |  |
| **4** | 1 | Career opportunities in information and communication technology | Software engineer Computer engineer | By the end of the lesson, the learner should be able to: Explain the responsibilities of software engineer Explain the responsibilities of computer engineer | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 80 |  |
| 2 | Career opportunities in information and communication technology | Information system manager Database administrator | By the end of the lesson, the learner should be able to: Explain the responsibilities of information system manager Explain the responsibilities of database administrator | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 80-81 |  |
| 3 | Career opportunities in information and communication technology | Computer trainer | By the end of the lesson, the learner should be able to:  Explain the responsibilities of computer trainer | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 81 |  |
| **5** | 1 | Career opportunities in information and communication technology | Web administrator/webmaster Computer graphics designers and typesetters | By the end of the lesson, the learner should be able to: Explain the responsibilities of webmaster Explain the responsibilities of computer graphics designers and typesetters | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page |  |
| 2 | Career opportunities in information and communication technology | Network administrator | By the end of the lesson, the learner should be able to:  Explain the responsibilities of network administrator | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 82 |  |
| 3 | Career opportunities in information and communication technology | Computer sales representatives Self-employment | By the end of the lesson, the learner should be able to: Explain the responsibilities of computer representatives Discuss how self-employment can be achieved using ICT | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 82 |  |
| **6** | 1 | Career opportunities in information and communication technology | Further educational opportunities in ICT-Universities | By the end of the lesson, the learner should be able to:  Discuss the ICT courses that are offered at public universities | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 83 |  |
| 2 | Career opportunities in information and communication technology | Further educational opportunities in ICT-private universities Further educational opportunities in ICT- Research institutions | By the end of the lesson, the learner should be able to: Discuss the ICT courses that are offered at private universities Discuss the ICT courses that are offered at research institutions | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 83-84 |  |
| 3 | Career opportunities in information and communication technology | Further educational opportunities in ICT- Polytechnics | By the end of the lesson, the learner should be able to:  Discuss the ICT courses that are offered at | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 84 |  |
| **7** | 1 | Career opportunities in information and communication technology Developing a project using Microsoft access data base | Further educational opportunities in ICT- colleges Introduction | By the end of the lesson, the learner should be able to: Discuss the ICT courses that are offered at colleges Define preamble | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 84 |  |
| 2 | Developing a project using Microsoft access data base | Identification and definition of the problem | By the end of the lesson, the learner should be able to:  Explain how to develop a computer-based transaction processing system | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 87-88 |  |
| 3 | Developing a project using Microsoft access data base | Project charter Fact finding | By the end of the lesson, the learner should be able to: Discuss the preliminary investigation Explain how to develop the information system | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 89-91 |  |
| **8** | Mid Term Exams and Break | | | | | | | |
| **9** | 1 | Developing a project using Microsoft access data base | Fact finding-questionnaires | By the end of the lesson, the learner should be able to:  Explain how to use questionnaires to obtain facts | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 93 |  |
| 2 | Developing a project using Microsoft access data base | Fact finding summary and recommendation report System design phase | By the end of the lesson, the learner should be able to: Write report on the findings Explain the system design phase using preliminary design | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 93-94 |  |
| 3 | Developing a project using Microsoft access data base | Detailed design-output design | By the end of the lesson, the learner should be able to:  Explain the system design phase using output design | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 96-98 |  |
| **10** | 1 | Developing a project using Microsoft access data base | Input design -inventory and products entry form Customer entry Input design-invoice processing entry form, pay voucher processing entry form | By the end of the lesson, the learner should be able to: Explain the system design phase using input design | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 98-99 |  |
| 2 | Developing a project using Microsoft access data base | Input design-Suppliers entry form and transporter entry form Files and data stores design | By the end of the lesson, the learner should be able to: Explain the system design phase using input design Explain the system design phase using files and data stores design | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 100 |  |
| 3 | Developing a project using Microsoft access data base | Files and data stores design | By the end of the lesson, the learner should be able to:  Explain the system design phase using files and data stores design | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 101-103 |  |
| **11** | 1 | Developing a project using Microsoft access data base | Hardware and software requirements Constructing information system | By the end of the lesson, the learner should be able to: Discuss the hardware and software requirements Discuss how to construct information system | Explaining Demonstration Discussions Explaining | Newspaper Letters Books Internet Handouts Newspaper | Longhorn Computer Studies by S.Mburu and C.Chemwa page 103-104 |  |
| 2 | Developing a project using Microsoft access data base | Constructing information system | By the end of the lesson, the learner should be able to:  Discuss how to construct information system | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 106-107 |  |
| 3 | Developing a project using Microsoft access data base | Constructing data entry Primary forms, advanced forms, Creating the primary forms Constructing data entry Customers forms Inventories forms | By the end of the lesson, the learner should be able to: Explain how to construct the data entry | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 108 |  |
| **12** | 1 | Developing a project using Microsoft access data base | Constructing data entry Products form Suppliers form | By the end of the lesson, the learner should be able to:  Explain how to construct the data entry | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 111-112 |  |
| 2 | Developing a project using Microsoft access data base | Creating advanced forms Forms for data entry and manipulation Customers invoice data entry form Creating advanced forms Suppliers voucher details entry form | By the end of the lesson, the learner should be able to: Explain how to create advanced forms | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 112-115 |  |
| 3 | Developing a project using Microsoft access data base | User-interface forms | By the end of the lesson, the learner should be able to:  Define user-interface forms Explain how to construct user-interface forms | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 117-120 |  |
| **13-14** | End Term Exams and closing | | | | | | | |