



UNIVERSITI TEKNOLOGI MARA

EPE491: ELECTRICAL POWER AND MACHINES

Course Name (English)	ELECTRICAL POWER AND MACHINES APPROVED		
Course Code	EPE491		
MQF Credit	3		
Course Description	The course covers introduction to electrical supply system, single and three-phase supply, elements of industrial power system, operation and industrial applications of electrical machines, power transformers, single phase motors, solid-state drives and aspects of electrical safety		
Transferable Skills	Fundamental of electric power system and machine in theoretical and practical aspect		
Teaching Methodologies	Lectures, Tutorial		
CLO	CLO1 Describe the fundamentals of electrical concept in power system CLO2 Assess the performance of transformers and electrical machines based on electrical concepts CLO3 Explain the principles of solid state drives and safety mechanism of electrical machines and power system		
Pre-Requisite Courses	No course recommendations		
Reading List	<table border="1"><tr><td>Recommended Text</td><td><ul style="list-style-type: none">• Theodore Wildi 2006, <i>Electrical Machines, Drives, and Power System</i>, 6th Ed., Prentice Hall• Fitzgerald, A.E., Kingsley, C., and Umans, S.D 2013, <i>Electrical Machinery</i>, 7th Ed., mcgrawHill• Chapman, S.J 2001, <i>Electric Machinery and Power System Fundamentals</i>, 1st Ed., Mcgraw Hill</td></tr></table>	Recommended Text	<ul style="list-style-type: none">• Theodore Wildi 2006, <i>Electrical Machines, Drives, and Power System</i>, 6th Ed., Prentice Hall• Fitzgerald, A.E., Kingsley, C., and Umans, S.D 2013, <i>Electrical Machinery</i>, 7th Ed., mcgrawHill• Chapman, S.J 2001, <i>Electric Machinery and Power System Fundamentals</i>, 1st Ed., Mcgraw Hill
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Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		