


## COURSE INFORMATION

<b>School/Faculty:</b>	Akademi Tamadun Islam, Fakulti Sains Sosial & Kemanusiaan	<b>Page:</b>	1 of 6
<b>Program name:</b>	Semua program Diploma UTM (Tahap 5)		
<b>Course code:</b>	UHIT1022	<b>Academic Session/Semester:</b>	2020/2021/1
<b>Course name:</b>	Science, Technology and Mankind	<b>Pre/co requisite (course name and code, if applicable):</b>	-
<b>Credit hours:</b>	2		

<b><u>3RF Course synopsis</u></b>	<p>Kursus ini membincangkan konsep dan falsafah ilmu dari aspek definisi, klasifikasi ilmu, budaya ilmu dan proses perpindahan ilmu, serta pencapaian dan sumbangan ilmuan Islam. Ia juga membincangkan mengenai falsafah penciptaan manusia dari perspektif Islam dan sains, faktor kemuliaan dan peranan manusia. Perbincangan seterusnya adalah mengenai konsep kosmologi dari perspektif Islam dan Barat. Dibincangkan juga sains dan teknologi dari sudut konsep, sejarah perkembangan, pandangan Islam terhadap pengajian ilmu sains dan teknologi, metodologi dalam sains dan teknologi Islam, perbandingan antara sains dan teknologi Islam dengan Barat, dan isu-isu dalam sains dan teknologi. Kursus ini melibatkan pembelajaran kolaboratif (Collaborative based learning) dan pembelajaran teradun (blended learning) selain menerapkan elemen kemahiran personal dan etika serta profesionalisme.</p>			
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<b>Prepared by:</b>	<b>Certified by:</b>
Name: Dr. Nik Mohd Zaim bin Ab. Rahim	Name: Prof. Madya Dr. Jimaain bin Safar
Signature: 	Signature:
Date: 16 Jun 2020	Date: 16 Jun 2020

<b>School/Faculty:</b>	Akademi Tamadun Islam, Fakulti Sains Sosial & Kemanusiaan	<b>Page:</b>	2 of 6
<b>Program name:</b>	Semua program Diploma UTM (Tahap 5)		
<b>Course code:</b>	UHIT1022	<b>Academic Session/Semester:</b>	2020/2021/1
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**Mapping of the Course Learning Outcomes (CLO) to the Programme Learning Outcomes (PLO), Teaching & Learning (T&L) methods and Assessment methods:**

No.	CLO	PLO (Code)	Weight (%)	*Taxonomies and **generic skills	T&L methods	***Assessment methods
CLO1	Menganalisis falsafah ilmu, sains dan teknologi dari perspektif Islam dan barat.	PLO1 (KW)	30%	C4	Lecture, Group Discussion, Think Pair Share	Final Exam : 30%
CLO2	Membandingkan sains dan teknologi menurut perspektif Islam dan barat serta mengemukakan penyelesaian terhadap isu-isu semasa sains dan teknologi.	PLO11 (ETS)	40%	A4, GC2	Lecture, Group Discussion, Collaborative Project	Group Project : 20% Presentation : 10% Refleksi 10%
CLO3	Mengintegrasikan secara objektif nilai dalam pandangan Islam dan sains moden mengenai manusia, konsep kosmologi, penciptaan dan pengakhiran alam semesta serta pencapaian para ilmuan Islam dalam bidang sains dan teknologi.	PLO9 (PRS)	30%	A4, SC3	Lecture, video, Online Discussion, Question & Answer	E-Learning Activity 20% Video Review 10%

Refer \*Taxonomies of Learning and \*\*UTM's Graduate Attributes, where applicable for measurement of outcomes achievement

\*\*\*T – Test; Q – Quiz; R- Review; LB – Log Book; PR – Project Report; PP - Proposal Project; PRP - Poster Project –; PSP – Poster Presentation; F – Final Exam.

<b>School/Faculty:</b>	Akademi Tamadun Islam, Fakulti Sains Sosial & Kemanusiaan	<b>Page:</b>	3 of 6
<b>Program name:</b>	Semua program Diploma UTM (Tahap 5)		
<b>Course code:</b>	UHIT1022	<b>Academic Session/Semester:</b>	2020/2021/1
<b>Course name:</b>	Science, Technology and Mankind	<b>Pre/co requisite (course name and code, if applicable):</b>	-
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**Details on Innovative T&L practices:**

No.	Type	Implementation
1.	Active Learning	Group Discussion, Think Pair Share, Question & Answer, Blended Learning
2.	Audio and Video	Interactive visual sharing of learning concepts
3.	Project based learning	Conducted through practical/presentation of task given

**Weekly Schedule:**

Week 1	<b>Chapter 1. Manusia dan Konsep Ilmu</b> Konsep dan Sejarah Perkembangan Ilmu Menurut Islam dan Barat Proses perpindahan ilmu Faktor dan kesan perpindahan ilmu Pencapaian dan sumbangan ilmuan Islam
Week 2	<b>Chapter 2. Sains dan Islam</b> Konsep sains menurut Islam dan Barat Metodologi sains Islam dan Barat Ciri-ciri sains Islam dan Barat
Week 3	<b>Chapter 3. Pandangan Islam terhadap Pengajian Ilmu Sains</b> Pengajian ilmu sains menurut Islam
Week 4	<b>Chapter 4. Teknologi dan Islam</b> Konsep teknologi menurut Islam dan Barat Prinsip sains dan teknologi dalam Islam
Week 5	<b>Chapter 5. Perbandingan Antara Sains &amp; Teknologi Menurut Barat dan Islam</b> Perbandingan antara sains & teknologi menurut Barat dan Islam
Week 6	<b>Chapter 6. Penyelesaian Terhadap Isu Teknologi</b> Perbincangan Beberapa Isu Terpilih dan Penyelesaiannya
Week 7	<b>Chapter 6. Penyelesaian Terhadap Isu Teknologi</b> Perbincangan Beberapa Isu Terpilih dan Penyelesaiannya
Week 8	Mid - Semester Break
Week 9	<b>Chapter 7. Manusia Dari Perspektif Islam dan Sains</b> Konsep dan teori kejadian manusia
Week 10	<b>Chapter 7. Manusia Dari Perspektif Islam dan Sains</b> Peringkat kehidupan manusia Matlamat penciptaan manusia
Week 11	<b>Chapter 8. Status dan Tanggungjawab Manusia</b>

<b>School/Faculty:</b>	Akademi Tamadun Islam, Fakulti Sains Sosial & Kemanusiaan	<b>Page:</b>	4 of 6
<b>Program name:</b>	Semua program Diploma UTM (Tahap 5)		
<b>Course code:</b>	UHIT1022	<b>Academic Session/Semester:</b>	2020/2021/1
<b>Course name:</b>	Science, Technology and Mankind	<b>Pre/co requisite (course name and code, if applicable):</b>	-
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	Matlamat kewujudan manusia Peranan dan tanggungjawab manusia Etika dan nilai manusia
Week 12	<b>Chapter 9. Konsep Kosmologi</b> Kosmologi menurut perspektif Islam dan Barat Penciptaan alam Proses kehancuran alam
Week 13	<b>Chapter 10. Pencapaian Ilmuan Islam Dalam Bidang Sains dan Teknologi</b> Pencapaian ilmuan Islam dalam bidang sains dan teknologi
Week 14	<b>Presentation</b>
Week 15	<b>Presentation</b>
Week 16	Revision Week and Final Examination

**Transferable skills (generic skills learned in course of study which can be useful and utilised in other settings):**

Ethics and Professionalism  
Personal Skills

**Student learning time (SLT) details:**

Distribution of Student Learning Time (SLT) by CLO	Teaching and Learning Activities					SLT	
	Guided Learning (Face to Face) L: Lecture, T: Tutorial, P: Practical, O: Others				Guided Learning Non-Face to Face		Independent Learning Non-Face to face
	L	T	P	O			
<b>CLO1</b>	4h			8h	4h	6h	22h
<b>CLO2</b>	2h			6h	8h	12h	28h
<b>CLO3</b>	2h			6h	6h	10h	24h
<b>Total SLT</b>	<b>8h</b>			<b>20h</b>	<b>18h</b>	<b>28h</b>	<b>74h</b>

No.	Continuous Assessment	PLO (Code)	Percentage	SLT
1.	Group Project	PLO11 (ETS)	20	As in CLO 2 (6h)
2.	Presentation	PLO11 (ETS)	10	4h
3.	Reflection	PLO11 (ETS)	10	As in CLO 2 (4h)

<b>School/Faculty:</b>	Akademi Tamadun Islam, Fakulti Sains Sosial & Kemanusiaan	<b>Page:</b>	5 of 6
<b>Program name:</b>	Semua program Diploma UTM (Tahap 5)		
<b>Course code:</b>	UHIT1022	<b>Academic Session/Semester:</b>	2020/2021/1
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4.	E-Learning Activity	PLO9 (PRS)	20	As in CLO 3 (2h)
5.	Video Review	PLO9 (PRS)	10	As in CLO 3 (2h)
	<b>Final Assessment</b>		<b>Percentage</b>	<b>Total SLT</b>
6.	Final Examination	PLO1 (KW)	30	2h
<b>Total SLT</b>			<b>100</b>	<b>80h</b>

h: hours, m: minutes

**Special requirement to deliver the course (e.g: software, nursery, computer lab, simulation room):**

**Learning resources:**

**Text book (if applicable)**

None

**Main references**

- Ade Jamarudin. 2010. Konsep Alam Semesta Menurut al-Quran. *Jurnal Ushuluddin*. 16(2), 1-16.
- Azizan Baharudin. 2007. Wacana Sejarah dan Falsafah Sains. Dlm. Syed Muhammad Dawilah (pnyt.). *Pendekatan Holistik Sains dan Agama*. Kuala Lumpur: Dewan Bahasa dan Pustaka.
- Heri Apriyono. 2013. *The Big Bang Theory: Teori Terbentuknya Alam Semesta*. Jakarta: Pustaka Narasi.
- Mohamad Zuhdi Marzuki. 2000. Pengajian Sains, Teknologi Dan Masyarakat: Satu Pendekatan Bersepadu Ke Arah Wawasan 2020. Dlm. Abdul Latif Samian dan Mohammad Sabri Haron (pnyt.). *Pengajian Umum Di Alaf Baru*. Bangi: UKM.
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- Mohd Sani Badron. 2012. Kewajiban Menguasai Sains: Fardu Ain-kah atau Fardu Kifayah?. Dlm. Azrina Sobian (pnyt.). *Membina Kekuatan Sains di Malaysia*. Kuala Lumpur: Institut Kefahaman Islam Malaysia.
- Nabilah Othman et. al. 2018. Pendidikan Abad-21: *Peranan Teknologi Maklumat dan Komunikasi Serta Cabarannya*. Bangi: Fakulti Pendidikan UKM.
- Saleh Ahmad. 2007. Peranan Ijtihad Sebagai Pemangkin Ke Arah Kegemilangan Islam. Dlm. Syed Muhammad Dawilah (pnyt.). *Pendekatan Holistik Sains dan Agama*. Kuala Lumpur: Dewan Bahasa dan Pustaka.
- Syed Hossein Nasr. 2007. *Islam, Science, Muslims and Technology*. Canada: Al-Qalam Publishing & Kuala Lumpur: Islamic Book Trust.

<b>School/Faculty:</b>	Akademi Tamadun Islam, Fakulti Sains Sosial & Kemanusiaan	<b>Page:</b>	6 of 6
<b>Program name:</b>	Semua program Diploma UTM (Tahap 5)		
<b>Course code:</b>	UHIT1022	<b>Academic Session/Semester:</b>	2020/2021/1
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Toler, Pamela D. 2012. *The Story of All For of Us Mankind*. USA: Running Publisher.  
Wan Mohd Nor Wan Daud. 2019. *Budaya Ilmu Makna dan Manifestasi Dalam Sejarah dan Masa Kini*. Edisi Ketiga. Kuala Lumpur: CASIS & HAKIM.  
Yahaya Jusoh dan Azhar Muhammad. 2007. *Pendidikan Falsafah Sains al-Quran*. Skudai: Penerbit Universiti Teknologi Malaysia.  
Zaheril Zainudin. 2007. Sumbangan Sains Islam Kepada Tamadun Manusia. Dlm. *Sains Merentasi Zaman*. Nik Salida Suhaila & Mohammad Noorizzuddin (pnyt.). Bandar Baru Nilai: Penerbit USIM.

**Additional references**

**Online**

<http://elearning.utm.my>

**Academic honesty and plagiarism: (Below is just a sample)**

Copying of work (texts, simulation results etc.) from other students/groups or from other sources is not allowed. Brief quotations are allowed and then only if indicated as such. Existing texts should be reformulated with your own words used to explain what you have read. It is not acceptable to retype existing texts and just acknowledge the source as a reference. Be warned: students who submit copied work will obtain a mark of zero for the assignment and disciplinary steps may be taken by the Faculty. It is also unacceptable to do somebody else's work, to lend your work to them or to make your work available to them to copy.

**Other additional information (Course policy, any specific instruction etc.):**

Assessments on generic skills will be based on Islamic Civilization Academy's Academic Assessment Rubric.

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