



Çanakkale Onsekiz Mart University

Education Information System

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Course Information

COURSE INFORMATION

Course Title	Code	Semester	L+U Hour	Credits	ECTS
Remote Sensing Techniques I	FZ5006		3 + 0	3.0	7.5

Prerequisites	None
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Language of Instruction	Turkish
Course Level	Second Cycle
Course Type	Elective
Mode of delivery	Face to face
Course Coordinator	Assist. Prof. Dr. Mülayim GÜRE
Instructors	Prof. Dr. Osman DEMİRKAN
Assistants	
Course Objectives	To aim of this course learn the techniques of remote sensing.
Course Content	Description and development of remote sensing, electromagnetic spectrum, atmospheric (radiometric) corrections, reflection properties of object on the earth objects on earth, detectors, satellites, air platforms, satellite orbits, image classification.
Course Learning Outcomes	<ol style="list-style-type: none"> 1) Remote sensing concepts 2) The structure of the electromagnetic spectrum 3) Satellites and other platforms 4) Image types 5) Image processing software and applications

WEEKLY COURSE CONTENT

Week	Topics	Teaching and Learning Methods and Techniques	Study Materials
1. Week	Introduction	Spoken and written expression	
2. Week	The definition and development of remote sensing	Spoken and written expression	
3. Week	The electromagnetic spectrum	Spoken and written expression	
4. Week	Atmospheric effects	Spoken and written expression	
5. Week	Reflection properties of objects on earth	Spoken and written expression	

Quick Access

Physics (Master)

- 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
- Material Sharing
- Course Category
- CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES
- ECTS credits and course workload

6. Week	Active sensors	Spoken and written expression	
7. Week	Passive sensors	Spoken and written expression	
8. Week	Remote sensing satellites and other platforms	Spoken and written expression	
9. Week	Midterm Exam	Exam	
10. Week	Other platforms used in remote sensing	ResearchLecture Lecture	
11. Week	Satellite orbits	Spoken and written expression	
12. Week	Image types	Spoken and written expression	
13. Week	The software application	Spoken and written expression	
14. Week	Image correction	Spoken and written expression	
15. Week	Application areas	Aplication	
16. Week	Final	Final Exam	

RESOURCES

Recommended Sources
Ensen, John R. "Introductory digital image processing : a remote sensing perspective" Upper Saddle River, N.J. : Prentice Hall , 2005 : 3th baskı.
Lillesand, Thomas M. ; Thomas M. Lillesand, Ralph W. Kiefer, Jonathan W. Chipman, "Remote sensing and image interpretation", Wiley,lc c2004. , 2004 : 5th Ed

MATERIAL SHARING

uydu

ASSESSMENT

Measurement and Evaluation Methods and Techniques
Midterm Exam (40 %), Final Exam (60 %)Final

COURSE CATEGORY

Course Category	Percentage
Support Courses	% 50

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

Programme Outcomes	Contribution Level	DK1	DK2	DK3	DK4	DK5
<u>PY1</u>	2	2	2	2	2	2
<u>PY2</u>	2	2	2	2	2	2
<u>PY3</u>	4	4	4	4	4	4
<u>PY4</u>	1	2	1	1	1	1
<u>PY5</u>	1	1	1	1	1	1
<u>PY6</u>	4	4	4	4	4	4

<u>PY7</u>	2	2	2	2	2	2
<u>PY8</u>	2	3	1	1	3	3
<u>PY9</u>	2	4	1	1	1	4
<u>PY10</u>	1	1	1	1	1	1
<u>PY11</u>	2	2	2	2	2	2
<u>PY12</u>	1	1	1	1	1	4
<u>PY13</u>	3	3	2	3	3	3
<u>PY14</u>	3	4	2	4	2	2
<u>PY15</u>	1	1	1	1	1	1

*DK = Course's Contribution.

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

ECTS CREDITS AND COURSE WORKLOAD

Event	Quantity	Duration (Hour)	Total Workload (Hour)
Final Exam Preparation	1	6	6
Mid Term Exam Preparation	1	6	6
Further Study	16	3	48
Preliminary Study	14	3	42
Research&Project	7	3	21
Class Hours (14 weeks)	16	3	48
Application/Practice	10	2	20
Total Workload			191
Total Workload / 25.5 (s)			7.49
ECTS Credit of the Course			7