

Faculty/School	<b>Faculty of Engineering/ School of Chemical and Energy Engineering</b>
Program Name	<b>Master of Engineering (Chemical)</b>
Program Code	<b>MKKK</b>
Mode of Program	<b>Mixed Mode</b>
Academic Session/ Semester	<b>2020/2021-1</b>

## COURSE MENU

<b>University General Courses (Choose 1 ONLY)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
UHAP 6013	Seminar on Global Development, Economic & Social Issues	3
UHAZ 6123	Malaysian Society & Culture (for International Students Only)	3
UBSE 1123	Organization Behaviour and Development	3
MBSA 1533	Business Ethics, Responsibility and Sustainability	3
UICW 6023	Philosophy of Science and Civilization (NORMAL MODE)	3
UBSE 1123	Organization Behaviour and Development	3
ULAM 6013	Dynamics of Leadership	3
ULAM 6013	Malay Language for Post Graduates	3
URSP 6013	Environmental Ethics	3
UANP6013	Informatics in Society	3
URSP6023	ICT Ethics and Society	3
UCSM 1263	IT Project Management	3

<b>Pre-Requisite Courses (Compulsory for non-chemical Engineering Background)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
MKKK 0413	Chemical Engineering Thermodynamics	3
MKKK 0423	Chemical Reactions Engineering	3
MKKK 0513	Transport Processes and Unit Operations	3
MKKK 0613	Mass Balance	3
MKKK 0623	Basic Numerical Method	3

<b>Core Faculty Courses (Compulsory)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
UKKP 0013	Research Methodology	3

<b>Core Courses (Compulsory)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
MKKK 1413	Advanced Thermodynamic	3
MKKK 1513	Advanced Transport Phenomena	3
MKKK 1643	Numerical Computation in Chemical Engineering	3
MKKK 1423	Advanced Chemical Reaction Engineering	3

<b>Elective Courses (Choose 1 only)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
MKKK 1653	Safety and Health in Chemical Industries	<b>3</b>
MKKK 1613	Energy analysis and management	<b>3</b>
MKKK 1683	Process Integration	<b>3</b>
MKKK 1153	Polymer Processing	<b>3</b>
MKKK 1103	Biotechnology for Engineers	<b>3</b>

<b>Dissertation (Compulsory for final semester)</b>		
<b>Course Code</b>	<b>Course Name</b>	<b>Credit</b>
MKKK **80	Dissertation	-

**Programme Coordinator : Dr. Nor Alafiza Yunus**  
**(alafiza@utm.my/012-3302842)**

**PROGRAMME STRUCTURE – NORMAL STUDENT (WITHOUT PRE-REQUISITE)**

SYLLABUS	COURSE CODE	SEMESTER	SECTION (for Semester 1)	DAY & TIME (for Semester 1)	LECTURER'S NAME & CONTACT NO : (Email & HP no.)
Core Courses	MKKK 1413	1	01	Monday 9.00 am – 12.00 pm	Prof. Dr. Mohd. Zaki Kamsah Email: <a href="mailto:r-zaki@utm.my">r-zaki@utm.my</a> Phone: +60 197770919
	MKKK 1423	1	01	Tuesday 9.00 am – 12.00 pm	Prof. Ir. Dr. Nor Aishah Saidina Amin Email: <a href="mailto:r-naishah@utm.my">r-naishah@utm.my</a> Phone: +60 127165490
	MKKK 1513	1	01	Sunday 2.00 pm – 5.00 pm	PM. Ir. Dr. Muhammad Abbas Ahmad Zaini <a href="mailto:r-abbas@utm.my">r-abbas@utm.my</a> 016-2581878
	MKKK 1643	1	01	Sunday 9.00 am – 12.00 pm	Dr. Saharuddin Haron Email: <a href="mailto:saharudinh@utm.my">saharudinh@utm.my</a> Phone: +60 197790074
University General Courses	<i>Refer SPS website for schedule</i> <a href="https://sps.utm.my/academic-related-resources/">https://sps.utm.my/academic-related-resources/</a>				
Core Faculty Courses	UKKP 0013	2	N/A		
Elective Courses	MKKK ***3	2	N/A		
Dissertation	MKKK 2180	3	N/A		

**PROGRAMME STRUCTURE – NORMAL STUDENT (WITH PRE-REQUISITE)**

SYLLABUS	COURSE CODE	SEMESTER	SECTION (for Semester 1)	DAY & TIME (for Semester 1)	LECTURER'S NAME & CONTACT NO : (Email & HP no.)
Pre-Requisite	MKKK 0423	1	01	Tuesday 11.00 am – 1.00 pm  Monday 2.00 pm – 3.00 pm	Dr. Muhammad Tahir <a href="mailto:m.tahir@utm.my">m.tahir@utm.my</a> 014-6281678
	MKKK 0513	1	01		Dr. Norhana Mohamed Rashid <a href="mailto:norhanarashid@utm.my">norhanarashid@utm.my</a> 013-7996378
	MKKK 0613	1	01		PM. Adnan Ripin <a href="mailto:r-adnan@utm.my">r-adnan@utm.my</a> 013-7214493
	MKKK 0623	2		N/A	
	MKKK 0413	2			
University General Courses	<i>Refer SPS website for schedule</i> <a href="https://sps.utm.my/academic-related-resources/">https://sps.utm.my/academic-related-resources/</a>				
Core Faculty Courses	UKKP 0013	2		N/A	
Elective Courses	MKKK ***3	2			
Core Courses	MKKK 1413	3		Monday 9.00 am – 12.00 pm	Prof. Dr. Mohd. Zaki Kamsah Email: <a href="mailto:r-zaki@utm.my">r-zaki@utm.my</a> Phone: +60 197770919
	MKKK 1423	3		Tuesday 9.00 am – 12.00 pm	Prof. Ir. Dr. Nor Aishah Saidina Amin Email: <a href="mailto:r-naishah@utm.my">r-naishah@utm.my</a> Phone: +60 127165490
	MKKK 1513	3		Sunday 2.00 pm – 5.00 pm	PM. Ir. Dr. Muhammad Abbas Ahmad Zaini <a href="mailto:r-abbas@utm.my">r-abbas@utm.my</a> 016-2581878
	MKKK 1643	3		Sunday (9am – 12pm)	Dr. Saharuddin Haron Email: <a href="mailto:saharudinh@utm.my">saharudinh@utm.my</a> Phone: +60 197790074
Dissertation	MKKK 2180	4		N/A	