



جمهورية مصر العربية

وزارة التعليم العالي والبحث العلمي

Ministry of Higher Education and Scientific Research



المعهد العالى للحاسبات وتكنولوجيا المعلومات
مدينة الشروق - القاهرة
شعبة علوم الحاسب

Course specification

Course Code: H 103

Course Title: Technical Report Writing

Academic Year: /

Course specification
(H 103 Technical Report Writing)

Course Outline

Faculty:	<i>HICIT- (Higher Institute for Computers & Information Technology-El Shorouk Academy)</i>		
Programme(s) on which the course is given:	Undergraduate program in Computer Science		
Major or minor element of programme:	Compulsory		
Department offering the program	Department of Computer Science		
Department offering the course:	Department of Computer Science		
Level	1st Year – 2nd Semester		
Date of specification approval	DD/MM/YYYY		

Basic Information

Code:	H 103	Title:	Technical Report Writing	
Prerequisites:	H101 English Language			
Weekly Hours:				
Lecture: 2	Exercise:	Practical : -	Total: 2 credit hours	

Professional Information

Course Aims:

The objective of this course is to give students a working knowledge of technical writing and communication for computer science. It covers the mechanics of writing, including structure, style and clarity, as well as the conventions of scientific writing in computer science. It will also cover technical documentation, and the mechanics of data analysis, visualization, and communication.

Program ILOs Covered by Course

Knowledge and understanding	Intellectual Skills	Professional and practical skills	General and Transferable skills
A1, A2 , A3, A4,A5	B1, B2,B3,B4	C1,C2,C3	D1,D2,D3

Intended learning outcomes of course (ILOs)

a. Knowledge and Under-Standing:

- A1 - Define technical writing along with its properties.
- a2- Identify some of the most common errors in grammar, punctuation, and spelling.
- a3- List and explain the process of technical writing.
- a4- Recognize and discuss different methods of writing developments.
- a5- Name and discuss basic technical writing elements (i.e. definition, description, instruction) in terms of their structure or what should they contain

b. Intellectual Skills:

- b1 - Apply effective ways to present sentences, paragraphs, and tone in order to help produce a document that readers find clear and easy to grasp.
- b2- Write an outline in the appropriate format and style.
- b3- Apply the techniques of document design that ensure that memos and reports to be more attractive and have the sense of professionalism.
- b4- Write a resume and a letter of application.

c. Professional and practical skills

- c1 - Apply the technical writing process.
- c2-Write an error free technical writing document.
- c3- Use a word processor package to type, edit, and format the technical writing document, along with inserting digital media and creating a table of contents, styles, etc...

d. General and transferable skills

- d1 - Write technical reports for technical projects, Masters and PhD thesis, etc... .
- d2- Write professional resumes and gaining interviewing skills.
- d3- Work in teams.

Contents

Topic	Contact Hours	
	lecture	Ex/Lab
Introduction to Technical Report Writing	2	-
Types of Reports and The basic requirements of report writing	2	-
The rationale for report writing	2	-
Defining the structure of report	2	-
Technical Writing Process	2	-
Using application for creating different Parts of a Technical Report (Formatting-create and modify styles)	2	-
Using application for creating different Parts of a Technical Report (using header and footnote- and insert citation with creating bibliographical list of source)	2	-
Writing technical document with changing document properties and correct error (solving problems)	2	-
Writing technical document with inserting digital media (image-audio-video-webpage and website)	2	-
Essay Writing	2	-
Plagiarism	2	-

Resume Writing (creating a cover letter and resume)	2	-
Practice of Technical document	2	-
Final Project Presentation	2	-

Teaching and learning methods	
Teaching and learning methods	Used
Lectures	√
Tutorial Exercises	√
Practical Lab	-
Discussions.	√
Self – Learning (Reading material, Websites search,)	√
Self-studies	-
Group work	-
Presentation	√
Problem solving/problem solving learning based	-
Case study	-
Synchronous E-Learning	-
Video lectures	-
Asynchronous E-Learning	√

Student assessment methods & Schedule		
Methods	Used	Week#
Midterm Exam	√	8
Final Exam	√	16
Course Work & Quizzes	√	2-14
Assessment Weight		
Assessment	Weight %	
Mid Term Exam	20%	
Final Exam	60%	
Course Work & Quizzes	20%	
Total	100	

Course Work & Quizzes
Short Exams, Assignments, Research, Reports, Presentations
Class/Project discussion

List of references

Essential books (textbooks)	-Shelly Cashman Series, Introductory Microsoft Office 365 Office 2019-(module2: creating a research paper and module3: creating a business letter), 2019 -Daniel G. Riordan and Steven E. Panley, "Technical Report Writing Today," tenth edition 2014 . - Adrian Wallwork, User Guides, Manuals, and Technical Writing, A Guide to Professional English, Springer Science Business Media New York 2014.
Course notes	Course material on E-Learning Portal
Recommended books	The Insider's Guide to Technical Writing– April 4, 2022 by Krista Van Laan
Periodicals, website	
Videos link	

Required Facilities

Tools & SW (Technology facilities):	Microsoft office 2019	
Teaching facilities:	Whiteboard	√
	Computer Lab	√
	Data show	√
	E-Learning	√
	Videos	√
	Website	√

Course Content/ILO Matrix

Course Contents	Knowledge & understanding					Intellectual skills				Professional and practical skills			General		
	a1	a2	a3	a4	a5	b1	b2	b3	b4	c1	c2	c3	d1	d2	d3
Types of Reports - The basic requirements and The rationale of report writing	√					√									
Defining the structure of report - Technical Writing Process			√			√				√			√		
Using application for creating different Parts a Technical Report				√			√	√				√	√		

Writing technical document with providing some techniques		√							√			√		√	
Essay Writing- Plagiarism - Resume Writing.				√	√	√			√					√	
Practice of Technical Report - Final Project Presentation					√	√	√	√				√	√	√	√

_Learning Method /ILOs Matrix

Learning Methods	Knowledge and understanding					Intellectual skills				Professional and practical skills			General		
	a1	a2	a3	a4	a5	b1	b2	b3	b4	c1	c2	c3	d1	d2	d3
Lectures	√	√	√	√	√										
Tutorial Exercises	√	√	√	√	√										
Reading material	√	√	√	√	√	√	√	√		√					
Websites search									√			√		√	
Research and reporting											√	√		√	
Problem solving															
Group work															
Case study															
Practical Lab															
Discussions.										√	√	√	√	√	√

Assessment Methods /ILOs Matrix

Assessment Methods	Knowledge & understanding					Intellectual skills				Professional & practical skills			General		
	a1	a2	a3	a4	a5	b1	b2	b3	b4	c1	c2	c3	d1	d2	d3
Mid Term Exam	√	√	√	√	√	√	√	√	√						
Final Exam	√	√	√	√	√										
Course Project							√		√		√	√	√	√	√
Course Work & Quizzes	√	√	√	√	√	√	√	√	√	√					

Course ILOs Vs Program ILOs																
Course ILOs \ Prog ILOs		Knowledge & understanding					Intellectual skills				Professional and practical skills			General		
		A3	A9	A16	A17	A21	B1	B4	B11	B12	C7	C15	C16	D1	D2	D12
Knowledge and Understanding	a1	√														
	a2			√												
	a3		√													
	a4				√											
	a5															
Intellectual skills	b1					√				√						
	b2							√								
	b3								√							
	b4						√									
Professional and practical skills	c1										√					
	c2											√				
	c3												√			
General skills	d1															√
	d2													√		
	d3														√	

Course Coordinator : ()

Head of Department: ()

Date: --/--/2023