Course Information

COURSE INFORMATION

Course Title	Code	Semester	L+U Hour	Credits	ECTS
History of Physics	FZK352.2	6. Semester	3 + 0	3.0	7.0

Prerequisites	None

Language of Instruction	English
Course Level	Bacheclor's Degree (First Cycle)
Course Type	Elective
Mode of delivery	Face to face
Course Coordinator	Assoc. Prof. Dr. Hüseyin ÇAVUŞ
Instructors	Assoc. Prof. Dr. Hüseyin ÇAVUŞ
Assistants	
Course Objectives	This course is an introduction to the history of science. We will explore evolution/development of science, physics and astronomy from earliest times to the present day
Course Content	Roots of science, Ancient Greek Science, Ancient Indian Science, Ancient Chinese Science, Science in Medieval Islam, Science in the Middle Ages, The Renaissance and Science Revolution, Science in the 17th Century, Science in the 18th Century, Science in the 19th Century, Science in the 20th Century, Classical Physics (Newtonian Physics), Modern Physics, Modern Physics, Final Exam
Course Learning Outcomes	1) comment the roots of science. 2) interpret the science in earliest times 3) comment about the science in the Middle Ages. 4) comprehend the science in 17-20th centuries. 5) comment about classical physics (Newtonian physics). 6) interpret the born of modern physics.

WEEKLY COURSE CONTENT

Week	Topics	Teaching and Learning Methods and Techniques	Study Materials
1. Week	Roots of science	Oral lectures Homeworks Seminar Discussions	
2. Week	Ancient Greek Science	Oral lectures Homeworks Seminar Discussions	

Quick Access

Physics
- Qualification Awarded
- Level of Qualification
- Qualification Requirements and Regulations
- Specific Admission Requirements
- Recognition of Prior Learning
- Profile of the Program
- Program Key Learning Outcomes
- Occupational Profile of Graduates
- Access to Further Studies
- Course Structure & Credits
- Exam Regulations & Assessment & Grading
- Graduation Requirements
- Mode of Study
- Programme Director(or Equivalent)
- Evaluation Questionnaire
- TYYÇ

Course Information
- Course Information
- Weekly Course Content
- Resources
- Assessment
- Course Category
- CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES
- ECTS credits and course workload

3. Week	Ancient Indian Science	Oral lectures Homeworks Seminar Discussions	
4. Week	Ancient Chinese Science	Oral lectures Homeworks Seminar Discussions	
5. Week	Science in Medieval Islam	Oral lectures Homeworks Seminar Discussions	
6. Week	Science in the Middle Ages	Oral lectures Homeworks Seminar Discussions	
7. Week	The Renaissance and Science Revolution	Oral lectures Homeworks Seminar Discussions	
8. Week	Science in the 17th Century	Oral lectures Homeworks Seminar Discussions	
9. Week	Science in the 18th Century	Oral lectures Homeworks Seminar Discussions	
10. Week	Science in the 19th Century	Oral lectures Homeworks Seminar Discussions	
11. Week	Science in the 20th Century	Oral lectures Homeworks Seminar Discussions	
12. Week	Classical Physics (Newtonian Physics)	Oral lectures Homeworks Seminar Discussions	
13. Week	Modern Physics	Oral lectures Homeworks Seminar Discussions	
14. Week	Modern Physics	Oral lectures Homeworks Seminar Discussions	
15. Week	General Review	Oral Lectures	
16. Week	Final Exam	Written Exam	

RESOURCES

Recommended Sources
Colin A. Ronan, 1983, Science: Its History and Development Among the World's Cultures, Facts on File
H. Floris Cohen, 1994, The Scientific Revolution: A Historiographical Inquiry, University of Chicago Press
M. Serres (ed.), 1995, A History of Scientific Thought: Elements of a History of Science. Oxford: Blackwell

ASSESSMENT

Measurement and Evaluation Methods and Techniques

40% Mid Term Exam 60% Final Exam

In-Term Studies	Quantity	Percentage
Mid Term Exam 1	1	40
Total	1	40
End-Term Studies	**Quantity**	**Percentage**
Final Exam	1	60
Total	1	60
Contribution Of In-Term Studies To Overall Grade		40
End-Term Studies		60
Total		100

COURSE CATEGORY

Course Category	Percentage
Support Courses	% 100

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

Programme Outcomes	Contribution Level	DK1	DK2	DK3	DK4	DK5	DK6
PY1	1	1	1	1	1	1	1
PY2	1	1	1	1	1	1	1
PY3	4	4	4	4	4	4	4
PY4	1	1	1	1	1	1	1
PY5	1	1	1	1	1	1	1
PY6	4	4	4	4	4	4	4
PY7	1	1	1	1	1	1	1
PY8	1	1	1	1	1	1	1
PY9	4	4	4	4	4	4	4
PY10	3	3	3	3	3	3	3
PY11	3	3	3	3	3	3	3
PY12	4	4	4	4	4	4	4
PY13	1	1	1	1	1	1	1
PY14	1	1	1	1	1	1	1
PY15	3	3	3	3	3	3	3

*DK = Course's Contrubution.

	0	1	2	3	4	5
Level of contribution	None	Very Low	Low	Fair	High	Very High

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ECTS CREDITS AND COURSE WORKLOAD

Event	Quantity	Duration (Hour)	Total Workload (Hour)
Class Hours (14 weeks)	14	3	42
Presentation/Seminar	2	2	4
Final Exam Preparation	1	22	22

Mid Term Exam Preparation	1	15	15
Assignment 1	1	10	10
Further Study	14	2	28
Mid Term Exam 1	1	2	2
Final Exam	1	2	2
Research&Project	2	15	30
Preliminary Study	14	1	14
Assignment 2	1	10	10
Total Workload			179
Total Workload / 25.5 (s)			7.02
ECTS Credit of the Course			7