



Course Specification

(Postgraduate)

Course Title: **Research Project (1)**

Course Code: **501826-3**

Program: **Master in Artificial Intelligence**

Department: **Computer Science**

College: **College of Computers and Information Technology**

Institution: **Taif University**

Version: **V2**

Last Revision Date: **5 May 2024**

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Computer Science Department

جامعة الطائف
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A. General information about the course:

1. Course Identification:

1. Credit hours: (3)

2. Course type

A. University College Department Track

B. Required Elective

3. Level/year at which this course is offered: (Level 4 – Year 2)

4. Course general Description:

This course provides students with the opportunity to apply the knowledge acquired during their studies. The students extend their academic experiments of leadership into areas of personal interest and demonstrate their ability to accomplish the project. The students demonstrate their ability to analyze, synthesize, design, and evaluate information. During the first semester, the student is required to complete the project proposal, project report and presentation as well as the software and/or hardware requirements.

5. Pre-requirements for this course (if any):

This item is subject to the regulations governing postgraduate studies in Saudi universities and its executive rules at Taif University.

6. Co-requirements for this course (if any):

None.

7. Course Main Objective(s):

The main objective of this course is to enable advanced graduate students in Artificial Intelligence and related fields to apply concepts and tools of the field to analyze and logically design real-world projects.

2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	-	-
2	E-learning	-	-
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 	45	100%
4	Distance learning	-	-

3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures/Seminars	-



2.	Laboratory/Studio	-
3.	Field	-
4.	Tutorial	-
5.	Others (specify): supervisor meetings	45
Total		45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods:

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0 Knowledge and understanding				
-	-	-	-	-
2.0 Skills				
2.1	Analyze problems and understand issues in relation to artificial intelligence.	S1	Discovery Discussion Brainstorming Self-Learning E-Learning	Proposal Thesis report Presentation Seminars
2.2	Write a research proposal addressing issues in artificial intelligence.	S1	Discovery Discussion Brainstorming Self-Learning E-Learning	Proposal Project report Presentation Seminars
2.3	Develop detailed design adhering to research methodology standards to solve an artificial intelligence problem.	S2	Discussion Project Self-Learning	Proposal Project report
2.4	Choose appropriate artificial intelligence technologies to solve real-life problems	S2	Discussion Project Self-Learning	Proposal Project report
3.0 Values, autonomy, and responsibility				
3.1	Incorporate professional, legal, and ethical standards in scientific research to contribute effectively to the field.	V1	Project Self-Learning	Proposal Project report
3.2	Recognize the need for lifelong learning due to ongoing technological advancements.	V1	Project Self-Learning	Thesis report Presentation Seminars





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.3	Function efficiently as a researcher, participating in various professional activities like colloquiums, seminars, conferences, and competitions.	V2	Discussion Project	Project defense Presentation Seminars

C. Course Content:

No	List of Topics	Contact Hours
1.	Start-up meeting	3
2.	Project selection meeting(s)	3
3.	Submit Project Proposal	12
4.	Project work	12
5.	Submit Requirements/Specifications Report	6
6.	Submit final Report	6
7.	Project Presentation	3
Total		45

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Project Proposal	6 th week	10 %
2.	Semester Overall Work	15 th week	20%
3.	Final Report	14 th week	30% (18% supervisor + 12% examiners)
4.	Project Presentation	15 th week	40% (12% supervisor + 28% examiners)

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities:

1. References and Learning Resources:

Essential References	Literature Review from Scientific Databases.
Supportive References	-
Electronic Materials	-
Other Learning Materials	-



2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ul style="list-style-type: none"> A meeting room with a personal computer, a data show.
Technology equipment (Projector, smart board, software)	<ul style="list-style-type: none"> Lab materials and required software. Video projector / data show White board.
Other equipment (Depending on the nature of the specialty)	-

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> Students Coordinator 	<p>Indirect (Course exit survey) Indirect (Feedback from Course Coordinator)</p>
Effectiveness of students assessment	<ul style="list-style-type: none"> Faculty member Coordinator 	<p>Indirect (Feedback from Faculty member) Indirect (Feedback from Course Coordinator)</p>
Quality of learning resources	<ul style="list-style-type: none"> Students Faculty member Coordinator Council Curriculum Committees 	<p>Indirect (Course exit survey) Indirect (Feedback from Faculty member) Indirect (Feedback from Course Coordinator) Indirect (Feedback from council) Indirect (Feedback from Graduate Committees)</p>
The extent to which CLOs have been achieved	<ul style="list-style-type: none"> Students Faculty member Coordinator Curriculum Committees 	<p>Indirect (Course exit survey) Indirect (Feedback from Faculty member/ Course Coordinator/ Graduate Committee)</p>
Other	-	-

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	GRADUATE PROGRAMS COMMITTEE – CS DEPT.
REFERENCE NO.	V2
DATE	5/5/2024