

LESSON PLAN

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Course Code : UICI 2022 Course Name : Science, Technology, and Mankind Total Meeting Time : 28 hours	Semester : I Session : 2012/2013

Lecturer : Sayed Mahussain bin Sayed Ahmad (Course Coordinator)

Room No. : D02-04 (S45)

Tel No. : 07-5535085

E-mail : s_mohsin@utm.my

Synopsis : This course discusses the philosophy of knowledge in terms of definitions, concepts, theories, historical development, cultural knowledge, and knowledge transfer. Also discussed are science and Islam in terms of concepts, historical development, the Islamic view of learning science, methodology of Islamic science, and comparison between Islamic science and Western science. The next discussion is about technology in terms of concepts, historical development, the solutions to current issues, and the relationship between technology and divinity. Also included within the scope of this discussion are the things associated with mankind in terms of concepts, theories, the creation of mankind, the status and human responsibility, and the factors of human dignity and purpose of its creation. This course also discusses the accomplishments of Islamic scholars in science and technology.

LEARNING OUTCOMES

At the end of the course students should be able to:

No.	Course Learning Outcomes	Related Program Outcomes	Taxonomy (C, P, A)	Method of Assessment
1.	Explain the concept and philosophy of Islamic knowledge in terms of definitions, concepts, theories, history, knowledge culture, and knowledge transfer from the Islamic civilization to the Western civilization.		C2	U, T, Pm

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2.	Discuss science and technology from the perspective of: concept, history, learning science from Islamic perspective, methodology of Islamic science and Western science, and lastly solution to issues of science and technology.		C3, P3	T, Pm, PA
3.	Analyse and compare between Islam and the modern scientific point of view the concept of cosmology; of the universe and its destruction; mankind: the concepts and theories, the process of creation, the stages, the roles, factors, dignity, ethics, values, and goals of the creation; the accomplishments of Islamic scholars in science and technology		C4, A3	T, Pm, PA (U – Test; T – Assignment; Pm – Presentation, PA – Final Exam)

STUDENT LEARNING TIME

Teaching and Learning Activities	Student Learning Time (Hour)
1. Face to face Learning	
- Lectures	22
- SCL activities	6
2. Non-face to face Learning	
- Assignment	10
- E-Learning	14
- Revision	20
- Assessment preparation	5
3. Formal Assessment	
- Mid-semester test	1
- Final exam	2
Total	80

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TEACHING METHODE

Lecture, seminar, directed reading, self-learning, and group discussion.

LESSONS PLAN

LECTURE	TOPIC	NOTES/CONTENT
1	MAN AND CONCEPT OF KNOWLEDGE	<ul style="list-style-type: none"> Philosophy: definition of philosophy according to Islamic scholars and the West Classification of knowledge and philosophy Epistemology, Ontology, Axiology History of philosophy and science Cultural knowledge
2	KNOWLEDGE TRANSFER	<ul style="list-style-type: none"> Concept, background, factors, effects of knowledge transfer from Islam to West
3	SCIENCE AND ISLAM	<ul style="list-style-type: none"> Concept The meaning of science in the Islamic tradition A misunderstanding of science education Learning science from the Islamic perspective The methodology of Islamic Science <ul style="list-style-type: none"> - Method of observation and description - Experiment and testing method - Characteristics of Islamic Science Methodology Scholarly debate Consciously and accurate analysis Integrity of science Freedom of thought without being bound by previous theories Identity(self-confident and self-esteemed)
4	TECHNOLOGY AND ISLAM	Technology in Islamic perspective <ul style="list-style-type: none"> The concept of technology History of technology development Principles of Islamic science and technology; (1-Tawheed, 2-Khilafah, 3-Worship, 4-Halal &Haram, 5-Fair &Tyrants, 6-Istislah & Diya')

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5	COMPARISON BETWEEN SCIENCE AND TECHNOLOGY ACCORDING TO THE WEST AND ISLAM	<ul style="list-style-type: none"> • Specific features of Islamic science and technology : <ul style="list-style-type: none"> - Derived from revelation - Science and technology activities are worship - Non-independent value - In favor of the truth - Proving operations are subjective and based on good intentions - The end does not justify the means • Specific scientific characteristics of Islamic science and technology; <ul style="list-style-type: none"> - Objective - Logic - Empirical - Synthesis - Analysis - Universal
6	SOLUTION TO THE ISSUES OF TECHNOLOGY	<ul style="list-style-type: none"> • Science and modern technology and the divine <ul style="list-style-type: none"> - Science and technology and its relationship to mankind - The system and practice of science and technology - Islam and biotechnology - ICT: Issues, challenges and solutions - Islam and environmental education - Ethics, morality and belief systems - Islamic impetus to science and technology activities ergonomically
7	MAN FROM THE PERSPECTIVE OF ISLAM AND SCIENCE	<ul style="list-style-type: none"> • The concept of human • The importance of understanding the origin of the human • The theory of human beings • Origin of human beings according to Western philosophers • Origin of human beings Islam • The process of human creation • Levels of human life
8	MID SEMESTER TEST	MID SEMESTER TEST

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9	HUMAN STATUS AND RESPONSIBILITIES	<ul style="list-style-type: none"> • The role of human • The aim of human creation • The purpose of human life: finding mardhatillah • Dignity of the human factor • Ethics and human values
10	CONCEPT OF COSMOLOGY	<ul style="list-style-type: none"> • Definition of nature (the cosmos) • Creation of the universe according to Al-Quran • Creation of smoke • The Genesis of the Earth • The earth a resting • Earth is round • The space between heaven and earth • Is there life in the cosmos?
11	CONCEPT OF COSMOLOGY	<ul style="list-style-type: none"> • The destruction of the universe • The time of the Resurrection • Some predictions about the time of Judgment • Cosmology from the perspective of Islam • An end to the existence of the scientific point of view
12	ACCOMPLISHMENTS OF ISLAMIC SCIENCE AND TECHNOLOGY	<ul style="list-style-type: none"> • Science and technology of the Prophets • Contributions of Islamic scholars in science and technology: <ul style="list-style-type: none"> - Astronomy - Mathematics - Physics - Chemistry
13	ACCOMPLISHMENTS OF ISLAMIC SCIENCE AND TECHNOLOGY	<ul style="list-style-type: none"> • Pharmacy • Medicine • Biology (Botany & Zoology)
14	ACCOMPLISHMENTS OF ISLAMIC SCIENCE AND TECHNOLOGY	<ul style="list-style-type: none"> • Engineering • Music • Factor of excellency in Islamic science and technology • Factor of backwardness of Islamic science and technology
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GRADING					
No.	Assessment	Volume	% each	% total	Week/Date
1	Mid-Semester Test	1	20%	20	
2	Group Assignment	1	20%	20	
3	Presentation	1	10%	10	
4	E-Learning	1	10%	10	
5	Final Exam	1	40%	40	
Total				100	

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