

**SPECIFY TYPE OF  
EXAMINATION**

**FIRST ATTEMPT**   
**FIRST RESIT**   
**SECOND RESIT**   
**RE-TAKE**



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF**  
**INFORMATION COMMUNICATION AND TECHNOLOGY**  
**3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER 2022/2023 ACADEMIC YEAR**  
**MAIN CAMPUS**

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**COURSE CODE: ITB 1311**

**COURSE TITLE: INDEPENDENT ICT CAPSTONE RESEARCH**

**DATE: 18<sup>TH</sup> DECEMBER, 2022**

**TIME: 9.00-11.00 NOON**

**TIME: 2 HOURS**

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**Instructions:**

- 1. This paper contains FIVE questions**
- 2. Question one is compulsory**
- 3. Answer any other two questions**



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**Question 1 (30 marks)**

- a) Assume that you have already developed a preliminary draft of your project statement using plain language. State any FOUR important considerations to address so as to refine the statement. (4 marks)
- b) List any FIVE ways of providing testimonial evidence or a sample of your work for project evaluation. (5 marks)
- c) When defining the topic for the capstone project, there are FIVE questions you can ask yourself to guide your thinking. Briefly highlight these questions. (5 marks)
- d) Differentiate between a capstone project report and a research thesis. (2 marks)
- e) The project planning phase of the capstone project, in addition to carrying out the preliminary investigation, developing preliminary timelines, performing risk analysis, and developing the contingency plan, there are THREE other important but often overlooked considerations. Highlight these considerations. (3 marks)
- f) List the any FIVE characteristics of research in general. (5 marks)
- g) Briefly highlight any SIX possible stakeholders to consider for your capstone project. (6 marks)

**Question 2 (20 marks)**

- a) Define the following:
  - i) Project statement (2 marks)
  - ii) Contingency plan (2 marks)
  - iii) Concept map (2 marks)
- b) Briefly enumerate any FOUR considerations when writing the capstone project document. (4 marks)
- c) Research types fall into THREE categories based on the viewpoint, that is, application, objectives and enquiry mode. Discuss the different research methods under each of these viewpoints. (10 marks)

**Question 3 (20 marks)**

- a) After approval of the capstone project proposal it is now time to begin working on the project. Discuss FIVE basic kick-off activities that you should perform. (5 marks)
- b) Enumerate any FIVE areas in your project that are important to keep track of. (5 marks)
- c) Discuss any FIVE project proposal elements (10 marks)

**Question 4 (20 marks)**

- a) Discuss the TWO main areas of concern when carrying one is carrying out a feasibility study. (4 marks)



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- b) Whatever you decide to do in producing your capstone project there are a number of areas to consider. These are broken down into the criteria, processes and written elements.
- i) In terms of criteria, success in producing the capstone project depends on five considerations of one's ability. Briefly discuss these FIVE considerations. (5 marks)
  - ii) In terms of processes, producing the capstone project encompasses a unique set of activities that require you to do certain tasks. Enumerate any SIX of these tasks. (6 marks)
  - iii) In terms of written elements, the capstone project requires a written proposal as well as a final project report. List any FIVE distinctive elements that may be included in these documents. (5 marks)

**Question 5 (20 marks)**

- a) Discuss the 3Ps of objective types. (6 marks)
- b) When writing the objectives that one intends to achieve, there are FIVE basic principles or rules that should be kept in mind to ensure that the objectives can stand the test of time. Discuss them. (10 marks)
- c) Discuss any TWO tracking devices. (4 marks)