

# **ACADEMIC PROJECT 1**

(WIA3002 / WIB3002)

**BRIEFING** 

# **MEET OUR GREAT TEAM**

### **Head Coordinator**



Pn. Hannyzzura Affal

### **Department/Unit Coordinators**



Dr. Hazrina Sofian (SE)



AP Ts Dr. Sri Devi (IS)



En. Noorzaily Mohamed Noor (CSN)



Dr. Nurul Japar (AI)



Pn. Hannyzzura Affal MM & Islamic Studies

### INTRODUCTION

The aim of these courses is to leverage students' **technical** and **soft skills** (communication, problem-solving, critical thinking, and teamwork & leadership skills)

No.	Course Title	Course Code	Programme	Credits	Semester
1.	Academic Project I	WIA3002*	Bachelor of Computer Science	3	Semester II Year 3
		WIB3002*	Bachelor of Information Technology		
2.	Academic Project II	WIA3003#	Bachelor of Computer Science	5	Semester I
		WIB3003#	Bachelor of Information Technology	3	Year 4

<sup>\*</sup> Pass all Faculty and Programme Core Courses except for Industrial Training and Academic Project II.

# Pre-requisite: Bachelor of Computer Science - WIA3002

Bachelor of Information Technology - WIB3002

### **COURSE OUTCOME**

At the end of the course, students are able to

- 1. State the problem background.
- 2. Identify a solution approach that is suitable for the stated problem.
- 3. Report a literature review that is related to the stated problem.
- 4. Conduct suitable data gathering techniques.
- 5. Write a project proposal.

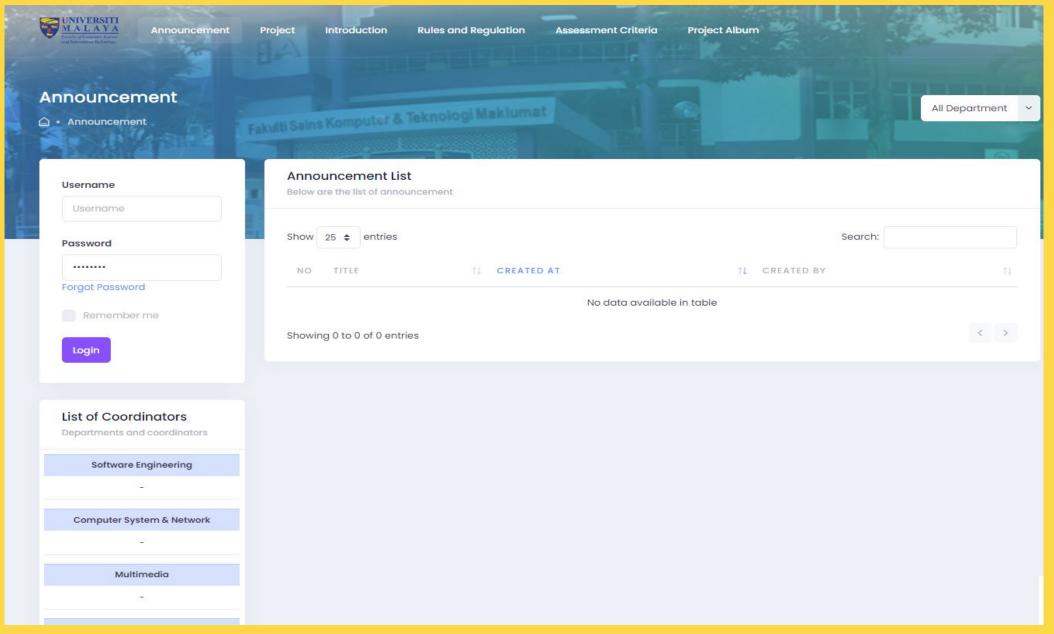
### CURRICULUM STRUCTURE BACHELOR OF COMPUTER SCIENCE (COMPUTER SYSTEM AND NETWORK) ACADEMIC SESSION 2020/2021

COURSE CODE	COURSE COMPONENT UNIVERSITY COURSES	CREDITS	SEMESTER
GIG1012	Philosophy and Current Issues (for local student only)	-	E Saget
GLT1017	Basic Malay Language (for international student)	2	1
GIG1013			2
GIG1003			1
GIG1004	GIG1004 Information Literacy		2
GIG1005	GIG1005 Social Engagement		2
GLTXXXX			1
GLTXXXX	English for Communication (2)	3	2
	Co-Curriculum	2	1
	External Faculty Elective	2	1
	Total	20	
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COURSE CODE	FACULTY CORE COURSES	CREDITS	SEMESTER
WIX1001	Computing Mathematics I	3	1
WIX1002	Fundamentals of Programming	5	1
WIX1003	Computer Systems and Organization	3	1
WIX2001	Thinking and Communication Skills	3	1
WIX2002	Project Management	3	1
	Total	17	
COURSE CODE	FACULTY ELECTIVE COURSES (Choose only 2 courses)	CREDITS	SEMESTER
WIX3001	Soft Computing	3	1 or 2
WIX3002	Social Informatics	3	1 or 2
WIX3003	Information Security Management and Ethics	3	1 or 2
WIX3004	Mobile Application Development	3	1 or 2
WIX3005	Digital Cinematography	3	1 or 2
	Total	6	
COURSE CODE	PROGRAMME CORE COURSES	CREDITS	SEMESTER
WIA1001	Information Systems	3	1
		5	2
WIA1001	Data Structure (#WIX1002)		
WIA1001 WIA1002 WIA1003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003)	5	2 2
WIA1001 WIA1002 WIA1003 WIA1004	Data Structure (#WIX1002)  Computer System Architecture (#WIX1003)  Fundamentals of Artificial Intelligence	5 3 3	2 2 2
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005	Data Structure (#WIX1002)  Computer System Architecture (#WIX1003)  Fundamentals of Artificial Intelligence  Network Technology Foundation	5 3 3 4	2 2 2 2
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database	5 3 3 4 3	2 2 2 2 2
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002	Data Structure (#WIX1002)  Computer System Architecture (#WIX1003)  Fundamentals of Artificial Intelligence  Network Technology Foundation  Database  Software Modeling	5 3 3 4 3 3	2 2 2 2 1 1
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003	Data Structure (#WIX1002)  Computer System Architecture (#WIX1003)  Fundamentals of Artificial Intelligence  Network Technology Foundation  Database  Software Modeling  Probability and Statistics	5 3 3 4 3 3 3	2 2 2 2 1 1 1
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2003	Data Structure (#WIX1002)  Computer System Architecture (#WIX1003)  Fundamentals of Artificial Intelligence Network Technology Foundation  Database  Software Modeling Probability and Statistics  Operating Systems	5 3 3 4 3 3 3 4	2 2 2 2 1 1 1 2
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2002 WIA2003 WIA2004 WIA2005	Data Structure (#WIX1002)  Computer System Architecture (#WIX1003)  Fundamentals of Artificial Intelligence Network Technology Foundation  Database  Software Modeling  Probability and Statistics  Operating Systems  Algorithm Design and Analysis (#WIA1002)	5 3 3 4 3 3 3	2 2 2 2 1 1 1
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002)	5 3 3 4 3 3 3 4 4 4	2 2 2 2 1 1 1 2 2
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2002 WIA2003 WIA2004 WIA2005	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I **	5 3 3 4 3 3 3 4 4	2 2 2 2 1 1 1 2
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA2001 WIA3001	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002)	5 3 3 4 3 3 3 4 4 4 12	2 2 2 2 1 1 1 2 2 2
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2003 WIA2004 WIA2005 WIA2001 WIA3001 WIA3002 WIA3003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I ** Academic Project II (#WIA3002)	5 3 4 3 3 3 4 4 4 12 3 5	2 2 2 2 1 1 1 2 2 2 1 1 2 1 1
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA2001 WIA3002 WIA3003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project II ** Academic Project II (#WIA3002)  I Otal  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses)	5 3 3 4 4 3 3 3 4 4 4 12 3 5 5 0 0 CREDITS	2 2 2 2 1 1 1 1 2 2 1 1 2 1 1 SEMESTER
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA2001 WIA3002 WIA3003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I ** Academic Project II (#WIA3002)  I Otal  SPECIALIZATION ELECTIVE COURSES (Choose only 10 courses) Advanced Network Technology	5 3 3 4 4 3 3 3 4 4 4 12 3 5 5 5 5 CREDITS	2 2 2 2 1 1 1 1 2 2 1 1 2 2 1 1 SEMESTER 1 or 2
WIA1001 WIA1002 WIA1003 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA2005 WIA2003 WIA2003 WIA2001 WIA3002 WIA3003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I ** Academic Project II (#WIA3002)  I SPECIALIZATION FLECTIVE COURSES (Chaose only 10 courses) Advanced Network Technology Network Security	5 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7	2 2 2 2 1 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2004 WIA2005 WIA2004 WIA3003 WIA2004 WIA2005 WIA2001 WIA2005 WIA2001 WIA2005 WIA2001 WIA2002 WIA2003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I * Academic Project II (#WIA3002)  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language	5 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8	2 2 2 2 1 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2004 WIA3003 WIA3003  COURSE CODE WIC2001 WIC2002 WIC2003 WIC2004	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Jodustrial Training * Academic Project I ** Academic Project II (#WIA3002)  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology	5 3 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 3 3 3 3 3 3 3 3 3 3 3 5	2 2 2 2 1 1 1 1 2 2 2 1 1 1 2 2 1 1 1 1
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2005 WIA2005 WIA2001 WIA3002 WIA3003  COURSE CODE WIC2001 WIC2001 WIC2002 WIC2004 WIC2004 WIC2004	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project II (#WIA3002)  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking	5 3 4 4 3 3 3 4 4 4 4 12 3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 1 1 1 1 2 2 2 1 1 2 2 1 1 1 1 1
WIA1001 WIA1002 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA2005 WIA2001 WIA2001 WIA2001 WIA2002 WIA2003 WIA2003 WIA2004 WIA3002 WIA3003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I I ** Academic Project II (#WIA3002)  Iotal  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography	5 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 5 5 5 3 3 3 3 3 3 3 3 3 3	2 2 2 2 1 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1
WIA1001 WIA1002 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA3001 WIA3002 WIA3003  COURSE CODE WIC2001 WIC2002 WIC2003 WIC2003 WIC2004 WIC3001 WIC3001 WIC3002 WIC3001 WIC3002 WIC3001	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I ** Academic Project II (#WIA3002)  Total  SPECIALIZATION ELECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography Embedded System Programming	5 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 5 7 7 8 7 8 8 8 8 8 8 8 8 8 8	2 2 2 2 1 1 1 1 2 2 2 1 1 2 2 1 1 1 1 1
WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA2001 WIA2001 WIA2001 WIA2001 WIA2001 WIA2001 WIA2001 WIA2001 WIA3002 WIA3003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Jedustrial Training * Academic Project I ** Academic Project II (#WIA3002)  Fotal  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography Embedded System Programming Computer Penetration	5 3 4 4 3 3 3 4 4 4 12 3 5 5 5 5 3 3 3 3 3 3 4 4 4 3 3 3 3 3 3	2 2 2 2 1 1 1 1 2 2 2 1 1 2 2 1 1 1 1 2 2 1
WIA1001 WIA1002 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2001 WIA2002 WIA2003 WIA2005 WIA2005 WIA2001 WIA2005 WIA2001 WIA2001 WIA2001 WIA2001 WIA2001 WIA3002 WIA3003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I ** Academic Project II (#WIA3002)  Iodustrial Training * Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography Embedded System Programming Computer Penetration Enterprise Network Design and Management	5 3 3 4 4 3 3 3 4 4 4 4 4 12 3 5 5 05 <b>CREDITS</b> 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2 2 2 1 1 1 1 2 2 1 1 2 2 1 1 1 1 2 2 1
WIA1001 WIA1002 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2001 WIA2003 WIA2003 WIA2005 WIA3001 WIA3002 WIA3003  COURSE CODE WIC2001 WIC2002 WIC2003 WIC2004 WIC3001 WIC3001 WIC3001 WIC3001 WIC3001 WIC3005 WIC3006	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I I ** Academic Project II (#WIA3002)  Iotal  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography Embedded System Programming Computer Penetration Enterprise Network Design and Management Mobile Computing	5 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 5 5 5 5 7 7 8 7 8 8 8 8 8 8 8	2 2 2 2 1 1 1 1 2 2 2 1 1 1 2 2 1 1 1 1
WIA1001 WIA1002 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2001 WIA2002 WIA2003 WIA2005 WIA2005 WIA2001 WIA2005 WIA2001 WIA2001 WIA2001 WIA2001 WIA2001 WIA3002 WIA3003	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I ** Academic Project II (#WIA3002)  Iodustrial Training * Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography Embedded System Programming Computer Penetration Enterprise Network Design and Management	5 3 3 4 4 3 3 3 4 4 4 4 4 12 3 5 5 05 <b>CREDITS</b> 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2 2 2 1 1 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1
WIA1001 WIA1002 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2001 WIA2003 WIA2003 WIA2005 WIA3001 WIA3002 WIA3003  COURSE CODE WIC2001 WIC2002 WIC2003 WIC2004 WIC3001 WIC3001 WIC3001 WIC3001 WIC3001 WIC3005 WIC3006	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I I ** Academic Project II (#WIA3002)  Iotal  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography Embedded System Programming Computer Penetration Enterprise Network Design and Management Mobile Computing	5 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 5 5 5 5 7 7 8 7 8 8 8 8 8 8 8	2 2 2 2 1 1 1 1 2 2 2 1 1 2 2 1 1 1 1 2 2 1
WIA1001 WIA1002 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2001 WIA2003 WIA2004 WIA2005 WIA2005 WIA2003 WIA2004 WIA2005 WIA2001 WIA2005 WIA2001 WIA2005 WIA2001 WIA2001 WIA2002 WIA2001 WIA2001 WIA2002 WIC2001 WIC2001 WIC2002 WIC2003 WIC2004 WIC3001 WIC3001 WIC30004 WIC30005 WIC3006 WIC3006 WIC3007	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I ** Academic Project II (#WIA3002)  Total  SPECIALIZATION ELECTIVE COURSES (Chaose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography Embedded System Programming Computer Penetration Enterprise Network Design and Management Mobile Computing Principles of Distributed Systems	5 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 5 5 3 3 3 3 3 3 3 3 3 3 3	2 2 2 2 1 1 1 1 2 2 2 1 1 2 2 1 1 1 1 1
WIA1001 WIA1002 WIA1003 WIA1003 WIA1004 WIA1005 WIA2001 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA2001 WIA2001 WIA2001 WIA2001 WIA2001 WIA3002 WIA3003  COURSE CODE WIC2001 WIC2001 WIC2001 WIC2002 WIC2003 WIC2004 WIC3001 WIC3001 WIC30001 WIC30001 WIC30005 WIC30005 WIC30006 WIC3007 WIC30008	Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training * Academic Project I * Academic Project II (#WIA3002)  Total  SPECIALIZATION FLECTIVE COURSES (Choose only 10 courses) Advanced Network Technology Network Security Digital Design and Hardware Description Language Internet Technology Mathematics in Networking Cryptography Embedded System Programming Computer Penetration Enterprise Network Design and Management Mobile Computing Principles of Distributed Systems Microprocessor	5 3 4 4 3 3 3 4 4 4 4 12 3 5 5 5 5 5 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2 2 2 2 1 1 1 1 1 2 2 2 1 1 2 2 1 1 1 2 2 1

### CURRICULUM STRUCTURE BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING) ACADEMIC SESSION 2020/2021

COURSE CODE	COURSE COMPONENT	CREDITS	SEMESTE
TOURSE GODE	UNIVERSITY COURSES	OILLDII O	JEMES I E
GIG1012	Philosophy and Current Issues (for local student only)	2	1
GLT1017	Basic Malay Language (for international student)	, DES	100
GIG1013	Appreciation of Ethics and Civilizations	2	2
GIG1003	Basic Entrepreneurship Culture	2	1
GIG1004	Information Literacy	2	2
GIG1005	Social Engagement	2	2
GLTXXXX	English for Communication (1)	3	1
GLTXXXX	English for Communication (2)	3	2
	Co-Curriculum	2	1
	External Faculty Elective	2	1
	Total	20	
COURSE CODE	FACULTY CORE COURSES	CREDITS	SEMESTE
WIX1001	Computing Mathematics I	3	1
WIX1002	Fundamentals of Programming	5	1
WIX1003	Computer Systems and Organization	3	1
WIX2001	Thinking and Communication Skills	3	1
WIX2002	Project Management	3	1
	Total	17	
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COURSE CODE	FACULTY ELECTIVE COURSES (Choose only 2 courses)	CREDITS	SEMESTE
WIX3001	Soft Computing	3	1 or 2
WIX3002	Social Informatics	3	1 or 2
WIX3003	Information Security Management and Ethics	3	1 or 2
WIX3004	Mobile Application Development	3	1 or 2
1401100000	Digital Cinematography	3	1 or 2
WIX3005	Digital Olivernatography	-	
WIX3005	Total	6	
	Total	6	
COURSE CODE	Total  PROGRAMME CORE COURSES	6 CREDITS	
COURSE CODE WIA1001	PROGRAMME CORE COURSES Information Systems	CREDITS 3	SEMESTE 1
COURSE CODE WIA1001 WIA1002	Total  PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002)	CREDITS 3 5	SEMESTE 1 2
COURSE CODE WIA1001 WIA1002 WIA1003	Total  PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002)  Computer System Architecture (#WIX1003)	CREDITS 3 5 3	SEMESTE 1 2 2
COURSE CODE WIA1001 WIA1002	Total  PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002)	CREDITS 3 5	SEMESTE 1 2
COURSE CODE WIA1001 WIA1002 WIA1003	Total  PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002)  Computer System Architecture (#WIX1003)	CREDITS 3 5 3	SEMESTE 1 2 2
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004	Total  PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence	6 CREDITS 3 5 3 3	\$EMESTE 1 2 2 2 2
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004 WIA1005	Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation	6 CREDITS 3 5 3 3 4	\$EMESTE 1 2 2 2 2 2 2
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling	6 CREDITS 3 5 3 3 4 3	1 2 2 2 2 2 1
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics	6 CREDITS 3 5 3 3 4 3 3	SEMESTE  1 2 2 2 2 1 1
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems	6 CREDITS 3 5 3 3 4 4 3 3 3	\$EMESTE 1 2 2 2 2 2 1 1 1 1 1
WIA1001 WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2001 WIA2002 WIA2003 WIA2004	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics	6 CREDITS 3 5 3 3 4 4 3 3 3 4	\$EMESTE 1 2 2 2 2 1 1 1 1 2 2
WIA1001 WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training	6 CREDITS 3 5 3 3 4 4 3 3 3 4 4 4 4 4 4	SEMESTE  1 2 2 2 2 1 1 1 1 2 2 2
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2004 WIA2005 WIA2005	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training Academic Project I **	6 CREDITS 3 5 3 3 4 4 3 3 3 4 4 4 4 12	SEMESTE  1 2 2 2 1 1 1 1 2 2 1
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA3001 WIA3001 WIA3001	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training	6 CREDITS 3 5 3 3 4 4 3 3 3 4 4 4 12	SEMESTE   1
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2004 WIA2005 WIA2005 WIA2005 WIA2005 WIA2005 WIA3001	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training Academic Project I ** Academic Project II (#WIA3002)	6 CREDITS 3 5 3 3 4 4 3 3 3 4 4 4 12 3 5 5	SEMESTE  1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1
COURSE CODE WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training Academic Project I ** Academic Project II (#WIA3002)  **Total**  SPECIALIZATION ELECTIVE COURSES (Choose only 10 courses)	6 CREDITS 3 5 3 3 4 4 3 3 4 4 12 3 5 5 CREDITS	SEMESTE
COURSE CODE  WIA1001  WIA1002  WIA1003  WIA1004  WIA1005  WIA2001  WIA2002  WIA2003  WIA2004  WIA2005  WIA3001  WIA3002  WIA3003  COURSE CODE  WIF2001	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial training Academic Project I " Academic Project II (#WIA3002)  Total  SPECIALIZATION ELECTIVE COURSES (Choose only 10 courses) Human Computer Interaction	6 CREDITS 3 5 3 3 4 4 4 12 3 5 CREDITS 3	SEMESTE
COURSE CODE  WIA1001 WIA1002 WIA1003 WIA1004 WIA1005 WIA2001 WIA2002 WIA2003 WIA2004 WIA2005 WIA2005 WIA3001 WIA3002 WIA3003  COURSE CODE WIF2001 WIF2001	PROGRAMME CORE COURSES  Information Systems Data Structure (#WIX1002) Computer System Architecture (#WIX1003) Fundamentals of Artificial Intelligence Network Technology Foundation Database Software Modeling Probability and Statistics Operating Systems Algorithm Design and Analysis (#WIA1002) Industrial Training Academic Project I ** Academic Project II (#WIA3002)  SPECIALIZATION ELECTIVE COURSES (Choose only 10 courses) Human Computer Interaction Software Requirements Engineering	6 CREDITS 3 3 3 4 4 3 3 3 4 4 4 12 3 5 CREDITS 3 3 3	SEMESTE  1 2 2 2 1 1 1 1 2 2 1 1 2 1 2 1 2 1 1 2 1 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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# AP system @ https://ilmiah.fsktm.um.edu.my



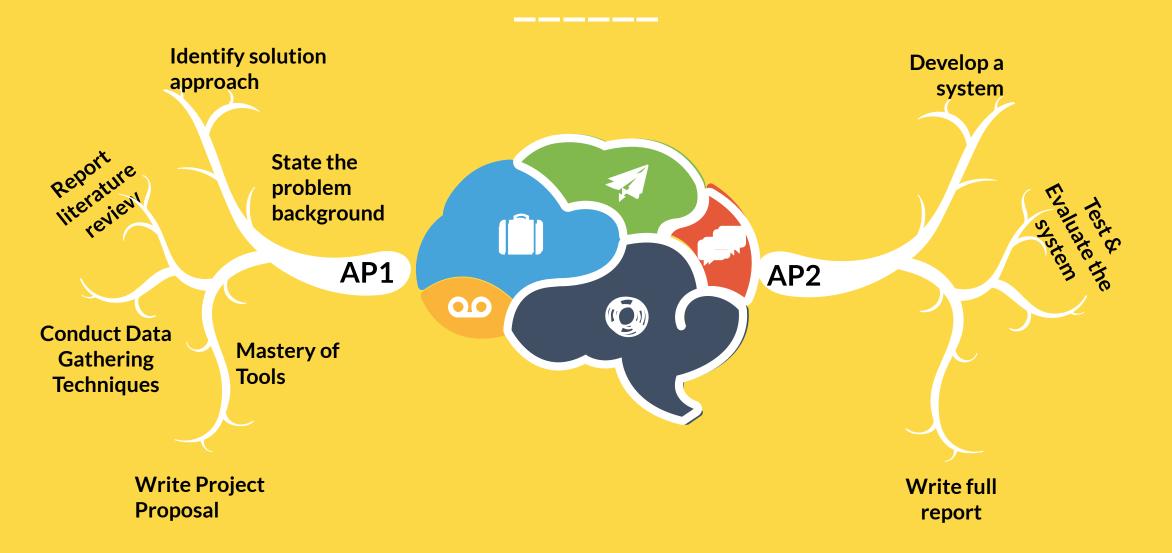


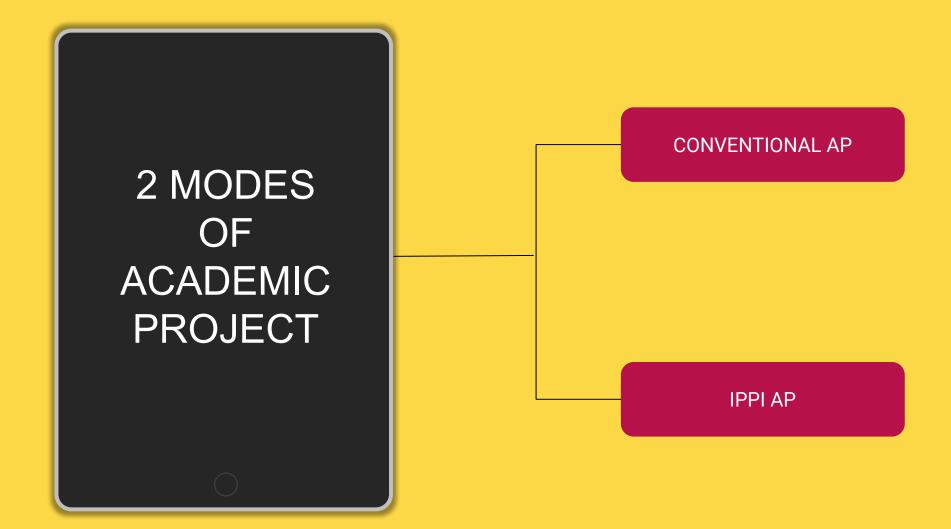
# First Time Login

Academic Project System @ https://ilmiah.fsktm.um.edu.my/

- Username : matrix number (e.g. 14118528)
- Default Password : fsktmnomatrik (e.g. fsktm14118528)

# FOCUS OF ACADEMIC PROJECT I & II





# Innovative Product Project Initiative (IPPI)

# **ABOUT IPPI**



An initiative to produce final year projects that are ready to **commercialize/use** by the target clients/users



Teach, develop, instill and inculcate multiple technology and entrepreneurial skills to the undergraduates



Increase the **involvement of industry** in teaching and learning in the faculty's teaching environment

### **FOCUS OF IPPI**

\_\_\_\_

- Problems and projects come from industry
- Focus on product innovation which has commercial value
- It is a group project

# **COMPARISON**

IPPI	CONVENTIONAL
Multi supervisors per team	1 supervisor
Group	Individual/Group
Compulsory	Not required
Industry	Industry/Community/ Organization
Department	Department
	Multi supervisors per team  Group  Compulsory  Industry

Yes

Yes

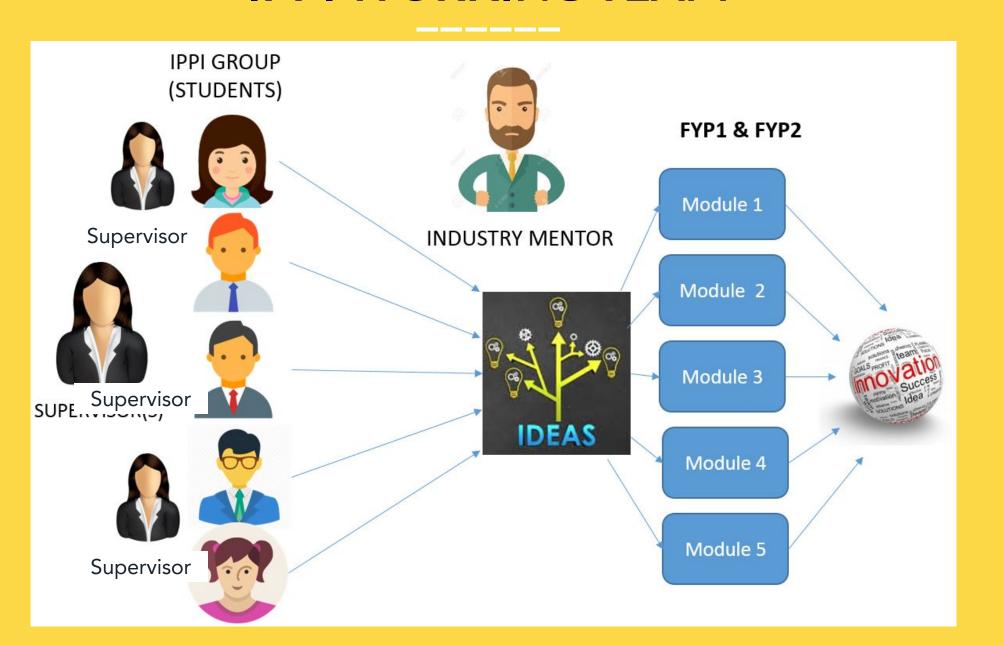
Technical Training/ Industrial Talk

Monitoring Seminar

Yes

Yes

# **IPPI WORKING TEAM**



# INDUSTRIAL COLLABORATORS





































# STUDENTS' RESPONSIBILITIES

Attend Briefing

Attend the briefing on Academic Project by the Coordinator in Week 1

Identify Supervisors

Identify your supervisor and confirm the project title by Week 2

Regular Meetings

 Discussion with project supervisor

 Fill in the Logbook for each meeting with supervisor

Submitting Monitoring Materials

 Attend the monitoring session (Week 8 – Week 10) Attend Viva (COMPULSORY)

Attend viva session
 (Week 13 – Week 14)

Submit Final Academic Report

Submit the final report via e-ilmiah system

\*

**Identify Collaborator/Stakeholder** 

- COMPULSORY
- Industries/NGO/Public & private sectors/Business owners/Domain experts
- Upload collaboration letter into Ilmiah system

# SUPERVISORS' RESPONSIBILITIES

Propose Project Titles
Propose and key-in project titles in e-Ilmiah system (prior to Week 1).

Decide on supervisee

Decide on students to supervise and to assign student to project title in e-ilmiah System.

### Regular Meetings

- Supervise and coach students to implement the project
- Discussion with students about project progress
- to record attendance

**Evaluate Report** 

- evaluate report submitted by supervisee
- Enter report evaluation marks in e-ilmiah system

# PANEL RESPONSIBILITIES

Pane

### **Panel of Monitoring Sessions**

- Assess the work carried out by students assigned
- Enter evaluation in e-ilmiah system

02

### **Evaluate Viva**

- Attend assigned students' viva sessions
- Perform question and answer during viva sessions
- Enter viva evaluation marks in e-ilmiah system

# COORDINATOR RESPONSIBILITIES

01

### **Project Titles**

- Request department/unit academic staffs to propose AP titles in the e-ilmiah system
- Delegate all proposed titles to appointed academic staffs to review the projects proposed
- Approve all reviewed proposed project titles in e-ilmiah system

02

### **Assign Panels**

Assign academic staff as panels for monitoring and viva sessions in e-ilmiah system

Arrange Schedules

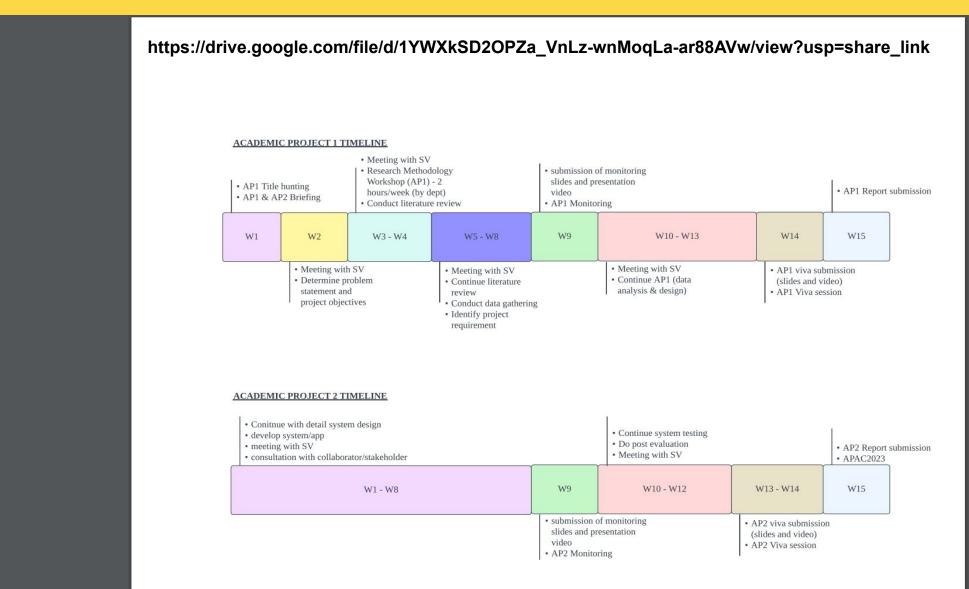
- Arrange monitoring and viva sessions schedules
- Inform schedules to supervisors, panels and students via emails, announcements in e-ilmiah and/or Spectrum platform.

04

### Report

- Extract marks from e-ilmiah system
- Generate report on evaluation marks
- Submit reports to Head Coordinator

# AP1 2023/2024 TIMELINE



# WIA/WIB3002 (AP1) Journey

Week	Activities
1-8	<ul> <li>Discussion preliminary requirement to start on the project with respective supervisor</li> <li>Carry out literature review (related research papers/previous works), data collection, data analysis, identify project functional and non-functional requirements, ,</li> <li>Discussion with project stakeholders</li> <li>Report 1 writing</li> </ul>
9	Monitoring session
10-13	<ul> <li>Improvement on system based on feedback (monitoring session)</li> <li>develop mini prototype (including few workable functions using the programming language(s), platform, dbs identified)</li> <li>Discussion with supervisor and stakeholder for testing</li> <li>Finalizing Report 1 writing</li> <li>Preparation for final AP1 presentation and viva</li> </ul>
14	AP1 presentation and viva
14/15	Report submission via Ilmiah System

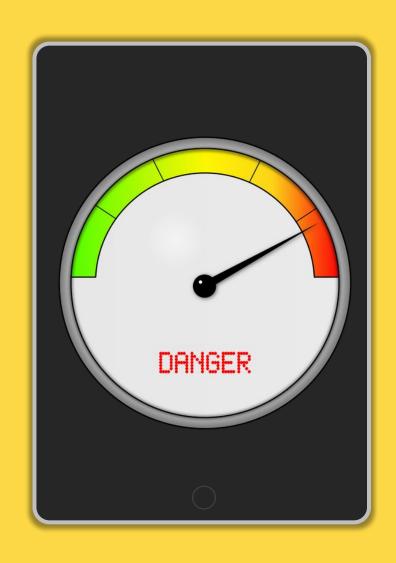
# WIA/WIB3003 (AP2) Journey

Week	Activities
1-8	<ul> <li>Discussion on detail design and system implementation with supervisor</li> <li>Continue develop the system and continuously demo the system to supervisor</li> <li>Discussion with project stakeholders</li> <li>Report writing</li> </ul>
9	Monitoring session
9-13	<ul> <li>Improvement on system based on feedback (monitoring session)</li> <li>Discussion with supervisor and stakeholder for testing</li> <li>Conduct User Acceptance Test</li> <li>Finalizing Report writing</li> <li>Preparation for final AP2 presentation and viva</li> </ul>
14	AP2 presentation and viva
15	Report submission via Ilmiah system

# **EVALUATION (100% Continuous Assessment)**

	Course Code & Title	Assessment Method	Weightage	Assessor
1	WIA/WIB3002 Academic Project 1	Monitoring	10	2 x Panels (Dept)
		Viva	50	2 x Panels (Dept)
		Report	40	Supervisor
		Total	100	
2	WIA/WIB3003 Academic Project 2	Monitoring	10	2 x Panels (Dept)
		Viva	50	2 x Panels (Dept)
		Report	40	Supervisor
		Total	100	

• Viva: 30 minutes session-individual



# <u>IMPORTANT REMINDER</u>

### If the student

- FAIL to attend, or
- FAIL the viva, or
- FAIL to submit the report,

The student will be considered as <u>FAIL in the Academic Project!</u>

# MAIN BODY OF REPORT AP1

### Chapter 1:

- Introduction to relevant project/title: In the introduction, students must introduce the subject of the project. It should give some insight into the structure of the report. Some general remarks including problems and existing works must be included.
- Problem statements
- Project objectives (and module objectives if it is a group project)
- Project timeline
- Chapter 2: Literature review
- Chapter 3: Research methodology
- Chapter 4: System analysis and design (Project requirements and initial
- design)

# **EXCELLENCE ACADEMIC PROJECT AWARD (APAC)**

every session

**Excellent Project-A'** 

competition

Only excellent projects are

selected to enter APAC



# **EXCELLENCE ACADEMIC PROJECT AWARD (APAC)**

To motivate students to produce excellent projects.

The objectives of APAC are to:

- 1. steer the competition spirits amongst students to produce good/quality systems.
- 2. acknowledge the effort of the students in designing and developing good systems.
- 3. identify good projects for other students' references and exhibitions.
- **4.** promote good projects for competitions, exhibitions, and intellectual property (IP).



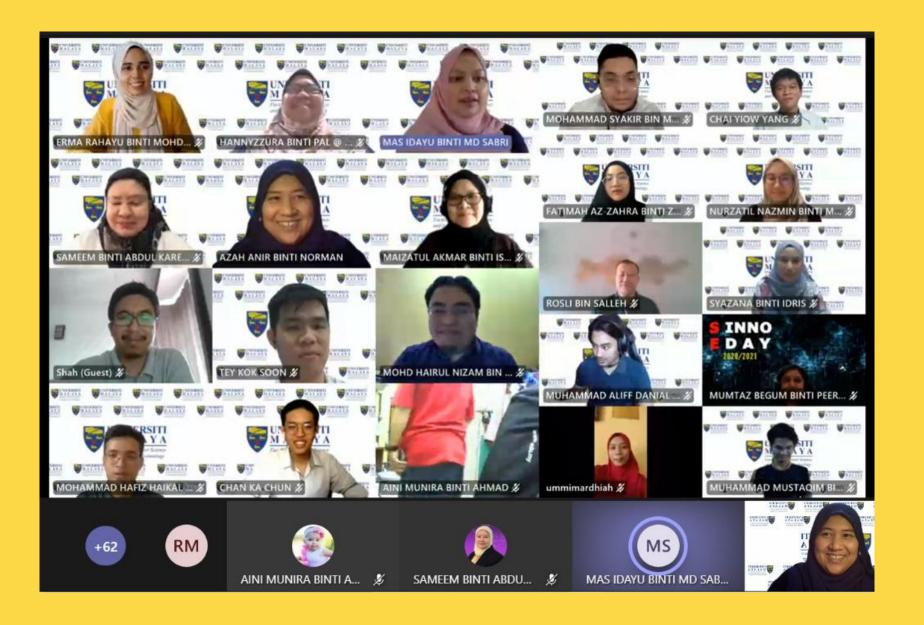
# **EXCELLENCE ACADEMIC PROJECT AWARD (APAC)**





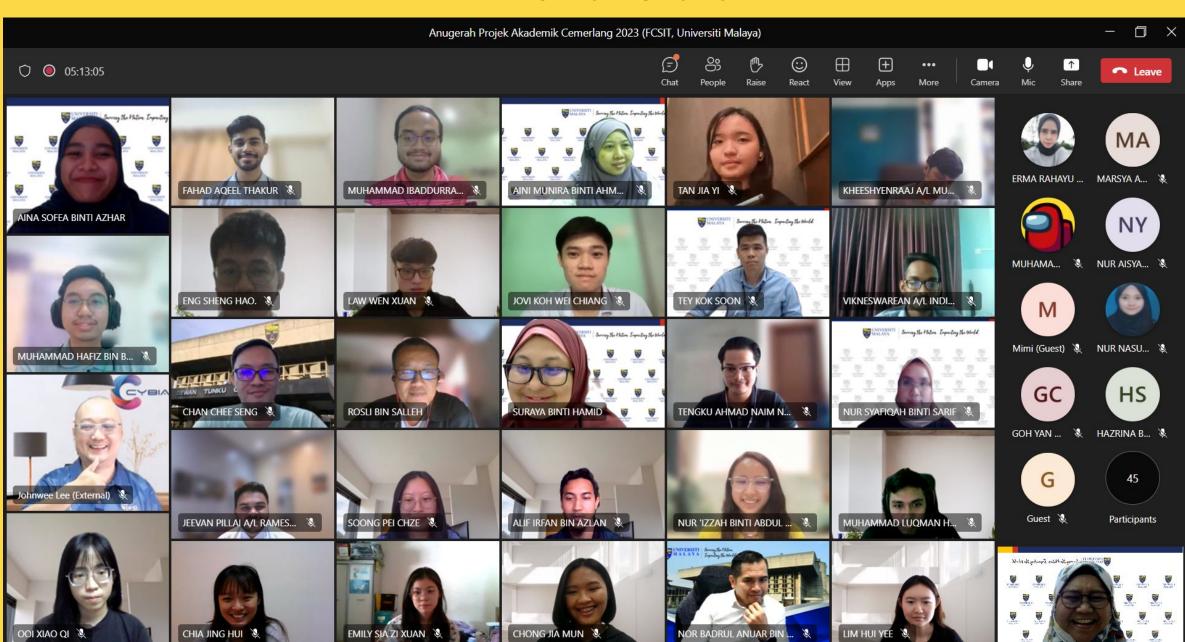




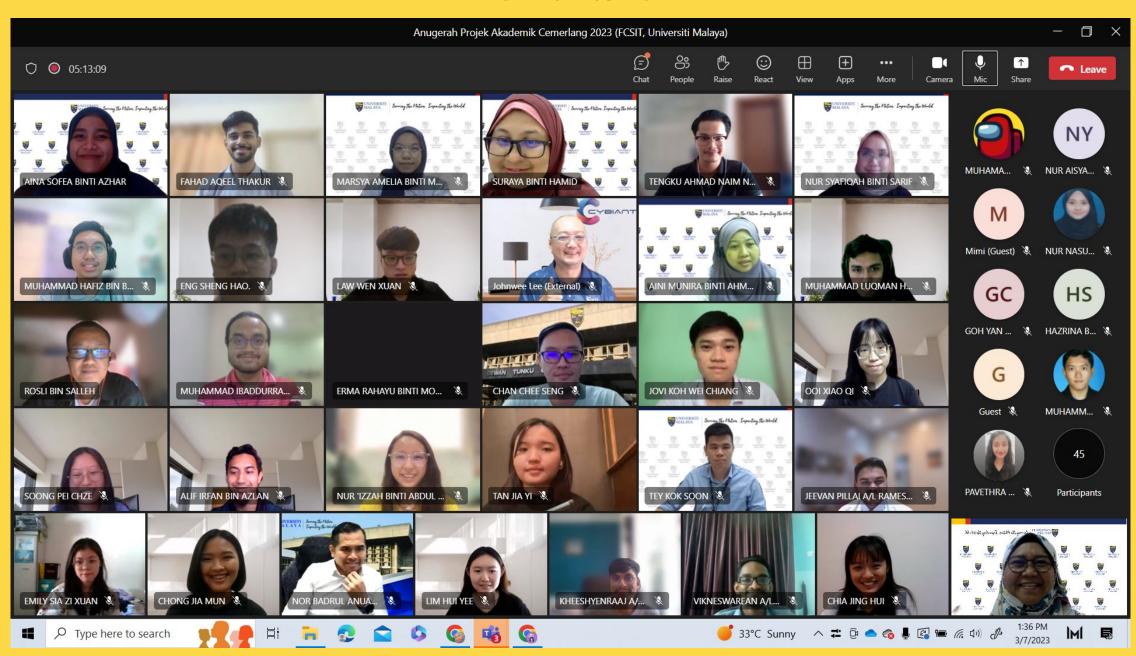


# **APAC** 2020/2021

### **APAC 2022/2023**



### APAC 2023/2024



# APAC 2023 Winner link: <a href="https://rb.gy/gp8abd">https://rb.gy/gp8abd</a>

### **GET IT IN TOUCH**

### **FYP Coordinators & IPPI Team**

(Head Coordinator / MM Unit)

Madam Hannyzzura Affal

hannyz@um.edu.my

(SE Dept)

AP Ts Dr Sri Devi

sdevi@um.edu.my

(IS Dept)
Dr. Hazrina Sofian
hazrina@um.edu.my

(Al Dept)
Dr. Nurul Japar
nuruljapar@um.edu.my

(STK Dept)
Dr. Tey Kok Soon
koksoon@um.edu.my

