Course Specifications

Course Title:	Research Seminar
Course Code:	598PMAI-2
Program:	Professional Master of Artificial Intelligence
Department:	Computer Science
College:	Computer Science and information systems
Institution:	Najran University

Table of Contents

A. Course Identification

1. Credit hours:2
2. Course type
a.   University ☐   College √   Department √   Others ☐
b.   Required √   Elective ☐
3. Level/year at which this course is offered: 5th level/ 2th year
4. Pre-requisites for this course (if any)**:**
5. Co-requisites for this course (if any)**: NA**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	20	100%
2	**Blended**		
3	**E-learning**		
4	**Distance learning**		
5	**Other**		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	20
2	**Laboratory/Studio**	
3	**Tutorial**	
4	**Others** (specify)	
	Total	20

B. Course Objectives and Learning Outcomes

1. Course Description

This course emphasizes on the theoretical concepts and applications of topics in information systems and prepares the student for the project implementation phase. The student works with a faculty advisor to deepen the understanding of some aspect of Information Systems. The student is directed to read current journal articles and magazines related to a special area in information systems that interests the student. The student will submit, at the end of this course, a written report for the research project.

2. Course Main Objective

After successful completion of this course students should be able to:

- Recognize basics requirements for research work
- Learn how to read research papers

- Increase understanding of current research in various areas of information systems
- Evaluate research results and assumptions
- Writing literature review and research methodologies
- Writing research papers and thesis
- Demonstrate research presentations skills

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge and Understanding**	
1.1	Recognize basics requirements for research work	K3
1.2	Learn how to read research papers	K3
1.3	Increase understanding of current research in various areas of information systems	K3
1...		
2	**Skills**	
2.1	Evaluate research results and assumptions	S1
2.2	Writing literature review and research methodologies	S4
2.3	Writing research papers and thesis	S1
2.4		
2.5		
3	**Competences:**	
3.1	Demonstrate research presentations skills	C2
3.2		
3.3		
3...		

C. Course Content

No	List of Topics	Contact Hours
1	Introduction	1
2	Reading and understanding research paper	1
3	Reading and understanding research paper/ Formulating research questions	1
4	Formulating research questions/ Writing literature review section	1
5	Formulating research questions/ Writing literature review section	1
6	Writing literature review section Research methodology	1
7	Understand Qualitative research methodologies	1
8	Proposals critical thinking writings	1
9	Students presentations	1

10	Proposal structure and Writing	1
11	Increase understanding of current research in various areas of computer science	2
12	Papers discussion/Thesis organization	2
13	Papers discussion : Common ethical issues	2
14	Students final presentations	2
15	Students final presentations	2
Total		**20**

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge and Understanding**		
1.1	Recognize basics requirements for research work	TS-1: Relate Course Learning Outcomes (CLOs) to the topics	Quiz Assignments Midterm Examination Final Examination
1.2	Learn how to read research papers	TS-2: Giving Lectures in PPT, recalling the lecture through asking Questions. Clarifying doubts on Lecture.	
…	Increase understanding of current research in various areas of information systems	TS-3: Conducting a discussion of real life problems, among teacher, students	
2.0	**Skills**		
2.1	Evaluate research results and assumptions	TS-1: Relate Course Learning Outcomes (CLOs) to the topics	Quiz Assignments Midterm Examination Final Examination,
2.2	Writing literature review and research methodologies	TS-2: Giving Lectures in PPT, recalling the lecture through asking Questions. Clarifying doubts on Lecture.	Quiz, Assignments Final Examination
2.3	Writing research papers and thesis	TS-3: Conducting a discussion of real life problems, among teacher, students	Quiz Assignments Final Examination
2.4		TS-4: Cooperative learning among the students. Encourage students to browse different journals, seminars or websites at their leisure time to have a better understanding about the course	Lab Assignments, Midterm Examination,
2.5			Final Examination
3.0	**Competences**		

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
3.1	Demonstrate research presentations skills	TS-2: Giving Lectures in PPT, recalling the lecture through asking Questions. Clarifying doubts on Lecture. TS-3: Conducting a discussion of real life problems, among teacher, students	Midterm2, and Final Theory Exam
3.2			
…			

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz1	3rd week	10%
2	Midterm	6th week	20%
3	Project	5th week	10%
4	Theory Assignments	2th , 5th , 8th , 10th weeks	10%
5	Quiz2	9th week	10%
6	Final Exam	11th week	40%

Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- Weekly office hours + Appointments

- Weekly academic advising hours

- Extra weekly 2 office hours prior to exams.

- Tutorials are also provided to the students

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	No specific textbook is required. Papers and reading materials will be provided.
Essential References Materials	
Electronic Materials	
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Room B-58 Laboratory A-16L
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, PCs.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	• Printer is important in the lab to print reports and some snapshots. • Projector and PC for the lab instructor is required

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Online course survey	Students	Indirect
Focus group discussion with small groups of students.	Instructor	Direct
Extent of achievement of course learning outcomes	instructor	Direct

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Computer Science Departmental Council
Reference No.	14440203-0185-00002
Date	1st Sep, 2022