

**DEPARTMENT OF PUBLIC ADMINISTRATION
DISASTER MANAGEMENT MASTER'S PROGRAM
COURSE DESCRIPTIONS
(2020-2021 SPRING SEMESTER)**

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COURSE DESCRIPTION

Course Title	Critical Infrastructure Security and Management in Disasters
Language of Instruction	Turkish
Course Semester	Spring
Course Type	Elective
Course Objective	This course aims to address the approaches covering all measures taken regarding the protection, security and management of critical infrastructure systems in countries in case of any disaster in the context of homeland security.
Course Description	This course deals with all aspects of the security of critical infrastructures related to disasters and disaster management.
Lecturer(s)	Prof.Dr. Elif Çolakoğlu
Reading List	The course materials differ according to the subject of the course and separate and up-to-date readings are given for each week/topic.

WEEKLY COURSE PLAN	
Weeks	Course Contents
1st Week	Introduction/Distribution of obligations/Subject distribution General conceptual framework for “critical infrastructures” and “disaster”/The importance of critical infrastructures in national security strategies/law enforcement and critical infrastructures
2nd Week	Border security as critical infrastructures/critical infrastructures linked to defense industry sector and its security
3rd Week	Protection of valuable government assets and basic functions (critical services, facilities, information networks, sites of national importance and monuments)
4th Week	Security of energy installations and networks (electric energy, oil and gas production, storage facilities and refineries, transmission and distribution systems)/Security of nuclear power plants
5th Week	Natural gas pipelines security
6th Week	Transportation networks (highways, seaways, railways and airlines) infrastructures and security
7th Week	<i>Midterm Exam</i>
8th Week	Security of communication and information technologies and infrastructures (telecommunications, broadcast systems, software, hardware and networks, including the Internet)
9th Week	Protection and security of health services and its structures (Hospitals, health and blood supply facilities, laboratories and pharmaceutical products, search and rescue, emergency services)
10th Week	Protection and security of food, its structures and networks (food security, means of production, wholesale distribution and food industry)
11th Week	Protection and safety of water infrastructures (dams, storage, treatment and networks)
12th Week	Production, storage and transportation of dangerous goods such as chemical, biological, radiological and nuclear materials

13th Week	Protection and security of financing services (banking, securities and investment)
14th Week	Terrorism threat, security of cities and critical infrastructures General Evaluation
15th Week	<i>Final Exam</i>

ASSESSMENT METHODS AND CRITERIA		
Term Learning Activities	Quantity	Percent age %
Attendance	1	10
Quiz	-	-
Midterm Exam	1	30
Practice	-	-
Term Project	-	-
Homework / Presentation	2	20
Final Exam	1	40
Total	5	100

ECTS (STUDENT WORKLOAD)			
Activities	Quantity	Duration (Hour)	Total Workload
Lectures	14	3	42
Study hours out of classroom	14	3	42
Presentation / Seminar	1	9	9
Project	-	-	-
Homework	1	9	9
Midterm Exam	1	19	19
Final Exam	1	29	29
Total	32	72	150
ECTS Credits			7

COURSE LEARNING OUTCOMES	
No.	Explanation
LO1	Learns the basic concepts of critical infrastructures
LO2	Becomes more aware of the consequences of possible vulnerabilities that may arise in the event of a disaster
LO3	Identify critical infrastructures in the context of national and international infrastructure conservation plans and strategies
LO4	Gains knowledge of vulnerability and resistance
LO5	Evaluates direct and/or indirect effects of disasters on critical infrastructures
LO6	Learn risk management techniques for analyzing and evaluating facilities to develop security and resilience strategies to improve the protection of critical infrastructures
LO7	Have the ability to apply knowledge about relevant concepts and methods to new areas in order to analyze the security and durability of infrastructures
LO8	Knows what can be done to defend and protect critical infrastructures that can become targets in case of conflict or war

PROGRAMME LEARNING OUTCOMES	
No.	Explanation
PO1	Knows the phases of disaster and emergency management
PO2	Understands the multidisciplinary interaction associated with disaster
PO3	Knows the minimal standards for struggle in disaster and emergencies
PO4	Uses management resources properly in disaster and emergencies
PO5	Works towards mitigation in disasters and emergencies, and takes responsibility as an individual and a team, along with her/his entrepreneurial skills, in addition to being able to lead
PO6	Follows the emerging theoretical and practical developments in Disaster Management at a national and international scale with an academic perspective
PO7	Knows the rules about complying with professional, ethical principles
PO8	Knows the logistics applications in disaster and emergencies

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME OUTCOMES								
ALL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	5	5	5	5	5	5	5	5
LO2	5	5	5	5	5	5	5	5
LO3	5	5	5	5	5	5	5	5
LO4	5	5	5	5	5	5	5	5
LO5	5	5	5	5	5	5	5	5
LO6	5	5	5	5	5	5	5	5
LO7	5	5	5	5	5	5	5	5
LO8	5	5	5	5	5	5	5	5
CONTRIBUTION LEVEL: 1-Very Low 2-Low 3-Medium 4-High 5-Very High								

COURSE DESCRIPTION

Course Title	Disaster Management in Provincial and Local Administrations
Language of Instruction	Turkish
Course Semester	Spring
Course Type	Elective
Course Objective	This course aims to teach students the functions and responsibilities of provincial and local administration units in disaster management and the administrative organization of the disaster management. So that, students who absorb the development of disaster management in the historical process can work on issues such as inter-institutional cooperation and coordination to make disaster management more effective and functional.
Course Description	In this course, the structure of the Republic of Turkey by considering the administrative organization of central, provincial and local government units and their functions are analyzed. After the administrative organization structure is comprehended, institutional structuring of disaster management and the positioning of this structuring in the administrative organization will be analyzed. Relations between AFAD, a central governmental agency and its provincial organization, and provincial administration units and local governments will be examined. The authorities and responsibilities of local administration units in disaster management will be questioned from legal, institutional and conceptual perspectives. Activities of local governments in terms of disaster management will be exemplified.
Lecturer(s)	Doç.Dr. Tekin Avaner
Reading List	<ul style="list-style-type: none"> • Yaman, M. ve Çakır, E. (2020). Farklı Boyutlarıyla Afet Yönetimi, Nobel Akademik Yayıncılık, Ankara • Şengün, H., Meydan Yıldız, S.G, Tercan, B. (2018). Türkiye'nin Afet Yönetimi-Sosyal, Siyasal ve Yönetim Boyutuyla, Palme Yayınevi. • Eryılmaz, B. (2019). Kamu Yönetimi, Umutepe yayınları • Görmez, K. (2018). Yerel Yönetimler, Orion Kitapevi • In addition, a reading list for each week will be given.

WEEKLY COURSE TOPICS	
Weeks	Topics to be discussed / covered
1st Week	Basic Concepts and Disaster Legislation
2nd Week	Turkish Administrative Structure and Disaster Management
3rd Week	Provincial Administration and Disaster Management
4th Week	Local Administrations and Their Role in Combating Disasters
5th Week	Institutional Structuring in Disaster Management and the Position of the Disaster and Emergency Management Presidency (AFAD) in the Administrative Structure

6th Week	Provincial and District Organization of AFAD
7th Week	Midterm
8th Week	Institutional Authorities and Responsibilities in Disaster Management
9th Week	Duties and Responsibilities of Local Administrations in Disaster Management
10th Week	Local Administrations and AFAD within the Scope of Interinstitutional Cooperation
11th Week	Urbanization and Resilient Cities in Terms of Disaster Management
12th Week	Duties and Powers of the General Law Enforcement in Disaster Management
13th Week	Disaster Management and the Place and Importance of Gendarmerie
14th Week	Organization of Training and Search and Rescue Activities in Disaster Management
15th Week	Final Exam

ASSESSMENT METHODS AND CRITERIA		
Semester Studies	Number	Contribution %
Participation	1	10
Quiz	-	-
Midterm exam	1	30
Application	-	-
Project	-	-
HW/Presentation	1	20
Final exam	1	40
Total	4	100

ECTS (STUDENT WORKLOAD)			
Activities	Number	Duration (Hour)	Total Workload
Course Duration	14	3	42
Out-of-Class Study Time	14	3	42
Preparing Presentation/ Seminar	1	9	9
Project	-	-	-
Homeworks	1	9	9
Midterm exam	1	19	19
Final exam	1	29	29
Total	32	72	150
AKTS Credit			7

COURSE LEARNING OUTCOMES	
S. No	Explanation
S1	Students have knowledge about the structure of the administrative organization of the Republic of Turkey
Ö2	Distinguish between central, provincial and local administration units
Ö3	Learn the basic concepts of disaster management
S4	Interpret the legal regulations regarding disaster management
S5	Has information about institutional structuring on disaster management
S6	Can understand the powers and responsibilities of local administrations in disaster management
	Can develop urbanization policies in terms of disaster management

S7	
Ö8	Gains academic perspective by learning the basic subjects of public administration related to disaster management in the world and Turkey, and follows developments in the discipline

PROGRAM COMPETENCES	
S.No	Explanation
P1	Knows the phases of disaster and emergency management
P2	Understands the multidisciplinary interaction associated with disaster
P3	Knows the minimal standards for struggle in disaster and emergencies
P4	Uses management resources properly in disaster and emergencies
P5	Works towards mitigation in disasters and emergencies, and takes responsibility as an individual and a team, along with her/his entrepreneurial skills, in addition to being able to lead
P6	Follows the emerging theoretical and practical developments in Disaster Management at a national and international scale with an academic perspective
P7	Knows the rules about complying with professional, ethical principles
P8	Knows the logistics applications in disaster and emergencies

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAM COMPETENCE								
All	P1	P2	P3	P4	P5	P6	P7	P8
S1	5	4	4	4	4	4	4	4
Ö2	4	5	4	4	4	4	4	4
Ö3	4	4	5	4	4	4	4	4
S4	4	4	4	5	4	4	4	4
S5	4	4	4	4	5	4	4	4
S6	4	4	4	4	4	5	4	4
S7	4	4	4	4	4	4	5	4
Ö8	4	4	4	4	4	4	4	5
CONTRIBUTION LEVEL: 1-Very Low 2-Low 3-Medium 4-High 5-Very High								

COURSE DESCRIPTION

Course Title	Research Methods and Techniques
Language of Instruction	Turkish
Course Semester	Spring
Course Type	Elective
Objectives	The main purpose of this course is to make students' minds clear on science, scientific methodology and scientific research; and bring them in a basic level academic proficiency which they can benefit in every phase of the scientific research process from selection of the subject to writing the report.
Lecturer	Dr.Hayrettin KÜPELİ, Gend.Lt.Col.
References	<p>Main References</p> <ul style="list-style-type: none"> • Kumar, Ranjit. Research Methodology: A Step-by-step Guide for Beginners, Sage Publication, London, 2011. • Neuman, W.Lawrence, Social Research Methods: Qualitative and Quantitative Approaches, Pearson Education Limited, USA, 2014. • Christensen, Larry B., Experimental Methodology, Allyn and Bacon, Boston, 2001. • Day, Robert A. & Barbara Gastel, How to Write and Publish a Scientific Paper?, Greenwood, USA, 2016. <p>Secondary References</p> <ul style="list-style-type: none"> • Kuhn, Thomas S. The Structure of Scientific Revolutions. 50th Anniversary Edition, University of Chicago Press, Chicago, 1996. • Popper, Karl R. The Logic of Scientific Discovery, Routledge Classics, London and New York, 2002.

WEEKLY COURSE SCHEDULE	
Weeks	Subjects to Discuss/Study
1st Week	Introduction, Scientific Methodology, Philosophy of Science, Methodology and Methods
2nd Week	Research Process (Eight Step Model) and The Island of Research, Ethics in Scientific Research
3rd Week	<p>Research Process 1st Phase (Deciding on What to Research)</p> <p>Step 1: Formulating a Research Problem</p> <ul style="list-style-type: none"> -Literature Review -Research Problem -Variables -Hypotheses
4th Week	<p>Research Process 2nd Phase (Planning)</p> <p>Step 2: Research Design</p>
5th Week	<p>Step 3: Data Collection</p> <ul style="list-style-type: none"> -Tools of Data Collection - Validity and Reliability <p>Step 4: Selecting a Sample</p>
6th Week	Step 5: Writing a Research Proposal
7th Week	Watching The Movie "12 Angry Men" and Analysis (Quiz)
8th Week	Student Presentations on Scientific Article Reviews
9th Week	Student Presentations on Thesis or Dissertation Reviews
10th Week	<p>Research Process 3rd Phase (Conducting)</p> <p>Step 6: Collecting Data</p>

	Step 7: Processing and Presenting Data
11th Week	Step 8: Writing a Research Report (<i>IMRAD- Introduction, Methodology, Results and Discussion</i>) Security Sciences Institute Thesis/Dissertation Writing Guide.
12th Week	Student Presentations on Research Proposals
13th Week	Student Presentations on Research Proposals
14th Week	Student Presentations on Research Proposals
15th Week	Student Presentations on Research Proposals

Assessment System*		
Subject of The Assessment	Number	Contribution rate %
Attending	1	10
Quiz	1	10
Mid-Term Exam	-	-
Implementation	-	-
Project	1	50
Assignments	1	30
Final Exam	-	-
Total Sum	4	100

ECTS and Study Hours			
Activities	Number	Duration (Hour)	Total (Hour)
Lessons	15	3	45
Out of the Classroom Study Time	14	6	84
Preparing Presentations	1	20	20
Project	1	40	40
Assignments	1	15	15
Mid-Term Exam	-	-	-
Final Exam	-	-	-
Total Sum			204
ECTS Credit			8

COURSE LEARNING OUTCOMES	
No.	Descriptions
O1	Having Basic Level Cognitive Knowledge on Scientific Methodology, Philosophy of Science, Methodology and Methods
O2	Learning the Phases and Steps of Scientific Research Methodology
O3	Apprehending Ethics in Scientific Research
O4	Apprehending How to Choose Research Subject and Formulating a Research Problem
O5	Gaining the Ability to Design Research
O6	Learning Data Collecting Tools
O7	Gaining the Ability for Formulating Proper Sample and Population
O8	Learning How to Write a Research Proposal
O9	Gaining the Ability for Data Collecting and Analyzing
O10	Learning How to Write a Research Report

PROGRAMME OUTCOMES	
No.	Explanation
PO1	Knows the phases of disaster and emergency management
PO2	Understands the multidisciplinary interaction associated with disaster
PO3	Knows the minimal standards for struggle in disaster and emergencies
PO4	Uses management resources properly in disaster and emergencies
PO5	Works towards mitigation in disasters and emergencies, and takes responsibility as an individual and a team, along with her/his entrepreneurial skills, in addition to being able to lead
PO6	Follows the emerging theoretical and practical developments in Disaster Management at a national and international scale with an academic perspective
PO7	Knows the rules about complying with professional, ethical principles
PO8	Knows the logistics applications in disaster and emergencies

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME OUTCOMES								
ALL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	4	4	5	4	5	4	5
LO2	3	4	4	5	4	5	4	5
LO3	3	4	4	5	4	5	4	5
LO4	3	4	4	5	4	5	4	5
LO5	3	4	4	5	4	5	4	5
LO6	3	4	4	5	4	5	4	5
LO7	3	4	4	5	4	5	4	4
LO8	3	4	4	5	4	5	4	4
LO9	3	4	4	5	4	5	4	4
LO10	3	4	4	5	4	5	4	4
CONTRIBUTION LEVEL: 1-Very Low 2-Low 3-Medium 4-High 5-Very High								

COURSE DESCRIPTION

COURSE TITLE	Disaster Risk Reduction Strategies and Policies
Language of Instruction	Turkish
Course Semester	Spring
Course Type	Elective
Course Objective	<p>Disasters, which are the fact of our country, are considered a natural and human-caused phenomenon that deeply affects individuals' social, economic, and psychological lives today. Landslides, floods, rocks, avalanches and droughts, primarily earthquakes, are among the natural disasters that require communities to be organized, conscious and educated. Every year, 140,000 people lose their lives due to natural and technological disasters; 96% of life loss occurs in developing countries. After the Kocaeli and Duzce earthquakes in Turkey in 1999, which affected a large part of society, disaster, disaster management and disaster risk reduction concepts were frequently raised in all public opinion, especially in academic circles, public administration organizations and NGO's. Discussions around these concepts are of interest to all parts of society.</p> <p>This course aims to increase the level of knowledge and awareness of students about disaster risk reduction policies and strategies, to discuss the exchange of information and practices on a national and international scale. The course scope aims to give students, as one of society's members, disaster awareness and responsibility by taking an integrated perspective of the disaster risk reduction process.</p>
Course Description	<p>Global disasters and countries' ability to deal with these problems, risk reduction studies, reports prepared especially at the United Nations, accepted international conventions, and governments' commitments are topics to be addressed within the course scope.</p> <ul style="list-style-type: none"> • Disaster Risk Reduction Concepts and Definitions • Stages, Principles of Disaster Risk Reduction Management • International Principles in Disaster Risk Reduction Management • Legal and Institutional Structure and Development of Disaster Risk Reduction Management System • Disaster Risk Reduction International Policies and Strategies: United Nations and Disaster Risk Reduction Studies • Disasters and Turkey's Disaster Profile • National Policies and Strategies for Disaster Risk Reduction • Disaster Risk Reduction Management and Physical Planning • Disaster Risk Reduction and Resilient Cities • Opportunities to Benefit from Information Technologies in Disaster Risk Reduction Management: Disaster Information Systems • Disaster Risk Reduction and Urban Transformation • Disaster Risk Reduction and Risk Transfer Mechanisms • Risk Reduction Activities in Different Country Examples (USA, Chile, Japan, EU ext.)
Lecturer(s)	Prof.Dr. Asli Akay

Reading List

Many different sources will be used as a textbook, mainly as follows. Basic books, articles, reports that varied by week will be used.

- Akay, A. (2016). Türkiye’de Afet Politikaları. [Kartal, F. (der.)] Kamu Politikaları. Yayın no: 386, TODAİE Yayınları: Ankara.
- Akay, A. (2017). Türkiye’de Afet Yönetimi Politikaları. [Özmen, B. (der.)] Afet Yönetimi II. Yayın no: 3604, Anadolu Üniversitesi Yayınları: Eskişehir.
- Akay, A. (2018). Afet Risk Azaltma Politika ve Stratejileri. [Akay, A. & Pekkan, E. (der.)] Afet Risk Azaltma Politikaları. Yayın no: 3727, Anadolu Üniversitesi Yayınları: Eskişehir. Akay, A., (2002). Kocaeli Depremi Sonrası Yalova İli Gelişim Plan Stratejileri, Ankara Üniversitesi Fen Bilimleri Enstitüsü Peyzaj Mimarlığı ABD, Basılmamış Doktora Tezi, Ankara.
- Akay, A. & Özmen, Ö.T. (2018). Afet ve Acil Durum Başkanlığı’nın (AFAD) Afet Yönetimindeki Rolü. [Özmen, B. (der.)] Afet Yönetimi II. Yayın no: 3604, Anadolu Üniversitesi Yayınları: Eskişehir.
- Akay, A. (2019). İklim Değişikliğinin Neden Olduğu Afetlerin Etkileri. İklim Değişikliği Alanında Ortak Çabaların Desteklenmesi Projesi (iklimİN), İklim Değişikliği Eğitim Modülleri Serisi 15, Çevre ve Şehircilik Bakanlığı, Ankara.
- Balamir, M. (2007), Afet Politikası Risk ve Planlama, TMMOB Afet Sempozyumu, 5–7-Aralık-2007, Bildiriler Kitabı, Ankara.
- Başbakanlık, (2000), Depremler 1999, Başbakanlık Kriz Yönetim Merkezi Yayını, s. 10, Ankara.
- Can, E. (2005), Entegre Afet Yönetim Sistemi ve İlkeleri, Kadioğlu, M. ve Özdamar E. eds. , Afet Yönetiminin Temel İlkeleri” içinde, 1–9, JICA Türkiye Ofisi Yayın No: 1, Ankara.
- CRED, (2019). Natural Disasters, 2019 Report.
- Ergünay, O. (2002), Afete Hazırlık ve Afet Yönetimi, Türkiye Kızılay Derneği Genel Müdürlüğü, Afet Operasyon Merkezi (AFOM).
- Ergünay, O. (2005), Afet Yönetiminde İş birliği ve Koordinasyonun Önemi, Kadioğlu, M. ve Özdamar E. eds., Afet Yönetiminin Temel İlkeleri” içinde, 9-19, JICA Türkiye Ofisi Yayın No: 1, Ankara.
- Firik, M. (2005), Gönüllü Kaynaklar ve Sivil Toplum Kuruluşları İle İlişkiler, Kadioğlu, M. ve Özdamar E. eds. , Afet Yönetiminin Temel İlkeleri” içinde, 159–165, JICA Türkiye Ofisi Yayın No: 1, Ankara.
- Freeman, P. (2004), Preparedness for Natural Disasters: An Overview, The Role of Local Governments in Reducing The Risk Of Disasters, Edited by Katalin Demeter, Nihal Ekin Erkan, Ayşe Güner, World Bank Institute, Beta Basın Yayın Dağıtım, 195.
- Geray, C. (1977), Türkiye’de Yıkım (Afet) Olayları Karşısında Önlemler ve Örgütlenmeler, Amme İdaresi Dergisi, Cilt 10, Sayı: 3, Eylül 1977, Ankara.
- Güler, H. (2005), Afetlere Hazırlıklı Olmak, ODTÜ, Afet Yönetimi Uygulama ve Araştırma Merkezi, Kadioğlu, M. ve Özdamar E. eds., Afet Yönetiminin Temel İlkeleri” içinde, JICA Türkiye Ofisi Yayın No: 1, Ankara.
- Gülkan ve diğerleri (2005), Afet Yönetiminin Stratejik İlkeleri: Dünyadaki ve Türkiye’deki Politikalara Genel Bakış, ODTÜ, Afet Yönetimi Uygulama ve Araştırma Merkezi, Kadioğlu, M. ve Özdamar

	<p>E. eds., Afet Yönetiminin Temel İlkeleri” içinde, 19–43, JICA Türkiye Ofisi Yayın No: 1, Ankara.</p> <ul style="list-style-type: none"> • JICA, (2004), Türkiye’de Doğal Afetler Konulu Ülke Strateji Raporu, 2004, JICA Türkiye Ofisi, MWH, Mühendislik ve Müşavirlik Ltd. • Kurita, T. (2005), Japonya’daki Sismik Tasarım Kanunu ve Güçlendirme Önlemleri, Kadioğlu, M. ve Özdamar E. eds., Afet Yönetiminin Temel İlkeleri” içinde, 362-365, JICA Türkiye Ofisi Yayın No: 1, Ankara. • Nishikawa S. (2005), Japonya’da Afet Yönetim Sisteminin Gelişimi, Kadioğlu, M. ve Özdamar E. eds. Afet Yönetiminin Temel İlkeleri” içinde, 356–362, JICA Türkiye Ofisi Yayın No: 1, Ankara. • Opitz-Stapleton, S., Nadin, R. et al., (2019). Risk-informed development, From crisis to resilience. • Özmen, B., Nurlu, M., Kuterdem, K., Temiz, A. (2005), Afet Yönetimi ve Afet İşleri Genel Müdürlüğü, Deprem Sempozyumu Kocaeli 2005,23-25 Mart 2005, Grand Yükseliş Hotel, Kocaeli. • Tarhan, B. ve Ergönenç, S. (2008), Acil Durum ve Afet Yönetimi İnceleme Raporu, Başbakanlık Teftiş Kurulu, Ankara. • UN-OCHA (2019). United Nations-Coordinated Support To People Affected By Disaster And Conflict, Global Humanitarian Report 2020.Elsevier, 2017. A Global Outlook On Disaster Science Report. • UNISDR, (2015). Sendai Framework for Disaster Risk Reduction. https://www.unisdr.org/we/coordinate/sendai/framework • UNISDR, (2018). Şehirler Dirençli Hale Geliyor, Şehrim Hazırlıyor. United Nations International Strategy for Disaster Reduction. • Yılmaz, A. (2003), Türk Kamu Yönetiminin Sorun alanlarından Biri Olarak Afet Yönetimi, PEGEM Yayıncılık, Ankara. • World Bank (2010) Development and Climate Change. World Development Report, 2010. Washington, DC: World Bank.
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WEEKLY COURSE PLAN	
Weeks	Course Contents
1st Week	Disaster Risk Reduction Concepts and Definitions
2nd Week	Stages of Disaster Risk Reduction Management, Principles, Relations with Development
3rd Week	International Principles and Principles in Disaster Risk Reduction Management, Climate Change Adaptation Relationship
4th Week	Legal and Institutional Structure and Development of Disaster Risk Reduction Management System
5th Week	International Policies and Strategies of Disaster Risk Reduction: United Nations and Disaster Risk Mitigation Studies
6th Week	Disasters and Turkey's Disaster Profile
7th Week	National Policies and Strategies for Disaster Risk Reduction
8th Week	Disaster Risk Reduction Management and Physical Planning
9th Week	Disaster Risk Reduction and Resilient Cities
10th Week	Opportunities to Benefit from Information Technologies in Disaster Risk Reduction Management: Disaster Information Systems

11th Week	Disaster Risk Reduction and Urban Transformation
12th Week	Disaster Risk Reduction and Risk Transfer Mechanisms
13th Week	Risk Reduction Strategies and Policies in Different Country Examples: America-Japan
14th Week	Risk Reduction Strategies and Policies in Different Country Examples- Chile-European Union
15th Week	Final Exam

ASSESSMENT METHODS AND CRITERIA		
Term Learning Activities	Quantity	Percentage, %
Attendance	-	-
Quiz	-	-
Midterm Exam	-	-
Practice	-	-
Term Project	-	-
Homework / Presentation	-	30
Final Exam	-	70
Total	-	100

ECTS* (STUDENT WORKLOAD)			
Activities	Quantity	Duration (Hour)	Total Workload
Lectures	14	3	42
Study hours out of classroom (Study before and after the class)	14	3	42
Presentation / Seminar	1	9	9
Project (Term Paper)	-	-	-
Homework	1	9	9
Midterm Exam	1	19	19
Final Exam	1	29	29
Total	32	72	150
ECTS Credits			7

COURSE LEARNING OUTCOMES	
No.	Descriptions
LO1	To recognize and express the role of disaster and risk reduction policies in efforts to promote sustainability
LO2	To characterize the objectives of international and national disaster risk reduction policies
LO3	To understand the factors and assets that determine the progress towards disaster risk management that supports sustainable development
LO4	To realize the potential for interdisciplinary work to reduce disaster risks
LO5	To produce information to develop sustainable solutions for specific disaster risks
LO6	Learn to apply their analytical skills to propose practical solutions to their problems during Turkey's disaster risk management process
LO7	To recognize and express the role of disaster and risk reduction policies in efforts to promote sustainability
LO8	To characterize the objectives of international and national disaster risk reduction policies
LO9	To understand the factors and assets that determine the progress towards disaster risk management that supports sustainable development

LO10	To realize the potential for interdisciplinary work to reduce disaster risks
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PROGRAMME OUTCOMES	
No.	Explanation
PO1	Knows the phases of disaster and emergency management
PO2	Understands the multidisciplinary interaction associated with disaster
PO3	Knows the minimal standards for struggle in disaster and emergencies
PO4	Uses management resources properly in disaster and emergencies
PO5	Works towards mitigation in disasters and emergencies, and takes responsibility as an individual and a team, along with her/his entrepreneurial skills, in addition to being able to lead
PO6	Follows the emerging theoretical and practical developments in Disaster Management at a national and international scale with an academic perspective
PO7	Knows the rules about complying with professional, ethical principles
PO8	Knows the logistics applications in disaster and emergencies

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME OUTCOMES								
ALL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	5	5	2	4	2	4	2	1
LO2	3	4	1	4	4	5	2	1
LO3	5	5	3	4	5	5	3	3
LO4	4	5	5	5	5	5	4	3
LO5	5	5	4	4	4	5	5	5
LO6	4	5	5	5	5	4	4	5
CONTRIBUTION LEVEL: 1-Very Low 2-Low 3-Medium 4-High 5-Very High								

COURSE DESCRIPTION

COURSE TITLE	CBRN Risks and Management in Disasters
Language of Instruction	Turkish
Course Semester	Spring
Course Type	Elective
Course Objective	This Course aims to give the students required information about the effects of emergency situations and events (terror, war, industrial explosion, etc) due to the use of CBRN (Chemical Biological Radiological and Nuclear) agents, and how to mitigate and protect and be prepared against those agents.
Course Description	With the development of technology, the potential of mass destruction weapons, also called CBRN weapons, to be developed and used by both states and terrorist groups continues today. Reducing the damages against this threat, effectively responding to these events and developing protection measures against them can be carried out within a good planning. In order to achieve this goal, the preparations to be made before the CBRN events, the things to be done during the event and the planning and practices at national and local level will constitute the main axis of the course.
Lecturer(s)	Prof.Dr. Levent Kenar
Reading List	<ul style="list-style-type: none"> - Kenar L., Karayılanoglu T., "A Turkish Medical Rescue Team against NBC Weapons", Military Medicine, 169(2): 94-96, 2004. - Kenar L., Karayılanoglu T., "Medical Preparedness Against Chemical and Biological Incidents for NATO Summit-Istanbul and Lessons Learned", Prehospital and Disaster Medicine, 21(4), 268-271, 2006 - Kimyasal ve Biyolojik Terörizm, GATA Basımevi, 2002. - Kimyasal Silahlar, Afet Tıbbı, (Eds.) Eryılmaz M., Dizer U., Ankara. s.: 1255-1286, 2005. - Stephen Penningroth, "Essentials of toxic chemical risk : science and society", CRC Press Taylor & Francis Group, FL, USA, 2000. - Ortatatlı M., Sezigen S., Ayan HA., Balandız H., Kenar L.: "Terörizm Kapsamında Kimyasal, Biyolojik, Nükleer ve Radyasyona Bağlı Yaralanmaların Değerlendirilmesi, Türkiye Klinikleri Adli Tıp Bilimleri, 1 (2), 44-52, 2015. - "KBRN Özel Durum Planlaması, Afet Yönetimi ve Tıbbi Uygulamalar-Temel Başvuru Kitabı (Eds.) Eroğlu SE., Yılmaz Se., Dursun R., Karakayalı O., EMA Tıp Kitapevi, İstanbul, 2020.

WEEKLY COURSE PLAN	
Weeks	Course Contents
1 st Week	CBRN concept and threat status
2 nd Week	General characteristics of CBRN agents
3 rd Week	Characteristics of CBRN Events
4 th Week	Chemical Weapons
5 th Week	Biological Weapons
6 th Week	Radiological and Nuclear Weapons
7 th Week	Evaluation of CBRN Legal Status
8 th Week	CBRN Materials and Technological Developments
9 th Week	Approach to CBRN Events and Differences
10 th Week	Management of CBRN Incident Site
11 th Week	CBRN Emergency Status Planning and Principles
12 th Week	Evaluation of CBRN Risks
13 th Week	Principles of CBRN Disaster Scenario Preparation
14 th Week	General Overview
15 th Week	EXAM

ASSESSMENT METHODS AND CRITERIA		
Term Learning Activities	Quantity	Percentage, %
Attendance	-	20
Quiz	-	-
Midterm Exam	-	-
Practice	-	-
Term Project	-	-
Homework / Presentation	-	30
Final Exam	-	50
Total	-	100

ECTS* (STUDENT WORKLOAD)			
Activities	Quantity	Duration (Hour)	Total Workload
Lectures	14	3	42
Study hours out of classroom (Study before and after the class)	14	3	42
Presentation / Seminar	1	9	9
Project (Term Paper)	-	-	-
Homework	1	9	9
Midterm Exam	1	19	19
Final Exam	1	29	29
Total	32	72	150
ECTS Credits			7

COURSE LEARNING OUTCOMES	
No.	Explanation
LO1	He/She can clutch the main knowledge, notions and existing theories about CBRN
LO2	He/She can know the general characteristics and effects of CBRN agents
LO3	He/She can list the methods used to detect the CBRN agents
LO4	He/She can describe incident site management and organisation in the case of CBRN use
LO5	He/She can sort the personal and collective protection methods and vehicles against CBRN agents
LO6	He/She can perform studies aiming damage reduction in CBRN disaster and emergencies
LO7	He/She can define the needs for CBRN defense according to the current technologies and scientific developments
LO8	He/She can monitor and evaluate the national and international CBRN developments within a global perspective
LO9	He/She can make contributions in planning the activities for CBRN defense in conflicts and disasters
LO10	He/She can make proposals about “what to do”s for CBRN protection of the the organisation he Works
LO11	He/She can define CBRN risks

PROGRAMME LEARNING OUTCOMES	
No.	Explanation
PO1	Knows the phases of disaster and emergency management
PO2	Understands the multidisciplinary interaction associated with disaster
PO3	Knows the minimal standards for struggle in disaster and emergency situations
PO4	Uses management resources properly in disaster and emergency situations
PO5	Works towards mitigation in disasters and emergencies, and takes responsibility as an individual and a team, along with her/his entrepreneurial skills, in addition to being able to lead
PO6	Follows the emerging theoretical and practical developments in Disaster Management at national and international scale with an academic perspective
PO7	Knows the rules about complying with professional ethical principles
PO8	Knows the logistics applications in disaster and emergency situations

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME OUTCOMES								
ALL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	-	-	-	-	-	-	-	-
LO2	-	-	-	-	-	-	-	-
LO3	-	-	-	-	-	-	-	-
LO4	-	-	-	-	-	-	-	-
LO5	-	-	-	-	-	-	-	-
LO6	-	-	-	-	-	-	-	-
LO7	-	-	-	-	-	-	-	-
LO8	-	-	-	-	-	-	-	-
LO9	-	-	-	-	-	-	-	-
LO10	-	-	-	-	-	-	-	-
LO11	-	-	-	-	-	-	-	-
CONTRIBUTION LEVEL: 1-Very Low 2-Low 3-Medium 4-High 5-Very High								

COURSE DESCRIPTION

COURSE TITLE	Disaster Victim Identification
Language of Instruction	Turkish
Course Semester	Spring
Course Type	Elective
Course Objective	Identifying the victims in incidents where more than one person died as a result of violent force is a duty that has both legal and conscientious consequences. Changes in the bodies of the victims after death as a result of violent force make identification based on empirical behavior difficult. At this point, identification methods used in forensic science should be used. This course aims to provide students with information on both the legal and technical aspects of disaster victim identification (DVI) studies.
Course Description	Students will be informed about the legal and technical aspects of disaster victim identification studies and organizing the disaster sites.
Lecturer(s)	Assoc.Prof.Dr. Gökhan İbrahim ÖĞÜNÇ
Reading List	<ul style="list-style-type: none"> • Thompson T., Black S. (2007), Forensic Human Identification; an Introduction, CRC Press • Rathbun T.A., Buikstra J. (1994), Human Identification case Studies in Forensic Anthropology, Charles C. Thomas Publication • INTERPOL DVI Guide and Annexes • Jensen R.A. (2000), Mass Fatality and Casualty Incidents; A Field Guide, CRC Press • World Health Organisation, (2004), Management of Dead Bodies in Disaster Situations, PAHO Publishing. • Latham K.E, BartelinkE.J., Finnegan M. (2018), New Perspectives in Forensic Human Skeletal Identification, Academic Press • Dudley, M.H. (2013), Mass Fatality Management; Concise Field Guide, CRC Press • Management of Dead Bodies After Disasters: a Field Manuel for First Responders • Anstett E., Dreyfus J. (2015), Human Remains and Identification Mass Violence, Genocide, and the “Forensic Turn”, Manchester University Press

WEEKLY COURSE PLAN	
Weeks	Course Contents
1 st Week	Legal and Social Dimension of Identification in Disasters
2 nd Week	Organizational Structure and Process of DVI Studies
3 rd Week	Incident Scene Management and Identification in Disasters
4 th Week	DVI International and National Procedures
5 th Week	Death and Biological Changes After Death
6 th Week	Forensic Odontology Reviews in DVI Studies
7 th Week	Forensic Anthropology Reviews in DVI Studies
8 th Week	Finger and Palm Print Studies in DVI Studies
9 th Week	Physical and Radiological Investigations in DVI Studies
10 th Week	Forensic DNA Examinations in DVI Studies
11 th Week	Formation of DVI Teams and Other Government Practices
12 th Week	Case Studies in Disaster Victim Identification Studies
13 th Week	Case Studies in Disaster Victim Identification Studies
14 th Week	Case Studies in Disaster Victim Identification Studies
15 th Week	Finger and Palm Print Studies in DVI Studies

ASSESSMENT METHODS and CRITERIA		
Term Learning Activities	Quantity	Percentage, %
Attendance	14	10
Quiz	-	-
Midterm Exam	1	30
Practice	-	-
Term Project	-	-
Homework / Presentation	1	30
Final Exam	1	30
Total		100

ECTS* (STUDENT WORKLOAD)			
Activities	Quantity	Duration (Hour)	Total Workload
Lectures	14	3	42
Study hours out of classroom (Study before and after the class)	14	3	42
Presentation / Seminar	1	9	9
Project (Term Paper)	-	-	-
Homework	1	9	9
Midterm Exam	1	19	19
Final Exam	1	29	29
Total	32	72	150
ECTS Credits			7

COURSE LEARNING OUTCOMES	
No.	Explanation
LO1	Comprehend the concept of identification and its legal dimensions
LO2	Will learn the organization and working systems of DVI units
LO3	Will be able to coordinate identification activities in disaster events
LO4	He will learn about the national and international procedures applied in DVI

LO5	You will learn about the processes of death and the changes that take place in posthumous funerals
LO6	Learn the forensic odontological examination processes in DVI studies
LO7	Learn the forensic anthropological examination processes in DVI studies
LO8	Will learn finger and palm print examination processes in DVI studies
LO9	Learn the physical and radiological examination processes in DVI studies
LO10	Will learn Forensic DNA Examination processes in DVI studies
LO11	Will examine creation of DVI teams and other government practices
LO12	DVI will evaluate the experience gained by doing case studies in its studies

PROGRAMME LEARNING OUTCOMES	
No.	Explanation
PO1	Knows the phases of disaster and emergency management
PO2	Understands the multidisciplinary interaction associated with disaster
PO3	Knows the minimal standards for struggle in disaster and emergency situations
PO4	Uses management resources properly in disaster and emergency situations
PO5	Works towards mitigation in disasters and emergencies, and takes responsibility as an individual and a team, along with her/his entrepreneurial skills, in addition to being able to lead
PO6	Follows the emerging theoretical and practical developments in Disaster Management at national and international scale with an academic perspective
PO7	Knows the rules about complying with professional ethical principles
PO8	Knows the logistics applications in disaster and emergency situations

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME OUTCOMES								
ALL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	3	5	5	4	4	5	5	5
LO2	5	5	5	5	5	5	5	5
LO3	5	5	5	5	5	5	5	5
LO4	5	5	5	5	5	5	5	5
LO5	2	2	2	1	2	1	3	2
LO6	3	5	4	3	3	5	5	5
LO7	3	5	4	3	3	5	5	5
LO8	3	5	4	3	3	5	5	5
LO9	3	5	4	3	3	5	5	5
LO10	3	5	4	3	3	5	5	5
LO11	3	5	4	3	3	5	5	5
LO12	5	5	5	5	5	5	5	5
CONTRIBUTION LEVEL: 1-Very Low 2-Low 3-Medium 4-High 5-Very High								

COURSE DESCRIPTION

COURSE TITLE	Human Resources Management in Disasters
Language of Instruction	Turkish
Course Semester	Spring
Course Type	Elective
Course Objective	It is aimed for students to gain the following competencies in terms of disaster management: a. Human resource selection, training, b. Its distribution and planning in terms of organization, c. Motivation, d. Ethical understanding, e. Evaluation of their performance, f. Stress and anger control methods, g. Teamwork principles and leadership in disasters.
Course Description	The course will primarily focus on human resources management. Subsequently, issues in the field of human resources from the selection stage to the evaluation stage will be handled from the perspective of disaster management. At this point, an evaluation will be made on the cases during the course. Particularly, experts with natural disaster experience will be invited to the lecture.
Lecturer(s)	Dr. Erdem Özgür, Gend.Col.
Reading List	<ul style="list-style-type: none"> • Alexander, David, (2017). Natural Disaster, Routledge,USA. • Claudia G. Flores Gonzáles, (2020). Risk Management of Natural Disasters, KIT Scientific Publishing. • Dillion B., (2014). Coordinating the Emergency Response. In Blackstone's Emergency Planning, Crisis and disaster Management. Second Edition Oxford University Presss, Oxford. • Epstein Becker Green, (2010). Hurricanes, Pandemics and Natural Disasters: Is Your HR Department Prepared? The Association of Contingency Planners, presentation by Charles Wilson. • Günaydın M, Tatlı Ö, Ersöz Genç E., (2017). Arama Kurtarma Örgütleri ve UMKE. Doğal Afetler ve Çevre Dergisi, 3(1):56-63. • Harmancı Seren AK. (2017). Afetlerde İnsan Kaynakları Arasındaki İletişim. Altuntaş S, editör. Afetlerde İnsan Kaynakları Yönetimi. 1. Baskı. Atatürk Üniversitesi Açıköğretim Fakültesi Yayınları. • Ranke, Ulrich, (2016). ,Natural Disaster Risk Management: Geosciences and Social Responsibility, Springer International Pulishing. • Walker J, (2005). The Human Side of Crisis Management. Louisiana Employment Law Letter, Vol. 14. • Wooten LP and James EH, (2008). Linking Crisis Management and Leadership Competencies: The Role of Human Resources Development. Advances in Developing Human Resources, Vol. 10, No. 3, pp. 352–379.

WEEKLY COURSE PLAN	
Weeks	Course Contents
1 st Week	Introduction to human resources management and strategic human resources management
2 nd Week	The role of human resources in risk management and disaster planning
3 rd Week	Determination, organization, selection and recruitment of human resources to take part in disasters
4 th Week	Training and development of human resources to be employed in disasters, training methods and levels for disasters
5 th Week	The role of teamwork and leadership in the context of operational continuity in disaster management
6 th Week	Improving communication skills of the personnel to be assigned in disasters, social media and professionalism
7 th Week	<i>Midterm Exam / Article Review Presentations</i>
8 th Week	Time management in disasters
9 th Week	Stress and conflict management in disasters
10 th Week	Motivation of human resources in disaster management and planning of psychosocial support services
11 th Week	Improving the ethical understanding of personnel in disasters and sustainability
12 th Week	Evaluation of personnel working in disasters
13 th Week	Empowerment of personnel involved in disasters, equipment and capabilities, additional salary and personal rights
14 th Week	Homework Presentations
15 th Week	<i>Final Exam/Homework Presentations</i>

ASSESSMENT METHODS AND CRITERIA		
Term Learning Activities	Quantity	Per. %
Attendance	14	20-
Quiz	-	-
Midterm Exam	-	-
Practice	-	-
Term Project	-	-
Homework / Presentation	2	80
Final Exam		
Total	-	100

ECTS* (STUDENT WORKLOAD)			
Activities	Quantity	Duration (Hour)	Total Workload
Lectures	14	3	42
Study hours out of classroom (Study before and after the class)	14	3	42
Presentation / Seminar	1	9	9
Project (Term Paper)	-	-	-
Homework	1	9	9
Midterm Exam	1	19	19
Final Exam	1	29	29

Total	32	72	150
ECTS Credits			7

COURSE LEARNING OUTCOMES	
No.	Explanation
LO1	Understands how human resources to be employed in disasters can plan at institutional and national levels
LO2	Knows the selection and training of response and aid personnel in disasters
LO3	Have the ability to provide leadership and teamwork environment in disasters
LO4	Understands the level of communication skills of human resources in disasters
LO5	Understands ethical principles in terms of human resources in disasters
LO6	Have the stress and conflict management skills in disasters
LO7	Can evaluate the performance of response and aid personnel in disasters

PROGRAMME LEARNING OUTCOMES	
No.	Explanation
PO1	Knows the phases of disaster and emergency management
PO2	Understands the multidisciplinary interaction associated with disaster
PO3	Knows the minimal standards for struggle in disaster and emergency situations
PO4	Uses management resources properly in disaster and emergency situations
PO5	Works towards mitigation in disasters and emergencies, and takes responsibility as an individual and a team, along with her/his entrepreneurial skills, in addition to being able to lead
PO6	Follows the emerging theoretical and practical developments in Disaster Management at national and international scale with an academic perspective
PO7	Knows the rules about complying with professional ethical principles
PO8	Knows the logistics applications in disaster and emergency situations

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME OUTCOMES								
ALL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	4	3	4	5	5	4	5	2
LO2	4	4	4	5	4	4	4	2
LO3	3	4	4	4	5	4	4	2
LO4	4	4	4	4	4	4	4	2
LO5	4	4	3	4	4	4	4	2
LO6	4	4	3	4	4	4	4	2
LO7	4	4	4	4	4	4	4	2
LO8	4	3	4	5	5	4	5	2
LO9	4	4	4	5	4	4	4	2
LO10	3	4	4	4	5	4	4	2
LO11	4	4	4	4	4	4	4	2
CONTRIBUTION LEVEL: 1-Very Low 2-Low 3-Medium 4-High 5-Very High								