

Scientific Writing AHTA SW

1. Basic Information

Course Title (according to the bylaw)	Scientific Writing			
Course Code (according to the bylaw)	AHTA SW			
Department/s participating in delivery of the course	Technology of Radiology and Medical Imaging			
Number of credit hours/points of the course (according to the bylaw)	Theoretical	Practical	Other (specify)	Total
	2	-	-	2
Course Type	Elective			
Academic level at which the course is taught	Level 4 – 2 nd Semester			
Academic Program	Technology of Radiology and Medical Imaging			
Institute	High Technology Institute of Applied Health Sciences			
Academy	Nile Delta for sciences			
Name of Course Coordinator	Dr/Ragaa Said Hussein, Lecturer of Biochemistory and Clinical Biochemistory			
Course Specification Approval Date	Department Council No. 2, date: (21 – 09 – 2024)			
Course Specification Approval (Attach the decision/minutes of the department /committee/council)				

2. Course Overview (Brief summary of scientific content)

3. This course introduces the scientific writing process through breaking it into easily digested pieces, providing concrete examples that students can refer to when preparing a scientific manuscript.

4. Course Learning Outcomes CLOs

Matrix of course learning outcomes CLOs with program outcomes POs (NARS/ARS)

Program Outcomes (ARS) (according to the matrix in the program specs)		Course Learning Outcomes Upon completion of the course, the student will be able to:	
Code	Text	Code	Text
Pos 3.2.1	Participate in health promotion campaign	Clos 1	Describe the structure and components of a scientific paper (e.g., abstract, introduction, methods, results, discussion).
		Clos 2	Explain the principles of academic integrity and proper citation practices.
		Clos 3	Understand different types of scientific documents (e.g., research articles, reviews, proposals)
Pos 2.3.1	Collect, analyze and interpret data using scientific methods	Clos 4	Analyze scientific texts for clarity, structure, and .logical flow
		Clos 5	Critically evaluate research findings and interpret scientific data
		Clos 6	Formulate research questions or hypotheses based on gaps in the literature
Pos 2.3.2	Design, conduct research projects and manage multiple tasks	Clos 7	Write a well-structured scientific paper with appropriate style and tone.
		Clos 8	Use referencing tools (e.g., EndNote, Mendeley) and .follow citation styles (e.g., APA, MLA, Vancouver)
Pos 1.2.1	Use computers and software in the field effectively	Clos 9	Prepare and format manuscripts according to journal or academic guidelines.
		Clos 10	Revise and edit scientific texts for grammar, clarity, .and coherence
Pos 4.1.1	Participate in teamwork harmoniously and exhibit collaborate effectively with	Clos 11	Influences and interacts well with others in the workplace

Program Outcomes (ARS) (according to the matrix in the program specs)		Course Learning Outcomes Upon completion of the course, the student will be able to:	
Code	Text	Code	Text
	colleagues and other health care professionals.		
Pos 4.1.2	<i>Apply critical and reflective thinking to resolve questions</i>	Clos 12	High efficiency in problem-solving procedures at the individual or institutional level

5. Teaching and Learning Methods

- 1-Interactive Lectures.
- 2-Discussion and brain storming.
- 3-Asynchronous learning.
- 4-Case study /problem solving.
- 5-Self-Directed Learning (SDL).
- 6-Research and presentations, Assignment and reports

Course Schedule

Number of the Week	Scientific content of the course (Course Topics)	Total Weekly Hours	Expected number of the Learning Hours			
			Theoretical teaching (lectures/discussion groups/)	Training (Practical/ Clinical/)	Self-learning (Tasks/ Assignments/ Projects/ .. .)	Other (to be determined)
1	Introduction	2hr	2hr	-	-	-
2	How to write a scientific paper	2hr	2hr	-	-	-
3	Material and Methods	2hr	2hr	-	-	-
4	References	2hr	2hr	-	-	-
5	How to write a thesis	2hr	2hr	-	-	-
6	Midterm	2hr	2hr	-	-	-
7	Epidemiology	2hr	2hr	-	-	-
8	Types of studies	2hr	2hr	-	-	-
9	Research methodology	2hr	2hr	-	-	-
10	Types of research	2hr	2hr	-	-	-
11	Types of research design	2hr	2hr	-	-	-
12	Hypothesis	2hr	2hr	-	-	-
13	Types of Sampling methods	2hr	2hr	-	-	-
14	Types of Sampling methods II	2hr	2hr	-	-	-
15	Revision	2hr	2hr	-	-	-
16						
17	Final exam	2hr	2hr	-	-	-

6. Methods of students' assessment

No.	Assessment Methods *	Assessment Timing (Week Number)	Marks/ Scores	Percentage of total course Marks
1	Exam 1 written (Semester work)	6 th	30	30%
2	Exam 2 (Semester work)	-----	-----	-----
3	Final Written Exam	17 th	70	70%
	Final Practical/Clinical/... Exam	-----	-----	-----
	Final Oral Exam	-----	-----	-----
	Assignments / Project /Portfolio/ Logbook	-----	-----	-----
	Field training	-----	-----	-----
	Other (Mention)	-----	-----	-----

*** The methods mentioned are examples, the organization may add and/or delete**

7. Learning Resources and Supportive Facilities *

Learning resources (books, scientific references, etc.) *	The main (essential) reference for the course (must be written in full according to the scientific documentation method)	Part 1 Badr Book Scientific writing Part 2 Badr Book Scientific writing
	Other References	The scientists Guide to writing by Stephen B. Heard
	Electronic Sources (Links must be added)	:Knowledge bank https://www.ekb.eg/ar
	Learning Platforms (Links must be added)	https://bislms.mans.edu.eg https://bislms.mans.edu.eg/moodle2025/course/index.php?categoryid=9
	Other (to be mentioned)	
Supportive facilities & equipment	Devices/Instruments	Computer and projector
	Supplies	Whiteboard, Whiteboard Markers
	Electronic Programs	-

for teaching and learning	Skill Labs/ Simulators	Ibn al-Haytham program
	Virtual Labs	-
	Other (to be mentioned)	-

*** The list mentioned is an example, the institution may add and/or delete depending on the nature of the course**

**Name and Signature
Course Coordinator**

: Dr/Ragaa Said Hussein

**Name and Signature
Program Coordinator**

: Dr/ Ragaa Said Hussein