

[DEGREE PROGRAMMES](#)[BOLOGNA](#)[THE INSTITUTION](#)[INFO FOR STUDENTS](#)You are here : [Home](#) [Master's Degree& Doctorate Degree](#) [Physics \(PhD\)](#) [Techniques Of Remote Sensing II](#) **Course Information**

Course Information

COURSE INFORMATION

Course Title	Code	Semester	L+U Hour	Credits	ECTS
Techniques Of Remote Sensing II	FZ-6007		3 + 0	3.0	7.5

Prerequisites	None
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Language of Instruction	Turkish
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Course Level	Third Cycle
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Course Type	Elective
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Mode of delivery	Face to face
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Course Coordinator	Assist. Prof. Dr. Mülayim GÜRE
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Instructors	Prof. Dr. Osman DEMİRKAN
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Assistants	
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Course Objectives	The purpose of this course is to get information about collection, processing and storage of data and also to learn GIS program practically.
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Course Content	Topics of this course are as follows: data acquisition, data processing, data storage, GIS systems, geometric correcting procedures, satellite data processing, data in a GIS program applications
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Course Learning Outcomes	<ol style="list-style-type: none"> 1) To know the data types, structure, and collection. 2) To Apply the data processing and storing 3) Users that GIS systems 4) GIS system will integrate theory and applications of GPS. 5) To make image processing principles and applications of GIS program
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WEEKLY COURSE CONTENT

Week	Topics	Teaching and Learning Methods and Techniques	Study Materials
1. Week	Data structures	Reading	
2. Week	Data types	Research	
3. Week	The data collection	Research	
4. Week	Data processing	Practice	
5. Week	Data storage	Practice	
6. Week	GIS systems	Lecture	
7. Week	Theory and applications of GPS	Homework	

Quick Access

Physics (PhD)

- 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

8. Week	Applications of GPS	Practice	
9. Week	Midterm exam	Exams	
10. Week	Geometric correction procedures	Research	
11. Week	Image processing procedures	Research	
12. Week	Satellite data processing	Practice	
13. Week	Associating of processed satellite data with GIS	Practice	
14. Week	Data in a GIS program applications	Practice	
15. Week	The applications of GIS program	Homework	
16. Week	Final	Exam	

RESOURCES

Recommended Sources
1- Jensen, John R. "Introductory digital image processing : a remote sensing perspective" Upper Saddle River, N.J. : Prentice Hall , 2005 : 3th Ed
2- Yomrahoğlu T, "Coğrafi Bilgi Sistemleri: Temel Kavramlar ve Uygulamalar", 2000, ISBN: 975-97369-0-X, İstanbul: İber Matbaası, 2009 :5th Ed
3-Lillesand, Thomas M. ; Thomas M. Lillesand, Ralph W. Kiefer, Jonathan W. Chipman, "Remote sensing and image interpretation", Wiley, c2004. , 2004 : 5th Ed

MATERIAL SHARING

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ASSESSMENT

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

COURSE CATEGORY

Course Category	Percentage
Area of?Specialization Courses	% 40

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME OUTCOMES

Programme Outcomes	Contribution Level	DK1	DK2	DK3	DK4	DK5
<u>PY1</u>	2	1	1	2	2	3
<u>PY2</u>	2	2	2	2	2	2
<u>PY3</u>	3	3	2	3	2	3
<u>PY4</u>	2	3	2	2	2	3
<u>PY5</u>	2	2	2	2	3	3
<u>PY6</u>	4	4	4	4	4	4
<u>PY7</u>	2	2	2	2	2	2
<u>PY8</u>	3	3	3	3	3	3
<u>PY9</u>	2	2	2	2	2	2
<u>PY10</u>	1	1	1	1	1	1
<u>PY11</u>	2	2	2	2	2	2

<u>PY12</u>	2	2	2	2	2	2
<u>PY13</u>	1	1	1	1	1	1
<u>PY14</u>	2	2	2	2	2	2
<u>PY15</u>	2	2	2	2	2	2

*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	1	2	2
Class Hours (14 weeks)	14	3	42
Presentation/Seminar	3	2	6
Final Exam Preparation	1	6	6
Mid Term Exam Preparation	1	6	6
Further Study	14	2	28
Application/Practice	6	2	12
Fieldwork	14	5	70
Preliminary Study	14	1	14
Assignment 1	1	5	5
Total Workload			191
Total Workload / 25.5 (s)			7.49
ECTS Credit of the Course			7