



UNIVERSITI TEKNOLOGI MARA

CTU500: INTRODUCTION TO ISLAMIC ASTRONOMY

Course Name (English)	INTRODUCTION TO ISLAMIC ASTRONOMY APPROVED				
Course Code	CTU500				
MQF Credit	3				
Course Description	This course aims to introduce students about ibadah from astronomical aspect. Therefore, we shall look on determination of prayer times, determination of kiblah and taqvim & determination of Islamic new moon. Basic foundation of key concepts in astronomy will be given in order to understand the phenomena better.				
Transferable Skills	<ol style="list-style-type: none"> 1. Analysis skill 2. Communication skill 3. Handling equipment skill 4. Ethics and professional moral 				
Teaching Methodologies	Lectures, Field Trip, Practical Classes, Discussion, Presentation				
CLO	<p>CLO1 Explain relationships between ibadah in Islam and the application of astronomy</p> <p>CLO2 Practice the concepts and theory in astronomy for the purpose of ibadah</p> <p>CLO3 Analyse different application of astronomy in ibadah</p>				
Pre-Requisite Courses	No course recommendations				
Reading List	<table border="1"> <tr> <td>Recommended Text</td> <td> <ul style="list-style-type: none"> • Bennet, J., Donahue, M., Schneider, N., & Voit, M. 2008, <i>The Cosmic Perspective</i>, 5th ed. Ed., Pearson Education San Francisco • Bashori, M. H. 2015, <i>Pengantar Ilmu Falak</i>, Pustaka al-Kautsar Jakarta • Yahya, F. 2013, <i>Islamic Cosmic Creation</i>, ISTAC Kuala Lumpur • Moche, D. L. 2015, <i>Astronomy: A Self-Teaching Guide</i>, 8th Ed., Wiley New York • Bakar, O. 2016, <i>Qur'anic Pictures of the Universe</i>, UBD Brunei • Jamil, A. 2014, <i>Ilmu Falak (Teori & Aplikasi)</i>, Amzah Jakarta </td> </tr> <tr> <td>Reference Book Resources</td> <td> <ul style="list-style-type: none"> • Zainal, B. 2002, <i>Pengenalan Ilmu Falak</i>, Dewan Bahasa dan Pustaka Kuala Lumpur • Qureshi, M. M. 2006, <i>Introduction to Contributions to Science & Technology</i>, Adam Publishers & Distributors New Delhi • Mulkan, J. A. 2001, <i>Al-Qur'an dan Sains</i>, Pustaka Darussalam Shah Alam • Ilyas, M. 1999, <i>Sistem Kalendar Islam dari Perspektif Astronomi</i>, Dewan Bahasa dan Pustaka Shah Alam • Ziaee, A. A. 2012, <i>Islamic Sciences: Astronomy, Cosmology and Geometry</i>, Amin Research and Culture Centre Ampang • Dawson, D. W. 2002, <i>Out of Classroom: Observations & Investigations in Astronomy</i>, Brookscole USA </td> </tr> </table>	Recommended Text	<ul style="list-style-type: none"> • Bennet, J., Donahue, M., Schneider, N., & Voit, M. 2008, <i>The Cosmic Perspective</i>, 5th ed. Ed., Pearson Education San Francisco • Bashori, M. H. 2015, <i>Pengantar Ilmu Falak</i>, Pustaka al-Kautsar Jakarta • Yahya, F. 2013, <i>Islamic Cosmic Creation</i>, ISTAC Kuala Lumpur • Moche, D. L. 2015, <i>Astronomy: A Self-Teaching Guide</i>, 8th Ed., Wiley New York • Bakar, O. 2016, <i>Qur'anic Pictures of the Universe</i>, UBD Brunei • Jamil, A. 2014, <i>Ilmu Falak (Teori & Aplikasi)</i>, Amzah Jakarta 	Reference Book Resources	<ul style="list-style-type: none"> • Zainal, B. 2002, <i>Pengenalan Ilmu Falak</i>, Dewan Bahasa dan Pustaka Kuala Lumpur • Qureshi, M. M. 2006, <i>Introduction to Contributions to Science & Technology</i>, Adam Publishers & Distributors New Delhi • Mulkan, J. A. 2001, <i>Al-Qur'an dan Sains</i>, Pustaka Darussalam Shah Alam • Ilyas, M. 1999, <i>Sistem Kalendar Islam dari Perspektif Astronomi</i>, Dewan Bahasa dan Pustaka Shah Alam • Ziaee, A. A. 2012, <i>Islamic Sciences: Astronomy, Cosmology and Geometry</i>, Amin Research and Culture Centre Ampang • Dawson, D. W. 2002, <i>Out of Classroom: Observations & Investigations in Astronomy</i>, Brookscole USA
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	<ul style="list-style-type: none"> • Woodruff, J., Tirion, W. 2004, <i>Star Finder</i>, Philips London • Schaaf, F. 1990, <i>Seeing the Sky: 100 Projects, Activities & Explorations in Astronomy</i>, John Wiley & Sons, Inc. Canada • Meinel, A., Meinel, M. 1983, <i>Sunsets, Twilights and Evening Skies</i>, Cambridge University Press USA • Minnaert, M 1954, <i>The Nature of Light & Colour in the Open Air</i>, Dover Publications USA
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources