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| Unit Code: | *SCO309* |
| Unit Title: | *RESEARCH METHODS AND TECHNICAL WRITING* |
| Program(s): | *BSC INFORMATION TECHNOLOGY; BSC COMPUTER SCIENCE* |
| Lecturer Name: | *MR. OMUYA ERICK* |
| Lecturer Contacts: | Email: omuya2005@gmail.com, Phone No.: 0727211203 |

**COURSE OBJECTIVES**

At the end of the course, the student should be able to understand,

* Develop skills of finding and analyzing data
* Explain and criticize approaches to the construction of knowledge
* Conduct, document and report a state-of-the-art Research.
* Compare various research techniques
* Collect, analyze, consolidate and interpret data;

Apply statistical tools to arrive at conclusion

**COURSE SCHEDULE**

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| **WEEK** | **TOPICS** | **CREDIT HOURS** |
| 1 | Introduction to Research Methodology; Research Methods | 3 |
| 2 | Identifying Research Problem; Problem Statement; Research Topic; Objectives; | 3 |
| 3 | Research Process | 3 |
| 4 | **CAT 1** | 3 |
| 5 | Research Design; Research Models; Field Research; Desk Research | 3 |
| 6 | Review of Related Literature; | 3 |
| 7 | Data collection and tabulation. Tools of statistical analysis. | **3** |
| 8 | **CAT 2** | 3 |
| 9 | Preparation of Proposals for IS Projects; | 3 |
| 10 | Writing research reports, dissertations, and thesis | 3 |
| 11 | **REVISION FOR EXAMS** | 3 |
| 12 | **REVISION FOR EXAMS** | **3** |
| 13 | **EXAMINATIONS** | **3** |
| 14 | **EXAMINATIONS** | **3** |

**LEARNING AND TEACHING METHODOLOGY**

Lectures, directed reading, and projects.

**ASSESSMENTS**

Assignments, tutorials, tests (30%) and written examinations (70%)

**REFERENCES**

1. Research Methodology, Methods and Techniques (C.R. Kothari)
2. [Research Methods (Bob Mathews and Liz Rose)](http://freecomputerbooks.com/Algorithms-and-Data-Structures-by-Niklaus-Wirth.html)