Course Description Form

1. Course Name:	
Computer 1	
2. Course Code:	
COS 106	
3. Semester / Year:	
Semester	
4. Description Preparation Date:	
25-11-2024	
5. Available Attendance Forms:	
Attendence	
6. Number of Credit Hours (Total) / Number of Units (Total)	
1 theoretical hour weekly \1unit	
7. Course administrator's name (mention all, if more than one name)	
Name: MSc. Zaid Sam Email: zaid.sami2020@gmail.com	
8. Course Objectives	
Course Objectives	**Cognitive objectives:** •Introduce students to the basics of computer science and its use healthcare. •Identify basic computer applications in nursing, such as electron patient records. •Learn to use statistical software (such as SPSS, Excel, and R) t process nursing medical data. •Understand how software is used to analyze medical research results and patient cases. •Understand how statistical data can be used to support nursing decisions and improve the quality of care. •Study the impact of using statistical analysis on prevention and treatment in patient **cases.**

	Skill objectives •Train students to enter medical data (such as test results or pat notes) and analyze them using statistical tools. •Apply statistical analysis to measure the effectiveness of treatments or health programs using statistical software. •Learn how to interpret statistical data to guide healthcare and evaluate progress. •Use statistical results to determine nursing priorities, such as determining disease risk or assessing patient response to treatme •Apply statistical analysis tools to realistic nursing scenarios to analyze patient data.
9. Teaching and Learning Strategies	
Strategy	•Lectures: To present basic information and theoretical concepts. •Group discussions: To promote critical thinking and acti participation among students. •Group work: To develop cooperation skills and practical application of concepts. Assessment methods: •Written tests: To measure theoretical understanding of concepts and terms. •Practical assessment (applied skills): Through case stud or implementation of practical activities. •Participation in group discussions: To assess the level o interaction and critical understanding. •Brainstorming •Reports •Quis

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introductio n to Computer Science and Data Analysis	Introducti on to Computer Science and its Applicatio ns in Nursing	In-person tures using visual aids	Attendance, da quizzes, class interaction
2	1	derstanding the sics of Health Information Systems	Health Informatio n Systems and Electronic Patient Records	Theoretical tures and practical applications	Short quizzes, class interactic
3	1	plying Basic Computer Skills	sics of Using Office grams (Word, Excel)	Practical workshops	Mini-projects, assignments
4	1	rning to Input l Analyze Medical Data	ta Entry and cessing using Excel	Practical training	Practical assessment, projects
5	1	alyzing Basic Statistical Data	roduction to SPSS l Medical Data Entry	rkshops and practical training	Performance o practical applications
6	1	Applying Statistical Analysis in Nursing	Using SPSS to Analyze Patient Data	Practical rcises and case studies	Practical assessment, individual reports
7	1	derstanding the e of *R* in atistical Analysis	roduction to R and its plications in Nursing	Training workshops	Mini-projects, short quizzes

8	1	Evaluating Healthcare Quality using Statistical Analysis	alyzing Healthcare ality Indicators	Interactive lectures, practical training	Practical assessment, group reports
9	1	erpreting Data Support Nursing Decisions	w to Analyze and erpret Research sults	Group discussions, practical applications	Analytical reports, practi assessment
10	1	ng Statistical alysis in vention and Treatment	Evidence-Based Nursing Applications	se studies, discussion sessions	Research repo class interactic
11	1	Analyzing Clinical Effectiveness of Treatments	Measuring the Impact of Health Treatments using Statistical Software	Workshops, practical training	Practical projects, Presentations
12	1	Using Data to Improve Nursing Plans	Developing Nursing Strategies Based on Statistical Analysis	Interactive lectures, practical applications	Practical assessment, Presentations
13	1	Writing Medical and Statistical Reports	Preparing Medical Data Analysis Reports	Practical training on report writing	Report evaluation, Group feedback

15	1	Using Statistical Analysis to Support Health Policies	Analyzing Data to Support Health Decisions	Interactive lectures, analyzing real data	Research projects, discussions

11. Course Evaluation	
"The grading is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily exams, oral assessments, monthly assessments, written assignments, reports, etc."	
12. Learning and Teaching Resources	
quired textbooks (curricular books, if any)	
Main references (sources)	1- Computer Science: An Overview" by J. Glenn Brookshear and Dennis Brylow. 2-Computer Systems: A Programmer's Perspective" by Randal E. Bryant and David R. O'Hallaron 3-Discovering Statistics Using IBM SPSS Statistics" by Andy Field, Jeremy Miles, and Zoë Field 4-SPSS Survival Manual" by Julie Pallant
Recommended books and references (scientific journals, reports...)	.Basics of MATLAB and beyond. By (Andrew Knight) -2
Electronic References, Websites	t 1 Data Processing for Scientists and Engineers using TLAB By (Professor Dr. Abdul Mutalib Ibrahim Ahmad 06)
Curriculum Development Plan	• Clearly define the course objective to be appropriate with the course title • Set a specific time frame to cover the course content, whether the course is taught over a full year or one semester. • Create a list of the content that must be taught to

	.students • Keep up with the course developments by following up on the Internet to find advanced courses in the field of the .scientific (academic) course