



Bachelor of History and Islamic Civilization
Faculty of Adab and Humanities

Islamic State University Syarif Hidayatullah Jakarta

MODULE HANDBOOK

Module Name	Islam and Science
Module Level	Undergraduate
Abbreviation, if applicable	-
Sub-heading, if applicable	-
Code	UIN 6033202
Subtitle, if applicable	-
Courses, if applicable	-
Semester/term	2 nd / First Year
Module Coordinator(s)	Dr. Halid, M.Ag.
Lecturer(s)	Dr. Halid, M.Ag. Fauziyyah Imma R. S.S., M.A.
Language	Bahasa Indonesia
Relation to Curriculum	Compulsory Course
Teaching Methods	Lecture, classroom discussion
Workloads	1 SKS equivalent to: In Class Lectures: 50 minutes per week Independent Assignment: 60 minutes per week Structured Assignment: 60 minutes per week
Credit Point	3 SKS or 4,5 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> 1. Mengidentifikasi dan mendiskusikan pengetahuan tentang Islamic Thought and Philosophy: Explore the development of Islamic philosophy and how it has influenced scientific inquiry, including the works of prominent philosophers like Ibn Sina (Avicenna) and Ibn Rushd (Averroes). Science in the Quran and Hadith: Examine references to natural phenomena and scientific knowledge in the Quran and Hadith, and consider their implications for contemporary scientific understanding. (S8) 2. Interdisciplinary Perspective: Encourage interdisciplinary thinking by examining the intersection of science with theology, ethics, and philosophy in Islamic thought. (A5)
Content	<ol style="list-style-type: none"> 1. Introduction to Islamic Thought and Philosophy: Overview of Islamic philosophy, theology, and jurisprudence. 2. Historical Perspective: Historical developments in Islamic science during the Golden Age of Islam (e.g., contributions of Muslim scholars like Ibn Sina, Al-Razi, and Ibn al-Haytham). The

	<p>role of Islamic institutions (madrasas and observatories) in promoting scientific inquiry.</p> <ol style="list-style-type: none"> 3. Quranic and Hadith References: Examination of Quranic verses and Hadith (sayings of the Prophet Muhammad) that relate to science and natural phenomena. 4. Interpretation of these references by classical and contemporary scholars. 5. Islamic Ethics and Science: Exploration of Islamic ethical principles and their relevance to scientific research and innovation. 6. Discussions on the ethical boundaries and responsible use of scientific knowledge. 7. Islamic Philosophy of Science: Introduction to Islamic philosophy of science and the concept of "ilm" (knowledge) in Islamic tradition 8. Islamic Philosophy comparison with Western philosophy of science and different approaches to understanding the natural world. 9. Science in Islamic Civilization: In-depth study of specific scientific disciplines as developed by Islamic scholars, such as astronomy, mathematics, medicine, and optics. 10. The transmission of Islamic scientific knowledge to the West and its impact on the European Renaissance. 11. Contemporary Issues: Exploration of contemporary debates and discussions related to science and Islam, including topics like evolution, bioethics, and technology. 12. The challenges and opportunities of reconciling religious beliefs with modern scientific discoveries. Islamic Science and Technology Today: 13. Examination of the role of Islamic countries and organizations in current scientific research and development. 14. Case studies of Islamic contributions to fields like medicine, space exploration, and information technology.
Examination forms	Essay, Practicum
Study and examination requirements	<p>The final mark will be weighted as follows:</p> <ol style="list-style-type: none"> 1 Final Examination 40% 2 Mid-Term Examination 30% 3 Class Activities: Quiz, Homework, etc. 30%
Media employed	Board, LCD Projector, Laptop/Computer
Reading list	<ol style="list-style-type: none"> 1. Abdalah, Mohammad. <i>The Fate of Islamic Science between the Eleventh and Sixteenth-Centuries: A Critical Study of Scholarship from Ibn Khaldun to the Present</i>. PhD. Dissertation. Griffith University, 2003. 2. Ahmed, Akbar S. <i>Postmodernisme: Bahaya dan Harapan Bagi Islam</i>. cet. IV, Terjemah. Bandung: Mizan, 1996. 3. Al-Najjar, Zaghoul. <i>Selekta dari Tafsir Ayat-ayat Kosmos dalam Al-Qur'an al-Karim</i>. Jilid 1 dan 2. Jakarta: Shorouk International Bookshop, 2010.

4. Al-Sa'di, Abdulhakam Abdullatif. *al-Bi'ah fi al-Fikr al-Insani wal-Waqi' al-Imani*. Kairo: al-Dar al-Mishriyyah al-Lubnaniyah, 1994.
5. Al Faruqi, Ismail Raji dan Lamy Al Faruqi. *Atlas Budaya Islam*. terj. Moh. Ridzuan Othman et. al. Kuala Lumpur: Dewan Bahasa dan Pustaka Kementerian Pendidikan Malaysia, 1992.
6. Ancok, Djameluddin dan Fuad Nashori Suroso. *Psikologi Islami: Solusi Islam atas Problem-Problem Psikologi*. Cet. IV. Yogyakarta: Pustaka Pelajar, 2001.
7. Asy'ari, Musa. *Manusia Pembentuk Kebudayaan dalam Al-Qur'an*. Yogyakarta: Lembaga Study Filsafat Islam, 1992.
8. Audi, Robert. *Epistemology: A Contemporary Introduction to the Theory of Knowledge*. London and New York: Routledge, 1999.
9. Derry, Gregory N. *What is Science and How It Works*. United Kingdom: Princeton University Press, 1999.
10. Dewitt, Richard. *Philosophy of Science*. in ed. Fritz Allhoff. *Philosophies of the Sciences: A Guide*. United Kingdom: Wiley-Blackwell, 2010.
11. Effendi, Bachtiar. *Islam dan Negara: Transformasi Pemikiran dan Praktik Politik Islam di Indonesia*. Jakarta: Paramadina, 1998.
12. Geertz, Clifford. *Religion of Java*. New York: The Free Press of Glencoe, 1960.
13. Guessoum, Nidhal. *Islam's Quantum Question: Reconciling Muslim Tradition and Modern Science*. London-New York: I.B. Tauris, 2011.
14. Hitchcock, Christopher. *Introduction: What is the Philosophy of Science*. in ed. Christopher Hitchcock. *Contemporary Debates in Philosophy of Science*. USA: Blackwell Publishing Ltd., 2004.
15. Iqbal, Muzaffar. *Science and Islam: Greenwood Guides to Science and Religion*. London: Greenwood Press, 2007.
16. Lapidus, Ira M. *Sejarah Sosial Umat*. Terjemahan oleh Ghufron A. Mas'adi dari *A History of Islamic Societies*. Jakarta: PT Raja Grafindo Persada, 1999.
17. Madjid, Nurcholish. *Islam Doktrin dan Peradaban Sebuah Telaah Kritis tentang Masalah Keimanan, Kemanusiaan, dan Kemoderenan*. Cetakan kedua. Jakarta: Yayasan Wakaf Paramadina, 1992.
18. Mahmud, Hasan Ahmad. *Al-Islam wa al-Hadhrat al- Arabiyyah fi Asia al-Wustha baina Al-Fathatain al-'Arabi wa al-Turki 21 H-447 H*. Kuwait: Dar al-Fikr al-Arabia, 1986.
19. Masood, Ehsaan (ed.). *How Do You Know: Reading Ziauddin Sardar on Islam, Science and Cultural Relations*. London: Pluto Press, 2006.
20. Mones, Hussain. *Athlas Tarih al- Islam*. Kairo: Al-Zahra for Arab Mass Media. 1987.
21. Morvillo, Nancy. *Science and Religion: Understanding the Issues*. USA: Wiley-Blackwell, 2010.
22. Nasr, Seyyed Hossein. *Science and Civilization in Islam*. Chicago: ABC International Group, Inc., 2001.
23. Nasution, Harun. *Islam Ditinjau dari Berbagai Aspeknya*. Jilid 1. Jakarta: UI Press, 1985.
24. Nata, Abudin. *Metodologi Studi Islam*. Jakarta: Raja Grafindo Persada, 2006.
25. Nola, Robert and Gurol Irzik. *Philosophy, Science, Education and Culture*. Netherlands: Springer, 2005.
26. Okasha, Samir. *Philosophy of Science: A Very Short Introduction*. New York: Oxford University Press, 2002.
27. Pranowo, Bambang. *Memahami Islam Jawa*. Ciputat: Pustaka Alvabet dan INSEP, 2009

	<p>28. Putnam, Robert. <i>Making Democracy Work: Civic Tradition in Modern Italy</i>. Princeton NJ: Princeton University Press, 1993.</p> <p>29. Rosenthal, E.I.J. <i>Islam in the Modern National State</i>. Cambridge: Cambridge University Press, 1965.</p> <p>30. Rosenthal, Franz. <i>Knowledge Triumphant: The Concept of Knowledge in Medieval Islam</i>. Leiden-Boston: Brill, 2007.</p> <p>31. Sjadzali, Munawir. <i>Islam dan Tata Negara: Ajaran, Sejarah dan Pemikiran</i>. Jakarta: UI Press, 1993.</p> <p>32. Shihab, M. Quraish. <i>Membumikan Al-Qur'an: Fungsi dan Peran Wahyu dalam Kehidupan Masyarakat</i>. Bandung: Mizan, 1992.</p> <p>33. Shihab, M. Quraish. <i>Wawasan Al-Qur'an: Tafsir Maudhu'i atas Pelbagai Persoalan Umat</i>. Bandung: Mizan, 1996.</p> <p>34. Susanto, Musyrifah. <i>Sejarah Peradaban Islam</i>. Jakarta: Raja Grafindo, 2005.</p> <p>35. Thayyarah, Nadiah. <i>Sains dalam Al-Qur'an</i>. Jakarta: Zaman, 2013.</p> <p>36. Thohir, Ajid. <i>Studi Kawasan Dunia Islam</i>. Jakarta: Rajawali Press, 2009.</p> <p>37. Turner, Howard R. <i>Science in Medieval Islam: An Illustrated Introduction</i>. Austin: University of Texas Press, 2006.</p>
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Compilation Date : Oct 2nd, 2023

Modified Date : Oct 2nd, 2023