

Faculty/School	<b>Malaysia-Japan International Institute of Technology / Department of Chemical and Environmental Engineering</b>
Program Name	<b>Master of Sustainable System</b>
Program Code	<b>MMJS</b>
Mode of Program	<b>Taught Course</b>
Academic Session/ Semester	<b>20242025/1</b>

## COURSE MENU

<b>University General Courses</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
UMJJ6013	Basic Japanese Language and Culture (MJIT)*	3
MMJP1183	Research Methodology (MJIT)*	3
UHAP6013	Seminar on Global Development, Economic and Social Issues	3
UHS 6013	Philosophy of Science and Civilization	3
UHAP 6013	Dynamics of Leadership	3
UBSE 1123	Organizational Behavior and Development	3
UECS 6023	Introduction to Technopreneur-ship	3
UHMZ 6023	Malaysian Society and Culture	3
UECS 6013	IT Project Management	3
URTS 6013	Environmental Ethics	3
UHLMZ 6013	Malay Language for Post Graduates	3
UBSS 6023	Business Ethics, Responsibility and Sustainability	3

\*MJIT student is suggested to take UMJJ6013 and MMJP1183

<b>Core Faculty Courses (Compulsory)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
MMJS1113	Applied Sustainable Systems	3
MMJS1123	Life Cycle Assessment	3
MMJS1213	Green Economy	3
MMJS1313	Industrial Ecology and Cleaner Production	3
MMJS1133	Sustainability Management & Policy	3

\*All core subjects need to be taken

<b>Elective Courses (9 credit) (Choose 3 only)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
MMJS1353	Integrated Water Science and Technology	3
MMJS1363	Integrated Solid Waste Management	3
MMJS1143	Environmental Impact Assessment	3
MMJS1323	Smart Communities	3
MMJS1333	Renewable Energy	3
MMJS1343	Sustainable Food Systems	3
MMJS1373	Low Carbon Cities	3

\*Only choose 3 subjects

<b>Research Courses (Compulsory)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
MMJS1186	Master Project 1	6
MMJS1286	Master Project 2	6

\*Master project 1 in semester 2, Master project 2 in semester 3

**ATTACHMENT A (Study Plan)**

## SEMESTER 1 (20242025)

No.	Code	Course Title	Credit Status
1	MMJP1183	Research Methodology (U)	3
2	UMJJ6013	Basic Japanese Language and Culture (U)	3
3	MMJS1133	Sustainability Management and Policy (T)	3
4	MMJS1213	Green Economy (T)	3
5	MMJS1113	Applied Sustainable System (T)	3
6	MMJS****	Elective 1 (E)	3
		Total	18

\*can exchange elective (E) with Japanese language (U) subject

## SEMESTER 2 (20242025)

No.	Code	Course Title	Credit Status
1	MMJS1313	Industrial Ecology and Cleaner Production (T)	3
2	MMJS1123	Life Cycle Assessment (T)	3
3	MMJS1186	Master Project 1	6
4	MMJS****	Elective 2 (E)	3
5	MMJS****	Elective 3 (E)	3
		Total	18

## SEMESTER 1 (20252026)

No.	Code	Course Title	Credit Status
1	MMJS1286	Master Project 2	6
		Total	6

**PROGRAM STRUCTURE (MMJS Program)**

<b>SYLLABUS FOR SEMESTER 1</b>	<b>COURSE CODE</b>	<b>SEMESTER 1_20242025</b>	<b>SECTION</b>	<b>DAY &amp; TIME</b>	<b>LECTURER'S NAME &amp; CONTACT NO : (Email &amp; HP no.)</b>
University General Courses	MMJP 1183 Research Methodology (U)	1	01		Prof Ir Dr Mohamad Ali Muhamad Yuzir muhdaliyuzir@utm.my
	UMJJ6013 Basic Japanese Language and Culture (U)	1	01		Mrs Hasparina Abdul Ghafar hasparina.kl@utm.my
Core Faculty Courses	MMJS1213 Green Economy (T)	1	01		Dr Liew Wai Loan wliew@utm.my
	MMJS 1133 Sustainability Management and Policy (T)	1	01		Ts Dr Faizah Che Ros crfaizah@utm.my
	MMJS 1113 Applied Sustainable Systems (T)	1	01		Assoc Prof Dr Norhayati Abdullah norhayati@utm.my
Elective Courses	MMJS1143 Environmental Impact Assessment (E)	1	01		Dr Abd Halim Md Ali abd.halim@utm.my
	MMJS1353 Integrated Water Science and Technology	1	01		Assoc Prof Koji Iwamoto k.iwamoto@utm.my
	MMJS 1373 Low Carbon City (E)	1	01		Assoc Prof Dr Rozana Zakaria rozana@utm.my
<b>SYLLABUS FOR SEMESTER 2</b>	<b>COURSE CODE</b>	<b>SEMESTER 2_20242025</b>	<b>SECTION</b>	<b>DAY &amp; TIME</b>	<b>LECTURER'S NAME &amp; CONTACT NO : (Email &amp; HP no.)</b>
Core Faculty Courses	MMJS1313 Industrial Ecology and Cleaner Production (T)	2	01		
	MMJS1123 Life Cycle Assessment (T)	2	01		
Elective Course	Elective 2	2	01		
	Elective 3	2	01		
Research Course	MMJS1186 Master Project 1	2	01		
<b>SYLLABUS FOR SEMESTER 3</b>	<b>COURSE CODE</b>	<b>SEMESTER 1_20252026</b>	<b>SECTION</b>	<b>DAY &amp; TIME</b>	<b>LECTURER'S NAME &amp; CONTACT NO : (Email &amp; HP no.)</b>
Research Courses	MMJS1286 Master Project 2	3	01		