



Sesi Akademik <i>Academic Session</i>	2020/2021
Semester/Penggal <i>Semester/Term</i>	2
Kod Kursus <i>Course Code</i>	KIE 2009
Tajuk Kursus <i>Course Title</i>	Mesin Elektrik dan Pemacu <i>Electrical Machine and Drives</i>
Bahasa Pengantar <i>Medium of Instruction</i>	Bahasa Inggeris <i>English</i>
Rujukan Utama <i>Main Reference</i>	1. <i>Electrical machine fundamentals</i> by Stephen J. Chapman, McGraw Hill, 5 th edition 2011 2. <i>Industrial Motor Control</i> by Stephen Herman, Cengage Learning, 6 th edition, 2009.
Strategi Pembelajaran <i>Learning Strategies</i>	Kuliah dan Tutorial <i>Lectures and Tutorials</i>
Masa Pembelajaran Pelajar <i>Student Learning Time</i>	Bersemuka / <i>Face to face</i> : 45 jam/ <i>hours</i> Tidak Bersemuka / <i>Non Face to face</i> : 0 jam/ <i>hour</i> Masa Persediaan Pelajar / <i>Student Preparation Time</i> : 75 jam/ <i>hours</i>
Kemahiran Boleh Pindah <i>Transferable Skills</i>	Design, analysis, construction and presentation.
Pensyarah / <i>Lecturer</i>	Prof. Madya Dr. Jeevan
Bilik / <i>Room</i>	Bilik 16, Tingkat 2
Telefon/e-mel <i>Telephone/e-mail</i>	79675388/ jeevan@um.edu.my
Sesi Kuliah / <i>Lecture Session:</i>	Rujuk kepada myum.um.edu.my.
Hari/Masa / <i>Day/Time</i>	<i>Refer to myum.um.edu.my.</i>
Tempat / <i>Venue</i>	
Sesi Tutorial/Amali: <i>Tutorial/Practical Session:</i>	Tiada
Hari/Masa / <i>Day/Time</i>	No
Tempat / <i>Venue</i>	
Perincian Pemberatan Penilaian <i>Detail of Assessment Weightage</i>	Penilaian Berterusan / <i>Continuous Assessment</i> : 40% Peperiksaan Akhir / <i>Final Examination</i> : 60%



Jadual Pengajaran / Teaching Schedule

Minggu Week	Topik & Aktiviti Topic & Activities	Rujukan References
1	<i>Basic machine principles</i>	<i>PowerPoint, Reference 1</i>
2	<i>Shunt motor, series motor and separately excited motors</i>	<i>PowerPoint, Reference 1</i>
3	<i>Starting, braking and speed control of dc motors</i>	<i>PowerPoint, Reference 1</i>
4	<i>Rotating field principle of ac motors</i>	<i>PowerPoint, Reference 1</i>
5	<i>Wound field induction motor</i>	<i>PowerPoint, Reference 1</i>
6	<i>Squirrel cage induction motor</i>	<i>PowerPoint, Reference 1</i>
7	<i>Induction motor equivalent circuits</i>	<i>PowerPoint, Reference 1</i>
8	<i>Mid-semester test</i>	<i>Test questions</i>
9	<i>Single phase induction motor</i>	<i>PowerPoint, Reference 1</i>
10	<i>Starting, braking and speed control of ac motors</i>	<i>PowerPoint, Reference 2</i>
11	<i>Discussions on tutorial questions</i>	<i>Tutorial questions</i>
12	<i>Design, construct and presentation of group assignment</i>	<i>Assignment report, Machine constructed</i>
13	<i>Design, construct and presentation of group assignment</i>	<i>Assignment report, Machine constructed</i>
14	<i>Discussions on exercise questions</i>	<i>Tutorial questions</i>