SCHOOL OF COMPUTING
IT8303 AI Human Interface

MODULE OVERVIEW

1. Module Aims

AI-Human Interface aims to equip students with skills to build automated intelligent systems that can interact and communicate with human. Students will learn neural network architectures and deep learning neural networks. Students will apply deep learning frameworks to build intelligent systems for image recognition and conversational chatbots.

2. Module Contents

The topics within the module and the project studies hours are listed as below:

Topic	Title	Hours
1.	Introduction to Deep Learning	5
2.	Robotic Process Automation	5
3.	Python for Deep Learning	10
4.	Convolutional Neural Network for Image Recognition	15
5.	Introduction to Chatbots	10
6.	Overview of Bot Platforms	10
7.	Building Chatbots in Dialogflow	10
8.	Deploy Chatbot with Advanced Concept	10
	Total	75

3. Module Calendar

Week	Activities	Deadlines
W1 | 14 – 18 Oct	Lecture – Topic 1 Lab – Topic 1	
W2 | 21 – 25 Oct	Lecture – Topic 2 Lab – Topic 2	
W3 | 28 Oct – 1 Nov	Lecture – Topic 3 Lab – Topic 3	
W4 | 4 – 8 Nov	Lecture – Topic 4 Lab – Topic 4	
W5 | 11 – 15 Nov	Lecture – Topic 4 Lab – Topic 4	
W6 | 18 – 22 Nov	CA1 Assignment Workshop	**Quiz 1**
W7 | 25 - 29 Nov	CA1 Assignment Consultation	**CA1 Submission**
W8 | 2 - 6 Dec	**CA1 Presentation**	
7 Dec – 5 Jan	Vacation Break 4 weeks	
W13 | 6 – 10 Jan	Lecture – Topic 5 Lab – Topic 5	
W14 | 13 – 17 Jan	Lecture – Topic 6 Lab – Topic 6	
W15 | 20 – 24 Jan	Lecture – Topic 7 Lab – Topic 7	
W16 | 27 – 31 Jan	Lecture – Topic 7 Lab – Topic 7	
W17 | 3 – 7 Feb	Lecture – Topic 8 Lab – Topic 8	
W18 | 10 – 14 Feb	CA2 Consultation	**Quiz 2**
W19 | 17 – 21 Feb	**CA2 Presentation**	**CA2 Submission**

4. Assessment

The assessment consists of three individual assignments. The weightage and format are as follows:

1.	CA1	Individual Assignment 1 (Build Convolutional Neural Network for Image Recognition).	40%
2.	CA2	Individual Assignment 2 (Design, build and deploy a chatbot using Dialogflow).	40%
3.	CA3	Assignment 3 (Quizzes, General Performance in class, Attitude)	20%
		TOTAL	**100%**