

TEng3041: RESEARCH METHODOLOGY

Department of Textile Engineering Wollo University				
Course Number	TEng3041			
Course Title	Research Methodology			
Degree Program	B. Sc. in Textile Engineering			
Module	04: Research Methodology			
Module Coordinator	N.N.			
Lecturer	N.N.			
ECTS Credits	3			
Contact Hours (per week)	Lecture	Tutorial	Laboratory or Practice	Home study
	2	2	0	
Course Objectives & Competences to be Acquired	The students in this course will be able to: ▪ Write technical reports using methodologies/techniques and processes of doing research ▪ Develop presentation skills of the student, both in written and oral form with or without the use audiovisual equipment.			
Course Description/ Course Contents	Introduction to Research Methodology; Meaning and Objectives of Research, Motivation in Research, Types of Research, Research Approaches, Significance of Research, Research Methods versus Methodology, Research and Scientific Method, Importance of Knowing How Research is Done, Research Process, Criteria of Good Research. Fundamental principles of technical writing: ▪ Formats, contents, grammatical techniques; General procedures of reporting, proposals:			

	▪ Technical reports ▪ Formats of reporting ▪ Formal and informal reports Essential knowledge of vocabularies and terminologies in science and engineering Elements of technical documents. Thesis: ▪ Selection of subject ▪ Gathering material, ▪ Arrangement of subject matter. Technical papers and articles. Oral reports and public speaking								
Pre-requisites	None								
Semester	2 nd Semester, 3rd year								
Status of Course	Compulsory								
Teaching & Learning Methods	▪ Lectures ▪ Demonstrations ▪ Individual presentation and Report writing								
Assessment/ Evaluation & Grading System	The Lecture and Tutorial parts of the course will each be evaluated separately for 100 % and the final marks will be arrived at by giving weights according to the hours allocated to the Lecture and Tutorial parts. The details are given below <u>Lecture Part (Weight 50%) Tutorial Part (Weight 50%)</u> <table> <tr> <td>Mid-Term Examination: 40 %</td> <td>Assignment (Minimum 3): 30 %</td> </tr> <tr> <td>Final Examination: 60%</td> <td>Quiz (Minimum 3): 30 %</td> </tr> <tr> <td>Total 100%</td> <td>Project/Seminar: 40 %</td> </tr> <tr> <td></td> <td>Total 100%</td> </tr> </table>	Mid-Term Examination: 40 %	Assignment (Minimum 3): 30 %	Final Examination: 60%	Quiz (Minimum 3): 30 %	Total 100%	Project/Seminar: 40 %		Total 100%
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Attendance Requirements	A minimum of 85 %attendance during lecture and tutorial sessions
Literature	1. <i>Davis .J Communication for Engineering, students, Long man Group limited, 1996.</i> 2. <i>Eisenberg, Anne Effective Technical communication, New York, 1982,</i> 3. <i>College Writing Skills with Reading, John Langan, McGraw Hill Publications 1997</i> 4. <i>Kothari C R & Gaurav Garg, Research Methodology, New Age Publishers, 2014.</i>