**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 intelligenceApplication 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 systemsExplain the application of artificial intelligence in natural language processing | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 75 |  |
| 3 | Impact of information and communication technology (ICT) on societyCareer opportunities in information and communication technology | Application of artificial intelligence- RoboticsIntroduction | By the end of the lesson, the learner should be able to:Explain the application of artificial intelligence in roboticsDiscuss the importance of ICT | ExplainingDemonstrationDiscussionsExplaining | NewspaperLettersBooksInternetHandoutsNewspaper | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 78 |  |
| 2 | Career opportunities in information and communication technology | Computer technicianSystem analyst | By the end of the lesson, the learner should be able to:Explain the responsibilities of computer technicianExplain the responsibilities of system analyst | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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: | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 79-80 |  |
| **4** | 1 | Career opportunities in information and communication technology | Software engineerComputer engineer | By the end of the lesson, the learner should be able to:Explain the responsibilities of software engineerExplain the responsibilities of computer engineer | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 80 |  |
| 2 | Career opportunities in information and communication technology | Information system managerDatabase administrator | By the end of the lesson, the learner should be able to:Explain the responsibilities of information system managerExplain the responsibilities of database administrator | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 81 |  |
| **5** | 1 | Career opportunities in information and communication technology | Web administrator/webmasterComputer graphics designers and typesetters | By the end of the lesson, the learner should be able to:Explain the responsibilities of webmasterExplain the responsibilities of computer graphics designers and typesetters | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 82 |  |
| 3 | Career opportunities in information and communication technology | Computer sales representativesSelf-employment | By the end of the lesson, the learner should be able to:Explain the responsibilities of computer representativesDiscuss how self-employment can be achieved using ICT | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 universitiesFurther 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 universitiesDiscuss the ICT courses that are offered at research institutions | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 84 |  |
| **7** | 1 | Career opportunities in information and communication technologyDeveloping a project using Microsoft access data base | Further educational opportunities in ICT- collegesIntroduction | By the end of the lesson, the learner should be able to:Discuss the ICT courses that are offered at collegesDefine preamble | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 87-88 |  |
| 3 | Developing a project using Microsoft access data base | Project charterFact finding | By the end of the lesson, the learner should be able to:Discuss the preliminary investigationExplain how to develop the information system | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 reportSystem design phase | By the end of the lesson, the learner should be able to:Write report on the findingsExplain the system design phase using preliminary design | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 entryInput 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 formFiles and data stores design | By the end of the lesson, the learner should be able to:Explain the system design phase using input designExplain the system design phase using files and data stores design | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 requirementsConstructing information system | By the end of the lesson, the learner should be able to:Discuss the hardware and software requirementsDiscuss how to construct information system | ExplainingDemonstrationDiscussionsExplaining | NewspaperLettersBooksInternetHandoutsNewspaper | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 formsConstructing 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 formCreating 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 | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | 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 formsExplain how to construct user-interface forms | ExplainingDemonstrationDiscussions | NewspaperLettersBooksInternetHandouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 117-120 |  |
| **13-14** | End Term Exams and closing |