

**UNIVERSITI TEKNOLOGI MARA****LAS685: ENVIRONMENTAL PHYSICS**

<b>Course Name (English)</b>	ENVIRONMENTAL PHYSICS <b>APPROVED</b>				
<b>Course Code</b>	LAS685				
<b>MQF Credit</b>	2				
<b>Course Description</b>	The course would focus on the sciences, especially the physics, of the effects of structures on the environment. Generally, it looks at the scientific methods of measuring comfort level of interior and exterior spaces. Specifically, the course looks the importance of comfortable ambience by controlling humidity, air movement, light energy and colors to determine user suitability. The course bridges environmental science with visual aesthetics to create livable spaces based on optimal scientific solutions.				
<b>Transferable Skills</b>	N/A				
<b>Teaching Methodologies</b>	Lectures, Tutorial, Discussion				
<b>CLO</b>	CLO1 Apply the scientific understanding of the environmental aspects for comfortable ambience in outdoor spaces CLO2 Use climate control elements and landscape design as the prime factors solution that influence comfort level in built up environment				
<b>Pre-Requisite Courses</b>	No course recommendations				
<b>Reading List</b>	<table><tr><td><b>Recommended Text</b></td><td><ul style="list-style-type: none"><li>• Tri Harso Karyono, Robert Vale, Brenda Vale 2017, <i>Sustainable Building and Built Environments to Mitigate Climate Change in the Tropics</i>, First Edition Ed., Springer [ISBN: 9783319496009]</li><li>• Vijay P Singh, ? Shalini Yadav, ? Ram Narayan Yadava 2017, <i>Climate Change Impacts: Select Proceedings of ICWEES-2016</i> First Edition Ed., Springer [ISBN: 9789811057137]</li><li>• Kua Harn-Wei Et Al, ? Lin-Heng Lye, ? Victor R Savage, ? Harn-Wei Kua, ? Loke-Ming Chou, ? Puay-Yok Tan 2015, <i>Sustainability Matters: Environmental and Climate Changes in the Asia-Pacific</i>, Kindle Edition Ed., Amazon Asia-Pacific Holdings Private Limited [ISBN: B014KA3JLW]</li><li>• M. Dzelalija 2014, <i>ENVIRONMENTAL Physics</i>, CreateSpace Independent Publishing Platform [ISBN: 9781505685268]</li></ul></td></tr><tr><td><b>Reference Book Resources</b></td><td><ul style="list-style-type: none"><li>• Peter Hughes, N.J. Mason 2001, <i>Introduction to Environmental Physics</i>, 1st Edition Ed., CRC Press [ISBN: 9780748407644]</li><li>• Richard Hyde 2000, <i>Climate responsive design : a study of buildings in moderate and hot humid climates</i>, E &amp; FN Spon New York [ISBN: 9780419209706]</li><li>• Timothy Edward Johnson 1981, <i>Solar Architecture: A Direct Gain Approach</i>, First Edition Ed., McGraw-Hill Inc [ISBN: 9780070325982]</li><li>• Randall Thomas 2006, <i>Environmental Design</i>, Third Edition Ed., Taylor &amp; Francis [ISBN: 9780415363341]</li></ul></td></tr></table>	<b>Recommended Text</b>	<ul style="list-style-type: none"><li>• Tri Harso Karyono, Robert Vale, Brenda Vale 2017, <i>Sustainable Building and Built Environments to Mitigate Climate Change in the Tropics</i>, First Edition Ed., Springer [ISBN: 9783319496009]</li><li>• Vijay P Singh, ? Shalini Yadav, ? Ram Narayan Yadava 2017, <i>Climate Change Impacts: Select Proceedings of ICWEES-2016</i> First Edition Ed., Springer [ISBN: 9789811057137]</li><li>• Kua Harn-Wei Et Al, ? Lin-Heng Lye, ? Victor R Savage, ? Harn-Wei Kua, ? Loke-Ming Chou, ? Puay-Yok Tan 2015, <i>Sustainability Matters: Environmental and Climate Changes in the Asia-Pacific</i>, Kindle Edition Ed., Amazon Asia-Pacific Holdings Private Limited [ISBN: B014KA3JLW]</li><li>• M. Dzelalija 2014, <i>ENVIRONMENTAL Physics</i>, CreateSpace Independent Publishing Platform [ISBN: 9781505685268]</li></ul>	<b>Reference Book Resources</b>	<ul style="list-style-type: none"><li>• Peter Hughes, N.J. Mason 2001, <i>Introduction to Environmental Physics</i>, 1st Edition Ed., CRC Press [ISBN: 9780748407644]</li><li>• Richard Hyde 2000, <i>Climate responsive design : a study of buildings in moderate and hot humid climates</i>, E &amp; FN Spon New York [ISBN: 9780419209706]</li><li>• Timothy Edward Johnson 1981, <i>Solar Architecture: A Direct Gain Approach</i>, First Edition Ed., McGraw-Hill Inc [ISBN: 9780070325982]</li><li>• Randall Thomas 2006, <i>Environmental Design</i>, Third Edition Ed., Taylor &amp; Francis [ISBN: 9780415363341]</li></ul>
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