

Bachelor of Electronic Systems Engineering with Honours (UT6523004)

11th October 2022



By:

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UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Malaysia-Japan
International
Institute of Technology
(MJIT)

WELCOME TO

Department of Electronic Systems Engineering (ESE)

Bachelor of Electronic Systems Engineering with Honours Sarjana Muda Kejuruteraan Sistem Elektronik dengan Kepujian (UT6523004)

Award / Teaching Institution



UTM
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Nurturing Values, Empowering Minds



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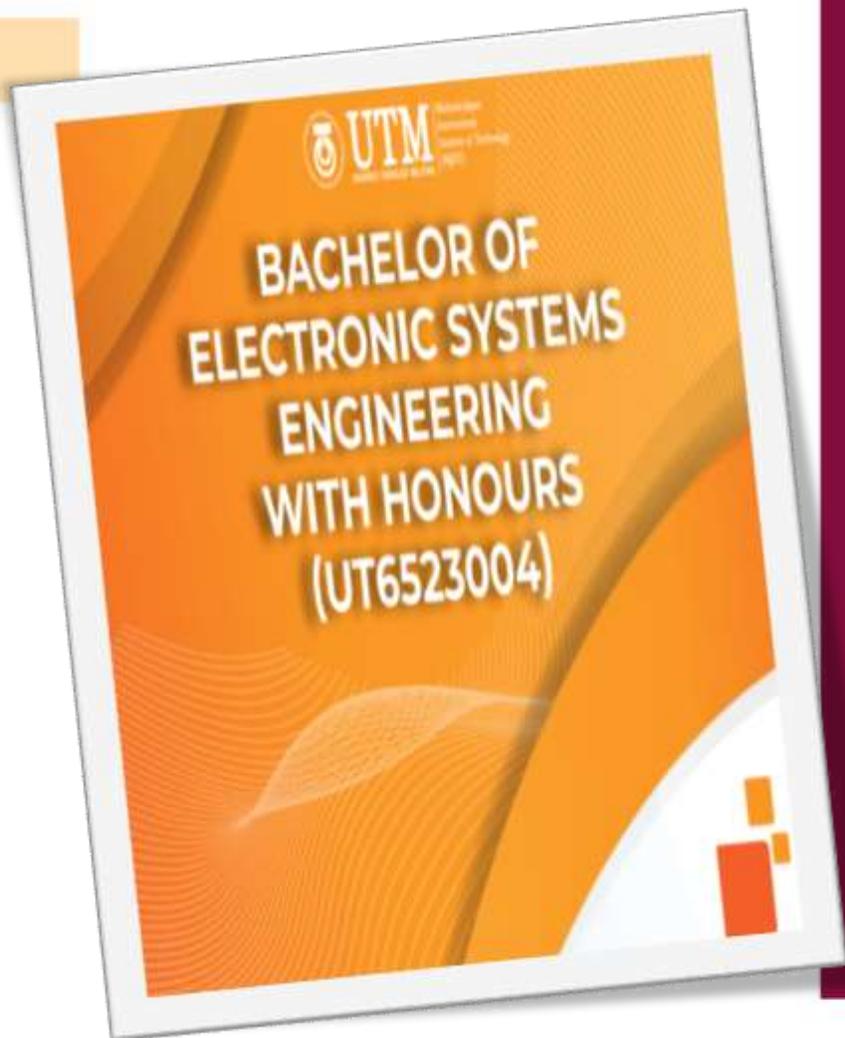
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ESE ACADEMIC STAFF & CARE TAKER

MEET the ESE Academic Staff

Mixed good blend of academic background from Malaysia, Japan, UK and US



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Head of Department ESE

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Academic Advisor

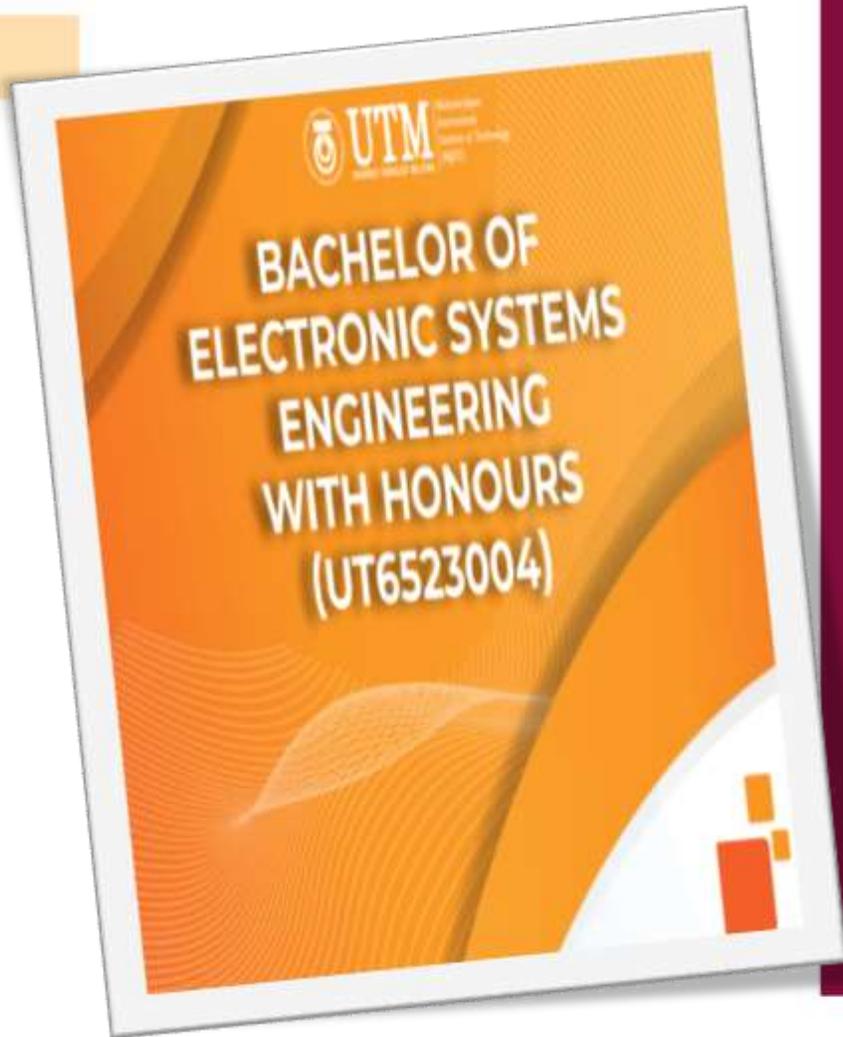
Academic Advisory System

Objectives:

- (i) To guide and assist students in adapting themselves to the academic system of the University, especially at the initial stage.
- (ii) To advise students in academic related problems such as workload, selection of courses and to explain the aim and purpose of the courses.
- (iii) To identify and provide counselling to students as well as to develop a balanced character and positive attitude among students.
- (iv) To act as a link between students and MJIT management.

Students should consult AA on the following matters:

- (i) To obtain information on the semester system and other matters related to their study, during the first week of each semester.
- (ii) To obtain endorsement for registration or withdrawal of courses.
- (iii) To seek advice in planning for their study, particularly in terms of course selection, total number of credits and Duration of Study.
- (iv) To obtain endorsement for application of graduation award.



ESE PROGRAM

innovative • entrepreneurial • global

Our Programme

Bachelor of Electronic Systems Engineering with Honours



ENGINEERING ACCREDITATION COUNCIL MALAYSIA

- **Accredited** by Engineering Accreditation Council (EAC)
- Washington Accord (WA) allows the students to **work globally**
- 4 years program, 2 semester per year with total of 8 semesters



BACHELOR OF ELECTRONIC SYSTEMS ENGINEERING WITH HONOURS



1. Awarding Institution		Universiti Teknologi Malaysia		
2. Teaching Institution		Universiti Teknologi Malaysia		
3. Program Name		Bachelor of Electronic Systems Engineering with Honours		
4. Final Award		Bachelor of Electronic Systems Engineering with Honours		
5. Program Code		UT6523004		
6. Professional or Statutory Body of Accreditation		Board of Engineers Malaysia (BEM)		
7. Language(s) of Instruction		Bahasa Malaysia and English		
8. Mode of Study (Conventional, distance learning, etc)		Conventional, Online		
9. Mode of operation (Franchise, self-govern, etc)		Self-governing		
10. Study Scheme (Full Time/Part Time)		Full Time		
11. Study Duration		Minimum : 4 yrs Maximum : 6 yrs		
Type of Semester	No. of Semesters		No. of weeks per semester	
	Full Time	Part Time	Full Time	Part Time
Normal	8	-	14	-
Short	1	-	10	-

12. Classification of Courses

No.	Classification	Credit	Percentage (%)
A.	Program Core	91	67%
B.	Program Electives	23	17%

C.	General / University Courses		
	a. Management/Economics/Humanities/Ethics	10	16%
	b. Language – English and Japanese	10	
	c. Co-curriculum/Service Learning	2	
	Total	136	100
<i>For sciences programme, please fill up the following classification.</i>			
No	Classification	Credit	Percentage (%)
A	Engineering Courses		
	(a) Lectures	81	
	(b) Laboratory	6	
	(c) Final Year Project	6	
	(d) Industrial training	6	
	Total credit for Part A	99	73%
B	Related Courses		
	(a) Applied Science/Math	15	
	(b) Management/Economics/Humanities/Ethics	10	
	(c) Co-Curriculum	2	
	(d) English	4	
	(e) Japanese	6	
	Total credit for Part B	37	27%
	Total credit for Parts A and B	136	100%
	13. Total credit to graduate	136	credits

BACHELOR OF ELECTRONIC SYSTEMS ENGINEERING WITH HONOURS

CURRICULUM

Program Codes and Abbreviations

The curriculum for the Bachelor of Electronic Systems Engineering is given in the following tables. The courses are arranged according to the semester in which they are offered. Students are strongly encouraged to enroll in the courses according to the proposed arrangement. Students may not graduate on time should they fail or withdraw from the courses offered.



Alphabet	Description
S	Type of award for the program (Bachelor degree)
MJ	Faculty/ Centre offering the program (MJIIT)
E	<u>Specialisation (Electronic Systems)</u>

Numeric	Description
1 st	Year of program
2 nd	Field of course
3 rd	Course sequence
4 th	Course credits



Year 1 Semester 1


Code	Course	Credits	L	T	P/S	Lab
SMJE 1013	PROGRAMMING FOR ENGINEER	3	2			3
SMJE 1023	FUNDAMENTAL OF ELECTRICAL CIRCUITS	3	3	1		
SMJE 1032	INTRODUCTION TO ELECTRONIC SYSTEM ENGINEERING	2	1		3	
SMJE 1113	DIGITAL ELECTRONICS	3	3	1		
SMJM 1013	ENGINEERING MATHEMATICS I	3	3	1		
UHMS 1182	APPRECIATION OF ETHICS AND CIVILISATIONS <i>*(for local students)</i>	2	2			
UHLM 1012	MALAY LANGUAGE FOR COMMUNICATION II <i>*(for International student)</i>	2	2			
UHLB 1112	ENGLISH COMMUNICATION SKILLS	(HW)	2			
Total Credits		18				

Year 1 Semester 2

Code	Course	Credits	L	T	P/S	Lab
SMJE 1043	MEASUREMENT AND INSTRUMENTATION	3	3	1		
SMJE 1103	ELECTRICAL POWER SYSTEM	3	3	1		
SMJE 2062	ELECTRONIC ENGINEERING LABORATORY 1	2				4
SMJM 1023	ENGINEERING MATHEMATICS II	3	3	1		
UHLX 1122	JAPANESE FOR COMMUNICATION I (SHLJ1152)	2	2			
UMJT 2142	PROFESSIONAL ETHICS & SAFETY (NINGEN-RYOKU)	2	2			
ULRS 1012	VALUE AND IDENTITY	2	2			
Total Credits		17				

Year 2 Semester 3

Code	Course	Credits	L	T	P/S	Lab
SMJE 2083	ELECTRONIC CIRCUITS	3	3	1		
SMJE 2173	DIGITAL SYSTEM DESIGN	3	2			3
SMJM 2033	ENGINEERING MATHEMATICS III	3	3	1		
SHLJ 2252	JAPANESE FOR COMMUNICATION II	2	1	2		
UHS 1022	PHILOSOPHY AND CURRENT ISSUE <i>*(for local & international students)</i>	2				
UHLB 2122	ADVANCED ACADEMIC ENGLISH SKILLS	2	2			
	FREE ELECTIVE COURSE 1	2				
Total Credits		17				

Year 2 Semester 4

Code	Course	Credits	L	T	P/S	Lab
SMJE 2053	CIRCUITS AND SIGNALS	3	3	1		
SMJE 2073	ELECTROMAGNETICS	3	3	1		
SMJE 2122	ELECTRONIC ENGINEERING LABORATORY 2	2				4
SMJE 2133	ELECTRONICS SYSTEM	3	3	1		
SMJM 2043	ENGINEERING STATISTICS	3	3	1		
SHLJ 2352	JAPANESE FOR COMMUNICATION III	2	2			
UKQF 2**2	CO-CURRICULUM / SERVICE LEARNING	2			3	
Total Credits		18				

Code	Course	Credits	L	T	P/S	Lab
SMJE 3143	COMMUNICATION ELECTRONICS	3	3			
SMJE 3153	CONTROL SYSTEM	3	3			
SMJE 3183	MICROPROCESSOR AND MICROCONTROLLER	3	2			3
SMJE 3813	MONOZUKURI PROJECT	3			9	
SMJM 3053	NUMERICAL METHODS	3	3	1		
ULRS 3032	ENTREPRENEURSHIP AND INNOVATION	2	2			
Total Credits		17				

Code	Course	Credits	L	T	P/S	Lab
SMJE 3163	DIGITAL SIGNAL PROCESSING	3	3			
SMJE 3192	ELECTRONIC ENGINEERING LABORATORY 3	2				6
SMJE 3303	INTEGRATED DESIGN PROJECT	3			9	
SMJE 3093	COMPUTER ARCHITECTURE AND MULTIMEDIA TECHNOLOGY	3	3			
UHLB 3162	ENGLISH FOR PROFESSIONAL PURPOSES	2	2			
	FREE ELECTIVE COURSE 2	3	3	1		
Total Credits		16				

Code	Course	Credits	L	T	P/S	Lab
SMJG 3206	INDUSTRIAL TRAINING	6			18	
Total Credits		6	0	0	18	0

Year 4 Semester 7

Code	Course	Credits	L	T	P/S	Lab
SMJE 4912	FINAL YEAR PROJECT 1	2			2	
SMJE 3203	ARTIFICIAL INTELLIGENCE	3	3			
SMJE 4**3	ELECTIVE 1	3	3			
SMJE 4**3	ELECTIVE 2	3	3			
SMJE 4**3	ELECTIVE 3	3	3			
SMJE 4212	NINGEN RYOKU (SPECIAL LECTURE)	2	2			
	Total Credits	16				

Year 4 Semester 8

Code	Course	Credits	L	T	P/S	Lab
SMJE 4924	FINAL YEAR PROJECT 2	4			4	
SMJE 4**3	ELECTIVE 4	3	3			
SMJE 4**3	ELECTIVE 5	3	3			
SMJE 4**3	ELECTIVE 6	3	3			
	Total Credits	13				

ELECTIVE COURSES

CHOOSE SIX (6) ONLY FROM ANY GROUP

GROUP 1
COMMUNICATION

CODE	COURSE	CREDIT
SMJE 4113	OPTICAL COMMUNICATION	3
SMJE 4123	RADIO WAVE AND ANTENNA	3
SMJE 4133	WIRELESS AND MOBILE COMMUNICATION	3
SMJE 4343	DATA TRANSMISSION	3

GROUP 2
INDUSTRIAL AUTOMATION SYSTEM

CODE	COURSE	CREDIT
SMJE 4233	INDUSTRIAL HYDRAULICS AND PNEUMATICS	3
SMJE 4243	CONTROL SYSTEMS DESIGN	3
SMJE 4253	POWER ELECTRONICS AND DRIVES	3
SMJE 4263	COMPUTER INTEGRATED MANUFACTURING	3
SMJE 4293	INDUSTRIAL AUTOMATION	3

GROUP 3
BIO-ELECTRONIC SYSTEM

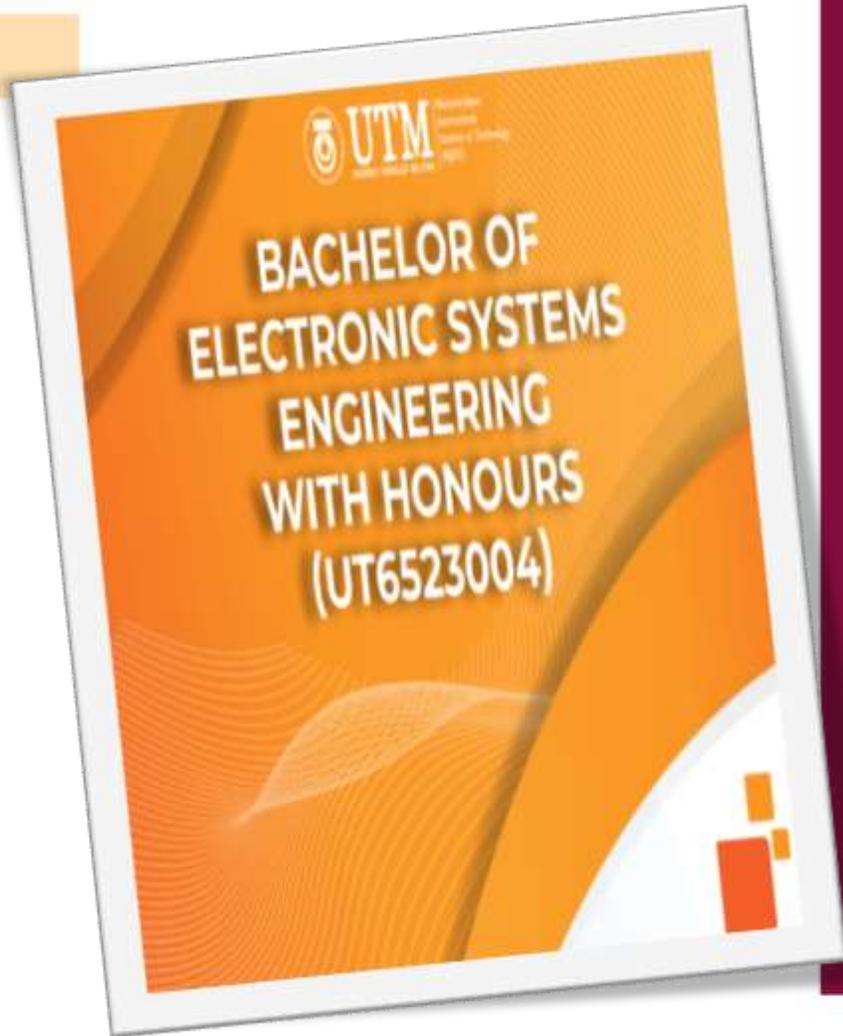
CODE	COURSE	CREDIT
SMJE 4303	INTRODUCTION TO BIO-ENGINEERING	3
SMJE 4313	IMAGE PROCESSING	3
SMJE 4333	BIOMEDICAL IMAGING SYSTEM	3
SMJE 4353	ROBOTICS	3

GROUP 4
EMBEDDED SYSTEM

CODE	COURSE	CREDIT
SMJE 4383	ADVANCED PROGRAMMING	3
SMJE 4393	REAL TIME SYSTEMS	3
SMJE 4403	MECHATRONIC SYSTEM DESIGN	3
SMJE 4423	EMBEDDED SYSTEMS DESIGN	3

GROUP 5
MATERIAL AND DEVICE

CODE	COURSE	CREDIT
SMJE 4513	SEMICONDUCTOR MATERIAL ENGINEERING	3
SMJE 4523	SEMICONDUCTOR DEVICE ENGINEERING	3
SMJE 4533	SOLID STATE ELECTRONICS	3
SMJE 4543	ELECTRONIC DEVICE FABRICATION AND CHARACTERIZATION	3



CREDIT TRANSFER

Credit Transfer – Diploma Students

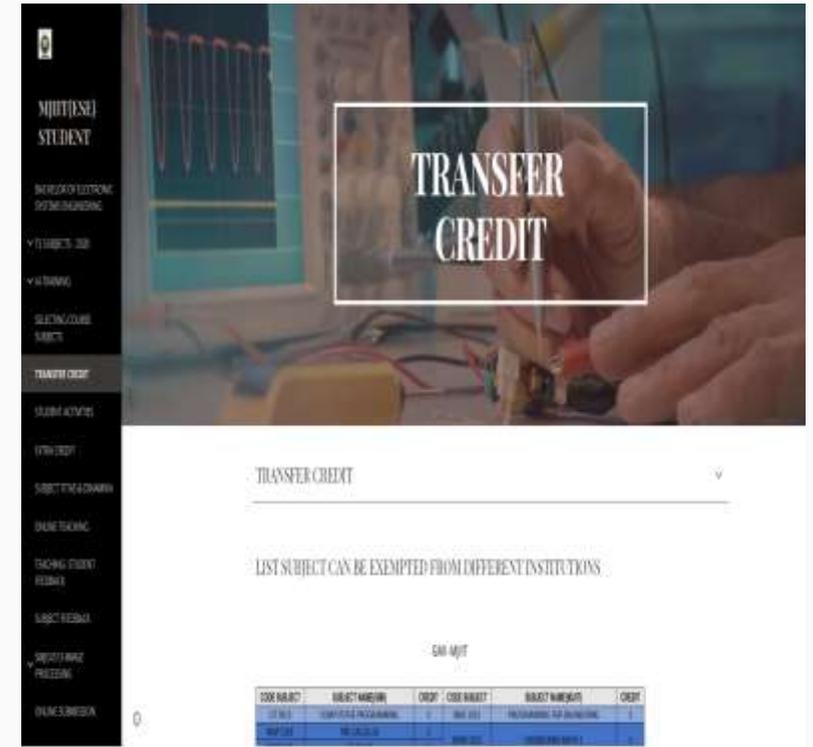
Here is the following steps:

Step 1: Open <https://sites.google.com/utm.my/mjiitese-student/academic-matters/transfer-credit?authuser=0>

Step 2: Download the transfer credit form ----
 > <https://amd.utm.my/ug-forms/>

Step 3: Fill up the form → Credit Transfer Form

Step 4: Email to Academic Advisor

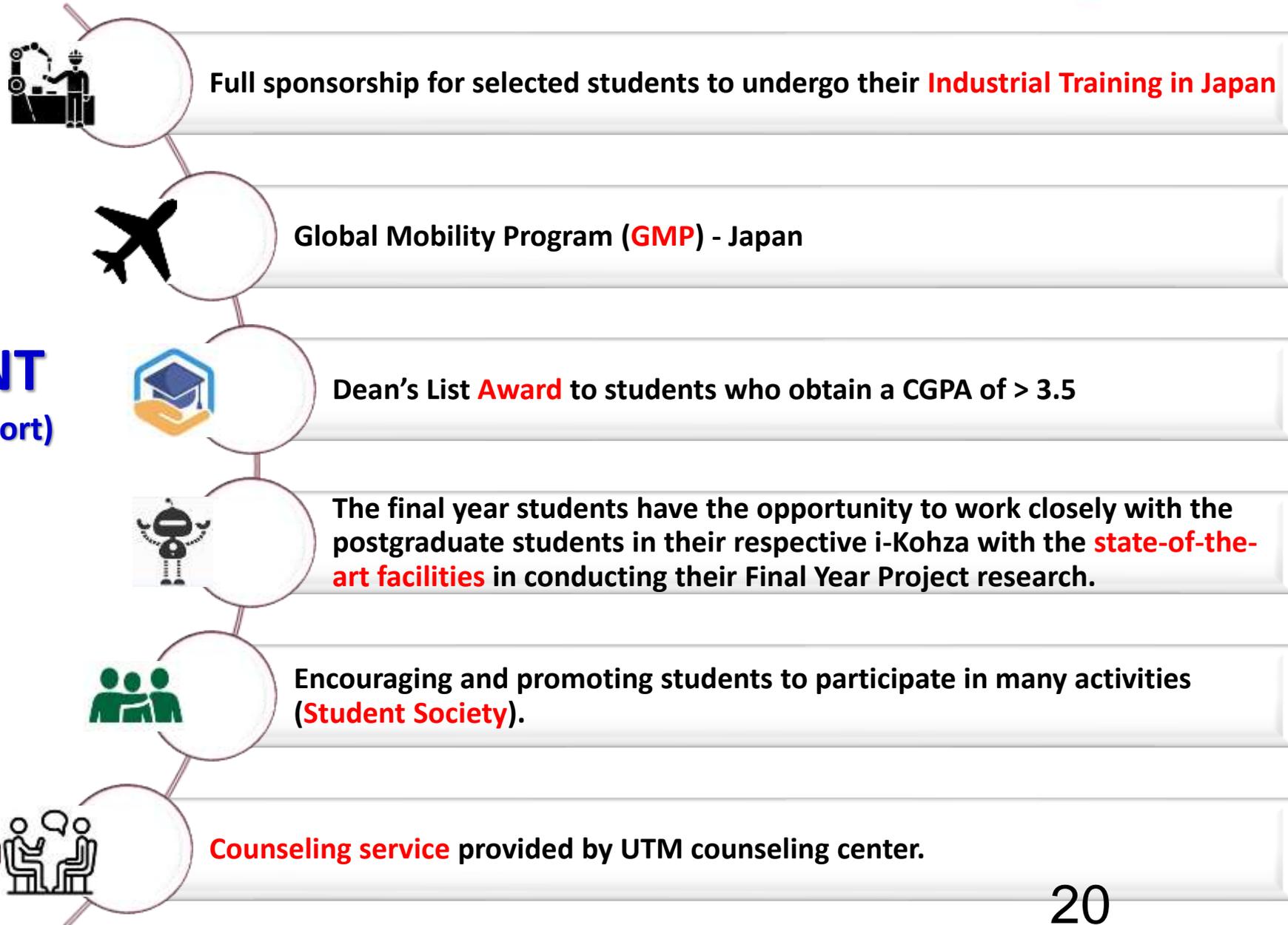


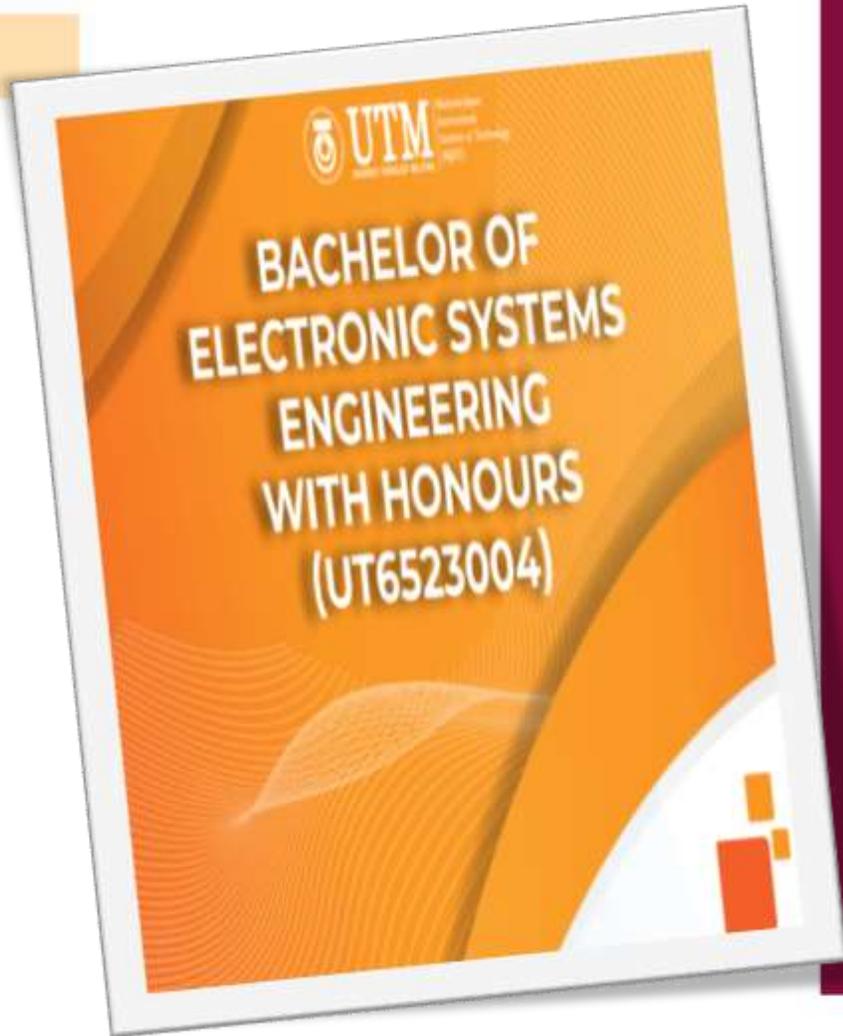
Flow chart for Credit Transfer



T&L ENVIRONMENT

(Opportunities/Motivation/Support)





GRADE ASSESSMENT

Condition for Passing the Course

PERATURAN AKADEMIK

PROGRAM SARJANA MUDA PENGAJIAN SEPENUH MASA

Marks	Grade	Value Point
90 – 100	A+	4.00
80 – 89	A	4.00
75 – 79	A-	3.67
70 – 74	B+	3.33
65 – 69	B	3.00
60 – 64	B-	2.67
55 – 59	C+	2.33
50 – 54	C	2.00
45 – 49	C-	1.67
40 – 44	D+	1.33
35 – 39	D	1.00
30 – 34	D-	0.67
00 - 29	E	0.00

A student's performance is assessed using both GPA and CGPA

$$\text{GPA} = \frac{\text{Total Credit Point of particular semester}}{\text{Total Credit Counted of a particular semester}}$$

$$\text{CGPA} = \frac{\text{Total Credit Point value of all semesters}}{\text{Total Credit Counted of all semesters}}$$

A student's academic standing is determined at the end of every regular semester based on his/her CGPA is as shown in **Table 4** below:

Table 4: Academic CGPA

Standing	CGPA
Pass (KB)	CGPA \geq 2.00
Conditional(KS)	1.70 \leq CGPA < 2.00
Fail (KG) (Dismissal)	CGPA < 1.70

With approval from the Senate, a student who obtains a GPA < 1.00, but maintains a CGPA > 1.70 can:

- (i) continue his/her study; or
- (ii) be suspended in the following semester; or
- (iii) be dismissed from the programme.

Computation of GPA and CGPA

Example of GPA calculation for first year student:

Semester 1					
Course	Credit Counted (k)	Marks (%)	Grade	Grade Points (m)	Total Grade Points (k·m)
SMJE 1013	3	78	A-	3.67	11.01
SMJE 1023	3	72	B+	3.33	9.99
SMJE 1032	2	80	A	4.00	8.00
SMJM 1013	3	75	A-	3.67	11.01
ULAB 1412	2	89	A	4.00	8.00
UKQS 1**1	1	71	B+	3.33	3.33
SMJG 1012	2	80	A	4.00	8.00
	16				59.34

Total Credit Counted (TCC) = 16

Total Grade Points (TGP) = 59.34

GPA = $TGP \div TCC = \frac{59.34}{16} = 3.71$; for Semester 1, CGPA = GPA

Example of CGPA calculation

Semester 2

Course	Credit Count (k)	Marks (%)	Grade	Grade Points (m)	Total Grade Points (k·m)
SMJE 1043	3	86	A	4.00	12.00
SMJE 1053	3	80	A	4.00	12.00
SMJE 1063	2	86	A	4.00	8.00
SMJM 1023	3	76	A-	3.67	11.01
ULAB 1**2	2	72	B+	3.33	6.66
UHAS 1152	2	86	A	4.00	8.00
UKQ* 1**1	1	90	A+	4.00	4.00
	16				61.67

$$\begin{aligned}
 \text{Total Credit Counted (TCC) for Semester 2} &= 16 \\
 \text{Total Grade Point (TGP) for Semester 2} &= 61.67 \\
 \text{GPA for Semester 2} &= \frac{61.67}{16} = 3.85 \\
 \text{CGPA for semester 2} &= \frac{59.34 + 61.67}{16 + 16} = 3.78
 \end{aligned}$$

Award and Recognition

AWARD RECOGNITION	CGPA
First Class	3.67 – 4.00
Second Class Upper	3.00 – 3.66
Second Class Lower	2.00 – 2.99

The Royal Academic Prize

The prize is contributed by the Office of the Keeper of the Royal Seal. The prize is awarded to one (1) Bumiputra and one (1) Non-Bumiputra graduates who have obtained a First Class Degree and are actively involved in co-curricular activities. The prize includes cash of RM2, 500, a certificate and a medal.

The Chancellor's Award

This award is bestowed to the best two (2) graduates who have obtained a First Class Honours Degree. The award consists of cash, a certificate and a medal.

The Vice-Chancellor's Award

This award is bestowed to the best graduate who has obtained a First Class Honours Degree from each faculty. The award consists of cash, a certificate and a medal.

The Alumni's Prize

The prize is given to the best graduate from each faculty. The prize consists of cash and a certificate.

The Academic Prize

The prize is given to the best graduate for each programme in each faculty. The prize is contributed by Statutory and Professional Bodies and Private Companies. The prize consists of cash, a medal and a book or Certificate of Appreciation.

The Dean's List

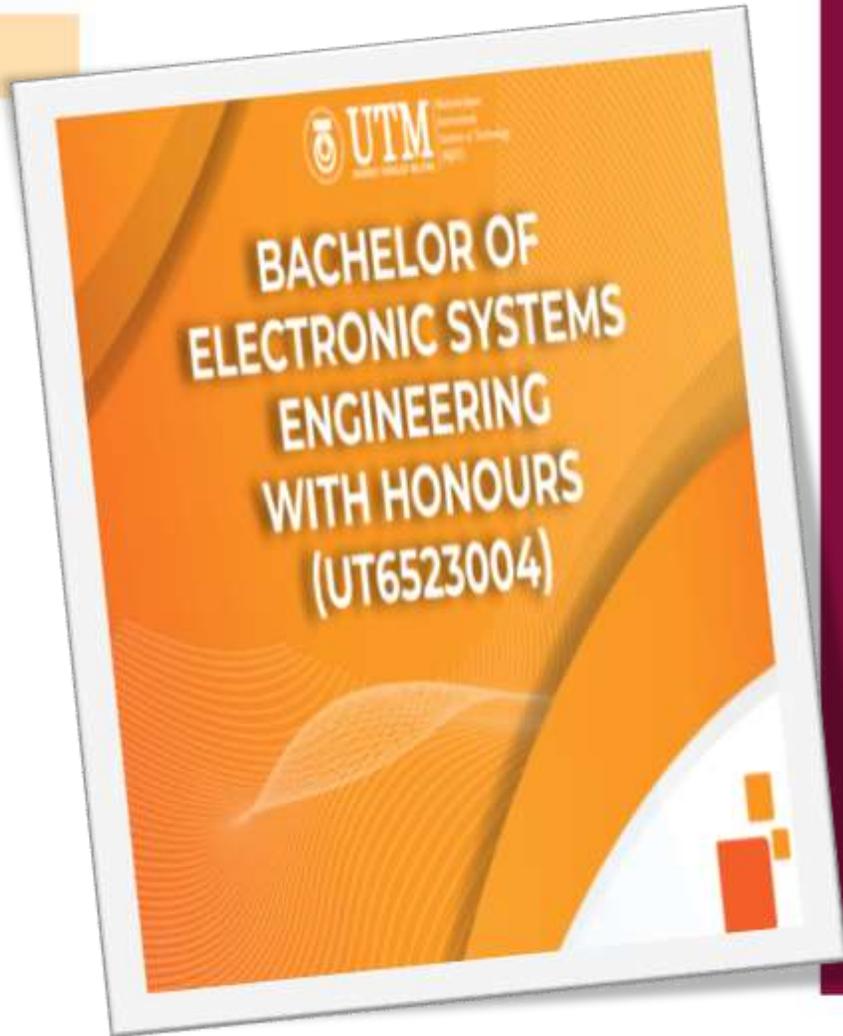
A student who obtains a GPA of 3.50 and above will be awarded a Dean's List Certificate, provided that he/she has registered for at least 12 credit hours for that semester excluding courses with HS and HW status. The remark "Dean's List" will be printed on the student's transcript.

The Head Department's List

A student who obtains a GPA of 3.00-3.49 will be awarded a Head Department's List Certificate, provided that he/she has registered for at least 12 credit hours for that semester excluding courses with HS and HW status.

Marzuki Khalid Award

This award is bestowed annually to the best MJIT graduates having high achievement in academic and co-curricular activities who obtained First Class Honours Degree. The award includes RM 1000.00 and a certificate.



STUDENT ACTIVITIES

innovative • entrepreneurial • global

CO-CURRICULAR ACTIVITIES



Student society



Japan Day at MJIT



Leadership Lecture Series



Professional Bodies Engagement



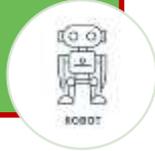
Global Outreach Programme (GOP)



Industrial visits



Robotic Competition



Career fair



Sports Day



MJIIT UG STUDENT SOCIETIES

SMJE : ELECSYS

Elecsys Activities

- ✓ Annual Grand Meeting
- ✓ Senpai Kohai Session
- ✓ Elecsys Team Building, Port Dickson
- ✓ Graduate Employability Programme : Basic Air Cond Maintenance
- ✓ Sports Day
- ✓ many more...





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Malaysia-Japan
International
Institute of Technology
(MJIT)

ROBOCUP COMPETITION



ROBOCUP ASIA PACIFIC 2018 IN KISH ISLAND, IRAN.

- Incorporating project in our Capstone Design Course for UG students
- Incorporating R&D for PG students
- Teamwork among UG and PG students (Senpai-Kohai)
- Multidisciplinary: Involves many *i-Kohzas* in MJIT
- **In Collaboration** with Shibaura Institute of Technology (Prof. Arai) and Tokyo University (Assoc. Prof. Dr. Tan)

SENPAI KOHAI SESSION



ELECSYS TEAM BUILDING, PORT DICKSON



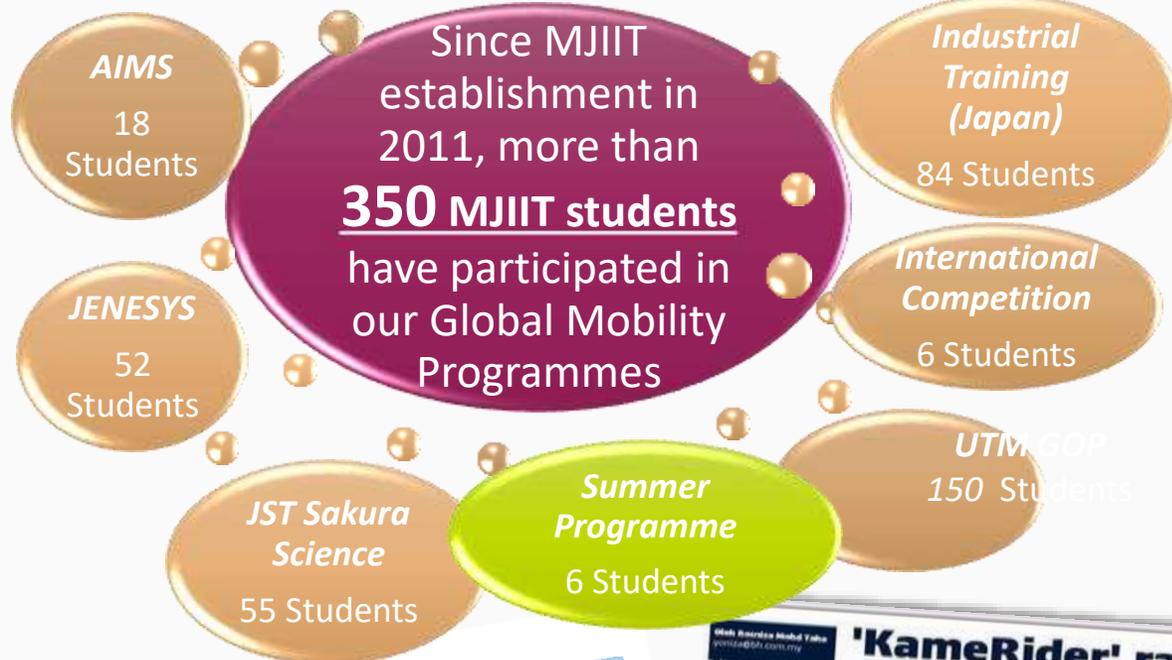
BASIC AIRCOND MAINTENANCE



MJIIT SPORT'S DAY



Mobility Programmes in MJIT



School in Japan : AIMS (Credit Transfer)



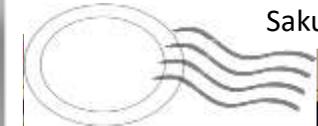
Cultural Exchange Program : JENESYS



12 Weeks Industrial Training in Japan

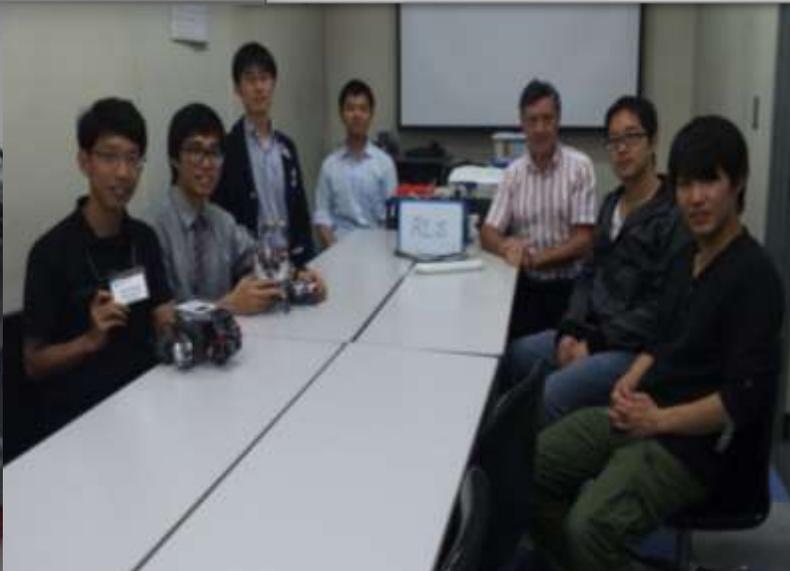
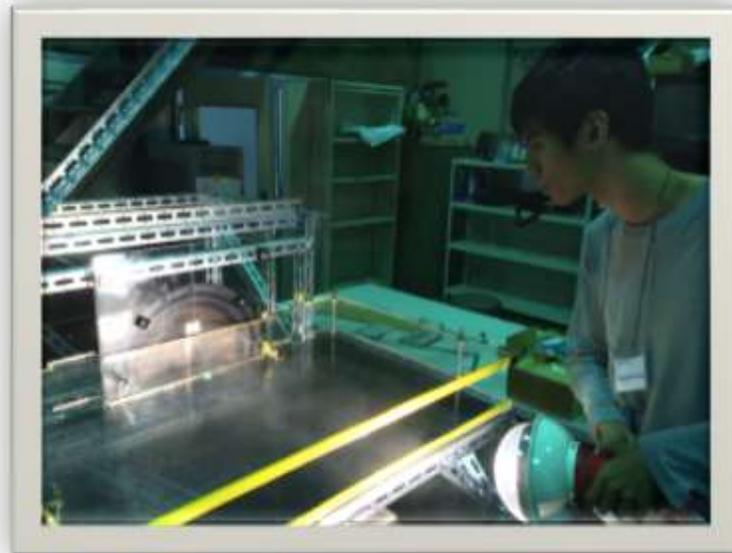


Sakura Exchange Programme in Science

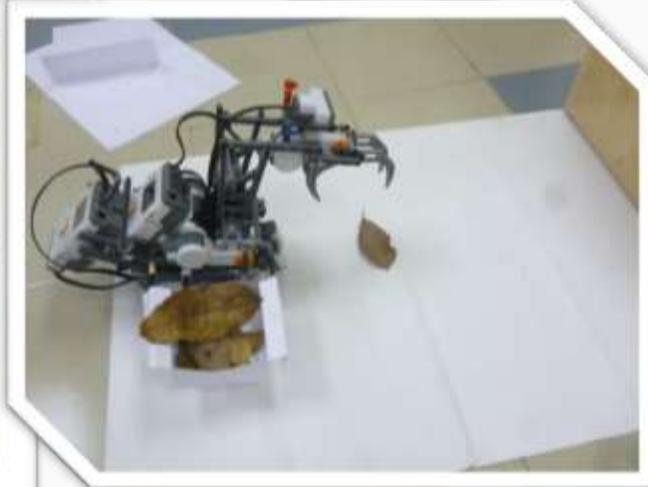
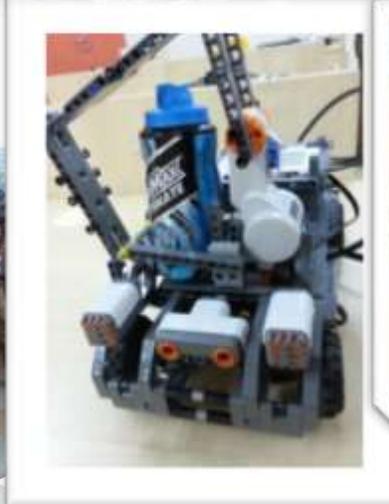
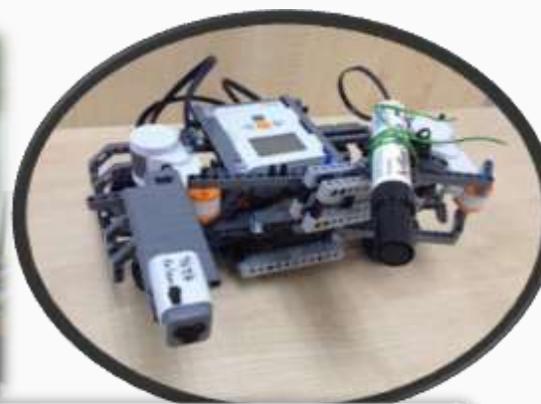


UTM Global Outreach Programme





Model Based Creative Design (MBCD) MJIT and Yamaguchi University for Innovation Design Contest (IDC)



SPORTS DAY



MJIIT Open and Cultural Day



Industry Visits



Japan Language Festival MJIT Students as Volunteer



FACILITIES



Classroom



Labs



Library



Medical Center



Mosque



Hostel



Gym



Outdoor courts

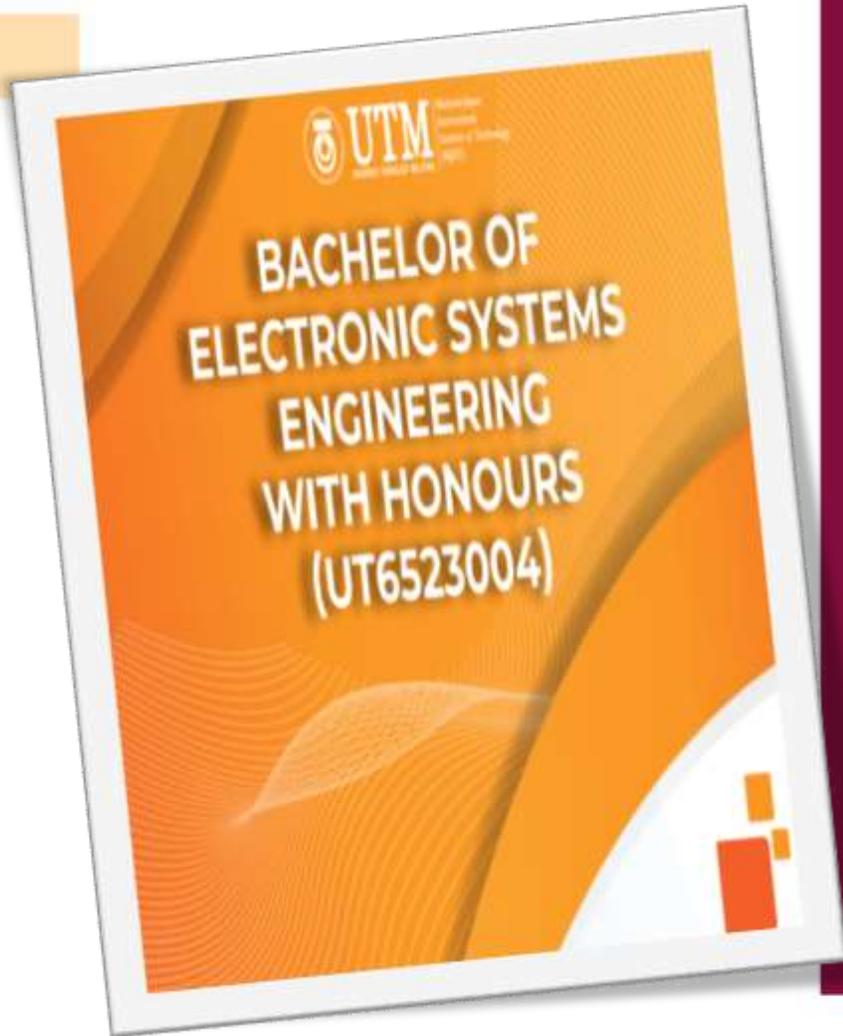


Bus service



Industrial Training in Japan





ESE ALUMNI

innovative • entrepreneurial • global



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UNIVERSITI TEKNOLOGI MALAYSIA

Malaysia-Japan
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Institute of Technology
(MJIT)

MJIIT STUDENT AWARDS

BEST PRESENTER AWARD

5th International Conference on Nanomaterials and Materials Engineering



MASTER BY RESEARCH Umar Abdul Aziz b. Abdullah Shukri

BEST PRESENTER AWARD

The International OTEC Seminar for the Young Researchers



PhD Nurul Syazwani bt. Ahmad Sabri

KAME RIDER TEAM FROM MJIIT: 1ST PLACE

Robocup@HomeEducation Japan Open



MASTER BY RESEARCH Mohamad Hafizul Azwan b. Mohamad Nor

CONGRATULATIONS



**MUHAMMAD SYUKRI
BIN NORHAMSHAH**

Bachelor of
Mechanical Precision Engineering

AWARDED
THE IEM GOLD MEDAL
AWARDS



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Malaysia-Japan
International
Institute of Technology
(MJIT)

Leave a Nest Malaysia Sdn. Bhd. has made a historical announcement of the appointment of Mr. Abdul Hakim Sahidi as a new Director of the company. He made history as the youngest Director in the Leave a Nest company at the age of 26 years old.

MJIT Alumni Made History as the Youngest Director in the Leave a Nest Company

MR. ABDUL HAKIM SAHIDI

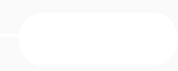


Mr. Chan
Class of 2016



Wondershare
Filmora

Created with
Wondershare Filmora free plan





THANK YOU



In the Name of God for Mankind

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