

FSA3000 Philosophy of Science

Irwan Hanish

Course Outline:

1. Philosophy and Science
2. Cosmology and Epistemology from Multiple Perspectives
3. Science Across Civilisations
4. Logic, Mathematics, and Scientific Method
5. Metaphysics and Scientific Thoughts
6. Science, Value Systems and Paradigms
7. Ethics in Science and Technology

Evaluation:

- 60% Coursework
 - 20% Essay (equivalent to Test 1)
 - 20% Midterm Test (equivalent to Test 2)
 - 20% SCL
- 40% Final Exam

Resources:

1. Stanford Encyclopedia of Philosophy. <https://plato.stanford.edu/index.html>
2. The Internet Encyclopedia of Philosophy. <https://iep.utm.edu/>
3. Selin H. (eds) (2016). *Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures*. Springer.
https://doi.org/10.1007/978-94-007-7747-7_8481
4. Promta S. (2016) *Buddhism and Science*. In: Selin (page 983).
5. Shankar D., Venkat P. (2016) *Health Sciences in India: Traditional Health Sciences and Their Contemporary Application*. In: Selin (page 2173).
6. Yaqeen Institute. *Nature and Science*. <https://yaqeeninstitute.ca/read/nature-science>
7. Bakar, O. (2008). *Tawhid and Science: Islamic Perspectives on Religion and Science* (2nd ed.). Arah Publications.
8. Kuhn, T. S. (2012). *The Structure of Scientific Revolutions: 50th anniversary edition* (4th ed.). Chicago University Press.
9. Rosenber, A., McIntyr, L. (2019) *Philosophy of Science: A Contemporary Introduction* (4th ed.). Routledge.
10. Hanish, I. (2024). The Immunity-Infection Arms Race: An Islamic Philosophical and Educational Perspectives. *Afkar*, 26(2), 69–114. **(Full article)**