



### DESCRIPTION OF COURSEWORK

Course Code	AIT103
Course Name	Introduction to Intelligence Applications
Lecturer	Dr. Shaidah Jusoh
Academic Session	2025/04
Assessment Title	<b>Group Project</b>

#### Introduction/ Situation/ Background Information

This group project is worth **40%** of the total course mark. The aim of this project is to expose students to real intelligent applications whether it be at the research or industry level. Students are required to carry out defined tasks to design and build an intelligent application. Assessment is carried out phase by phase.

#### A. Course Learning Outcomes (CLO) covered

At the end of this assessment, students are able to:

- CLO 2: Apply intelligence methods into practical issues.
- CLO 3: Build intelligent systems to solve (simple) real-world problems.
- CLO 4: Display good teamwork skills during the development of the intelligent system.

#### B. University Policy on Academic Misconduct

1. Academic misconduct is a serious offense in Xiamen University Malaysia. It can be defined as any of the following:
  - i. **Plagiarism** is submitting or presenting someone else's work, words, ideas, data or information as your own intentionally or unintentionally. This includes incorporating published and unpublished material, whether in manuscript, printed or electronic form into your work without acknowledging the source (the person and the work).
  - ii. **Collusion** is two or more people collaborating on a piece of work (in part or whole) which is intended to be wholly individual and passed it off as own individual work.
  - iii. **Cheating** is an act of dishonesty or fraud in order to gain an unfair advantage in an assessment. This includes using or attempting to use, or assisting another to use materials that are prohibited or inappropriate, commissioning work from a third party, falsifying data,

or breaching any examination rules.

2. All assessments submitted must be the student's own work, without any materials generated by AI tools, including direct copying and pasting of text or paraphrasing. Any form of academic misconduct, including using prohibited materials or inappropriate assistance, is a serious offense and will result in a zero mark for the entire assessment or part of it. If there is more than one guilty party, such as in case of collusion, all parties involved will receive the same penalty.

### C. Instruction to Students

This project should be conducted and completed in a group. Students should form **a group of 5-7/8 members**. If students have any difficulties in forming a group, make a reference to the lecturer. The evaluation breakdown of the whole project is presented in **Section D**. Tasks and details instruction how the tasks should be completed are given in **Section E**. Below are the submission details.

No	Submission Type	Submission Item	Day and Date
1	Group Formation	Students Names (5-7/8 names) & Topic title.	Monday, 26 May 2025
2	Proposal	Report (PDF format), 1.5 spacing	Monday, 26 May 2025
3	Literature Review	Report (PDF format), 1.5 spacing	Friday, 07, June 2025
4	Intelligent System	Report (PDF format) 1.5 spacing and Code	Friday, 21 June 2025

### D. Evaluation Breakdown

No.	Component Title	Percentage (%)
1.	Proposal Report	5%
2.	Literature Review Report	15%
3.	Intelligent Application/System Report	20%
	<b>TOTAL</b>	<b>40 %</b>

## E. Task(s)

**Task 1:** Form a group of **5-7 members**, and select one of the topics below. **In a certain circumstance a group can have 8 members.** You must identify a specific application for one of the following topics.

- Rule-based expert system
- Template-based Chatbot/Retrieval-based Chatbot/ Generative Chatbot
- Face recognition / Object detection

**Task 2:** Write a **proposal** outlining an intelligent application you intend to design and construct. Your proposal should comprise four key sections: *(1) Introduction, (2) Rationale of the application, (3) Objectives, and (4) Project Scope*. Ensure that your proposal incorporates a minimum of 3 references. The length of the proposal should be in the range of **500-1000** words excluding references. A proper way of citation is required.

**Task 3:** Write a **literature review (LR)** for the chosen application. In this process, you should review existing applications, or conduct a review on published articles related to your application. You should have at least 10 related from journals or conferences as references in your report. The references should be presented at the end of the literature review report. The report must have ***an introduction section*** and ***a conclusion section***. **Other sections should be based on your report contents.** The length of the LR report should be in the range of **2500-4000** words excluding references. A proper way of citation is required.

**Task 4:** **Design and build an intelligent system/application** that you have proposed in Task 1. **Write a report** for the system. The report should have the following key sections: *(1) Introduction (2) Project Methodology (3) Design of the Intelligent System/Application (4) Implementation (screenshot the prototype and code), (5) Discussion*. The length of the intelligent system report should be **800-2000** words excluding references.

APPENDIX 1

MARKING RUBRICS

Component Title	Group Project					Percentage (%)	40
Criteria	Score and Descriptors					Weight (%)	Marks
	Excellent (5)	Good (4)	Average (3)	Need Improvement (2)	Poor (1)		
<b>Proposal Report</b> (CLO 2,3,4)	The motivation and problem statements beautifully written, well justified and viable. Very relevant application.  Proper citations are needed.	The motivation and problem are well written. Relevant application. Somehow proper citations	The motivation and problem statements are clear but not well written. Somehow relevant application  Somehow proper citations	The motivation is Not well written and problem statements are not justified properly. Somehow relevant application  Improper citations	The motivation is not clear, the problem Statements are not identified. Not relevant application.  Improper citations	5	
<b>Literature Review Report</b> (CLO 2,3,4)	Collect and analyze relevant data/ information appropriately, Excellent references, and excellent in Presenting collection and data analysis. An excellent report which is free from Grammar mistakes, organized well, Continuous though and have proper citations.	Collect and analyze relevant data/ information, good references, And good in presenting a report of data collection. A good report has very few grammar mistakes, is organized well, continuous thought and have proper citations.	Collect relevant data/information, but not analyze thoroughly, not sufficient references, and Do not prepare for a good presentation. An average report has very several grammars mistakes, is not organized well, does not show continuous thought and have somehow proper citations.	Collect irrelevant data/information, data analysis needs improvement, not sufficient references, and make a presentation on the report of data collection. A report requires improvement in terms of grammar, organization, and continuous thought and have improper citations.	Collect irrelevant data/information on, poor in data analyzing Data weak references, And do not present the report of data collection. A poor report requires lots of improvement In terms of grammar, organization, and continuous thought and have improper citations.	15	
<b>Intelligent System Report</b> (CLO 2,3,4)	An excellent report, fulfill all the requirements, contains all Required contents, free from grammar mistakes and typos, is a well-focused, Excellent organization, and has sufficient References	A good report contains all Required contents, have some Grammar mistakes and typos, is well-focused, Excellent organization, and has Sufficient References	An average report contains all required contents, many grammar mistakes, and typos, is not well-focused, good organization, and has enough references	A weak report contains more than half of all required contents, many grammar mistakes, and typos, not focus, the structure and organization are weak, do not have sufficient references	A poor report contains less than half of the required content contents, many grammar mistakes, and typos, not- focus and poor in structure and organization and do not Have sufficient references	20	

Total		40	
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Note to students: Please print out and attach this appendix together with each submission of your coursework.