İndirilme Tarihi

22.10.2026 19:45:00

SUT1101 - SCUBA Diving I - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To students; They will use during their studies they will do with open-circuit dive in SCUBA diving equipment in any condition to teach techniques and rules that must be respected is to ensure the application in order to keep himself and his friends in danger.

Course Contents

Diving safety rules. Underwater communications procedures. Mask drain. Free exit. Germination. Wearing open circuit SCUBA diving device and entering / leaving water techniques. Gain self-confidence by swimming long distance in shallow water with open circuit SCUBA device. Techniques for entering and leaving the water with open circuit SCUBA. Safe Diving Rules. Decompression Tables.

Recommended or Required Reading

TSSF - SSI - PADI Publications

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area.

Recommended Optional Programme Components

Since the underwater world is an area suitable for continuous technical development, students need to update their knowledge about the subjects they are interested in.

Instructor's Assistants

Assist. Prof. Dr. Ferhat YALGIN Lecturer Fatih Alparslan KULAKAÇ

Presentation Of Course

Face to Face - Formal Education

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın Inst. Alparslan Fatih Kulakaç Inst. Dr. Emrah Akçay Dr. Öğr. Üyesi Ahmet Akkaya

Program Outcomes

1. Able to Use SCUBA Hardware,
2. Learn Diving Signs,
3. Usage and Maintenance of Supplies of SCUBA be applied by,
4. Be able to Apply Self and Others Rescue Techniques,
5. Be able to Apply Safe Diving Rules,
6. Dive Planning Using Dive Tables,
7. TSSF Regulations, Instructions, and Diver Authorities and Responsibilities.
8. Diving and supervising dives safely in Türkiye's inland and territorial waters.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, Discussion, Question and answer, and practical application		Recognize SCUBA equipment.
2	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Equipped diving in Turkey, regulations and instructions? BASIC EQUIPMENT	Equipment-free swimming
3	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application		Maske Palet Şnorkel Kullanımı
4	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application		Underwater adaptation with SCUBA equipment
5	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application		Mske evacuation
6	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	PHYSICS PHYSIOLOGY	unmasked breathing
7	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application		Regulator discharge
8	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application		Finding the regulator (SIDE)
9	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	CARE AND STORAGE OF MATERIALS	Finding Regulator (from the back)
10	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	SAVING YOURSELF AND OTHERS	fins tip buoyancy
11	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	SAFE DIVING RULES	Fins tip buoyancy
12	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	DIVE SITE SELECTION AND PROTECTION	wearing underwater equipment
13	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	DECOMPRESSION TABLES, OBJECTIVES AND APPLICATIONS OF WATER STUDIES	underwater skills review
14	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	DECOMPRESSION TABLES, OBJECTIVES AND APPLICATIONS OF WATER STUDIES	underwater skills review

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Uygulama / Pratik	2	5,00
Vize	1	4,00
Final	1	5,00
Derse Katılım	14	7,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	3,00
Ödev	2	2,00
Diğer	14	2,00

Assesments

Activities	Weight (%)
Vize	20,00
Uygulama / Pratik	20,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1	3	4	2											2								
L.O. 2	4	2	4											3								
L.O. 3	4	3	3											2								
L.O. 4	2	5	4											4								
L.O. 5	3	3	3																			
L.O. 6	2	2	4																			
L.O. 7	4	4	5																			
L.O. 8	2	3																				

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Able to Use SCUBA Hardware,

L.O. 2 : Learn Diving Signs,

L.O. 3 : Usage and Maintenance of Supplies of SCUBA be applied by,

L.O. 4 : Be able to Apply Self and Others Rescue Techniques,

L.O. 5 : Be able to Apply Safe Diving Rules,

L.O. 6 : Dive Planning Using Dive Tables,

L.O. 7 : TSSF Regulations, Instructions, and Diver Authorities and Responsibilities.

L.O. 8 : Diving and supervising dives safely in Türkiye's inland and territorial waters.

İndirilme Tarihi
22.10.2026 19:43:35

SUT1102 - Diving Systems - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To teach diving teams and systems to be used during and after their education, and to provide the opportunity to choose the appropriate system for their dives.

Course Contents

Definition and classification of diving systems, Surface supply diving systems, Development of diving systems with surface supply, Problems encountered in surface supply diving. Full face masks and types of diving helmets and their comparative analysis. Maintenance of used diving equipment.

Recommended or Required Reading

US NAVY Diving Manual / NOA Diving Manual / ADAS Diving Manual

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area.

Recommended Optional Programme Components

Since the underwater world is an area suitable for continuous technical development, students need to update their knowledge about the subjects they are interested in.

Instructor's Assistants

Assist. Prof. Dr. Ferhat YALGIN Lecturer Fatih Alparslan KULAKAÇ

Presentation Of Course

Face to Face - Formal Education

Dersi Veren Öğretim Elemanları

Inst. Alparslan Fatih Kulakaç Dr. Öğr. Üyesi Ferhat Yalgın

Program Outcomes

1. Will be able to solve problems caused by the system during and before diving,
2. Will be able to perform periodic maintenance of diving systems,
3. Comprehensive understanding of the basic training of diving systems,
4. Ability to use the equipment of diving systems in detail,
5. Diving with different diving systems.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	The course syllabus is displayed.		Lecture, discussion, Question Answer, and practice	Familiarization with the equipment and hardware of diving systems used for recreational, sporting, and professional purposes.	Familiarization with the equipment and hardware used in recreational, sports, and professional diving systems.
2	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Used in SCUBA diving system; recognition of diving systems, autonomizing the equipment used, creating a system, equipment usage procedures and maintenance procedures.	Used in SCUBA diving system; assembly of diving systems, assembly of diving systems, autonomization of SCUBA systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
3	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Used in SCUBA diving system; recognition of diving systems, autonomizing the equipment used, creating a system, equipment usage procedures and maintenance procedures.	Used in SCUBA diving system; assembly of diving systems, assembly of diving systems, autonomization of SCUBA systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
4	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Used in SCUBA diving system; recognition of diving systems, autonomizing the equipment used, creating a system, equipment usage procedures and maintenance procedures.	Used in SCUBA diving system; assembly of diving systems, assembly of diving systems, autonomization of SCUBA systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
5	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Used in SCUBA diving system; recognition of diving systems, autonomizing the equipment used, creating a system, equipment usage procedures and maintenance procedures.	Used in SCUBA diving system; assembly of diving systems, assembly of diving systems, autonomization of SCUBA systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
6	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	SCUBA dalış sisteminde kullanılan; dalış sistemlerini tanıma, kullanılan ekipmanları özerkleştirme, sistem oluşturabilme, kullanılan ekipmanları kullanım prosedürleri ve bakım prosedürleri.	Used in SCUBA diving system; assembly of diving systems, assembly of diving systems, autonomization of SCUBA systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
7	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Used in SCUBA diving system; recognition of diving systems, autonomizing the equipment used, creating a system, equipment usage procedures and maintenance procedures.	Used in SCUBA diving system; assembly of diving systems, assembly of diving systems, autonomization of SCUBA systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
8	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Used in SCUBA diving system; recognition of diving systems, autonomizing the equipment used, creating a system, equipment usage procedures and maintenance procedures.	Used in SCUBA diving system; assembly of diving systems, assembly of diving systems, autonomization of SCUBA systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
9	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Used in SCUBA diving system; recognition of diving systems, autonomizing the equipment used, creating a system, equipment usage procedures and maintenance procedures.	Used in SCUBA diving system; assembly of diving systems, assembly of diving systems, autonomization of SCUBA systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
10	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Recognition of diving systems, autonomizing the equipment used, creating a system, operating procedures and maintenance procedures of the equipment used in the surface resupply diving system.	Used in surface-supplied diving system; assembly of diving systems, assembly of diving systems, autonomization of surface-supplied diving systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
11	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Recognition of diving systems, autonomizing the equipment used, creating a system, operating procedures and maintenance procedures of the equipment used in the surface resupply diving system.	Used in surface-supplied diving system; assembly of diving systems, assembly of diving systems, autonomization of surface-supplied diving systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
12	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Recognition of diving systems, autonomizing the equipment used, creating a system, operating procedures and maintenance procedures of the equipment used in the surface resupply diving system.	Used in surface-supplied diving system; assembly of diving systems, assembly of diving systems, autonomization of surface-supplied diving systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
13	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Recognition of diving systems, autonomizing the equipment used, creating a system, operating procedures and maintenance procedures of the equipment used in the surface resupply diving system.	Used in surface-supplied diving system; assembly of diving systems, assembly of diving systems, autonomization of surface-supplied diving systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.
14	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Recognition of diving systems, autonomizing the equipment used, creating a system, operating procedures and maintenance procedures of the equipment used in the surface resupply diving system.	Used in surface-supplied diving system; assembly of diving systems, assembly of diving systems, autonomization of surface-supplied diving systems used for business purposes, system creation, equipment used, usage procedures and maintenance procedure practices.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	4,00
Final	1	5,00
Uygulama / Pratik	2	4,00
Ödev	4	5,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	2,00
Derse Katılım	14	7,00
Diğer	14	2,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00

Assesments

Activities	Weight (%)
Vize	20,00
Uygulama / Pratik	20,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1		4	4											3								
L.O. 2		4	4											3								
L.O. 3		5	5											3								
L.O. 4		4	3											3								
L.O. 5		3	4											2								

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Will be able to solve problems caused by the system during and before diving,

L.O. 2 : Will be able to perform periodic maintenance of diving systems,

L.O. 3 : Comprehensive understanding of the basic training of diving systems,

L.O. 4 : Ability to use the equipment of diving systems in detail,

L.O. 5 : Diving with different diving systems.

İndirilme Tarihi
22.10.2026 19:45:53

SUT1103 - Diving Healthy - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Basic human anatomy and physiology to give information about underwater conditions to understand the effects on human physiology, health effects the results to understand the problems of the three main pressure of the gas, the partial pressure of the increasing inform about the health issues that arise due to, diving or to give information about the diseases that may occur during and after treatment, late effects of the dive to give information about the health problems that come from being in the water count, to give you information about accidents and emergencies underwater, providing information about first aid and patient transfer in underwater diseases and other emergency situations, providing information about simple neurological assessment, providing information about injuries caused by harmful sea creatures.

Course Contents

Basic human anatomy, human physiology, basic gas laws, diving reflex, shallow water blackout, ear barotraumas, sinus barotrauma, pulmonary barotrauma, the outer tube, mask and elbiz to squeeze barotrauma barotrauma of the digestive system, gas absorption, decompression sickness, oxygen toxicity, nitrogen narcosis and high pressure nervous syndrome, carbon monoxide and carbon dioxide poisoning, drowning, simple a neurological examination, basic life support, osteonecrosis disbarik harmful sea creatures, hypothermia

Recommended or Required Reading

Hiperbarik TIP / U.S. Navy Diving Manual / NOAA Diving Manual / ADAS Diving Manual

Planned Learning Activities and Teaching Methods

In my classroom / Online

Recommended Optional Programme Components

There are changes in the systems used with the developing technology. As a result of these changes, current situations that occur in divers should be identified and added to the training.

Instructor's Assistants

Specialist Dr. Kemal Kutay KÜLAHÇI, Undersea and Hyperbaric Medicine Assist. Prof. Dr. Ferhat YALGIN

Presentation Of Course

Face-to-Face / Online - Formal Education

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın Inst. Kemal Kutay Külahcı

Program Outcomes

1. will be able to define the functioning of the respiratory and circulatory system,
2. will be able to explain gas laws and practical reflections of these laws,
3. will be able to identify diving reflex and shallow water fainting,
4. will be able to list the effects of underwater environment on human physiology ,
5. it will be able to count the types of barotrauma.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, Discussion, Question and answer, and practical application	Basic Anatomy and Physiology,	
2	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Underwater Physiology,	
3	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Gas Regulations	
4	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Effects of pressure on the body, diseases that prevent diving,	
5	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Introduction to barotrauma, ear barotrauma; external ear barotrauma, middle ear barotrauma, inner ear barotrauma, sinus barotrauma,	
6	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Pulmonary barotrauma and other barotrauma	
7	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Decompression illness,	
8	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Neurological examination,	
9	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Patient transfer and oxygen application in diving diseases,	
10	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Nitrogen narcosis, high pressure nervous syndrome,	
11	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Oxygen, carbon monoxide, carbon dioxide dioxide poisoning,	
12	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Drowning	
13	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Hypothermia, hyperthermia,	
14	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Injuries caused by harmful sea creatures.	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	2,00
Final Sınavı Hazırlık	1	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	1,00
Final	1	2,00
Vize	1	2,00
Ders Öncesi Bireysel Çalışma	14	2,00

Assesments

Activities	Weight (%)
Bütünleme	0,00
Final	60,00
Vize	40,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1			5		4																	
L.O. 2			2		2																	
L.O. 3			4		4																	
L.O. 4			4		3																	
L.O. 5			2		3																	

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : will be able to define the functioning of the respiratory and circulatory system,

L.O. 2 : will be able to explain gas laws and practical reflections of these laws,

L.O. 3 : will be able to identify diving reflex and shallow water fainting,

L.O. 4 : will be able to list the effects of underwater environment on human physiology ,

L.O. 5 : it will be able to count the types of barotrauma.

İndirilme Tarihi

22.10.2026 19:46:27

SUT1104 - Introduction to Underwater Technology - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

It is aimed to learn the basic principles of diving and diving profession, to acquire the necessary knowledge, to learn about the related diving sectors and to acquire the basic information needed in the underwater sector in the sector with this perspective.

Course Contents

It includes basic information about dive and diving profession, certification and introduction of diving systems and their applications from past to present.

Recommended or Required Reading

US NAVY, Sualtı Teorisi, TSSF Manuel, ADAS Manuel, SSI Manuel ve PADI Manuel

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area.

Recommended Optional Programme Components

Since the underwater world is an area suitable for continuous technical development, students need to update their knowledge about the subjects they are interested in.

Instructor's Assistants

Assist. Prof. Dr. Ferhat YALGIN

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın

Program Outcomes

1. Having information about the title that the student will receive when he/she graduates from the program
2. To know the duties, powers and responsibilities of underwater technicians
3. To know the physical competence of underwater technicians and to do the necessary studies to reach this
4. Knowing and applying the necessary safety precautions in diving
5. To know the levels of certification systems and their authorities and responsibilities in the diving industry.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, Discussion, Question and answer	By Learning the Basic Laws and Rules of Physics; Execution of Underwater Activities Safely and with Maximum Performance by Enabling the Human Being to Establish the Cause - Effect Relationship by Interpreting the Events to be Experienced Underwater	
2	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Diving Physics, laws and rules used and needed underwater.	
3	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Diving Physics, laws and rules used and needed underwater.	
4	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Diving Physics, laws and rules used and needed underwater.	
5	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Underwater technology program needs requirements and job opportunities and conditions at graduation	
6	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Underwater technology program needs requirements and job opportunities and conditions at graduation	
7	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	responsibilities and authorities in case of graduation from the underwater technology program, certifications to be taken and their validity.	
8	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	responsibilities and authorities in case of graduation from the underwater technology program, certifications to be taken and their validity.	
9	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Diving certification systems used in Turkey and in the world, validity of these systems, legal liability, investments and agreements to be made.	
10	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Türkiye ve dünyadaki sualtı sektörü, IMO, IMCA hakkında bilgilendirme ve sertifikasyon ve gerçerli,likleri.	
11	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Diving certification systems used in Turkey and in the world, validity of these systems, legal liability, investments and agreements to be made.	
12	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Underwater sector in Turkey and the world, job opportunities, safety conditions and diving systems used and job opportunities. Diving certification systems used in Turkey and in the world, validity of these systems, legal liability, investments and agreements to be made.	
13	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Underwater sector in Turkey and the world, job opportunities, safety conditions and diving systems used and job opportunities.	
14	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Underwater sector in Turkey and the world, job opportunities, safety conditions and diving systems used and job opportunities.	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	1,00
Ders Öncesi Bireysel Çalışma	14	3,00
Vize	1	1,00
Final	1	1,00
Diğer	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00
Bütünleme	0,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1	3	4				2					2			4								
L.O. 2	2	2				2					2			5								
L.O. 3	3	3				1					1			1								
L.O. 4	3	1				3								2								
L.O. 5	3	2									3			3								

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Having information about the title that the student will receive when he/she graduates from the program

L.O. 2 : To know the duties, powers and responsibilities of underwater technicians

L.O. 3 : To know the physical competence of underwater technicians and to do the necessary studies to reach this

L.O. 4 : Knowing and applying the necessary safety precautions in diving

L.O. 5 : To know the levels of certification systems and their authorities and responsibilities in the diving industry.

İndirilme Tarihi

22.10.2026 19:47:01

SUT1105 - Material Science and Inspection Methods - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

1. To introduce engineering materials consisting of metal, ceramic, organic and composites and their properties 2. To introduce the relationships between the structural properties of materials and their mechanical, physical and chemical properties 3. To emphasize the importance of material selection in design 4. To know the materials used underwater and to learn about their applications

Course Contents

An overview of engineering materials. Structural and physical properties of materials. Solid state diffusion. Mechanical properties of materials and their measurement. Metal materials and phase structure. Solidification. Phase transformations and diagrams. Organic, ceramic, composite materials and their properties. Corrosion and protection methods. Electrical and thermal properties of materials.

Recommended or Required Reading

Material Knowledge (Gülnur Dikeç - Kemal Demirel)

Planned Learning Activities and Teaching Methods

Theoric

Recommended Optional Programme Components

Undefined

Instructor's Assistants

Undefined

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Sabri Alkan Dr. Öğr. Üyesi Cansen Can Inst. Müslüm Koç

Program Outcomes

1. Be able to know microstructure of materials.
2. Be able to learn physical and mechanical properties of materials.
3. Be able to relate between microstructure and properties of materials.
4. Be able to choose approprate materials for need in design.
5. Be able to have ability to inspect compatibility and/or product performance of construction materials experimentally.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Creating a course syllabus		Presentation	Introduction to the course syllabus, Introduction to materials science and engineering materials	
2	Repeat of last week's		Presentation	Crystal structures, Miller indices, and planes	
3	Repeat of last week's		Presentation	Crystal defects and their effects on the properties of crystalline materials	
4	Repeat of last week's		presentation	Mechanical properties of metals, elastic and plastic deformation, and the determination of these properties. Stress-strain diagram.	
5	Repeat of last week's		Video, animation	Mechanical properties of metals, elastic and plastic deformation, and the determination of these properties. Stress-strain diagram.	Video and animation demonstrations of mechanical tests.
6	Repeat of last week's		Presentation	Corrosive, thermal, electrical, and optical properties of metals and the determination of these properties	
7	Repeat of last week's		Presentation, Animation, Video	Steel types and codes according to EN, AISI, and Lloyd's standards. Material numbering system. (EN 10020, 10025, 10027; Türk Loydu Volume A, Part 2)	Video and animation demonstrations of steel production.
8				Exam	
9	Repeat of last week's		Presentation	Stainless steels: types, applications, and designations. Cast irons: types, properties, and production; cast iron designations according to EN and ASTM standards	
10	Repeat of last week's		Presentation	Aluminum alloys and their codes, Copper alloys.	
11	Repeat of last week's		Presentation, video, animation	Cables and pipes laid on the seabed	
12	Repeat of last week's		Presentation	Destructive testing methods applied to materials.	
13	Repeat of last week's		Presentation	Destructive testing methods applied to materials.	
14	Repeat of last week's		Presentation	Non-destructive testing methods applied to materials.	
15	Repeat of last week's		Presentation	Non-destructive testing methods applied to materials.	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Derse Katılım	14	3,00
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Ara Sınav Hazırlık	1	4,00
Final Sınavı Hazırlık	1	6,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1														5	5		5	5				
L.O. 2														5	5		5	5				
L.O. 3														5	5		5	5				
L.O. 4														5	5		5	5				
L.O. 5														5	5		5	5				

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Be able to know microstructure of materials.

L.O. 2 : Be able to learn physical and mechanical properties of materials.

L.O. 3 : Be able to relate between microstructure and properties of materials.

L.O. 4 : Be able to choose approprate materials for need in design.

L.O. 5 : Be able to have ability to inspect compatibility and/or product performance of construction materials experimentally.

İndirilme Tarihi

23.10.2026 16:42:29

AIT1101 - Atatürk's Principles and History of Revolution I - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To get students comprehend development stages of Turkish community in transition from empire to nation state.

Course Contents

The collapse process of the Ottoman State and modernization efforts. The First World War process, The emergence of the Armenian Question, the Armistice of Moudros and the developments afterwards, Mustafa Kemal Pasha's going to Anatolia and the process of National Struggle. The activities of the Grand National Assembly of Turkey, The Treaty of Lausanne and the proclamation of the Republic of Turkey.

Recommended or Required Reading

Onur Akdoğan, Atatürk İlkeleri ve İnkılap Tarihi I Ders Kitabı, Atatürk İlkeleri ve İnkılap Tarihi I,II YÖK yayını. Prof.Dr.Ahmet Mumcu,Türk Devriminin Temelleri ve Gelişimi Prof.Dr.Suna Kili,Türk Devrimi. Prof.Dr.Hamza Eroğlu, Türk İnkılap Tarihi.

Planned Learning Activities and Teaching Methods

Presentation method.

Recommended Optional Programme Components

Periodic repetition is recommended.

Instructor's Assistants

There is no teaching assistant.

Presentation Of Course

Online

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Sefa Çelebioğlu

Program Outcomes

1. Explains in broad outline the basic concepts that form the basis of the Turkish revolution.
2. Explain the aims, methods and results of the westernization movements of the Ottoman Empire.
3. Understands the developments in domestic and foreign policy in the last period of the Ottoman Empire.
4. Knows the effects of the First World War on the Ottoman Empire.
5. Examines the political, military, economic and social events that took place during the War of Independence.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1				DERSİN GENEL İŞLEYİŞİ	
2				ATATÜRK İLKELERİ VE İNKILAP TARİHİ DERSİNİN AMACI VE KAVRAMLAR	
3				OSMANLI DEVLETİ'NİN ÇÖKÜŞ SÜRECİ VE YENİLEŞME HAREKETLERİ	
4				OSMANLI DEVLETİ'NİN ÇÖKÜŞ SÜRECİ VE YENİLEŞME HAREKETLERİ	
5				OSMANLI DEVLETİ'NİN ÇÖKÜŞ SÜRECİ VE YENİLEŞME HAREKETLERİ	
6				TANZİMAT'TAN MEŞRUTİYET'E OSMANLI DEVLETİ (1839-1876)	
7				BİRİNCİ MEŞRUTİYET DÖNEMİ GELİŞMELERİ	
8				İKİNCİ MEŞRUTİYET DÖNEMİ VE FİKİR HAREKETLERİ	
9				DÜNYA SAVAŞINA GİDEN SÜREÇ	
10				BİRİNCİ DÜNYA SAVAŞI	
11				MONDROS MÜTAREKESİ VE UYGULANIŞI, MİLLİ TEŞKİLATLANMA VE KONGRELER	
12				SON OSMANLI MECLİS-İ MEBUSANI VE BİRİNCİ BÜYÜK MİLLET MECLİSİ	
13				MİLLÎ MÜCADELE'DE SAVAŞLAR	
14				MİLLÎ MÜCADELE'DE ANTLAŞMALAR	

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						2
L.O. 2																						2
L.O. 3																						2
L.O. 4																						2
L.O. 5																						2

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains in broad outline the basic concepts that form the basis of the Turkish revolution.

L.O. 2 : Explain the aims, methods and results of the westernization movements of the Ottoman Empire.

L.O. 3 : Understands the developments in domestic and foreign policy in the last period of the Ottoman Empire.

L.O. 4 : Knows the effects of the First World War on the Ottoman Empire.

L.O. 5 : Examines the political, military, economic and social events that took place during the War of Independence.

İndirilme Tarihi
30.10.2026 10:36:49

TDI1101 - Turkish Language I - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

It is aimed to teach Turkish grammar and to improve the understanding and explaining skills; Providing students with Turkish Languages aspects, correct and effective usage of the language and the ability of expressing themselves better; To use punctuation marks correctly and confidently in writing practices.

Course Contents

Language and culture, languages in the world, alphabets in the Turkish world, historical periods of Turkish language, status of Turkish language today and propagation areas, phonetics, morphology, word types: names, verbs, adverbs, postposition, conjunction, interjection, spelling rules, punctuation marks, general composition information.

Recommended or Required Reading

ÇOTUKSÖKEN, Y., Türk Dili Dersleri (Cilt 2), Papatya Yayınları, İstanbul, 2009. DEMİRCİ, S.; Kabahasanoğlu, V., Üniversitelerde Türk Dili, Türkmen Kitabevi, İstanbul, 2009. TYT Türkçe Konu Anlatımlı, Final yayınları, İstanbul, 2017. YGS Türkçe Üniversiteye Hazırlık, FDD yayınları, Ankara, 2015.

Planned Learning Activities and Teaching Methods

Lecture Question and answer method Classroom discussions Practical writing exercises Group work Analysis of sample texts Individual learning through distance education platform

Recommended Optional Programme Components

Students are encouraged to give short presentations to improve their written and oral expression skills. Writing assignments are expected to be completed regularly and developed with feedback. Students are recommended to individually review core sources of the Turkish language.

Instructor's Assistants

There is no assistant instructor.

Presentation Of Course

The course is delivered online via distance education. It is supported by both synchronous (live) sessions and asynchronous (recorded) materials. Students can access course materials through the online education system.

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Burcu Camgöz

Program Outcomes

1. Explains the definition and characteristics of language, its role in human life, and the relationships between language, society, culture, and technology.
2. Explains the structure and historical development of the Turkish language, its place among the world's language families, and the distinctions between dialect, accent, and regional varieties.
3. Applies Turkish spelling and punctuation rules and identifies the characteristics of words, phrases, sentence types, and sentence elements.
4. Explains the main characteristics of literary genres such as poetry, novels, short stories, fairy tales, fables, mesnevi, theatre, and scripts through examples.
5. Identifies the characteristics of paragraphs and texts, recognizes functional genres such as articles, criticism, essays, anecdotes, and scientific texts, and develops written expression skills.
6. Recognizes the vocabulary of Turkish, including idioms and proverbs; identifies expression and communication errors; and applies the principles of effective speaking and public speaking.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1				Definition of Language and the Relationship Between Language, Culture, and Thought	
2				Languages of the World and Their Classification	
3				The Historical Development of the Turkish Language	
4				The Historical Development of the Turkish Language	
5				The Historical Development of Turkish Literature	
6				The Historical Development of Turkish Literature	
7				The Historical Development of Turkish Literature	
8				The Historical Development of Turkish Literature	
9				Phonology	
10				Morphology	
11				Lexicology	
12				Lexicology	
13				Syntax	
14				Syntax	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ara Sınav Hazırlık	1	3,00
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Final Sınavı Hazırlık	1	3,00

Assesments

Activities	Weight (%)
Final	60,00
Vize	40,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Gemi İnşaatı X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16
L.O. 1					3			1								
L.O. 2					3			1								
L.O. 3					3			1								
L.O. 4					3			1								
L.O. 5					3			1								
L.O. 6					3			1								

Table :

P.O. 1 : Possesses fundamental, up-to-date and practice-oriented knowledge related to the profession and uses this knowledge effectively.

P.O. 2 : Possesses knowledge of occupational health and safety and quality assurance processes.

P.O. 3 : Effectively uses information technologies related to the profession, including relevant software, programs and animation tools.

P.O. 4 : Evaluates professional problems and issues independently through analytical and critical thinking and proposes appropriate solutions.

P.O. 5 : Communicates knowledge, skills and ideas clearly through written and oral communication.

P.O. 6 : Takes responsibility as a team member in solving complex and unforeseen problems encountered in professional practices.

P.O. 7 : Plans career development and adopts a lifelong learning approach.

P.O. 8 : Adheres to social, scientific, cultural and ethical values in the collection, evaluation and dissemination of data related to the field.

P.O. 9 : Uses a foreign language to follow developments and information in the field and to communicate with professional colleagues.

P.O. 10 : Demonstrates awareness of the United Nations Sustainable Development Goals.

P.O. 11 : Demonstrates awareness of digitalization, environmental responsibility, green transformation and sustainability.

P.O. 12 : Reads and prepares technical and production drawings related to ship and yacht construction and edits them using computer-aided design environments.

P.O. 13 : Selects materials, structural elements and joining methods in accordance with production requirements, and inspects production and welding processes.

P.O. 14 : Carries out and evaluates shipbuilding, outfitting, maintenance and repair, and shipyard processes in accordance with the required workflow.

P.O. 15 : Uses data related to propulsion, auxiliary machinery, piping and outfitting systems and analyzes the relationships among these systems.

P.O. 16 : Performs and evaluates basic calculations related to ship form, structural elements, hydrostatics, stability and longitudinal strength.

L.O. 1 : Explains the definition and characteristics of language, its role in human life, and the relationships between language, society, culture, and technology.

L.O. 2 : Explains the structure and historical development of the Turkish language, its place among the world's language families, and the distinctions between dialect, accent, and regional varieties.

L.O. 3 : Applies Turkish spelling and punctuation rules and identifies the characteristics of words, phrases, sentence types, and sentence elements.

L.O. 4 : Explains the main characteristics of literary genres such as poetry, novels, short stories, fairy tales, fables, mesnevi, theatre, and scripts through examples.

L.O. 5 : Identifies the characteristics of paragraphs and texts, recognizes functional genres such as articles, criticism, essays, anecdotes, and scientific texts, and develops written expression skills.

L.O. 6 : Recognizes the vocabulary of Turkish, including idioms and proverbs; identifies expression and communication errors; and applies the principles of effective speaking and public speaking.

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						
L.O. 2																						
L.O. 3																						
L.O. 4																						
L.O. 5																						
L.O. 6																						

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains the definition and characteristics of language, its role in human life, and the relationships between language, society, culture, and technology.

L.O. 2 : Explains the structure and historical development of the Turkish language, its place among the world's language families, and the distinctions between dialect, accent, and regional varieties.

L.O. 3 : Applies Turkish spelling and punctuation rules and identifies the characteristics of words, phrases, sentence types, and sentence elements.

L.O. 4 : Explains the main characteristics of literary genres such as poetry, novels, short stories, fairy tales, fables, mesnevi, theatre, and scripts through examples.

L.O. 5 : Identifies the characteristics of paragraphs and texts, recognizes functional genres such as articles, criticism, essays, anecdotes, and scientific texts, and develops written expression skills.

L.O. 6 : Recognizes the vocabulary of Turkish, including idioms and proverbs; identifies expression and communication errors; and applies the principles of effective speaking and public speaking.

İndirilme Tarihi
30.10.2026 10:38:30

YDI1101 - Foreign Language I (English) - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to enable students to use basic English vocabulary, expressions, and grammatical structures effectively in everyday situations; to develop their listening, speaking, reading, and writing skills; to raise awareness of different cultures; and to support their ability to communicate in English at a basic level.

Course Contents

The course covers topics designed to develop students' basic English communication skills. Themes include greetings and introductions, sports, classroom language, daily life, working life, personal preferences, family and people, daily routines, healthy living, music, city life, traditional stories, food and drink, travel, culture, applications, and social life. Through these topics, students develop their vocabulary, grammar, listening, speaking, reading, and writing skills.

Recommended or Required Reading

Main course book: English File (A1–A2), Student's Book. In addition to the course book, the Workbook, teacher-prepared worksheets, audio-visual materials, online language-learning resources, and dictionaries are used.

Planned Learning Activities and Teaching Methods

Student-centered and communicative teaching methods will be used throughout the course. To develop the four basic language skills, students will take part in individual, pair, and group work, question-and-answer activities, role plays, dialogue practice, short presentations, reading comprehension tasks, listening activities, vocabulary and grammar exercises, writing tasks, and classroom games. The learning process will also be supported with audio-visual materials and digital resources.

Recommended Optional Programme Components

As the course will be conducted online, students are advised to attend classes regularly and on time and to check their internet connection and required digital tools before each lesson. Students are expected to participate actively in online classes, follow the course rules regarding microphone and camera use, and complete digital assignments and activities on time. They are also encouraged to continue practicing English outside class through online resources, listening materials, digital exercises, and vocabulary review.

Instructor's Assistants

There are no teaching assistants for this course.

Presentation Of Course

Online

Dersi Veren Öğretim Elemanları

Inst. Nurçin Şirin Yavuz Assoc. Prof. Dr. Uğur Karadurmuş Inst. Büşra Öncü Çakır

Program Outcomes

1. Students will be able to understand and use basic English vocabulary and expressions related to everyday life.
2. Students will be able to communicate orally and in writing about themselves, their families, daily routines, interests, and surroundings using simple sentences.
3. Students will be able to identify the main idea and important details in short and simple listening and reading texts.
4. Students will be able to form affirmative, negative, and interrogative sentences by using basic grammatical structures accurately.
5. Students will be able to ask and answer questions, express preferences, and exchange information in common everyday situations.
6. Students will be able to develop awareness of different cultures and communicate at a basic level about daily life, traditions, music, travel, and social life.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1				Unıt 1 Hello, everybody! / A world of sport / Open your books	
2				Unıt 1 Hello, everybody! / A world of sport / Open your books	
3				Unıt 1 Hello, everybody! / A world of sport / Open your books	
4				Unit 2 Your desk and you / Made in the USA / Don't worry, be happy!	
5				Unit 2 Your desk and you / Made in the USA / Don't worry, be happy!	
6				Unit 3 Great Britain? / Goodbye to the office? / Are you a "dog person"?	
7				Unit 3 Great Britain? / Goodbye to the office? / Are you a "dog person"?	
8				9-15 November 1st midterm exam	
9				Unit 4 Who's that in the photo? / Eat, sleep, repeat / Blue Zones	
10				Unit 4 Who's that in the photo? / Eat, sleep, repeat / Blue Zones	
11				Unit 5 Sing me a song / What a noise! / I ♥ London	
12				Unit 5 Sing me a song / What a noise! / I ♥ London	
13				Unit 6 A traditional story / I don't like Mondays / Making music	
14				Unit 6 A traditional story / I don't like Mondays / Making music	
15				Unit 6 A traditional story / I don't like Mondays / Making music	
16				7-14 January Final Exams	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	0,00
Final	1	0,00
Derse Katılım	14	0,00
Teorik Ders Anlatım	14	2,00
Ders Öncesi Bireysel Çalışma	14	2,00
Ders Sonrası Bireysel Çalışma	14	0,00
Bütünleme	1	0,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Gemi İnşaatı X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16
L.O. 1									5							
L.O. 2									5							
L.O. 3									5							
L.O. 4									5							
L.O. 5									5							
L.O. 6	1								5							

Table :

P.O. 1 : Possesses fundamental, up-to-date and practice-oriented knowledge related to the profession and uses this knowledge effectively.

P.O. 2 : Possesses knowledge of occupational health and safety and quality assurance processes.

P.O. 3 : Effectively uses information technologies related to the profession, including relevant software, programs and animation tools.

P.O. 4 : Evaluates professional problems and issues independently through analytical and critical thinking and proposes appropriate solutions.

P.O. 5 : Communicates knowledge, skills and ideas clearly through written and oral communication.

P.O. 6 : Takes responsibility as a team member in solving complex and unforeseen problems encountered in professional practices.

P.O. 7 : Plans career development and adopts a lifelong learning approach.

P.O. 8 : Adheres to social, scientific, cultural and ethical values in the collection, evaluation and dissemination of data related to the field.

P.O. 9 : Uses a foreign language to follow developments and information in the field and to communicate with professional colleagues.

P.O. 10 : Demonstrates awareness of the United Nations Sustainable Development Goals.

P.O. 11 : Demonstrates awareness of digitalization, environmental responsibility, green transformation and sustainability.

P.O. 12 : Reads and prepares technical and production drawings related to ship and yacht construction and edits them using computer-aided design environments.

P.O. 13 : Selects materials, structural elements and joining methods in accordance with production requirements, and inspects production and welding processes.

P.O. 14 : Carries out and evaluates shipbuilding, outfitting, maintenance and repair, and shipyard processes in accordance with the required workflow.

P.O. 15 : Uses data related to propulsion, auxiliary machinery, piping and outfitting systems and analyzes the relationships among these systems.

P.O. 16 : Performs and evaluates basic calculations related to ship form, structural elements, hydrostatics, stability and longitudinal strength.

L.O. 1 : Students will be able to understand and use basic English vocabulary and expressions related to everyday life.

L.O. 2 : Students will be able to communicate orally and in writing about themselves, their families, daily routines, interests, and surroundings using simple sentences.

L.O. 3 : Students will be able to identify the main idea and important details in short and simple listening and reading texts.

L.O. 4 : Students will be able to form affirmative, negative, and interrogative sentences by using basic grammatical structures accurately.

L.O. 5 : Students will be able to ask and answer questions, express preferences, and exchange information in common everyday situations.

L.O. 6 : Students will be able to develop awareness of different cultures and communicate at a basic level about daily life, traditions, music, travel, and social life.

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						3
L.O. 2																						3
L.O. 3																						3
L.O. 4																						3
L.O. 5																						3
L.O. 6																						3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Students will be able to understand and use basic English vocabulary and expressions related to everyday life.

L.O. 2 : Students will be able to communicate orally and in writing about themselves, their families, daily routines, interests, and surroundings using simple sentences.

L.O. 3 : Students will be able to identify the main idea and important details in short and simple listening and reading texts.

L.O. 4 : Students will be able to form affirmative, negative, and interrogative sentences by using basic grammatical structures accurately.

L.O. 5 : Students will be able to ask and answer questions, express preferences, and exchange information in common everyday situations.

L.O. 6 : Students will be able to develop awareness of different cultures and communicate at a basic level about daily life, traditions, music, travel, and social life.

İndirilme Tarihi
22.10.2026 19:47:31

SUT1106 - Aquatic Sciences and Environment - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To teach students the basic principles and scope of ecology, water science and underwater

Course Contents

In this course, the subject of ecology and what it covers, the concept of ecosystem and ecosystem types, energy, bio-geochemical cycles, regulatory and limiting factors will be discussed. The integrated structure of ecology with water science and underwater will be explained. The importance of the marine ecosystem and current problems will be discussed.

Recommended or Required Reading

Bowman, W.D., Hacker S.D. (2020). Ecology. Oxford: Oxford University Press, 744 pp. Kaiser, M.J., Williams, P.J.B. (2011). Marine ecology: Processes, systems, and impacts. Oxford: Oxford University Press, 501 pp. Sharma, S., Bharti, P.K. (2015). Limnology and Aquatic Science. Delhi: Discovery Publishing House, 195 PP.

Planned Learning Activities and Teaching Methods

Theoretical

Recommended Optional Programme Components

Ege Üniversitesi Fen Fakültesi Kitaplar Serisi No:31 Deniz Biyolojisine Giriş Ege Üniversitesi Su Ürünleri Fakültesi Yayınları No:70 Balık Davranışları, US NAVY Diving Manuel, NOA Diving Manuel Bowman, W.D., Hacker S.D. (2020). Ecology. Oxford: Oxford University Press, 744 pp. Kaiser, M.J., Williams, P.J.B. (2011). Marine ecology: Processes, systems, and impacts. Oxford: Oxford University Press, 501 pp. Sharma, S., Bharti, P.K. (2015). Limnology and Aquatic Science. Delhi: Discovery Publishing House, 195 PP.

Instructor's Assistants

Assoc. Prof. Uğur Karadurmuş

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş

Program Outcomes

1. Knows the concept of ecology.
2. Understands the relationship between environment and population.
3. Learns the factors affecting ecology.
4. Understands the marine ecosystem and its components.
5. Realizes the current environmental and marine pollution events.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lesson presentation	The Science of Ecology	
2	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Classification of Living Organisms	
3	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Ambient and Environment	
4	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Population Structure	
5	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Biological Relationships	
6	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Communnity Ecology	
7	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Ecosystems	
8	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Aquatic Science	
9	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Marine Ecosystem	
10	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Structure and Components of the Marine Ecosystem	
11	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Oceanography (Geological-Chemical-Physical)	
12	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Biological Oceanography	
13	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Environment, Marine Ecosystem, and Underwater	
14	Replay of the previous week		Lesson presentation, Discussion, Question and answer	Biodiversity	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	3,00
Final	1	3,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1	4																					3
L.O. 2	5																					3

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 3	5																					3
L.O. 4	5																					3
L.O. 5	5																					3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Knows the concept of ecology.

L.O. 2 : Understands the relationship between environment and population.

L.O. 3 : Learns the factors affecting ecology.

L.O. 4 : Understands the marine ecosystem and its components.

L.O. 5 : Realizes the current environmental and marine pollution events.

İndirilme Tarihi

22.10.2026 19:48:01

SUT1107 - Basic Information Technologies - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to provide students with basic computer knowledge, the ability to use information technologies effectively, and the ability to perform daily academic and professional tasks using office programs such as text processing, presentation preparation, and spreadsheet use. Students will also learn to use internet tools effectively and securely.

Course Contents

Fundamental information about computer hardware and software, including operating systems (especially Windows), file and folder management, word processing (MS Word), spreadsheets (MS Excel), presentation programs (MS PowerPoint), email usage, internet browsers, online research, and digital security.

Recommended or Required Reading

Gürcan Banger (2020). Bilgi Teknolojileri ve Ofis Programları, Seçkin Yayıncılık Ahmet Naci Çoklar (2023). Bilgi ve İletişim Teknolojileri, Pegem Akademi

Planned Learning Activities and Teaching Methods

Theoretical

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Ahmet Demiray

Program Outcomes

1. Defines basic concepts related to information technologies.
2. Uses basic computer and operating system functions.
3. Uses word processing software at a basic level.
4. Uses spreadsheet and presentation software at a basic level.
5. Uses internet and digital communication tools safely at a basic level.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllbus		Lecture, question and answer.	Introduction to Information Technologies and Basic Concepts	
2	Repeat of last week		Lecture, question and answer.	Computer Hardware and Peripheral Devices	
3	Repeat of last week		Lecture, question and answer.	Basic Use of Operating Systems	
4	Repeat of last week		Lecture, question and answer.	File and Folder Operations	
5	Repeat of last week		Lecture, question and answer.	Introduction to Word Processing Software	
6	Repeat of last week		Lecture, question and answer.	Creating and Formatting Text	
7	Repeat of last week		Lecture, question and answer.	Tables, Images and Page Layout in Documents	
9	Repeat of last week		Lecture, question and answer.		
10	Repeat of last week		Lecture, question and answer.		
11	Repeat of last week		Lecture, question and answer.		
12	Repeat of last week		Lecture, question and answer.		
13	Repeat of last week		Lecture, question and answer.		
14	Repeat of last week		Lecture, question and answer.		
15	Repeat of last week		Lecture, question and answer.		

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						2
L.O. 2																						2
L.O. 3																						2
L.O. 4																						2
L.O. 5																						2

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Defines basic concepts related to information technologies.

L.O. 2 : Uses basic computer and operating system functions.

L.O. 3 : Uses word processing software at a basic level.

L.O. 4 : Uses spreadsheet and presentation software at a basic level.

L.O. 5 : Uses internet and digital communication tools safely at a basic level.

İndirilme Tarihi
22.10.2026 19:48:35

SUT1108 - Occupational Health and Safety - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to provide students with basic knowledge of occupational health and safety, enable them to recognize workplace hazards and risks, apply basic safety measures for the prevention of occupational accidents and diseases, and develop a safety culture.

Course Contents

Basic concepts of occupational health and safety; occupational health and safety legislation; basic responsibilities of employees and employers; hazard and risk concepts; risk assessment; occupational accidents and diseases; personal protective equipment; safety and health signs; physical, chemical and biological risk factors; ergonomics; electrical safety; fire and emergencies; working at height, confined spaces, lifting and handling operations; safe use of hand tools and machinery; and basic occupational safety practices in shipyard and maritime operations.

Recommended or Required Reading

Occupational Health and Safety Law No. 6331 and related legislation; occupational health and safety publications of the Ministry of Labour and Social Security; lecture notes.

Planned Learning Activities and Teaching Methods

Lectures, question-and-answer sessions, visual and video-supported instruction

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray

Program Outcomes

1. Explains basic concepts related to occupational health and safety.
2. Identifies basic legal regulations and responsibilities related to occupational health and safety.
3. Recognizes hazards and risks in the workplace.
4. Uses personal protective equipment and safety signs appropriately.
5. Applies basic safety rules in fire, emergency, and evacuation procedures.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllbus		Lecture, Question and answer, discussion	Introduction to Occupational Health and Safety and Basic Concepts	
2	Repeat of last week		Lecture, Question and answer, discussion	Occupational Health and Safety Legislation	
3	Repeat of last week		Lecture, Question and answer, discussion	Duties, Authorities and Responsibilities of Employers and Employees	
4	Repeat of last week		Lecture, Question and answer, discussion	Concepts of Hazard and Risk	
5	Repeat of last week		Lecture, Question and answer, discussion	Risk Identification and Risk Assessment	
6	Repeat of last week		Lecture, Question and answer, discussion	Occupational Accidents and Their Basic Causes	
7	Repeat of last week		Lecture, Question and answer, discussion	Occupational Diseases and Prevention Methods	
8				midterm exam	
9	Repeat of last week		Lecture, Question and answer, discussion	Personal Protective Equipment	
10	Repeat of last week		Lecture, Question and answer, discussion	Occupational Health and Safety Signs	
11	Repeat of last week		Lecture, Question and answer, discussion	Safety in Electrical Equipment, Machinery and Hand Tools Safety in Electrical Equipment, Machinery and Hand Tools	
12	Repeat of last week		Lecture, Question and answer, discussion	Yangın Güvenliği ve Yangından Korunma	
13	Repeat of last week		Lecture, Question and answer, discussion	Emergencies, Evacuation and Initial Response	
14	Repeat of last week		Lecture, Question and answer, discussion	General Safety Practices in Workplaces	
15	Repeat of last week		Lecture, Question and answer, discussion	General Safety Practices in Workplaces	
16				Final Exam	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	1	14,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1			5															4				
L.O. 2			5															2				
L.O. 3			5															3				
L.O. 4			5															2				
L.O. 5			5															3				

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains basic concepts related to occupational health and safety.

L.O. 2 : Identifies basic legal regulations and responsibilities related to occupational health and safety.

L.O. 3 : Recognizes hazards and risks in the workplace.

L.O. 4 : Uses personal protective equipment and safety signs appropriately.

L.O. 5 : Applies basic safety rules in fire, emergency, and evacuation procedures.

İndirilme Tarihi

30.10.2026 10:44:33

ATU1199 - Academic Turkish - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to develop international students' academic Turkish proficiency at the higher education level. The aim is to equip students with the reading, writing, listening, and speaking skills they will need in academic settings, to understand academic language in class, and to develop written and oral communication in their field.

Course Contents

The program aims to develop academic skills such as: introducing academic text types, understanding and analyzing field-related texts, creating paragraphs and texts, giving academic presentations, conducting scientific research and using sources, academic writing rules, summarizing, note-taking, discussion, and critical thinking. Furthermore, students are supported in their ability to communicate in Turkish on professional matters. Week Topics

Recommended or Required Reading

Yıldız, D. & Arslan, M. (2020). Akademik Türkçe, Anı Yayıncılık

Planned Learning Activities and Teaching Methods

Theoretical instruction, question-and-answer, problem solving

Recommended Optional Programme Components

Undefined

Instructor's Assistants

Undefined

Presentation Of Course

Face to face - Formal Education

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Alparslan Fatih Kulakaç

Program Outcomes

1. Understands, summarizes, and evaluates academically written Turkish texts.
2. undefinedCreates academic papers on topics specific to their field.
3. Develops oral communication skills such as giving presentations, leading discussions, and expressing opinions.
4. Produces paragraphs and texts that comply with academic writing rules.
5. Citing scientific sources, creating a bibliography, and avoiding plagiarism
6. Presents their ideas through written and oral communication, expressing them clearly at the level of their knowledge and skills.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1				The course syllabus is outlined. Introduction to Academic Turkish and Key Characteristics of Academic Communication.	
2				Academic Language and Expression: Objectivity, Clarity, Consistency, and Conciseness	
3				Academic Text Types and Text Structure	
4				Academic Reading: Comprehending the Text, Analyzing It, and Identifying the Main Idea	
5				Resource Use, Accessing Information, and Evaluating Reliable Sources	
6				Planning and Paragraph Construction in Academic Writing	
7				Referencing and Citation Techniques in Academic Writing	
8				Referencing and Citation Techniques in Academic Writing	
9				Summarizing, Paraphrasing, and Direct Quotation in Academic Writing	
10				Argumentation and Critical Thinking in Academic Texts	
11				Grammar, Word Choice, and Expression Errors in Academic Writing	
12				Academic Presentation Techniques and Oral Academic Communication	
13				Academic Ethics, Plagiarism, and Scientific Research Ethics	
14				Academic Text Applications and General Evaluation	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Bütünleme	1	1,00
Derse Katılım	14	2,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Ders Öncesi Bireysel Çalışma	14	1,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						1
L.O. 2																						1
L.O. 3																						1
L.O. 4																						1
L.O. 5																						1
L.O. 6						3	4															1

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Understands, summarizes, and evaluates academically written Turkish texts.

L.O. 2 : undefinedCreates academic papers on topics specific to their field.

L.O. 3 : Develops oral communication skills such as giving presentations, leading discussions, and expressing opinions.

L.O. 4 : Produces paragraphs and texts that comply with academic writing rules.

L.O. 5 : Citing scientific sources, creating a bibliography, and avoiding plagiarism

L.O. 6 : Presents their ideas through written and oral communication, expressing them clearly at the level of their knowledge and skills.

İndirilme Tarihi
22.10.2026 19:49:03

SUT1201 - SCUBA Diving II - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To teach the rules and techniques that they should obey in all kinds of dives with the open circuit SCUBA diving equipment that they will use during their education, and to ensure that they apply them in a way that does not endanger themselves and their friends. In addition to these, to have TSSF 2 star and 3 star diver qualifications.

Course Contents

Diving safety rules. Underwater communication procedures. Mask drain. Free exit. Germination. Wearing open circuit SCUBA diving device and entering / leaving water techniques. Gain self-confidence by swimming long distance in shallow water with open circuit SCUBA device. Underwater navigation techniques, underwater search and rescue, underwater and underwater intervention techniques for unconscious diver. Techniques for entering and leaving the water with open circuit SCUBA. Safe Diving Rules. Underwater leadership skill. Decompression Tables. Small boat use.

Recommended or Required Reading

TSSF -SSI - PADI Publications, US NAVY Diving Manual

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area.

Recommended Optional Programme Components

Since the underwater world is an area suitable for continuous technical development, students need to update their knowledge about the subjects they are interested in.

Instructor's Assistants

Assist. Prof. Dr. Ferhat YALGIN Lecturer Fatih Alparslan KULAKAÇ

Presentation Of Course

Face to face - Formal Education

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın Inst. Alparslan Fatih Kulakaç

Program Outcomes

1. TSSF 2* Training and Education Material responsibilities and authorizationsTSSF
2. Diving Leadership,
3. Underwater Navigation and Underwater Search and Rescue.
4. Underwater Search and Rescue
5. TSSF 3* Training and Education Material responsibilities and authorizations

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, Discussion, Question and answer, and practical application	ADMINISTRATIVE SESSION / DIVE PLANNING AND ORGANIZATION	underwater skills review
2	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application		underwater skills review
3	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	WEATHER CALCULATIONS	Underwater Assistance

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
4	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	NITROGEN ABSORPTION, DECOMPRESSION TABLES	Underwater Assistance
5	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	DEEP DIVING/NIGHT DIVING, DECOMPRESSION TABLES	Night Diving , Underwater Flashlight Use
6	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	DEEP DIVING/NIGHT DIVING, DECOMPRESSION TABLES	Night Diving , Underwater Flashlight Use
7	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	DECOMPRESSION TABLES, DIVE PLANNING and ORGANIZATION	Dive planning, organizing and underwater assistance
8	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	DECOMPRESSION TABLES, UNDERWATER NAVIGATION	Use of compass on land and underwater, and navigation
9	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	DECOMPRESSION TABLES, UNDERWATER NAVIGATION	Use of compass on land and underwater, and navigation
10	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Decompression tables, UNDERWATER SEARCH, RESCUE	Use of search and rescue equipment used on land and underwater. search and rescue underwater.
11	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Decompression tables, UNDERWATER SEARCH, RESCUE	Use of search and rescue equipment used on land and underwater. search and rescue underwater.
12	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Decompression tables, UNDERWATER SEARCH, RESCUE	Use of search and rescue equipment used on land and underwater. search and rescue underwater.
13	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	USE OF COMPRESSORS, GROUP DIVING ORGANIZATION and PROBLEM MANAGEMENT	diving cylinder filling and general underwater skills repetition

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
14	Review of the previous week, Class preparation notes Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	USE OF COMPRESSORS, GROUP DIVING ORGANIZATION and PROBLEM MANAGEMENT	diving cylinder filling and general underwater skills repetition

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	7,00
Vize	1	3,00
Final	1	4,00
Uygulama / Pratik	14	3,00
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	1,00
Diğer	5	1,00

Assesments

Activities	Weight (%)
Vize	20,00
Uygulama / Pratik	20,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1						1	2		5		2		2	1								
L.O. 2						1	2		5		2		2	1								
L.O. 3		3				3			4				2	2								
L.O. 4		3	2			2	5		4		1		1	1								
L.O. 5		3	2				3		5		2		1	2								

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : TSSF 2* Training and Education Material responsibilities and authorizationsTSSF

L.O. 2 : Diving Leadership,

L.O. 3 : Underwater Navigation and Underwater Search and Rescue.

L.O. 4 : Underwater Search and Rescue

L.O. 5 : TSSF 3* Training and Education Material responsibilities and authorizations

İndirilme Tarihi

22.10.2026 19:49:38

SUT1202 - Rescue and First Aid in Water - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Teaching basic swimming, life saving and first aid techniques, and acquiring the necessary practices and theoretical knowledge to intervene in extraordinary situations before diving and diving to increase the chance of survival

Course Contents

It includes swimming techniques, general principles of first aid, intervention knowledge, basic life support and heart massage, importance of lifeguards, bronze, silver and gold lifeguards training, cases of drowning in water, approaching the victim during drowning, creating emergency information, use of life saving devices.

Recommended or Required Reading

TSSF Cankurataran Eğitimleri (Bronz, Gümüş, Altın), KTÜ Acil Tıp İlkyardım Uygulamaları Ders Notları, Bedia Gülen-Suda Boğulma ve Çeken Akıntılarda Acil Yaklaşım (Makale)

Planned Learning Activities and Teaching Methods

Lifesaving rescue and transportation techniques

Recommended Optional Programme Components

Guidance is given to ensure that they are better equipped and certified in both national and international systems in order to keep their Underwater Lifesaving and Search and Rescue activities up to date.

Instructor's Assistants

Dr. Lecturer Ferhat YALGIN

Presentation Of Course

Face to Face - Formail Education

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın Inst. Alparslan Fatih Kulakaç

Program Outcomes

1.
2.
3.
4.
5.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	The course syllabus is displayed.		Lecture, Discussion, Question and answer, and practical application	Introduction and Basic Principles of First Aid Definition and purpose of first aid; legal and ethical responsibilities. Characteristics of a first aider and ensuring scene safety (personal safety, the environment, and the casualty). Overview of human anatomy and assessment of vital signs (pulse, respiration, consciousness).	basic swimming exercises
2	Review of preparatory notes		Lecture, Discussion, Question and answer, and practical application	Basic Life Support (BLS) and AED Use Cardiopulmonary Resuscitation (CPR – chest compressions and rescue breathing) for adults, children, and infants. Airway obstructions and the Heimlich maneuver. Introduction to and use of the Automated External Defibrillator (AED).	Performs CPR and artificial respiration.
3	Repeat of last week's		Lecture, Discussion, Question and answer, and practical application	3: Bleeding, Shock, and Soft Tissue Injuries First aid approaches for internal and external bleeding; tourniquet application. Recognizing the signs of shock and the shock position. First aid for open wounds, burns, and frostbite.	Arm and head injuries are treated with bandages.
4	Preparation before the subject		Lecture, Discussion, Question and answer, and practical application	Bone, Joint, Head, and Spinal Injuries Immobilization (splinting) techniques for fractures, dislocations, and sprains. Recognition of head, neck, and spinal injuries commonly encountered in water-related accidents. Application of cervical collars and preparation of trauma boards.	Immobilization procedures for fractures and dislocations

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
5	Reading the relevant sources		Lecture, Discussion, Question and answer, and practical application	5: Environmental Emergencies and Injuries Caused by Marine Life Thermoregulatory disorders: Management of hypothermia and hyperthermia (heatstroke). First aid for injuries caused by venomous or stinging marine life (contact with jellyfish, scorpionfish, stingrays, and sea urchins). Allergic reactions and anaphylactic shock.	Swimming practice
6	Review of preparatory notes		Lecture, Discussion, Question and answer, and practical application	Diving-Related Medical Emergencies I Pressure-related injuries: Barotraumas. Signs and first aid for descent (ear, sinus, mask) and ascent (lung) barotraumas. Surface interventions for suspected nitrogen narcosis and oxygen toxicity.	Rescue and transport swimming drills
7	Reading the relevant sources		Lecture, Discussion, Question and answer, and practical application	Diving-Related Medical Emergencies II Mechanism of formation and symptoms of decompression sickness (the bends). Recognition of arterial gas embolism (AGE). Activation of emergency action plans for diving accidents and referral procedures to hyperbaric treatment centers.	Scenario-based exercises regarding emergency procedures
8	Repeating the previous mistake		Lecture, Discussion, Question and answer, and practical application	Emergency Oxygen Applications The importance of administering 100% oxygen in diving accidents. Oxygen cylinders, regulators, and types of masks (non-rebreather, demand valve, etc.). Practical exercises for administering oxygen to conscious and unconscious casualties.	Use of lifeguard equipment
9	Repeat of last week's		Lecture, Discussion, Question and answer, and practical application	Basic Principles and Equipment for Water Rescue Rescuer safety in the water and the psychology of rescue. Use of rescue devices from shore or boat (rescue ring, throw line, rescue tube, life jacket).	Lifeguard buoy and rope throwing drill
10	Preparation before the subject		Lecture, Discussion, Question and answer, and practical application	Physiology of Drowning and First Aid Approaches Stages and types of drowning (dry drowning, wet drowning, secondary drowning). Decision-making and implementation of in-water ventilation in drowning cases. Differences in Basic Life Support (BLS) procedures on land for drowning cases.	Rescue and transport using a rescue sponge
11	Repeat of last week's		Lecture, Discussion, Question and answer, and practical application	11: Techniques for Approaching, Defending Against, and Escaping a Casualty Safe in-water approach to a conscious, exhausted, and panicked casualty. Maneuvers to break free from the grasp (around the neck, torso, etc.) of a panicked casualty. Blocking and self-defense techniques.	Water struggle techniques and calm swimming
12	Preparation before the subject		Lecture, Discussion, Question and answer, and practical application	Techniques for Carrying and Towing a Casualty in the Water Pushing and towing techniques for an exhausted swimmer. Methods for towing an unconscious casualty—solo and in pairs (towing by the chin, under the armpits, or by clothing). Towing using a rescue tube or flotation devices.	Applying carrying and pushing techniques for an exhausted swimmer
13	Repeat of last week's		Lecture, Discussion, Question and answer, and practical application	Water Extraction Techniques Bringing the casualty to the pool edge or into shallow water. Techniques for lifting the casualty onto a boat. Extracting a casualty with suspected neck or spinal trauma from the water by securing them to a backboard while submerged.	Carrying using the firefighter's carry technique, carrying using a rescue stretcher
14	Reading the relevant sources		Lecture, Discussion, Question and answer, and practical application	Comprehensive Application Scenarios and Practical Drills Simulation of the chain of events from the moment of the accident to handover to the ambulance. Diving accident scenario: Simulations of retrieving the victim from the water, bringing them onto the boat, administering oxygen, and performing Basic Life Support (BLS). General assessment and addressing of any deficiencies.	Basic Life Support, CPR administration

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	4,00
Vize	1	3,00
Final	1	4,00
Uygulama / Pratik	14	3,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Ders Öncesi Bireysel Çalışma	14	2,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1							1	0						4								
L.O. 2							5					0		3								
L.O. 3							5					0		3								
L.O. 4							5							4								
L.O. 5							5	0				0		4								

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 :

L.O. 2 :

L.O. 3 :

L.O. 4 :

L.O. 5 :

İndirilme Tarihi

22.10.2026 19:50:06

SUT1203 - Seamanship - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To provide basic seafarer skills such as shipboard life and hierarchy, seamanship culture, ship equipment, maneuvering techniques, seaman's knots, loading and ship maintenance operations.

Course Contents

Ship types and structural elements, Rope knowledge and knot types, Ship mooring and mooring methods, Mooring operations and equipment used, Ship safety and emergency procedures, Fire fighting systems on board, Loading, unloading and deck works, Ship maintenance procedures (painting, scraping, cleaning).

Recommended or Required Reading

MEB - SEAMANSHIP AND SHIP MANEUVERS WORKSHOP

Planned Learning Activities and Teaching Methods

Theoretical and practical, question answer

Recommended Optional Programme Components

The course is conducted through both theoretical and practical instruction; seamanship practices emphasize occupational health and safety, maritime safety, environmental protection, and shipboard discipline. Training covers familiarization with shipboard equipment, the execution of basic knots, participation in maneuvering and maintenance operations, and the correct use of professional terminology.

Instructor's Assistants

We don't have an assistant instructor.

Presentation Of Course

Face to face - Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray Inst. Alparslan Fatih Kulakaç

Program Outcomes

1. Explains basic seamanship concepts and uses maritime terminology correctly.
2. Explains the distribution of duties and the hierarchy on board ships.
3. Identifies types of ropes and performs basic knots used in seamanship.
4. Identifies fixed and movable deck equipment and explains their basic operating principles.
5. Identifies maintenance tools and general deck equipment and explains their purposes of use.
6. Uses deck equipment appropriately and safely.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllbus		Lecture,Discuss,Question and answer	Introduction to Seamanship and Basic Maritime Terminology	
2	Repeat Last Week's		Lecture,Discuss,Question and answer	Main Parts of a Ship and Deck Terminology	
3	Repeat Last Week's		Lecture,Discuss,Question and answer	Shipboard Organization, Duties and Hierarchy	
4	Repeat Last Week's		Lecture,Discuss,Question and answer	Ropes: Structures, Types and Uses	
5	Repeat Last Week's		Lecture,Discuss,Question and answer	Basic Seamanship Knots and Practices	
6	Repeat Last Week's		Lecture,Discuss,Question and answer	Ropework and Securing Practices	
7	Repeat Last Week's		Lecture,Discuss,Question and answer	Fixed Deck Equipment	
8	Repeat Last Week's		Lecture,Discuss,Question and answer	Movable Deck Equipment	
9	Repeat Last Week's		Lecture,Discuss,Question and answer	Anchoring Equipment and Basic Anchoring Maneuvering	
10	Repeat Last Week's		Lecture,Discuss,Question and answer	Anchoring Equipment and Basic Anchoring Maneuvering	
11	Repeat Last Week's		Lecture,Discuss,Question and answer	Mooring Equipment and Basic Mooring Operations	
12	Repeat Last Week's		Lecture,Discuss,Question and answer	MANEUVERING WITH ENGINE AND RUDDER	
13	Repeat Last Week's		Lecture,Discuss,Question and answer	Basic Deck Maintenance Operations	
14	Repeat Last Week's		Lecture,Discuss,Question and answer	Safe and Proper Use of Deck Equipment	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1						5																
L.O. 2						5																

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 3						5																
L.O. 4						5																
L.O. 5						5																
L.O. 6						5																

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains basic seamanship concepts and uses maritime terminology correctly.

L.O. 2 : Explains the distribution of duties and the hierarchy on board ships.

L.O. 3 : Identifies types of ropes and performs basic knots used in seamanship.

L.O. 4 : Identifies fixed and movable deck equipment and explains their basic operating principles.

L.O. 5 : Identifies maintenance tools and general deck equipment and explains their purposes of use.

L.O. 6 : Uses deck equipment appropriately and safely.

İndirilme Tarihi

22.10.2026 19:51:07

SUT1204 - Ships and Marine Structures - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To educate individuals who can comparatively analyze marine structures in terms of their fundamental principles, design approaches, operational requirements, and environmental impacts.

Course Contents

This course aims not only to introduce prominent ships and marine structures in Türkiye and around the world, but also to analyze them comparatively in terms of engineering operational aspects, environmental impact, and design approaches. Students are expected to take an active role as analysts who conduct case studies, interpret findings, and make evaluations, rather than remaining passive recipients of information.

Recommended or Required Reading

Ships and Offshore Structure (Reşat Baykal)

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Sabri Alkan Assoc. Prof. Dr. Uğur Karadurmuş Inst. Ahmet Demiray

Program Outcomes

1. Classifies ships according to their purposes and basic characteristics and identifies ship types.
2. Identifies the main parts, principal dimensions, and structural components of ships.
3. Explains basic concepts related to ship geometry, freeboard, tonnage, and carrying capacity.
4. Identifies offshore structures and support vessels and explains their purposes.
5. Identifies the underwater parts of ships and marine structures and explains their basic inspection, maintenance, and repair requirements.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllbus		Lecture, Question and answer	Introduction to Ships and Marine Structures, Basic Concepts and Development	
2	Repeat of last week		Lecture, Question and answer	Ship Types, Purposes and Basic Characteristics	
3	Repeat of last week		Lecture, Question and answer	Main Parts, Decks, Compartments and General Arrangement of Ships	
4	Repeat of last week		Lecture, Question and answer	Ship Geometry, Principal Dimensions, Displacement and Carrying Capacity	
5	Repeat of last week		Lecture, Question and answer	Underwater Parts, Propulsion and Manoeuvring Components of Ships	
6	Repeat of last week		Lecture, Question and answer	Underwater Parts, Propulsion and Manoeuvring Components of Ships	
7	Repeat of last week		Lecture, Question and answer	Marine Structures: Fixed and Floating Offshore Structures and Support Vessels	
8	Repeat of last week		Lecture, Question and answer	Comparative Study of Container Ships, Ro-Ro Vessels, Ferries and Passenger Ships	
9	Repeat of last week		Lecture, Question and answer	Comparative Study of Tankers and Liquid Cargo Ships Comparative Study of Dry Cargo Ships: Examples from Türkiye and the World	
10	Repeat of last week		Lecture, Question and answer	Military Naval Platforms Comparative Study of Special-Purpose and Offshore Support Vessels Port and Terminals	
11	Repeat of last week		Lecture, Question and answer	Boring Tunnels Underwater Cables and Laying Techniques Bridge, crossings, and travel safety	
12	Repeat of last week		Lecture, Question and answer	Survey Ships Floating Production and Storage Ships Offshore Energy Ships	
13	Repeat of last week		Lecture, Question and answer	Comparative Study of Fixed Marine Structures: Examples from Türkiye and the World	
14	Repeat of last week		Lecture, Question and answer	Comparative Case Analyses and General Assessment of Ships and Maritime Structures	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00
Küçük Grup Çalışması	7	3,00
Ödev	2	7,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1														5								
L.O. 2														5			5					
L.O. 3														5			5					
L.O. 4														5								
L.O. 5														5			5					

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Classifies ships according to their purposes and basic characteristics and identifies ship types.

L.O. 2 : Identifies the main parts, principal dimensions, and structural components of ships.

L.O. 3 : Explains basic concepts related to ship geometry, freeboard, tonnage, and carrying capacity.

L.O. 4 : Identifies offshore structures and support vessels and explains their purposes.

L.O. 5 : Identifies the underwater parts of ships and marine structures and explains their basic inspection, maintenance, and repair requirements.

İndirilme Tarihi
22.10.2026 19:51:33

SUT1205 - Air Decompression Procedures - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To students; it is to teach the depth and time limits and decompression procedures and rules that they need to know and apply in order to prevent decompression sickness in the dives they will do / will do during their education period or after completing their education.

Course Contents

It includes decompression theories, decompression methods and rules used in dive planning, interpretation of commonly used decompression tables and diving organization in the light of all this information.

Recommended or Required Reading

U.S. Navy Diving Manual Revision 7

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

U.S. Navy Diving Manual Rev. 7

Instructor's Assistants

Assoc. Prof. Uğur KARADURMUŞ

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş

Program Outcomes

1. Can dive planning
2. Can interpret and apply decompression tables
3. Diving supervisor knows his / her duties and responsibilities
4. Knows diving safety issues
5. Can plan an exposure dive

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lesson presentation	Decompression Theory	
2	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Air Decompression Definitions	
3	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Dive Chart and Log	
4	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Air Decompression Tables	
5	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Repeated and Exceptional Exposure Dives	
6	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	In-Water Air and Air/O2 Decompression	
7	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Surface Decompression with Oxygen (SurDO2) Decompression	
8	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Dive planning app - 1	
9	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Dive planning app - 2	
10	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Variations in Ascent Speed	
11	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Emergency Procedures - 1	
12	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Emergency Procedures - 2	
13	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Diving at Altitude	
14	Review from last week, Preparation notes.		Lesson presentation, Problem solving, Case study	Practice exam	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	2,00
Ders Sonrası Bireysel Çalışma	14	2,00
Derse Katılım	14	3,00
Vize	1	2,00
Final	1	2,00
Ödev	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1		5	3	3	2								2	5								

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 2		5	2	3	3								3	4								
L.O. 3		5	3	4	4								4	5								
L.O. 4		5	5	3	3								3	5								
L.O. 5		5	3	2	3								3	5								

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Can dive planning

L.O. 2 : Can interpret and apply decompression tables

L.O. 3 : Diving supervisor knows his / her duties and responsibilities

L.O. 4 : Knows diving safety issues

L.O. 5 : Can plan an exposure dive

İndirilme Tarihi

23.10.2026 16:43:15

AIT1201 - Atatürk's Principles and History of Revolution II - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of the course is to provide the students with the knowledge and skills to analyze the political and economic developments of the period and to inform them about the recent history of Turkey. In addition, the basic dynamics of the Turkish revolution and the role of Atatürk's principles in nation-state building will be evaluated.

Course Contents

Revolutions, Trials for transferring to multi-party system in Turkey, Constitutions, İzmir Economy Congress, Economic Policy Atatürk Era, Turkish foreign policy (1913-1938), Ataturk s Principles, Ismet Inonu Era, Demokrat Party Era, Domestic political developments in Turkey from May 27 1960 to September 12 1980, Domestic political developments in Turkey since 12 September 1980, Turkey s foreign policy since 1960, Turkey s geopolitical position, the resulting threats, Turkey s modernization in 21st century

Recommended or Required Reading

Onur Akdoğan, Atatürk's Principles and History of Revolution II Textbook,

Planned Learning Activities and Teaching Methods

Presentation method.

Recommended Optional Programme Components

Periodic repetition is recommended.

Instructor's Assistants

There is no teaching assistant.

Presentation Of Course

Online

Dersi Veren Öğretim Elemanları

Inst. Dr. Samet Balta Dr. Öğr. Üyesi Yasin Turna Dr. Öğr. Üyesi Onur Saylan Assoc. Prof. Dr. Uğur Karadurmuş Inst. Sefa Çelebioğlu

Program Outcomes

1. Appraise the conditions at the front lines of the Independence War from political and military view
2. Evaluate with results how military achievements were moved to political ground.
3. Understands the importance of Atatürk's breakthroughs in the political, social, economic, legal, educational and cultural fields to bring the Republic of Turkey to the level of contemporary civilization.
4. They understand the importance of the independent and honorable foreign policy followed by Atatürk and have the same thoughts and behaviors. They gain the awareness of protecting and maintaining peace and stability with Atatürk's principle of peace at home and peace in the world.
5. By understanding and embracing the meaning, importance and goals of Atatürk's principles, he/she becomes conscious of being a wholehearted defender of these principles.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	2,00
Final	1	2,00
Derse Katılım	14	2,00
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						2
L.O. 2																						2
L.O. 3																						2
L.O. 4																						2
L.O. 5																						2

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Appraise the conditions at the front lines of the Independence War from political and military view

L.O. 2 : Evaluate with results how military achievements were moved to political ground.

L.O. 3 : Understands the importance of Atatürk's breakthroughs in the political, social, economic, legal, educational and cultural fields to bring the Republic of Turkey to the level of contemporary civilization.

L.O. 4 : They understand the importance of the independent and honorable foreign policy followed by Atatürk and have the same thoughts and behaviors. They gain the awareness of protecting and maintaining peace and stability with Atatürk's principle of peace at home and peace in the world.

L.O. 5 : By understanding and embracing the meaning, importance and goals of Atatürk's principles, he/she becomes conscious of being a wholehearted defender of these principles.

İndirilme Tarihi

30.10.2026 10:37:24

TDI1201 - Turkish Language II - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To enable the learners to comprehend the knowledge of Turkish language form and use the punctuation appropriately, to foster the learning of elements of sentence and the use of them, to teach the skills of writing and speaking without using expression disorders, to teach the skill of making presentations, to teach the skills of reading academic papers and taking notes. At the end of the course the learner;

Course Contents

Knowledge of the form of the Turkish language, elements and types of sentences, expression disorders , punctuation, presentation, poetry, essay, composition, article, newspaper and magazine studies and applications.

Recommended or Required Reading

BÜYÜKÖZTÜRK, Şener vd., Bilimsel Araştırma Yöntemleri, Pegem Akademi, Ankara, 2011. DEMİR, Nurettin; Yılmaz Emine, Türk Dili Yazılı ve Sözlü Anlatım, Nobel Basın, Ankara, 2009. DEVELİ, Hayati vd., Türk Dili II, İstanbul Üniversitesi Yayınları, İstanbul, 2010. KARASAR, Niyazi, Bilimsel Araştırma Yöntemi, Nobel Yayıncılık, Ankara, 2012.

Planned Learning Activities and Teaching Methods

Reading; presentation; straightforward narration; discussion; brainstorming; question and answer session

Recommended Optional Programme Components

In remote online classes, the following methods will be used to engage students in the lesson: narration, straightforward narration, examples, and sample questions to reinforce the topic.

Instructor's Assistants

There are no teaching assistants available.

Presentation Of Course

online

Dersi Veren Öğretim Elemanları

Inst. Burcu Camgöz

Program Outcomes

1. Students will apprehend the definition of language and its function, consequently the will put forward a word. The importance of language will be understood in life of nations. Studets can do a research on the issue of stressing the importance of language.
2. Understands the rules of spelling, uses punctuation marks effectively.
3. Understands the correct and effective use of language for written and oral expression and communication, gains the ability to express their wishes briefly, but fully.
4. Interprets the read texts and expresses his/her ideas about the text in written and oral form.
5. He/she writes template writings such as petitions, minutes, reports, CVs.
6. Will be able to express himself/herself in the best and most accurate way in every environment he/she is in, and will also be able to listen respectfully to the opinions of others and respect his/her own values.
7. Has scientific, critical, creative and constructive thinking qualities.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1			Presentation, Discussion, Question and Answer Session	Spelling rules	
2			Presentation, Discussion, Question and Answer Session	Spelling rules	
3			Presentation, Discussion, Question and Answer Session	Spelling rules	
4			Presentation, Discussion, Question and Answer Session	Punctuation Marks	
5			Presentation, Discussion, Question and Answer Session	Punctuation Marks	
6			Presentation, Discussion, Question and Answer Session	Phrase errors	
7			Presentation, Discussion, Question and Answer Session	Phrase errors	
8			Presentation, Discussion, Question and Answer Session	Phrase errors	
9			Presentation, Discussion, Question and Answer Session	Ways to Develop Thinking	
10			Presentation, Discussion, Question and Answer Session	Poetry and its characteristics	
11			Presentation, Discussion, Question and Answer Session	Written Narrative (Literary Genres)	
12			Presentation, Discussion, Question and Answer Session	Written Narrative (Literary Genres)	
13			Presentation, Discussion, Question and Answer Session	Types of Oral Narration	
14			Presentation, Discussion, Question and Answer Session	Scientific Writing Techniques	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Vize	1	2,00
Final	1	2,00

Assesments

Activities	Weight (%)
Final	60,00
Vize	40,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Gemi İnşaatı X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16
L.O. 1				1	3			1								
L.O. 2				1	3			1								
L.O. 3				1	3			1								
L.O. 4				1	3			1								
L.O. 5				1	3			1								
L.O. 6				1	3			1								
L.O. 7				1	3			1								

Table :

P.O. 1 : Possesses fundamental, up-to-date and practice-oriented knowledge related to the profession and uses this knowledge effectively.

P.O. 2 : Possesses knowledge of occupational health and safety and quality assurance processes.

P.O. 3 : Effectively uses information technologies related to the profession, including relevant software, programs and animation tools.

P.O. 4 : Evaluates professional problems and issues independently through analytical and critical thinking and proposes appropriate solutions.

P.O. 5 : Communicates knowledge, skills and ideas clearly through written and oral communication.

P.O. 6 : Takes responsibility as a team member in solving complex and unforeseen problems encountered in professional practices.

P.O. 7 : Plans career development and adopts a lifelong learning approach.

P.O. 8 : Adheres to social, scientific, cultural and ethical values in the collection, evaluation and dissemination of data related to the field.

P.O. 9 : Uses a foreign language to follow developments and information in the field and to communicate with professional colleagues.

P.O. 10 : Demonstrates awareness of the United Nations Sustainable Development Goals.

P.O. 11 : Demonstrates awareness of digitalization, environmental responsibility, green transformation and sustainability.

P.O. 12 : Reads and prepares technical and production drawings related to ship and yacht construction and edits them using computer-aided design environments.

P.O. 13 : Selects materials, structural elements and joining methods in accordance with production requirements, and inspects production and welding processes.

P.O. 14 : Carries out and evaluates shipbuilding, outfitting, maintenance and repair, and shipyard processes in accordance with the required workflow.

P.O. 15 : Uses data related to propulsion, auxiliary machinery, piping and outfitting systems and analyzes the relationships among these systems.

P.O. 16 : Performs and evaluates basic calculations related to ship form, structural elements, hydrostatics, stability and longitudinal strength.

L.O. 1 : Students will apprehend the definition of language and its function, consequently the will put forward a word. The importance of language will be understood in life of nations. Studets can do a research on the issue of stressing the importance of language.

L.O. 2 : Understands the rules of spelling, uses punctuation marks effectively.

L.O. 3 : Understands the correct and effective use of language for written and oral expression and communication, gains the ability to express their wishes briefly, but fully.

L.O. 4 : Interprets the read texts and expresses his/her ideas about the text in written and oral form.

L.O. 5 : He/she writes template writings such as petitions, minutes, reports, CVs.

L.O. 6 : Will be able to express himself/herself in the best and most accurate way in every environment he/she is in, and will also be able to listen respectfully to the opinions of others and respect his/her own values.

L.O. 7 : Has scientific, critical, creative and constructive thinking qualities.

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						3
L.O. 2																						3
L.O. 3																						3
L.O. 4																						3
L.O. 5																						3
L.O. 6																						3
L.O. 7																						3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Students will apprehend the definition of language and its function, consequently the will put forward a word. The importance of language will be understood in life of nations. Studets can do a research on the issue of stressing the importance of language.

L.O. 2 : Understands the rules of spelling, uses punctuation marks effectively.

L.O. 3 : Understands the correct and effective use of language for written and oral expression and communication, gains the ability to express their wishes briefly, but fully.

L.O. 4 : Interprets the read texts and expresses his/her ideas about the text in written and oral form.

L.O. 5 : He/she writes template writings such as petitions, minutes, reports, CVs.

L.O. 6 : Will be able to express himself/herself in the best and most accurate way in every environment he/she is in, and will also be able to listen respectfully to the opinions of others and respect his/her own values.

L.O. 7 : Has scientific, critical, creative and constructive thinking qualities.

İndirilme Tarihi
30.10.2026 10:39:43

YDI1201 - Foreign Language II (English) - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to develop students' basic English language skills. It aims to provide beginner-level proficiency in listening, speaking, reading, and writing.

Course Contents

This course focuses on basic vocabulary, grammar, sentence structures, and communicative tasks. Students learn to communicate in everyday situations

Recommended or Required Reading

Instructor notes and worksheets Network 1 – Student Book, Oxford University Press

Planned Learning Activities and Teaching Methods

Presentation and explanation, Question-answer sessions,Communicative Language Teaching

Recommended Optional Programme Components

Regular attendance and weekly revision are recommended.

Instructor's Assistants

There are no teaching assistants for this course.

Presentation Of Course

Online

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Nurçin Şirin Yavuz

Program Outcomes

1. He / she has knowledge of foreign language at the level that will be sufficient in his field.
2. Understand basic daily conversations and participate in simple dialogues
3. Read short and simple texts and grasp their general meaning.
4. Give personal information, ask and answer basic questions.
5. Write short, simple notes and messages.
6. Write short, simple notes and messages.
7. They will have developed their vocabulary and use both physical and electronic dictionaries.
8. They will become have become aware of the rules and use of their mother tongue and will have examined their own culture.
9. They will have acquired the methods of learning English on their own.
10. Their general level of culture will have increased and their horizons of view will have developed.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Ders hazırlık notları		Konu anlatım, Soru ve cevap	Greetings, personal info	
2	Ders hazırlık notları		Konu anlatım, Soru ve cevap	Family, occupations	
3	Ders hazırlık notları		Konu anlatım, Soru ve cevap	Daily routines	
4	Ders hazırlık notları		Konu anlatım, Soru ve cevap	Sİmple Present Tense	
5	Ders hazırlık notları		Konu anlatım, Soru ve cevap	Present Simple – questions Vocabulary: Free-time activities	
6	Ders hazırlık notları		Konu anlatım, Soru ve cevap	have/has – statements and questions Vocabulary: Family members	
7	Ders hazırlık notları		Konu anlatım, Soru ve cevap	Hobbies	
8	Ders hazırlık notları		Konu anlatım, Soru ve cevap	there is / there are – statements, questions	
9	Ders hazırlık notları		Konu anlatım, Soru ve cevap	: Asking about places in town Giving directions	
10	Ders hazırlık notları		Konu anlatım, Soru ve cevap	Present continuous Tense	
11	Ders hazırlık notları		Konu anlatım, Soru ve cevap	can / can't – statements, questions	
12	Ders hazırlık notları		Konu anlatım, Soru ve cevap	shopping	
13	Ders hazırlık notları		Konu anlatım, Soru ve cevap	Present Simple & Present Continuous	
14	Ders hazırlık notları		Konu anlatım, Soru ve cevap	revision	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	2,00
Final	1	2,00
Derse Katılım	14	2,00
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Gemi İnşaatı X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16
L.O. 1									5							
L.O. 2									5							
L.O. 3									5							
L.O. 4									5							

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16
L.O. 5									5							
L.O. 6									5							
L.O. 7									5							
L.O. 8									5							
L.O. 9									5							
L.O. 10									5							

Table :

P.O. 1 : Possesses fundamental, up-to-date and practice-oriented knowledge related to the profession and uses this knowledge effectively.

P.O. 2 : Possesses knowledge of occupational health and safety and quality assurance processes.

P.O. 3 : Effectively uses information technologies related to the profession, including relevant software, programs and animation tools.

P.O. 4 : Evaluates professional problems and issues independently through analytical and critical thinking and proposes appropriate solutions.

P.O. 5 : Communicates knowledge, skills and ideas clearly through written and oral communication.

P.O. 6 : Takes responsibility as a team member in solving complex and unforeseen problems encountered in professional practices.

P.O. 7 : Plans career development and adopts a lifelong learning approach.

P.O. 8 : Adheres to social, scientific, cultural and ethical values in the collection, evaluation and dissemination of data related to the field.

P.O. 9 : Uses a foreign language to follow developments and information in the field and to communicate with professional colleagues.

P.O. 10 : Demonstrates awareness of the United Nations Sustainable Development Goals.

P.O. 11 : Demonstrates awareness of digitalization, environmental responsibility, green transformation and sustainability.

P.O. 12 : Reads and prepares technical and production drawings related to ship and yacht construction and edits them using computer-aided design environments.

P.O. 13 : Selects materials, structural elements and joining methods in accordance with production requirements, and inspects production and welding processes.

P.O. 14 : Carries out and evaluates shipbuilding, outfitting, maintenance and repair, and shipyard processes in accordance with the required workflow.

P.O. 15 : Uses data related to propulsion, auxiliary machinery, piping and outfitting systems and analyzes the relationships among these systems.

P.O. 16 : Performs and evaluates basic calculations related to ship form, structural elements, hydrostatics, stability and longitudinal strength.

L.O. 1 : He / she has knowledge of foreign language at the level that will be sufficient in his field.

L.O. 2 : Understand basic daily conversations and participate in simple dialogues

L.O. 3 : Read short and simple texts and grasp their general meaning.

L.O. 4 : Give personal information, ask and answer basic questions.

L.O. 5 : Write short, simple notes and messages.

L.O. 6 : Write short, simple notes and messages.

L.O. 7 : They will have developed their vocabulary and use both physical and electronic dictionaries.

L.O. 8 : They will become have become aware of the rules and use of their mother tongue and will have examined their own culture.

L.O. 9 : They will have acquired the methods of learning English on their own.

L.O. 10 : Their general level of culture will have increased and their horizons of view will have developed.

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						3
L.O. 2																						3

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 3																						3
L.O. 4																						3
L.O. 5																						3
L.O. 6																						3
L.O. 7																						3
L.O. 8																						3
L.O. 9																						3
L.O. 10																						3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : He / she has knowledge of foreign language at the level that will be sufficient in his field.

L.O. 2 : Understand basic daily conversations and participate in simple dialogues

L.O. 3 : Read short and simple texts and grasp their general meaning.

L.O. 4 : Give personal information, ask and answer basic questions.

L.O. 5 : Write short, simple notes and messages.

L.O. 6 : Write short, simple notes and messages.

L.O. 7 : They will have developed their vocabulary and use both physical and electronic dictionaries.

L.O. 8 : They will become have become aware of the rules and use of their mother tongue and will have examined their own culture.

L.O. 9 : They will have acquired the methods of learning English on their own.

L.O. 10 : Their general level of culture will have increased and their horizons of view will have developed.

İndirilme Tarihi

22.10.2026 19:52:15

SUT1206 - Diving for Disabled People - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

By learning the concept of disability and disability types; To train individuals who will take active part in underwater activities for these groups.

Course Contents

What is disability and its types, being able to read and evaluate disability reports, autonomous underwater education used for disabled people, special equipment used in disabled diving and disabled diving certification system.

Recommended or Required Reading

TSSF Publications / IAHD Manual / IDDA Manual

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area.

Recommended Optional Programme Components

For people with disabilities; Since the underwater world is an area suitable for continuous technical development, students should update their knowledge about the subjects they are interested in.

Instructor's Assistants

Ferhat YALGIN

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın

Program Outcomes

1. Learning Disability Types as Having Knowledge About Disability
2. Learning Disabled Activities and Organizations
3. Taking Active Participation in Disabled Diving Organizations as Having Information on Disabled Diving
4. Raising Awareness on Disability
5. Approach to Individuals with Disabilities and Equipment and Equipment to be Used.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, Discussion, Question and answer	What is the disease?	Introduction, assembly and installation of equipment used in SCUBA
2	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	What is a disability? Accepted definitions of disability.	Introduction, assembly and installation of equipment used in SCUBA
3	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Types of disabilities; Mental Disability, Physical Disability, Hearing and Speech Disability Visual Disability and Chronic Types of Chronic Disability	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities, approach techniques. Introduction, assembly and installation of equipment used in SCUBA
4	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Types of disabilities; Mental Disability, Physical Disability, Hearing and Speech Disability Visual Disability and Chronic Types of Chronic Disability	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities, approach techniques.
5	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Types of disabilities; Mental Disability, Physical Disability, Hearing and Speech Disability Visual Disability and Chronic Types of Chronic Disability	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities, approach techniques.

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
6	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Types of disabilities; Mental Disability, Physical Disability, Hearing and Speech Disability Visual Disability and Chronic Types of Chronic Disability	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities, approach techniques.
7	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Types of disabilities; Mental Disability, Physical Disability, Hearing and Speech Disability Visual Disability and Chronic Types of Chronic Disability	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities, approach techniques.
8	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Types of disabilities; Mental Disability, Physical Disability, Hearing and Speech Disability Visual Disability and Chronic Types of Chronic Disability	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities, approach techniques.
9	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Disabled people and disabled organizations in Turkey	organization planning with people with disabilities
10	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving
11	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving
12	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving
13	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving
14	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving	Mental Disability, Physical Disability, Hearing and Speech Disability, Visual Disability and Chronic Chronic Disabilities SCUBA equipment to be used, approach techniques, submersion techniques, underwater communication and underwater extraction techniques and preparing disabled people for diving

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Sonrası Bireysel Çalışma	14	1,00
Ara Sınav Hazırlık	1	1,00
Derse Katılım	14	2,00
Vize	1	1,00
Final	1	1,00
Ders Öncesi Bireysel Çalışma	14	2,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00
Bütünleme	0,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																	4					
L.O. 2																	3					
L.O. 3																	2					
L.O. 4																	3					
L.O. 5																	4					

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Learning Disability Types as Having Knowledge About Disability

L.O. 2 : Learning Disabled Activities and Organizations

L.O. 3 : Taking Active Participation in Disabled Diving Organizations as Having Information on Disabled Diving

L.O. 4 : Raising Awareness on Disability

L.O. 5 : Approach to Individuals with Disabilities and Equipment and Equipment to be Used.

İndirilme Tarihi

22.10.2026 19:53:21

SUT1207 - Introduction to Fishing Technology - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of the course is to introduce students to water sciences and technology, to give information about the marine and inland water ecosystem, to introduce the fishing equipment, fishing systems, the problems that may be encountered in fishing and fishing, to teach the students the principles of sustainable fishing, aquaculture and fishing studies.

Course Contents

Water science, technology and engineering will be introduced, a brief introduction to fishing terms, the introduction of marine and freshwater ecosystems and varieties, fisheries systems, fish stocks in the world, sustainable fisheries management, aquaculture and fisheries.

Recommended or Required Reading

Sarı M., Balıkçılık Yönetimi, Nobel Akademik Yayıncılık, Ankara Avşar D., Balıkçılık Biyolojisi ve Populasyon Dinamiği, Adana Nobel Evi, Adana. Karataş, M., Balık Biyolojisi Araştırma Yöntemleri, Nobel Akademik Yayıncılık, Ankara

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Sarı M., Balıkçılık Yönetimi, Nobel Akademik Yayıncılık, Ankara Avşar D., Balıkçılık Biyolojisi ve Populasyon Dinamiği, Adana Nobel Evi, Adana Karataş, M., Balık Biyolojisi Araştırma Yöntemleri, Nobel Akademik Yayıncılık, Ankara

Instructor's Assistants

Doç. Dr. Uğur Karadurmuş

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş

Program Outcomes

1. Recognize the Fisheries Technology Engineering profession
2. Recognizes fishing systems and fishing gears
3. They have an idea about the world and our country fishing
4. They know the principles of sustainable fishing
5. Have an idea about aquaculture and fishing methods.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lesson presentation	Introduction to Marine Sciences and Technology	
2	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	History of Fishing-	Case study, Q&A, Demonstration and practice
3	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Fisheries Systems	Case study, Q&A, Demonstration and practice
4	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Fishing Techniques and Gear	Case study, Q&A, Demonstration and practice
5	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Marine Ecosystems and Fisheries	Case study, Q&A, Demonstration and practice
6	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	World Fisheries and Problems	Case study, Q&A, Demonstration and practice
7	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Overfishing	Case study, Q&A, Demonstration and practice
8	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Fish Farming and Farming Systems	Case study, Q&A, Demonstration and practice
9	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Aquaculture and the Environment	Case study, Q&A, Demonstration and practice
10	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Fish Farming Studies	Case study, Q&A, Demonstration and practice
11	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Sustainable Fishing	Case study, Q&A, Demonstration and practice
12	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Fisheries Management and Legislation	Case study, Q&A, Demonstration and practice
13	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	EU Fisheries Policy	Case study, Q&A, Demonstration and practice
14	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Scientific Studies and Sampling Methods in Fisheries	Case study, Q&A, Demonstration and practice
15	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study		

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Vize	1	2,00
Final	1	2,00
Uygulama / Pratik	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																				4		
L.O. 2																				5		
L.O. 3																				5		
L.O. 4																				5		
L.O. 5																				5		

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Recognize the Fisheries Technology Engineering profession

L.O. 2 : Recognizes fishing systems and fishing gears

L.O. 3 : They have an idea about the world and our country fishing

L.O. 4 : They know the principles of sustainable fishing

L.O. 5 : Have an idea about aquaculture and fishing methods.

İndirilme Tarihi

22.10.2026 19:54:10

SUT1208 - Business English - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to enable students to learn basic English professional terminology used in underwater and diving; understand basic technical texts related to diving equipment, diving systems, underwater operations and occupational safety; and communicate in English at a basic professional level.

Course Contents

Basic diving and underwater terminology; diver equipment and personal diving gear; scuba and surface-supplied diving systems; diving support equipment; compressors and breathing gases; diving operations and job descriptions; underwater hand tools; underwater cutting and welding terminology; basic terminology related to ROV and sonar systems; diving health and safety; emergency expressions; dive plans, checklists, technical instructions and basic professional communication.

Recommended or Required Reading

U.S. Navy Diving Manual

Planned Learning Activities and Teaching Methods

Theorical

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Ahmet Demiray

Program Outcomes

1. Defines and uses basic English professional terminology used in underwater and diving.
2. Identifies and describes diving equipment and diving systems in English.
3. Explains and uses basic English expressions used in diving operations and underwater work.
4. Uses basic English terms and expressions related to diving health, safety and emergency situations.
5. Communicates orally and in writing in English on basic professional topics related to underwater technology and diving.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllbus		Lecture, question and answer	Introduction to English for Underwater Technology and Diving	
2	Repeat of last week		Lecture, question and answer	Basic Diving Terms and Diving Terminology	
3	Repeat of last week		Lecture, question and answer	Personal Diving Equipment and Gear	
4	Repeat of last week		Lecture, question and answer	SCUBA Diving Systems and Components	
5	Repeat of last week		Lecture, question and answer	Surface-Supplied Diving Systems and Equipment	
6	Repeat of last week		Lecture, question and answer	Diving Support Equipment and Dive Station Terminology	
7	Repeat of last week		Lecture, question and answer	Basic Commands and Communication in Diving Operations	
8	Repeat of last week		Lecture, question and answer	English Expressions Used in Diving Tasks and Underwater Work	
9	Repeat of last week		Lecture, question and answer	Dive Planning, Task Allocation and Operational Expressions	
10	Repeat of last week		Lecture, question and answer	Basic English Terms Related to Diving Health	
11	Repeat of last week		Lecture, question and answer	Diving Safety, Hazard and Risk Terminology	
12	Repeat of last week		Lecture, question and answer	Emergencies, Rescue and Basic Diving Emergency Expressions	
13	Repeat of last week		Lecture, question and answer	Professional Communication in Diving Operations	
14	Repeat of last week		Lecture, question and answer	Professional Communication and Practice in Underwater Technology and Diving	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																	5		5			3
L.O. 2																	5		5			3

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 3																	5		5			3
L.O. 4																	5		5			3
L.O. 5																	5		5			3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Defines and uses basic English professional terminology used in underwater and diving.

L.O. 2 : Identifies and describes diving equipment and diving systems in English.

L.O. 3 : Explains and uses basic English expressions used in diving operations and underwater work.

L.O. 4 : Uses basic English terms and expressions related to diving health, safety and emergency situations.

L.O. 5 : Communicates orally and in writing in English on basic professional topics related to underwater technology and diving.

İndirilme Tarihi

22.10.2026 19:54:40

SUT1209 - Safety and Navigation of Sea - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to equip students with the skills required to ensure safe navigation at sea, including voyage planning, risk assessment, decision-making, and emergency management.

Course Contents

Navigation definitions and basic terms, Navigation Chart information and navigational instruments, Course, bearing, position determination, Use of radar, GPS and ECDIS, COLREG rules (collision avoidance rules), Safe navigation and navigation planning, Life saving and fire fighting at sea, Navigation management in accidents, breakdowns and bad weather conditions.

Recommended or Required Reading

MEB - BASIC NAVIGATION

Planned Learning Activities and Teaching Methods

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray

Program Outcomes

1. Explains basic concepts related to safety at sea, safe working on board, hazards and risks.
2. Identifies lifesaving appliances and explains basic safety and rescue procedures for fire, flooding, abandon-ship and man-overboard situations.
3. Explains maritime communication, emergency signals and the effects of weather, wind, waves and visibility on navigational safety.
4. Applies basic position fixing and pilotage using the compass, bearings, nautical charts, aids to navigation and electronic navigation devices.
5. Explains the basic principles of collision regulations and applies them in safe navigation practices.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllbus		Lecture,Discuss,Question and answer	Introduction to Seamanship and Basic Maritime Terminology	
2	Repeat of last week		Lecture,Discuss,Question and answer	Safe Working on Board, Hazards and Risks	
3	Repeat of last week		Lecture,Discuss,Question and answer	Personal Protective Equipment and Life-Saving Appliances	
4	Repeat of last week		Lecture,Discuss,Question and answer	Basic Safety in Fire, Flooding and Abandon-Ship Situations	
5	Repeat of last week		Lecture,Discuss,Question and answer	Man Overboard, Initial Response and Basic Rescue Principles	
6	Repeat of last week		Lecture,Discuss,Question and answer	Maritime Communication, Distress Signals and Basic Emergency Messages	
7	Repeat of last week		Lecture,Discuss,Question and answer	Marine Weather, Wind, Waves and Visibility Conditions	
8	Repeat of last week		Lecture,Discuss,Question and answer	Introduction to Navigation: Directions, Compass and Bearing	
9	Repeat of last week		Lecture,Discuss,Question and answer	Nautical Charts, Symbols and Chart Scale	
10	Repeat of last week		Lecture,Discuss,Question and answer	Lights, Buoys and Aids to Navigation	
11	Repeat of last week		Lecture,Discuss,Question and answer	Basic Position Fixing and Pilotage	
12	Repeat of last week		Lecture,Discuss,Question and answer	GPS and Basic Electronic Navigation Equipment	
13	Repeat of last week		Lecture,Discuss,Question and answer	Introduction to Collision Regulations at Sea	
14	Repeat of last week		Lecture,Discuss,Question and answer	Navigation Safety, Emergency Scenarios and General Practice	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1						5																
L.O. 2						5																

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 3						5																
L.O. 4						5																
L.O. 5						5																

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains basic concepts related to safety at sea, safe working on board, hazards and risks.

L.O. 2 : Identifies lifesaving appliances and explains basic safety and rescue procedures for fire, flooding, abandon-ship and man-overboard situations.

L.O. 3 : Explains maritime communication, emergency signals and the effects of weather, wind, waves and visibility on navigational safety.

L.O. 4 : Applies basic position fixing and pilotage using the compass, bearings, nautical charts, aids to navigation and electronic navigation devices.

L.O. 5 : Explains the basic principles of collision regulations and applies them in safe navigation practices.

İndirilme Tarihi

22.10.2026 19:55:05

SUT1210 - Digitalization and Smart Systems in Maritime Industry - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü
General Info

Objectives of the Course

To enable students to understand digital technologies and smart systems used in the maritime sector and evaluate their applications in ship management, navigation, maintenance, and port operations. The course also aims to develop students' ability to assess digital solutions in terms of operational efficiency, maritime safety, cybersecurity, human factors, and environmental sustainability.

Course Contents

Fundamental concepts of digital transformation in the maritime sector; data collection, sensors, and the Internet of Things on board ships and in ports; ship–shore communication and system integration; electronic navigation and e-navigation applications; big data, artificial intelligence, and decision support systems; digital twins and predictive maintenance; smart ships, autonomous systems, and remote operations; smart ports, port community systems, and Maritime Single Window applications; maritime cybersecurity and data management; energy efficiency and emissions monitoring; human–machine interaction, ethics, and relevant regulations; evaluation of maritime digital transformation projects through case studies.

Recommended or Required Reading

International Maritime Organization (IMO) — E-navigation International Maritime Organization (IMO) — Maritime Single Window International Maritime Organization (IMO) — Maritime Digitalization Strategy and Cybersecurity Measures

Planned Learning Activities and Teaching Methods

The activities are detailed in the "Evaluation" and "Workload Calculation" sections.

Recommended Optional Programme Components

-None-

Instructor's Assistants

-None-

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Üstün Atak

Program Outcomes

1. Distinguish between digitalization, automation, and smart systems in the maritime sector.
2. Explain the functions of sensor, communication, and data infrastructures used in ship and port operations.
3. Analyze sample operational data using basic indicators and interpret the results.
4. Compare the applications and limitations of artificial intelligence, digital twins, and predictive maintenance.
5. Evaluate smart and autonomous systems in terms of safety, cybersecurity, and human factors.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	N/A		Discussion, Brainstorming, Question and answer (Q&A), Case study	Syllabus	
2	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Digital transformation in maritime: fundamental concepts, needs, and application areas	Digital transformation in maritime: fundamental concepts, needs, and application areas
3	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Maritime data: data sources, data quality, standardization, and interoperability	Maritime data: data sources, data quality, standardization, and interoperability
4	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Sensors, the Internet of Things, and condition monitoring on board ships	Sensors, the Internet of Things, and condition monitoring on board ships
5	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Ship–shore communication, data transmission, cloud computing, and edge computing	Ship–shore communication, data transmission, cloud computing, and edge computing

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
6	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Electronic navigation systems: ECDIS, AIS, and the e-navigation concept	Electronic navigation systems: ECDIS, AIS, and the e-navigation concept
7	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Maritime data analytics and decision support systems; analysis of sample data	Maritime data analytics and decision support systems; analysis of sample data
8	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Mid-term exam	
9	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Artificial intelligence and machine learning: applications, data requirements, and limitations	Artificial intelligence and machine learning: applications, data requirements, and limitations
10	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Digital twins, fault detection, and predictive maintenance	Digital twins, fault detection, and predictive maintenance
11	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Smart ships, levels of autonomy, and remote operations	Smart ships, levels of autonomy, and remote operations
12	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Smart ports, terminal automation, port community systems, and the Maritime Single Window Energy management and digital monitoring of fuel consumption and emissions	Smart ports, terminal automation, port community systems, and the Maritime Single Window Energy management and digital monitoring of fuel consumption and emissions
13	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Maritime cybersecurity and the protection of information technology and operational technology systems	Maritime cybersecurity and the protection of information technology and operational technology systems
14	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study		
15	Last Week Topics		Discussion, Brainstorming, Question and answer (Q&A), Case study	Course general review	Course general review

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	2,00
Final	1	2,00
Final Sınavı Hazırlık	1	30,00
Ara Sınav Hazırlık	1	25,00
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	5,00

Assesments

Activities	Weight (%)
Final	60,00
Vize	40,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																			5			3
L.O. 2																			5			3
L.O. 3																			5			3
L.O. 4																			5			3
L.O. 5																			5			3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Distinguish between digitalization, automation, and smart systems in the maritime sector.

L.O. 2 : Explain the functions of sensor, communication, and data infrastructures used in ship and port operations.

L.O. 3 : Analyze sample operational data using basic indicators and interpret the results.

L.O. 4 : Compare the applications and limitations of artificial intelligence, digital twins, and predictive maintenance.

L.O. 5 : Evaluate smart and autonomous systems in terms of safety, cybersecurity, and human factors.

İndirilme Tarihi

22.10.2026 19:55:43

SUT1211 - Vocational Ethics - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to enable students to recognize, evaluate, and resolve ethical dilemmas they may encounter in their professional lives. The course aims to provide students with knowledge about ethical theories, principles, and professional standards.

Course Contents

The course covers the concept of professional ethics, distinction between ethics and morality, ethical theories, professional responsibility, public service ethics, ethical dilemmas, examples of unethical behaviors in professions, ethics boards, ethical decision-making processes, and professional practices based on ethical principles.

Recommended or Required Reading

Nuran Öztürk Başpınar ve Demet Çakıroğlu, Meslet Etiği

Planned Learning Activities and Teaching Methods

Theoretical lecture and Question Answer, discussion, problem solving

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to face - Formal Education

Dersi Veren Öğretim Elemanları

Inst. Alparslan Fatih Kulakaç

Program Outcomes

1. Review Ethics and Ethics Concepts
2. To comply with professional ethics principles
3. Defining the concepts of social responsibility
4. Explain the consequences of unethical behavior
5. Explain general business ethics

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	The course syllabus is explained.			Introduction to the Concept of Ethics	
2	Preparation before the subject			The Concept of Profession and Professional Ethics	
3	Review of preparatory notes			Ethical Theories	
4	Repeat of last week's			Professional Values and Ethical Principles	
5	Reading the relevant sources			Professional Responsibility and Accountability	
6	Preparation before the subject			Professional Codes of Ethics	
7	Preparation before the subject			Ethical Decision-Making	
8	Repeat of last week's			Professional Ethical Dilemmas	
9	Reading the relevant sources			Workplace Ethics and Organizational Ethics	
10	Review of preparatory notes			Professional Ethics and Communication	
11	Reading the relevant sources			Privacy, Personal Data, and Information Ethics	
12	Preparation before the subject			Unethical Behaviors and Professional Violations	
13	Review of preparatory notes			Professional Ethics and Social Responsibility	
14	Review of preparatory notes			General Assessment of Professional Ethics	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	1,00
Final Sınavı Hazırlık	1	10,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																			3			3
L.O. 2																			5			3
L.O. 3																			1			3
L.O. 4																			1			3
L.O. 5																			3			3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Review Ethics and Ethics Concepts

L.O. 2 : To comply with professional ethics principles

L.O. 3 : Defining the concepts of social responsibility

L.O. 4 : Explain the consequences of unethical behavior

L.O. 5 : Explain general business ethics

İndirilme Tarihi

30.10.2026 10:45:44

HGC1200 - Volunteering Studies - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To develop students' awareness of volunteering, social responsibility, and active citizenship and to enable them to design solution-oriented volunteering activities by analysing social, environmental, scientific, and humanitarian challenges.

Course Contents

Volunteering and active citizenship; civil society; identification of community needs; social responsibility; scientific and environmental volunteering; protection of marine and coastal environments; volunteering with disadvantaged groups; disaster and emergency volunteering; Sustainable Development Goals; ethics, inclusion and safety; development, implementation, monitoring, impact assessment and dissemination of volunteering projects.

Recommended or Required Reading

United Nations Volunteers. (2021). 2022 State of the World's Volunteerism Report: Building Equal and Inclusive Societies. United Nations Volunteers. European Commission. (2025). European Solidarity Corps Guide 2026. European Commission.Şentürk, M. (Ed.). (2022). Gönüllülük ve Gönüllülerle Birlikte Çalışmak. İstanbul Üniversitesi Yayınevi.
Musick, M. A., & Wilson, J. (2007). Volunteers: A social profile. Indiana University Press.

Planned Learning Activities and Teaching Methods

Interactive lectures, case studies, discussions, problem-based learning, group work, needs assessment, project-based learning

Recommended Optional Programme Components

Dersin uygulama ve toplumsal etkileşim boyutu ön planda tutulmalıdır.

Instructor's Assistants

Assoc. Prof. Uğur KARADURMUŞ

Presentation Of Course

Face to face - Formal Education

Dersi Veren Öğretim Elemanları

Inst. Alparslan Fatih Kulakaç Assoc. Prof. Dr. Uğur Karadurmuş

Program Outcomes

1. Explains volunteering and social responsibility concepts.
2. Identifies social and environmental needs.
3. Designs a volunteering activity or project.
4. Works collaboratively in volunteering activities.
5. Evaluates the outcomes and impacts of volunteering activities.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Theoretical presentation, case study, best practices	Volunteering and basic concepts	
2	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Active citizenship and civil society	
3	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Community needs analysis	
4	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Volunteering and sustainability	
5	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Environmental and scientific volunteering	
6	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Social volunteering and inclusion	
7	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Disaster and emergency volunteering	
8	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Ethics in volunteering	
9	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Volunteering project development	
10	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Project planning and teamwork	
11	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Communication and digital volunteering	
12	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Implementation of volunteering activities	
13	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Student Volunteering Ideas-1	
14	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Student Volunteering Ideas-2	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Vize	1	2,00
Final	1	2,00
Araştırma Sunumu	1	8,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																			2			3
L.O. 2																			3			3
L.O. 3																			2			3
L.O. 4																			2			3
L.O. 5																			5			3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains volunteering and social responsibility concepts.

L.O. 2 : Identifies social and environmental needs.

L.O. 3 : Designs a volunteering activity or project.

L.O. 4 : Works collaboratively in volunteering activities.

L.O. 5 : Evaluates the outcomes and impacts of volunteering activities.

İndirilme Tarihi

22.10.2026 19:56:30

SUT2101 - Commercial Diving I - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To teach the basic equipment, working methods, and safety rules used in industrial diving and to provide students with fundamental professional knowledge and skills related to underwater work practices.

Course Contents

Aims to provide students with basic professional knowledge and skills related to industrial diving equipment, working methods, safety rules, and fundamental underwater work practices.

Recommended or Required Reading

U.S. Navy Diving Manual

Planned Learning Activities and Teaching Methods

Lecture, Question and Answer, Case Study

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face - Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray

Program Outcomes

1. Will be able to determine the appropriate diving system for the job.
2. It will be able to plan and dive in accordance with the rules with the surface supply diving system.
3. Will be able to use pneumatic and hydraulic underwater tools.
4. Ability to perform simple and advanced underwater work
5. Ability to deal with problems that may be encountered underwater

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllbus		Lecture,Discuss,Question and answer	Introduction to Industrial Diving	
2	Repeat of last week		Lecture,Discuss,Question and answer	Diving Equipment and Technologies	
3	Repeat of last week		Lecture,Discuss,Question and answer	Surface-Supplied Diving Systems	
4	Repeat of last week		Lecture,Discuss,Question and answer	Auxiliary Diving Equipment	
5	Repeat of last week		Lecture,Discuss,Question and answer	Pre-Dive Preparation and Planning	
6	Repeat of last week		Lecture,Discuss,Question and answer	Mix Gases Used in Surface-Supplied Dives	
7	Repeat of last week		Lecture,Discuss,Question and answer	Safety and Risk Management in Diving	
8	Repeat of last week		Lecture,Discuss,Question and answer	Simple and Electric Hand Appliances	
9	Repeat of last week		Lecture,Discuss,Question and answer		Scuba Diving in Industrial Diving
10	Repeat of last week		Lecture,Discuss,Question and answer		Scuba Diving in Industrial Diving
11	Repeat of last week		Lecture,Discuss,Question and answer		Scuba Diving in Industrial Diving
12	Repeat of last week		Lecture,Discuss,Question and answer		Surface-Supplied Diving in Industrial Diving
13	Repeat of last week		Lecture,Discuss,Question and answer		Surface-Supplied Diving in Industrial Diving
14	Repeat of last week		Lecture,Discuss,Question and answer		Surface-Supplied Diving in Industrial Diving

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	2,00
Final	1	2,00
Uygulama / Pratik	14	4,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	1,00
Gösterip yaptırma	14	1,00
Diğer	14	2,00

Assesments

Activities	Weight (%)
Vize	20,00
Final	60,00
Uygulama / Pratik	20,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1		5							5	5	5			5								
L.O. 2		5	5						5	5	5			5								
L.O. 3		5	5						5	5	5			5								
L.O. 4		5							5	5	5	5		5			5	3				
L.O. 5		5	5						5	5	5	5		5			5					

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Will be able to determine the appropriate diving system for the job.

L.O. 2 : It will be able to plan and dive in accordance with the rules with the surface supply diving system.

L.O. 3 : Will be able to use pneumatic and hydraulic underwater tools.

L.O. 4 : Ability to perform simple and advanced underwater work

L.O. 5 : Ability to deal with problems that may be encountered underwater

İndirilme Tarihi

22.10.2026 19:57:09

SUT2102 - Salvage Diving - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Salvage Diving course is to provide divers with the specific knowledge and skills to take part in the underwater detection, evaluation and rescue processes of sunken, stranded or damaged ships.

Course Contents

Ship salvage types and case studies, Classification and evaluation of sunken ships, Underwater damage assessment and reporting techniques, Buoyancy balloons and lifting systems, Wreck diving safety and salvage protocols, Diving equipment used in ship salvage, Environmental factors and legal regulations.

Recommended or Required Reading

US NAVY Diving Manual, US Salvage Manual

Planned Learning Activities and Teaching Methods

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray Dr. Öğr. Üyesi Mesut Ulu

Program Outcomes

1. Explains the basic concepts of ship salvage operations.
2. Ability to design sunken or wreck ship removal / flotation operations
3. To be able to determine and use the necessary equipment for rescue
4. Solving problems encountered during rescue operations
5. To be able to follow up-to-date information and laws regarding rescue techniques
6. To be able to develop and apply an emergency procedure.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap	Rescue and Salvage Theory	
2	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap	Rescue shipping	
3	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap	Ship Salvage Methods	
4	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap	Rescue Equipment	
5	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap	Salvage of Ships That Have Run Aground	
6	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap	Wreck Search Methods	
7	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap	Ship stability calculations Wreck Search Methods	
8	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap	Underwater Search Methods	
9	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap		Underwater and Surface Rescue Applications
10	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap		Underwater and Surface Rescue Applications
11	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap		Underwater and Surface Rescue Applications
12	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap		Underwater and Surface Rescue Applications
13	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap		Underwater and Surface Rescue Applications
14	A recap of last week		Ders anlatım, Vaka Analizi, Tartışma, Soru/Cevap		Underwater and Surface Rescue Applications

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1							5				5	5		5	0	5	5	0	5			
L.O. 2							5				5	5		5	0	5	5	0	5			

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 3							5				5	5		5	5	0	5	5	5			
L.O. 4							5				5	5		5	0	5	5	0	5			
L.O. 5							5				0	5		5	0	0	0	0	5			
L.O. 6							5				0	5		5	0	0	0	0	5			

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains the basic concepts of ship salvage operations.

L.O. 2 : Ability to design sunken or wreck ship removal / flotation operations

L.O. 3 : To be able to determine and use the necessary equipment for rescue

L.O. 4 : Solving problems encountered during rescue operations

L.O. 5 : To be able to follow up-to-date information and laws regarding rescue techniques

L.O. 6 : To be able to develop and apply an emergency procedure.

İndirilme Tarihi

22.10.2026 19:57:47

SUT2103 - Hyperbaric Systems and Treatment - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To learn the structure and working principles of compressors, to comprehend the types and working principles of pressure chambers, to recognize the additional equipment of the pressure chamber, to learn to operate the pressure chamber, to transfer from the pressure chamber to the outside, to transfer from the outside to the pressure chamber, to use the medical compartment, to learn to prepare the patient for hyperbaric therapy, to learn safety precautions, to know the protocols of hyperbaric oxygen therapy and recompression therapies to be applied, to understand and apply the treatment tables, to learn the approach in pressure chamber emergencies, to understand the national legislation related to pressure chambers, to learn the application of surface decompression.The aim of this course is to students; To teach the working principles of pressure chambers, operating procedures and bases, treatment tables and application of these tables in pressurized environment.

Course Contents

Structures, types and maintenance of compressors, structures, types, equipment and safety precautions of pressure chambers, hyperbaric oxygen therapy and recompression therapy tables, hyperbaric oxygen therapy indications, hyperbaric therapy management, national legislation, surface decompression application. The content of this course; Pressure chambers and types. High pressure compressors, tubes, usage and capacity calculations. Control and maintenance of pressure chambers. In diving accidents; creates treatment tables and safety measures used in the treatment of diseases.

Recommended or Required Reading

HİPERBARİK TIP / U.S. Navy Diving Manual / NOAA Diving Manual / ADAS Diving Manual

Planned Learning Activities and Teaching Methods

In my classroom / Online

Recommended Optional Programme Components

There are changes in the systems used with the developing technology. As a result of these changes, current situations that occur in divers should be identified and added to the training.

Instructor's Assistants

Specialist Dr. Kemal Kutay KÜLAHÇI, Undersea and Hyperbaric Medicine Assist. Prof. Dr. Ferhat YALGIN

Presentation Of Course

Face-to-Face / Online - Formal Education

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın Inst. Kemal Kutay Külahcı

Program Outcomes

1. Understanding the construction materials, equipment and working principles of pressure chambers,
2. Understanding the relationship between gases used in pressure chambers and treatments,
3. To be able to make the necessary capacity calculations for gas supply in pressurized rooms,
4. Basınçlı odalarda gaz ikmali konusunda gerekli kapasite hesaplarını yapabilme,
5. Ability to run a pressure chamber,
6. To understand and apply the maintenance and attitude of pressurized rooms,
7. Ability to apply treatment tables related to diving accidents and diseases in pressure rooms,
8. To understand and apply the safety precautions about pressure chambers.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, Discussion, Question and answer	compressors	
2	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	pressure chambers	
3	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Preparing the pressure chamber for treatment and periodic checks.	
4	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Management of hippebaric treatment.	
5	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Hyperbaric oxygen and recompression therapy.	
6	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Safety precautions in pressure chambers. Safety precautions in pressure chambers.	
7	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Recompression treatment tables	
8	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Pressure room emergency management.	
9	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Oxygen toxicity.	
10	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Patient preparation and education for hyperbaric therapy. Patient preparation and education for hyperbaric therapy.	
11	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Legislation on hyperbaric treatments.	
12	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Keeping hyperbaric treatment hyperbaric unit records.	
13	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Prevention and intervention against fire in hyperbaric unit.	
14	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer	Pressure chamber and internal equipment hygiene.	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ara Sınav Hazırlık	1	1,00
Final Sınavı Hazırlık	1	1,00
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	1,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	1,00
Vize	1	2,00
Final	1	2,00
Ders Öncesi Bireysel Çalışma	14	2,00

Assesments

Activities	Weight (%)
Bütünleme	0,00
Final	60,00
Vize	40,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1				4	3								5									
L.O. 2				3	3								4									
L.O. 3				4	1								3									
L.O. 4				2	3								4									
L.O. 5				3	3								5									
L.O. 6				4	4								4									
L.O. 7				3	3								4									
L.O. 8				5	2								5									

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Understanding the construction materials, equipment and working principles of pressure chambers,

L.O. 2 : Understanding the relationship between gases used in pressure chambers and treatments,

L.O. 3 : To be able to make the necessary capacity calculations for gas supply in pressurized rooms,

L.O. 4 : Basınçlı odalarda gaz ikmali konusunda gerekli kapasite hesaplarını yapabilme,

L.O. 5 : Ability to run a pressure chamber,

L.O. 6 : To understand and apply the maintenance and attitude of pressurized rooms,

L.O. 7 : Ability to apply treatment tables related to diving accidents and diseases in pressure rooms,

L.O. 8 : To understand and apply the safety precautions about pressure chambers.

İndirilme Tarihi

22.10.2026 19:58:45

SUT2104 - Cutting and Welding Operations - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to teach the principles of cutting and welding processes to be used on the surface, underwater, to gain the practice of surface welding processes and the use of hand tools.

Course Contents

Overview of Welding Technique and Welding Methods, Safety precautions and precautions, Basic Electrical Knowledge, Arc Formation and Welding Machine Types, Preparing Parts for Welding and Opening Welding Bore, Welding Positions, Welder Equipment, Electric Arc Welding, Underwater Cutting and Overview of Welding Methods, Electric Arc Welding Application.

Recommended or Required Reading

MEB - ELECTRIC ARC WELDING

Planned Learning Activities and Teaching Methods

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray Dr. Öğr. Üyesi Derya Babacan Assoc. Prof. Dr. Sabri Alkan

Program Outcomes

1. Explains the basic principles of welding and cutting methods.
2. Applies occupational health and safety rules in welding and cutting operations.
3. Identifies welding machines, welding equipment and hand tools and uses them appropriately.
4. Prepares workpieces for welding and performs electric arc welding in basic welding positions.
5. Explains cutting methods, the equipment used and their basic operating principles.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lecture, question-and-answer session, demonstration and practice.	Introduction to Welding and Cutting Technologies	
2	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.	Fundamentals of Welding and Electricity	
3	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.	Welding Technology	
4	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.	Cutting Applications	
5	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.	Fires and Firefighting Methods	
6	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Welding Workshop, Personal Protective Equipment and Use of Welding Equipment
7	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Workpiece Preparation and Use of Hand Tools
8	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Introduction to Arc Welding: Arc Striking and Straight Weld Bead Practice
9	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Introduction to Arc Welding: Arc Striking and Straight Weld Bead Practice
10	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Straight Weld Beads and Electrode Control in the Flat Position
11	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Butt Joint Welding and Basic Welding Practice
12	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Fillet Welding and Horizontal Welding Practice
13	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Introduction to Vertical Welding and Basic Vertical Welding Practice
14	Repeat of last week's		Lecture, question-and-answer session, demonstration and practice.		Identification of Welding Defects, Correction and Repeated Practice

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00
Uygulama / Pratik	14	3,00
Atölye	14	3,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1												5		5			5	5				
L.O. 2												5		5			5	5				
L.O. 3												5		5			5	5				
L.O. 4												5		5			5	5				
L.O. 5												5		5			5	5				

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains the basic principles of welding and cutting methods.

L.O. 2 : Applies occupational health and safety rules in welding and cutting operations.

L.O. 3 : Identifies welding machines, welding equipment and hand tools and uses them appropriately.

L.O. 4 : Prepares workpieces for welding and performs electric arc welding in basic welding positions.

L.O. 5 : Explains cutting methods, the equipment used and their basic operating principles.

İndirilme Tarihi

30.10.2026 10:43:01

STJ2101 - İnternship - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To enable students to gain professional experience by applying the theoretical and practical knowledge they have learned in real work environment.

Course Contents

Transformation of Theoretical Knowledge into Practice, Gaining Professional Experience, Learning Work Discipline, Contribution to Career Planning, Communication and Social Skills Development, Professional Networking, Opportunity for Self-Assessment, Improvement of Adaptability to Work.

Recommended or Required Reading

Internship Notebook

Planned Learning Activities and Teaching Methods

30 working days of field work

Recommended Optional Programme Components

It is recommended that the internship be conducted in a manner that enables students to apply their theoretical knowledge and professional skills in a real-world work environment. During the internship, compliance with occupational health and safety standards, professional ethics, workplace rules, and professional discipline is required; furthermore, student attendance and the work performed must be monitored and reported upon completion of the internship.

Instructor's Assistants

Presentation Of Course

Internship

Dersi Veren Öğretim Elemanları

Inst. Alparslan Fatih Kulakaç Dr. Öğr. Üyesi Ramazan Ülkü Çetin Inst. Ahmet Demiray

Program Outcomes

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Workplace practice		Workplace overview, work environment, organizational structure, duties and responsibilities, occupational health and safety.
2	Relevant sources are called to attention.		Workplace practice		Familiarization with professional tools, implements, equipment, and work methods; observation of basic professional practices.
3	A reminder is given regarding preparation for the topic.		Workplace practice		Participation in professional practices related to the field; application of theoretical knowledge and teamwork.
4	You are reminded to read the relevant sources.		Workplace practice		Execution of professional duties under the supervision of responsible personnel; work organization and problem-solving practices.
5	A reminder is given to review the preparatory notes.		workplace practice		Development of professional practices; evaluation of professional communication, work discipline, and work processes.
6	Reading the relevant sources		Workplace Application		Completion of internship activities: evaluation of professional gains, preparation of the internship report, and finalization of the internship process.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Problem Çözme	10	1,00
Rapor	4	1,00
Uygulama / Pratik	30	4,00
Uygulama / Pratik	0	0,00
Derse Katılım	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00

Assesments

Activities	Weight (%)
Alan Çalışması	40,00
Rapor	60,00
Final	0,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						
L.O. 2																						
L.O. 3																						
L.O. 4																						
L.O. 5																						
L.O. 6																						
L.O. 7																						
L.O. 8																						
L.O. 9																						
L.O. 10																						

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 :

L.O. 2 :

L.O. 3 :

L.O. 4 :

L.O. 5 :

L.O. 6 :

L.O. 7 :

L.O. 8 :

L.O. 9 :

L.O. 10 :

İndirilme Tarihi

22.10.2026 19:59:38

SUT2105 - Advanced Diving Techniques - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To teach diving techniques for special purposes and to introduce the materials used in these techniques. To give information about innovations in diving technology. To convey detailed information on techniques for diving in waters contaminated with chemical, biological and nuclear materials and techniques for searching, finding and extracting bodies, vehicles, weapons, explosives and other evidence that fall within the scope of underwater criminology with the materials used.

Course Contents

Polluted Water Diving, Cold water and under ice diving, Cave diving, Altitude diving, Search-rescue diving, Criminal diving.

Recommended or Required Reading

TSSF - SSI - PADI Publications / U.S. Navy Diving Manual / NOAA Diving Manual / ADAS Diving Manual

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area.

Recommended Optional Programme Components

Since the underwater world is an area suitable for continuous technical development, students need to update their knowledge about the subjects they are interested in.

Instructor's Assistants

Assist. Prof. Dr. Ferhat YALGIN

Presentation Of Course

Face to Face - Formal Education

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın

Program Outcomes

1. Will be able to classify dives for special purposes,
2. Will be able to apply diving techniques in waters contaminated with chemical, biological and nuclear materials,
3. Will be able to define techniques for searching, finding and extracting corpses, vehicles, weapons, explosives and other evidences within the scope of underwater criminology,
4. Know the effect of dangerous substances on living creatures and materials underwater and will be able to prevent them,
5. Will be able to dive using diving techniques for special purposes.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, Discussion, Question and answer, and practical application		Specific types of diving needed in Turkey and in the world, recognition of diving systems in these areas and procedures for their possible use.
2	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application		Specific types of diving needed in Turkey and in the world, recognition of diving systems in these areas and procedures for their possible use.
3	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Altitude diving in Turkey and in the world, recognition of the diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.	Specific types of diving needed in Turkey and in the world, recognition of diving systems in these areas and procedures for their possible use. Altitude diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
4	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Disabled diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities, legal responsibilities and procedures in these areas.	Specific types of diving needed in Turkey and in the world, recognition of diving systems in these areas and procedures for their possible use. Disabled diving in Turkey and in the world, recognition of the diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.
5	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Current diving in Turkey and in the world, recognizing the diving systems systems that should be used and diving opportunities in these areas, legal responsibilities and procedures.	Current diving in Turkey and in the world, recognizing the diving systems systems that should be used and recognizing the diving systems in these places and procedures for their use within the possibility. .
6	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Search and rescue diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities, legal responsibilities and procedures.	Search and rescue diving in Turkey and in the world, recognizing the diving systems systems that should be used and recognizing the diving systems in these places and procedures for their use within the possibility.
7	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Wreck diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.	Wreck diving in Turkey and in the world, recognizing the diving systems that should be used and recognizing the diving systems in these places and procedures for their use within the possibility.
8	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Ice diving in Turkey and in the world, ice diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities in these areas legal responsibilities and procedures.	Ice diving in Turkey and in the world, recognizing the diving systems systems that should be used and recognizing the diving systems in these places and the procedures for their use within the possibility.
9	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Deep diving in Turkey and in the world, deep diving in Turkey and in the world, recognition of the diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.	Deep diving in Turkey and in the world, deep diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.
10	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Altitude diving in Turkey and in the world, recognition of the diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.	Altitude diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.
11	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Limited visibility diving in Turkey and in the world, recognition of the diving systems systems that should be used and diving opportunities in these areas, legal responsibilities and procedures.	Limited visibility diving in Turkey and in the world, recognition of the diving systems systems that should be used and diving opportunities in these places, legal responsibilities and procedures.
12	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Night diving in Turkey and in the world, recognition of the diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.	Night diving in Turkey and in the world, recognizing the diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.
13	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Cave diving in Turkey and in the world, cave diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.	Türkiye'de ve dünyada mağara dalışı, kullanılması gereken dalış sistemleri sistemlerini tanıma ve buralardaki dalış imkanları yasal sorumluluklar ve prosedürleri.

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
14	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Disabled diving in Turkey and in the world, recognition of diving systems systems that should be used and diving opportunities, legal responsibilities and procedures in these areas.	Disabled diving in Turkey and in the world, recognition of the diving systems systems that should be used and diving opportunities in these places legal responsibilities and procedures.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	2,00
Final	1	2,00
Vize	1	2,00
Ders Öncesi Bireysel Çalışma	14	1,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	1,00
Teorik Ders Anlatım	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00
Bütünleme	0,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1		4	4						4		3			4					4			
L.O. 2		2	1						4		3			1					3			
L.O. 3		2	4						3		1			2					2			
L.O. 4		3	2						1		2			3					1			
L.O. 5		4	4						2		2			3					3			

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Will be able to classify dives for special purposes,

L.O. 2 : Will be able to apply diving techniques in waters contaminated with chemical, biological and nuclear materials,

L.O. 3 : Will be able to define techniques for searching, finding and extracting corpses, vehicles, weapons, explosives and other evidences within the scope of underwater criminology,

L.O. 4 : Know the effect of dangerous substances on living creatures and materials underwater and will be able to prevent them,

L.O. 5 : Will be able to dive using diving techniques for special purposes.

İndirilme Tarihi

22.10.2026 20:00:20

SUT2106 - Workshop Studies - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this workshop course is to teach mechanical manufacturing and workshop techniques, and to provide students with experimental design experience.

Course Contents

This course includes providing students with competences in building simple mechanisms, disassembling and assembling mechanical mechanisms, reading electrical circuit diagrams and technical drawings.

Recommended or Required Reading

US NAVY Diving Manuel 7.0

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

US NAVY Diving Manuel 7.0

Instructor's Assistants

Assoc. Prof. Uğur KARADURMUŞ

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş

Program Outcomes

1. Identifies basic risks in the workshop environment and applies safe working practices.
2. Can use basic workshop equipment and measuring instruments.
3. Creates, disassembles, and assembles simple mechanisms.
4. Recognizes and safely uses basic equipment used in cutting, grinding, and welding operations.
5. Analyzes a given technical problem, plans the steps involved, and determines safety precautions.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lesson presentation	Occupational Health and Safety in the Workshop	Demonstration, Examples
2	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Basic Workshop Equipment	Demonstration, Examples
3	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Basic Mechanical Operations	Demonstration, Examples
4	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Straightening, Filing, and Cutting	Demonstration, Examples
5	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Bending and Folding	Demonstration, Examples
6	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Drilling, Countersinking, and Tapping	Demonstration, Examples
7	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Riveted Joint	Demonstration, Examples
8	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Bending-Bulging and Necking-Swaging	Demonstration, Examples
9	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Measurement, Quality Control, and Branding	Demonstration, Examples
10	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Electrical and Electronic Circuit Diagrams	Demonstration, Examples
11	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Workshop Application - 1 (Land & Underwater)	Demonstration, Examples
12	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Workshop Application - 2 (Land & Underwater)	Demonstration, Examples
13	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Workshop Application - 3 (Land & Underwater)	Demonstration, Examples
14	Review of the previous week, Preparatory notes		Lesson presentation, Problem solving, Case study	Workshop Application - 4 (Land & Underwater)	Demonstration, Examples

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Vize	1	2,00
Final	1	2,00
Atölye	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1											4						3	5				
L.O. 2											4						4	5				
L.O. 3											5						5	5				
L.O. 4											5						5	5				
L.O. 5											5						5	5				

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Identifies basic risks in the workshop environment and applies safe working practices.

L.O. 2 : Can use basic workshop equipment and measuring instruments.

L.O. 3 : Creates, disassembles, and assembles simple mechanisms.

L.O. 4 : Recognizes and safely uses basic equipment used in cutting, grinding, and welding operations.

L.O. 5 : Analyzes a given technical problem, plans the steps involved, and determines safety precautions.

İndirilme Tarihi
22.10.2026 20:00:56

SUT2107 - Underwater Sports and Tourism - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Underwater sports and equipped diving (SCUBA); to ensure that they have information about.TSSF; To learn about and study fields. To perform these activities by knowing the equipment and equipment used in these sports and recreational activities and learning the rules of the activities. Understanding underwater tourism and marketing.

Course Contents

To have information about TSSF fields of work and activities. To learn sports branches affiliated with TSSF. To learn and actively use SCUBA equipment and hardware. Turkey and the world to learn SCUBA certification system. Understanding underwater tourism and marketing.

Recommended or Required Reading

TSSF Publications / Underwater Theory

Planned Learning Activities and Teaching Methods

Theoretical Training, Qestion Answer in My Classroom Environment

Recommended Optional Programme Components

Since underwater tourism and sports are a field that is constantly evolving, students need to update their knowledge on the subjects they are interested in.

Instructor's Assistants

We don't have an assistant teacher

Presentation Of Course

Face to face - Formal Education

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Alparslan Fatih Kulakaç

Program Outcomes

1. Having Knowledge About TSSF Fields of Activity
2. Knowing about TSSF SCUBA Certification and Worldwide Certifications
3. Learning and Using Equipment and Hardware Used in SCUBA
4. Using Used Equipment and Hardware By Learning Diving That Requires Expertise
5. Underwater tourism management, project management, and marketing

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Displays the course syllabus			Providing information on course content; getting to know the TSSF (Turkish Underwater Sports Federation) and learning about its areas of activity.	
2	Reading the relevant sources			Providing information about course content. Familiarization with underwater sports under the TSSF Federation.	
3	Review of preparatory notes			Recognition of scuba certifications	
4	Preparation before the subject			Recognizing the differences between domestic and international scuba certification systems	
5	Repeat of last week's			Understanding the benefits and job opportunities provided by scuba certifications	
6	Reading the relevant sources			Diving Equipment and Its Use	Assembling and disassembling scuba equipment
7	Repeat from last week			Recreational Diving and Types of Diving	
8	Preparation before the subject			Underwater Tourism and Diving Sites in Türkiye	
9	Review of preparatory notes			Underwater Tourism Management	
10	Repeat of last week's			Underwater tourism management	
11	Repeat of last week's			Underwater tourism management	
12	Review of preparatory notes			Underwater Tourism Marketing	
13	Preparation before the subject			Underwater Sports	They get to know and try out equipment for finswimming, underwater hockey, underwater rugby, and spearfishing.
14	Repeat of last week's			Underwater Sports	They get to know and try out equipment for finswimming, underwater hockey, underwater rugby, and spearfishing.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Soru-Yanıt	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Derse Katılım	14	3,00
Ders Öncesi Bireysel Çalışma	14	1,00
Vize	1	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Final	1	2,00
Teorik Ders Anlatım	0	0,00
Soru-Yanıt	0	0,00
Soru-Yanıt	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						
L.O. 2																						
L.O. 3																			3			
L.O. 4																			3			
L.O. 5																			5			

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Having Knowledge About TSSF Fields of Activity

L.O. 2 : Knowing about TSSF SCUBA Certification and Worldwide Certifications

L.O. 3 : Learning and Using Equipment and Hardware Used in SCUBA

L.O. 4 : Using Used Equipment and Hardware By Learning Diving That Requires Expertise

L.O. 5 : Underwater tourism management, project management, and marketing

İndirilme Tarihi
22.10.2026 20:01:43

SUT2108 - Ship Theory - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to enable students to learn basic concepts such as ship geometry, stability, buoyancy, unsinkability, balance and to develop their skills in using this information in underwater technology applications (working with sunken ships, structural evaluations of marine vehicles, dive planning, etc.).

Course Contents

Ship definition and basic concepts, ship geometry, displacement, draft and buoyancy, principles of buoyancy, types of stability, metacentric height, ship motions (trim, pitch, roll, yaw), loading condition analyses, free surface effect, weight transfer and its effects, stability calculations, ship behavior from a seafaring perspective. Also, evaluation of diving boats and auxiliary surface vehicles in the context of ship theory.

Recommended or Required Reading

Rawson, K.J. & Tupper, E.C. (2001). Basic Ship Theory Vol 1 & 2, Butterworth-Heinemann Muckle, W. (1998). Naval Architecture for Marine Engineers, Institute of Marine Engineers

Planned Learning Activities and Teaching Methods

Theorical

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

face to face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Deniz Güneş

Program Outcomes

1. Knows the form characteristics of ships and marine structures.
2. Knows and calculates the hydrostatic properties of ships and marine structures.
3. Knows and calculates the stability characteristics of ships and marine structures.
4. Performs calculations regarding the grounding and salvage of ships and marine structures.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lecture, presentation	Introduction to Ship Theory and Basic Definitions Form of ships and marine structures	
2	Replay of the previous week		Lecture, presentation	Ship Geometry Hydrostatic characteristics of ships and marine structures	Problem solving, topic discussion
3	Replay of the previous week		Lecture, presentation	Displacement, Draft, and Buoyancy Principles Ship hydrostatics and calculations	Problem solving, topic discussion
4	Replay of the previous week		Lecture, presentation	Archimedes' Principle and the Concept of Buoyancy	Problem solving, topic discussion
5	Replay of the previous week		Lecture, presentation	Stability Types and Metacentric Height (GM)	Problem solving, topic discussion
6	Replay of the previous week		Lecture, presentation	Ship Stability Conditions: Vertical-Vertical Stability	Problem solving, topic discussion
7	Replay of the previous week		Lecture, presentation	Free Surface Effect and Weight Transfer Midterm exam preparation	Problem solving, topic discussion
8				Midterm Exam	
9	Replay of the previous week		Lecture, presentation	Trim Calculations and Vertical Stability Stability characteristics of ships and marine structures	Problem solving, topic discussion
10	Replay of the previous week		Lecture, presentation	Ship Motions	Problem solving, topic discussion
11	Replay of the previous week		Lecture, presentation	Effects of Loading and Unloading on Stability	Problem solving, topic discussion
12	Replay of the previous week		Lecture, presentation	Ship Behavior Under Wave and Wind Effects	Problem solving, topic discussion
13	Replay of the previous week		Lecture, presentation	Safety Factors in Ship Stability Grounding and salvage calculations	Problem solving, topic discussion
14	Replay of the previous week		Lecture, presentation	Stability Analysis of Diving Platforms	Problem solving, topic discussion
15	Replay of the previous week		Lecture, presentation	General Review and Applied Problems	Problem solving, topic discussion

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Ders Öncesi Bireysel Çalışma	14	2,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	5,00
Vize	1	1,00
Final Sınavı Hazırlık	1	8,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																5						
L.O. 2																5						
L.O. 3																5						
L.O. 4																5						

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Knows the form characteristics of ships and marine structures.

L.O. 2 : Knows and calculates the hydrostatic properties of ships and marine structures.

L.O. 3 : Knows and calculates the stability characteristics of ships and marine structures.

L.O. 4 : Performs calculations regarding the grounding and salvage of ships and marine structures.

İndirilme Tarihi

22.10.2026 20:03:13

SUT2109 - Underwater Robotics and Sonar Systems - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of the Underwater Robotics and Sonar Systems course is to teach students about the robotic systems and sonar technologies used in underwater exploration, observation, and data collection, give them hands-on experience, and help them develop expertise in these areas.

Course Contents

It covers the principles and applications of the mechanical, electronic, and control systems of Underwater remotely operated vehicles (ROVs), as well as sonar and other acoustic imaging technologies.

Recommended or Required Reading

Academic publications and technical manuals

Planned Learning Activities and Teaching Methods

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray

Program Outcomes

1. Have basic knowledge about surface and underwater autonomous systems.
2. Have the basic knowledge about robotic systems.
3. Knows the application areas of intelligent and robotic systems in the underwater field.
4. Recognizes underwater autonomous and remote controlled vehicles, knows their usage areas.
5. Explain and classify the working principle of sonar systems (active/passive).

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lecture, Question/Answer	Introduction to Robotic Systems and Basic Concepts	
2	Repeat of last week's		Lecture, Question/Answer	Overview of ROV Systems	
3	Repeat of last week's		Lecture, Question/Answer	ROV Equipment and Electrical Systems	
4	Repeat of last week's		Lecture, Question/Answer	Mechanical Systems and Vehicle Equipment	
5	Repeat of last week's		Lecture, Question/Answer	Introduction to Sonar Technologies	
6	Repeat of last week's		Lecture, Question/Answer	Imaging and Data Collection	
7	Repeat of last week's		Lecture, Question/Answer	Navigation and Positioning Systems	
8	Repeat of last week's		Lecture, Question/Answer	Navigation and Positioning Systems	
9	Repeat of last week's		Lecture, Question/Answer	Emergency Procedures	
10	Repeat of last week's		Lecture, Question/Answer	Remote Controlled Underwater Vehicle Operator Application	
11	Repeat of last week's		Lecture, Question/Answer	Remote Controlled Underwater Vehicle Operator Application	
12	Repeat of last week's		Lecture, Question/Answer	Remote Controlled Underwater Vehicle Operator Application	
13	Repeat of last week's		Lecture, Question/Answer	Remote Controlled Underwater Vehicle Operator Application	
14	Repeat of last week's		Lecture, Question/Answer	Remote Controlled Underwater Vehicle Operator Application	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Teorik Ders Anlatım	14	1,00
Final Sınavı Hazırlık	1	2,00
Ara Sınav Hazırlık	1	2,00
Uygulama / Pratik	14	2,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						
L.O. 2																						
L.O. 3												1							5		5	
L.O. 4												1									5	
L.O. 5												5				2					5	

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Have basic knowledge about surface and underwater autonomous systems.

L.O. 2 : Have the basic knowledge about robotic systems.

L.O. 3 : Knows the application areas of intelligent and robotic systems in the underwater field.

L.O. 4 : Recognizes underwater autonomous and remote controlled vehicles, knows their usage areas.

L.O. 5 : Explain and classify the working principle of sonar systems (active/passive).

İndirilme Tarihi
22.10.2026 20:03:39

SUT2110 - Hydraulic and Pneumatic Systems - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Providing fundamental knowledge of hydraulics and pneumatics; teaching the operation and maintenance of hydraulic systems, as well as troubleshooting and repair methods for hydraulic systems.

Course Contents

Basic hydraulic principles and symbols, hydraulic systems, hydraulic pumps, valves and fittings used in hydraulic systems, hydraulic motors, hydraulic cylinders (actuators), operation and maintenance of hydraulic systems, faults in hydraulic systems and troubleshooting methods, hydraulic assembly with pressure reducing valve; basic pneumatic principles and symbols, control principles, controllers, control diagrams, air supply, cylinders and valves, piston speed control, sequence control, operation and maintenance of pneumatic systems, pneumatic circuits incorporating logic and air-piloted valves, faults in pneumatic systems and troubleshooting methods, monitoring systems, power supply for electrical controls, relays, push-buttons, and insulated cables.

Recommended or Required Reading

Kemal DEMİREL, Hidrolik-Pnomatik, Birsen Yayınevi, İstanbul, 2008

Planned Learning Activities and Teaching Methods

facetoface-formal eduction

Recommended Optional Programme Components

Kemal DEMİREL, Hidrolik-Pnomatik, Birsen Yayınevi, İstanbul, 2008

Instructor's Assistants

Assoc.Prof.Dr. Bilal AYDOĞAN

Presentation Of Course

facetoface-formal education

Dersi Veren Öğretim Elemanları

Prof. Dr. Bilal Aydoğan

Program Outcomes

1.
2.
3.
4.
5.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1			Oral presantation, question-answer	Course syballaus- Basic hydraulic principles and symbols	Basic hydraulic principles and symbols
2	Repeat of last week's		Oral presantation, question-answer	Hydraulic Systems, Hydraulic pumps	Hydraulic Systems, Hydraulic pumps
3	Repeat of last week's		Oral presantation, question-answer	Valves and fittings used in hydraulic systems	Valves and fittings used in hydraulic systems
4	Repeat of last week's		Oral presantation, question-answer	Hydraulic motors	Hydraulic motors
5	Repeat of last week's		Oral presantation, question-answer	Hydraulic cylinders (actuators)	Hydraulic cylinders (actuators)
6	Repeat of last week's		Oral presantation, question-answer	Operation and maintenance of hydraulic systems	Operation and maintenance of hydraulic systems
7	Repeat of last week's		Oral presantation, question-answer	Faults in hydraulic systems and methods for their rectification	Faults in hydraulic systems and methods for their rectification
8				Mid-exam	
9	Repeat of last week's		Oral presantation, question-answer	Basic pneumatic principles, symbols, and control principles.	Basic pneumatic principles, symbols, and control principles.
10	Repeat of last week's		Oral presantation, question-answer	Air supply, cylinders, and valves	Air supply, cylinders, and valves
11	Repeat of last week's		Oral presantation, question-answer	Piston speed control, Sequential control	Piston speed control, Sequential control
12	Repeat of last week's		Oral presantation, question-answer	Operation and maintenance of pneumatic systems	Operation and maintenance of pneumatic systems Operation and maintenance of pneumatic systems
13	Repeat of last week's		Oral presantation, question-answer	Faults in pneumatic systems and troubleshooting methods	Faults in pneumatic systems and troubleshooting methods
14	Repeat of last week's		Oral presantation, question-answer	Hydraulic applications on ships	Hydraulic applications on ships
15	Repeat of last week's		Oral presantation, question-answer	Pneumatic applications on ships	Pneumatic applications on ships

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	2,00
Derse Katılım	14	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	14,00
Vize	1	1,00
Final Sınavı Hazırlık	1	14,00
Final	1	1,00
Ev Ödevi	7	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																		4				
L.O. 2																		5				
L.O. 3																		5				
L.O. 4																		4				
L.O. 5																		4				

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 :

L.O. 2 :

L.O. 3 :

L.O. 4 :

L.O. 5 :

İndirilme Tarihi
22.10.2026 20:04:37

SUT2111 - Shipyard Management and Organisation - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Shipyards on the information, materials, and allows workflows to perform accurate and in accordance with the facility.

Course Contents

Shipyards placement, capacity planning, and methods of work. Shipyards personnel planning. Planning techniques. General information about the Shipyards. Shipyards sections. Issues to be considered in the selection of the shipyard. Shipyards order. Shipbuilding, construction stages. Shipyards manufacturing flow.

Recommended or Required Reading

Tekin N. Prof.Dr., Shipyard Organization, Lecture Notes

Planned Learning Activities and Teaching Methods

Theory and practice

Recommended Optional Programme Components

Continue the lesson

Instructor's Assistants

Assist. Prof. Onur Saylan

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. General information about the shipyards
2. Shipyards placement, capacity and work planning to learn
3. Shipyards sections to learn about
4. Shipbuilding to learn the steps of shipyards
5. Knows production management and its stages.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Subject explanation and in-class practice	Shipyard plans to relocate	In-class practice
2	Pre-reading		Subject explanation and in-class practice	Shipyards capacity planning	In-class practice
3	Pre-reading		Subject explanation and in-class practice	Business planning and methods	In-class practice
4	Pre-reading		Subject explanation and in-class practice	Shipyards personnel planning	In-class practice
5	Pre-reading		Subject explanation and in-class practice	Modern planning techniques	In-class practice
6	Pre-reading		Subject explanation and in-class practice	Modern manufacturing methods and business analysis	In-class practice
7	Pre-reading		Subject explanation and in-class practice	General information about Shipyards	In-class practice
8	Pre-reading		Subject explanation and in-class practice	Sections in shipyards	In-class practice
9	Pre-reading		Subject explanation and in-class practice	Be taken into consideration in the selection matters shipyard	In-class practice
10	Pre-reading		Subject explanation and in-class practice	For the receipt of the order be made in the shipyard jobs	In-class practice
11	Pre-reading		Subject explanation and in-class practice	Ship construction and construction stages	In-class practice
12	Pre-reading		Subject explanation and in-class practice	Optical methods in shipyards, the optical-controlled cutting machines	In-class practice
13	Pre-reading		Subject explanation and in-class practice	Numerical-controlled cutting machines in shipyards	In-class practice
14	Pre-reading		Subject explanation and in-class practice	Shipyards manufacturing flow	In-class practice

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ara Sınav Hazırlık	1	5,00
Ders Sonrası Bireysel Çalışma	14	2,00
Derse Katılım	14	2,00
Final Sınavı Hazırlık	1	10,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																			5			
L.O. 2																			5			
L.O. 3																			5			
L.O. 4																			5			
L.O. 5																			5			

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : General information about the shipyards

L.O. 2 : Shipyards placement, capacity and work planning to learn

L.O. 3 : Shipyards sections to learn about

L.O. 4 : Shipbuilding to learn the steps of shipyards

L.O. 5 : Knows production management and its stages.

İndirilme Tarihi
22.10.2026 20:05:55

SUT2112 - Leadership in Maritime Enterprises - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to provide students with fundamental knowledge of leadership concepts, theories, and approaches and to develop their ability to evaluate team management, effective communication, decision-making, motivation, conflict resolution, and crisis management in maritime organizations. The course examines the importance of leadership in ship and port operations, workforce management, safety culture, ethical leadership, and change management through examples from the maritime industry.

Course Contents

Leadership concepts and theories; differences between leadership and management; leadership approaches and styles; characteristics of leadership in maritime organizations; communication and team management; motivation and employee engagement; decision-making and problem-solving; conflict management; leadership during crises and emergencies; safety culture and ethical leadership; cross-cultural management; change management; and leadership practices in maritime organizations.

Recommended or Required Reading

Northouse, P. G. (2021). Leadership: Theory and Practice. SAGE Publications. Yukl, G. A., & Gardner, W. L. Leadership in Organizations. Pearson. International Maritime Organization (IMO), International Safety Management (ISM) Code. International Maritime Organization (IMO), International Convention for the Safety of Life at Sea (SOLAS), relevant chapters.

Planned Learning Activities and Teaching Methods

Lecture, question and answer, discussion, case study, case analysis, problem-solving, brainstorming, group work, role-playing, scenario-based learning, and student presentations.

Recommended Optional Programme Components

It is recommended that leadership theories be associated with practical applications in the maritime industry and that team management, effective communication, decision-making, conflict resolution, and crisis management in ship and port operations be addressed through case studies. The course aims to enhance students' awareness of teamwork, ethical leadership, intercultural communication, and safety culture, while developing their analytical thinking and problem-solving skills in relation to managerial challenges encountered in maritime organizations.

Instructor's Assistants

Presentation Of Course

Face-to-face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. Explain the fundamental concepts and approaches related to leadership, management, and leadership theories.
2. Evaluate different leadership styles used in maritime organizations and their effects on organizational processes.
3. Apply the principles of effective communication, team management, and employee motivation in maritime organizations.
4. Analyze problems, conflicts, and crisis situations encountered in maritime operations and develop appropriate solutions.
5. Evaluate decision-making, safety culture, and ethical leadership principles in maritime organizations.
6. Evaluate leadership approaches related to change, cross-cultural interaction, and team coordination in maritime organizations.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Lecture, Q&A, discussion	Leadership concepts and differences between leadership and management	Examination of leadership roles in maritime organizations
2	Pre-reading		Lecture, Q&A, discussion	Leadership theories and approaches	Comparison of leadership theories using maritime examples
3	Pre-reading		Lecture, case analysis, discussion	Leadership styles: autocratic, democratic, laissez-faire, transformational, and transactional leadership	Evaluation of leadership styles in different operational situations
4	Pre-reading		Lecture, case study, group work	Characteristics and responsibilities of leadership in maritime organizations	Examination of leadership responsibilities in ship and port operations
5	Pre-reading		Lecture, role-playing, case study	Communication and information sharing in leadership	Evaluation of operational communication and instruction transfer
6	Pre-reading		Group work, case analysis, discussion	Team management, teamwork, and coordination	Evaluation of team coordination in port operations
7	Pre-reading		Lecture, problem solving brainstorming	Motivation, employee engagement, and the influence of leaders on employees	Development of solutions to improve employee motivation
8	Pre-reading			Leadership in decision-making and problem-solving	Evaluation of alternative decisions for operational problems
9	Pre-reading		Role-playing, discussion, case analysis	Conflict management and negotiation	Evaluation of solutions to team conflicts
10	Pre-reading		Scenario-based learning, problem-solving	Crisis management and leadership during emergencies	Evaluation of a crisis scenario in a maritime organization
11	Pre-reading		Lecture, document analysis, case analysis	Safety culture and safety-oriented leadership	Examination of the relationship between operational safety and leadership behaviors
12	Pre-reading		Ethical case analysis, discussion, problem-solving	Ethical leadership, responsibility, and accountability	Evaluation of ethical dilemmas in the maritime industry
13	Pre-reading		Case study, group work, discussion	Cross-cultural leadership and management of diverse workforces	Evaluation of communication issues in multicultural teams
14	Pre-reading		Case analysis, problem-solving, group work, presentation	Change management and leadership practices in maritime organizations	Integrated analysis of a leadership case in a maritime organization

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Derse Katılım	14	2,00
Ara Sınav Hazırlık	1	5,00
Final Sınavı Hazırlık	1	10,00
Ders Sonrası Bireysel Çalışma	14	1,00

Assesments

Activities	Weight (%)
Final	60,00
Vize	40,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																			5			3
L.O. 2																			5			3
L.O. 3																			5			3
L.O. 4																			5			3
L.O. 5																			5			3
L.O. 6																			5			3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explain the fundamental concepts and approaches related to leadership, management, and leadership theories.

L.O. 2 : Evaluate different leadership styles used in maritime organizations and their effects on organizational processes.

L.O. 3 : Apply the principles of effective communication, team management, and employee motivation in maritime organizations.

L.O. 4 : Analyze problems, conflicts, and crisis situations encountered in maritime operations and develop appropriate solutions.

L.O. 5 : Evaluate decision-making, safety culture, and ethical leadership principles in maritime organizations.

L.O. 6 : Evaluate leadership approaches related to change, cross-cultural interaction, and team coordination in maritime organizations.

İndirilme Tarihi

22.10.2026 20:06:29

SUT2113 - Green Deal and Sustainability in Maritime Industry - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü General Info

Objectives of the Course

To provide students with basic knowledge of green transformation, sustainability and environmentally friendly maritime practices.

Course Contents

Sustainability, the European Green Deal, climate change, emission reduction in maritime activities, alternative fuels, green ports, environmental management and circular economy.

Recommended or Required Reading

International Maritime Organization (IMO), 2023 IMO Strategy on Reduction of GHG Emissions from Ships. International Maritime Organization (IMO), MARPOL – International Convention for the Prevention of Pollution from Ships. European Commission, The European Green Deal

Planned Learning Activities and Teaching Methods

Theoretical

Recommended Optional Programme Components

It is recommended to follow current national and international maritime environmental regulations.

Instructor's Assistants

Assoc. Prof. Dr. Uğur KARADURMUŞ

Presentation Of Course

Face-to-face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş

Program Outcomes

1. Explains the concepts of sustainability and green transformation.
2. Evaluates the environmental impacts of maritime activities.
3. Explains emission reduction and energy efficiency practices in maritime activities.
4. Compares alternative fuels and green maritime practices.
5. Develops basic solutions for sustainable maritime practices.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lesson presentation	Sustainability and basic concepts	Discussion
2	Review of the previous lesson		Lecture	Sustainable Development Goals	Discussion
3	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Climate change and maritime activities	Demonstration and practice, Case study, Discussion
4	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	European Green Deal	Demonstration and practice, Case study, Discussion
5	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	IMO environmental policies and MARPOL	Demonstration and practice, Case study, Discussion
6	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Energy efficiency in maritime activities	Demonstration and practice, Case study, Discussion
7	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Emission reduction in maritime activities	Demonstration and practice, Case study, Discussion
8	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Alternative marine fuels	Demonstration and practice, Case study, Discussion
9	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Green ship technologies	Demonstration and practice, Case study, Discussion
10	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Green port practices	Demonstration and practice, Case study, Discussion
11	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Sustainable shipyards and shipbuilding	Demonstration and practice, Case study, Discussion
12	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Circular economy and waste management	Demonstration and practice, Case study, Discussion
13	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Marine environment and biodiversity	Demonstration and practice, Case study, Discussion
14	Review of the previous week, Preparatory notes		Lecture, Problem solving, Case study	Sustainable maritime practices	Demonstration and practice, Case study, Discussion

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Vize	1	2,00
Final	1	2,00
Araştırma Sunumu	14	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1	5																					3
L.O. 2	5																					3
L.O. 3	4																					3
L.O. 4	5																					3
L.O. 5	5																					3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains the concepts of sustainability and green transformation.

L.O. 2 : Evaluates the environmental impacts of maritime activities.

L.O. 3 : Explains emission reduction and energy efficiency practices in maritime activities.

L.O. 4 : Compares alternative fuels and green maritime practices.

L.O. 5 : Develops basic solutions for sustainable maritime practices.

İndirilme Tarihi

22.10.2026 20:07:04

SUT2190 - Career Planning - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The purpose of the Career Planning course is to guide students so that they can determine their careers in accordance with their own intelligence, personality, knowledge, skills, abilities and competencies.

Course Contents

The Career Planning course will be conducted within the framework of a framework developed by the Presidential Human Resources Office, with weekly videos and activities prepared by university faculty, industry professionals, non-governmental organizations, and guest lecturers invited from international organizations. Supporting activities included in the course are designed to familiarize students with the methods and tools used in professional applications and to equip them with the skills to use them most effectively, supported by practical activities. In addition to the course, book and film recommendations to support students' career development are provided. To view the course videos, each student must register by selecting the student tab on ytnk.tv.

Recommended or Required Reading

T.C. Cumhurbaşkanlığı İnsan Kaynakları Ofisi Başkanlığı (https://www.cbiko.gov.tr/projeler/kariyer-planlama-dersi) Kariyer Planlama ve Geliştirme El Kitabi (2011). Turgut Özal Üniversitesi Kariyer Planlama Uygulama ve Araştırma Merkezi Kariyer Planlama (2021). TOGÜ KARMER Kariyer Yönetimi, İstanbul Üniversitesi Açık ve Uzaktan Eğitim Fakültesi Bandırma Onyedi Eylül Üniversitesi Kariyer Geliştirme Uygulama ve Araştırma Merkezi (https://kagem.bandirma.edu.tr/)

Planned Learning Activities and Teaching Methods

Theoretical and Practical Training techniques will be used.

Recommended Optional Programme Components

Attending classes. Participating in practices.

Instructor's Assistants

Dr. Öğr. Üyesi Onur Saylan

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Alparslan Fatih Kulakaç Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. Learn the Concepts of Career and Career Planning
2. Students who successfully complete the course will have made concrete and realistic preparation for their professional careers, which will begin after they graduate from school at the end of the semester.
3. They complete the course with a viable career plan and a broad market knowledge of their profession.
4. Communication skills improve
5. Learns sectoral knowledge and skill requirements

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Subject explanation and application	General introduction of the course: Semester Plan, the purpose, structure and execution of the course, introduction of the publications to be read, evaluation principles, introduction to the basic concepts of the course	In-class practice on the subject
2	Pre-reading		Subject explanation and application	Concepts of Knowledge, Skills and Personality	In-class practice on the subject
3	Pre-reading		Subject explanation and application	Concepts of Intelligence, Ability and Affective Characteristics (Interest and Attitude)	In-class practice on the subject
4	Pre-reading		Subject explanation and application	Goal and Competency Concepts	In-class practice on the subject

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
5	Pre-reading		Subject explanation and application	Career, Career Development and Career Management	In-class practice on the subject
6	Pre-reading		Subject explanation and application	Career Planning	In-class practice on the subject
7	Pre-reading		Subject explanation and application	Career Support	In-class practice on the subject
8	Pre-reading		Subject explanation and application	Communication	In-class practice on the subject
9	Pre-reading		Subject explanation and application	Communication	In-class practice on the subject
10	Pre-reading		Subject explanation and application	Soft Skills	In-class practice on the subject
11	Pre-reading		Subject explanation and application	Curriculum Vitae Preparation and Interviews	In-class practice on the subject
12	Pre-reading		Subject explanation and application	Curriculum Vitae Preparation and Interviews	In-class practice on the subject
13	Pre-reading		Subject explanation and application	Seminar	In-class practice on the subject
14	Pre-reading		Subject explanation and application	Seminar	In-class practice on the subject

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	10,00
Uygulama / Pratik	2	6,00

Assesments

Activities	Weight (%)
Vize	40,00
Kısa Sınav	0,00
Ödev	0,00
Uygulama / Pratik	0,00
Araştırma Sunumu	0,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																			5			3
L.O. 2																			5			3
L.O. 3																			5			3
L.O. 4																			5			3
L.O. 5																			5			3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Learn the Concepts of Career and Career Planning

L.O. 2 : Students who successfully complete the course will have made concrete and realistic preparation for their professional careers, which will begin after they graduate from school at the end of the semester.

L.O. 3 : They complete the course with a viable career plan and a broad market knowledge of their profession.

L.O. 4 : Communication skills improve

L.O. 5 : Learns sectoral knowledge and skill requirements

İndirilme Tarihi

22.10.2026 20:07:36

SUT2201 - Commercial Diving II - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The objective is to ensure that participants can recognize and perform advanced underwater cutting and welding operations, fully implement all necessary occupational safety, emergency, and rescue procedures required for these operations and high-risk, confined space operations, and acquire the ability to plan troubleshooting, maintenance, and repair tasks and coordinate technical tasks within the team.

Course Contents

It covers the occupational safety measures required for advanced industrial diving operations such as underwater cutting and welding, emergency and rescue procedures, the management of high-risk environment and confined space operations, the coordination of technical tasks within the team, and the planning of fault detection, maintenance, and repair operations.

Recommended or Required Reading

US Navy Diving and Salvage Manuel

Planned Learning Activities and Teaching Methods

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Ahmet Demiray

Program Outcomes

1. Performs underwater cutting operations and knows and applies the necessary safety precautions.
2. Performs underwater welding work, knows the necessary safety precautions, and applies them.
3. Coordinates and manages surface-supplied dives within a team.
4. Knows the Emergency and Rescue Procedures.
5. Manages High-Risk Environments and Closed Area Operations

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lecture, Question/Answer	Commercial Diving Work Areas	
2	Repeat of last week's		Lecture, Question/Answer	Underwater Keel Inspection and Hull Repair Methods	
3	Repeat of last week's		Lecture, Question/Answer	Emergency Procedures	
4	Repeat of last week's		Lecture, Question/Answer	Underwater arc welding and oxy-arc cutting techniques and safety precautions	
5	Repeat of last week's		Lecture, Question/Answer	Underwater arc welding theory	
6	Repeat of last week's		Lecture, Question/Answer	Underwater electrode insulation, Types of cutting electrodes	
7	Repeat of last week's		Lecture, Question/Answer	Sualtı Kaynak ve Kesme Ekipman Tanıtımı Hazırlığı ve Güvenlik Önlemleri	
8	Repeat of last week's		Lecture, Question/Answer		Underwater arc welding application
9	Repeat of last week's		Lecture, Question/Answer		Underwater arc welding application
10	Repeat of last week's		Lecture, Question/Answer		Underwater arc welding application
11	Repeat of last week's		Lecture, Question/Answer		Underwater arc welding application Underwater Oxy-arc metal cutting application
12	Repeat of last week's		Lecture, Question/Answer		Underwater Oxy-arc metal cutting application
13	Repeat of last week's		Lecture, Question/Answer		Underwater Oxy-arc metal cutting application
14	Repeat of last week's		Lecture, Question/Answer		Underwater Oxy-arc metal cutting application

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	7,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00
Uygulama / Pratik	14	4,00

Assesments

Activities	Weight (%)
Vize	20,00
Uygulama / Pratik	20,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1													5	5			5					
L.O. 2														5			5					
L.O. 3										5				5			5					
L.O. 4										5			5	5			5					
L.O. 5										5				5			5					

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Performs underwater cutting operations and knows and applies the necessary safety precautions.

L.O. 2 : Performs underwater welding work, knows the necessary safety precautions, and applies them.

L.O. 3 : Coordinates and manages surface-supplied dives within a team.

L.O. 4 : Knows the Emergency and Rescue Procedures.

L.O. 5 : Manages High-Risk Environments and Closed Area Operations

İndirilme Tarihi
22.10.2026 20:08:08

SUT2202 - Mixed Gas Surface Supplied Diving - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Mixed Gas Diving course is an advanced training course that aims to teach the safe and effective use of different gas mixtures other than air in diving activities. The main aim of the course is to provide the students with theoretical and practical knowledge about the properties, advantages, risks and application methods of gas mixtures (Helium-Oxygen) used in deep and decompression diving.

Course Contents

The development process of mixed gas diving, Differences, advantages, and disadvantages of air and mixed gas diving, Basic gas laws, Introduction to gases and their physiological effects, Mixed gas diving systems and auxiliary systems, Pressurized cylinders, Gas mixing procedures, Mixed gas diving planning, HeO2 diving and decompression methods, Surface decompression, Gas consumption calculations in mixed gas diving, Emergency rules for HeO2 mixed gas diving.

Recommended or Required Reading

Planned Learning Activities and Teaching Methods

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Ahmet Demiray Assoc. Prof. Dr. Melahat Yıldırım Saçılık Inst. Salih Kiraz Doç. Refik Yalur

Program Outcomes

1. Will be able to comprehend the effects of changes in the rate of diving gas on human physiology.
2. Will be able to explain mixed gas methods with appropriate gas laws.
3. Will be able to define the decompression procedure rules in dives using Helox mixture.
4. Will be able to prepare the right Helox mixture according to the planned depth.
5. Will be able to explain the purpose of surface-supplied helium-oxygen diving.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lecture, Question/Answer	Differences, Advantages, and Disadvantages of Air and Mixed Gas Diving The Development Process of Mixed Gas Diving	
2	Repeat of last week's		Lecture, Question/Answer	Fundamental Gas Laws, Introduction to Gases, and Physiological Effects	
3	Repeat of last week's		Lecture, Question/Answer	Mixed Gas Diving Systems and auxiliary systems.	
4	Repeat of last week's		Lecture, Question/Answer	Pressurized Cylinders	
5	Repeat of last week's		Lecture, Question/Answer	Gas Mixing Procedures HeO2 DIVING AND DECOMPRESSION METHODS	
6	Repeat of last week's		Lecture, Question/Answer	HeO2 DIVING AND DECOMPRESSION METHODS	
7	Repeat of last week's		Lecture, Question/Answer	Emergency Rules for HeO2 Mixed Gas Diving	
8	Repeat of last week's		Lecture, Question/Answer	MIX GAS CONSUMPTION CALCULATIONS IN MIXED GAS DIVING	
9	Repeat of last week's		Application		Mixed Gas Dives
10	Repeat of last week's		Application		Mixed Gas Dives
11	Repeat of last week's		Application		Mixed Gas Dives
12	Repeat of last week's		Application		Mixed Gas Dives
13	Repeat of last week's		Application		Mixed Gas Dives
14	Repeat of last week's		Application		Mixed Gas Dives

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	7,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00
Uygulama / Pratik	14	3,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1													5	5								
L.O. 2													5	5								
L.O. 3										5			5	5								
L.O. 4													5	5			5					
L.O. 5										5			5	5								

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Will be able to comprehend the effects of changes in the rate of diving gas on human physiology.

L.O. 2 : Will be able to explain mixed gas methods with appropriate gas laws.

L.O. 3 : Will be able to define the decompression procedure rules in dives using Helox mixture.

L.O. 4 : Will be able to prepare the right Helox mixture according to the planned depth.

L.O. 5 : Will be able to explain the purpose of surface-supplied helium-oxygen diving.

İndirilme Tarihi

22.10.2026 20:08:47

SUT2203 - Project Practices in Underwater Technologies - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to teach the project preparation process in the field of underwater works and to gain relevant skills.

Course Contents

The content of this course provides a basic introduction to preparing projects in the underwater field. It covers subjects such as the need for the project, the characteristics of the projects, the principles of project preparation, the project preparation process, project management, project planning and planning stages, scope, budget and time planning, examination of sample projects and completion of projects in accordance with the task underwater.

Recommended or Required Reading

Cayford, J.E. (1967). Underwater Work: A Manual of Scuba Commercial Salvage & Construction Operations. USA: Cornell Maritime Press Library, 258 pp. US NAVY Diving Manuel 7.0

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Cayford, J.E. (1967). Underwater Work: A Manual of Scuba Commercial Salvage & Construction Operations. USA: Cornell Maritime Press Library, 258 pp. US NAVY Diving Manuel 7.0

Instructor's Assistants

Doç. Dr. Uğur KARADURMUŞ

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Assoc. Prof. Dr. Sertaç Ercan Dr. Öğr. Üyesi Aylin Akınlar

Program Outcomes

1. The student creates a project idea.
2. The student develops a project plan.
3. Student makes time, cost and resource planning.
4. Student develops project report.
5. The student does work in accordance with the current project.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lesson explanation	Projects and Types	
2	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Project Management and Components	
3	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Feasibility Analyses	
4	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Project Planning: Time – Cost – Resources	
5	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Concept of Risk and Risk Assessment	
6	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Project Preparation Principles	
7	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Project Preparation and Development Process	
8	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Project Completion and File Preparation	
9	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Project Monitoring and Information Systems	
10	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Sample Underwater Projects	
11	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Student Project Presentations – 1	
12	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Student Project Presentations – 2	
13	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Student Project Presentations – 3	
14	Review of the previous week, lesson preparation notes		Lesson explanation, Discussion, Questions and Answers	Student Project Presentations – 4	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Derse Katılım	14	3,00
Vize	1	2,00
Final	1	2,00
Proje	14	3,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																	4		5			

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 2																	5		5			
L.O. 3																	3		5			
L.O. 4																	5		5			
L.O. 5																	5		5			

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : The student creates a project idea.

L.O. 2 : The student develops a project plan.

L.O. 3 : Student makes time, cost and resource planning.

L.O. 4 : Student develops project report.

L.O. 5 : The student does work in accordance with the current project.

İndirilme Tarihi

22.10.2026 20:09:24

SUT2204 - Underwater Screening Techniques - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of the course is to introduce the basic features of imaging techniques, which are an important part of underwater work, to prepare, use and maintain underwater photography and video systems, to explain the imaging techniques with remote control devices in theory, to process the recorded images in a computer environment.

Course Contents

Basic features of video and cameras, housing systems suitable for video and cameras, installation, use and maintenance of housing systems, processing of video images and photos using appropriate software, reporting underwater images taken.

Recommended or Required Reading

TSSF Publications, NOAA Diving Manual, Taking Pictures Underwater

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area.

Recommended Optional Programme Components

With the developing technology, the world of Underwater Imaging is a field that is suitable for continuous technical development, so students need to update their knowledge about the subjects they are interested in.

Instructor's Assistants

Assist. Prof. Dr. Ferhat YALGIN

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın Dr. Öğr. Üyesi Ramazan Ülkü Çetin

Program Outcomes

1. Ability to prepare and use underwater imaging equipment
2. To be able to design an imaging system suitable for underwater work
3. To be able to montage and report the image obtained
4. To be able to follow the innovations in underwater imaging technology
5. Use of imaging equipment in terrestrial and underwater environments.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, discussion, question and answer, and practice.	Photography and history	camera introduction (instematic)
2	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	Types of cameras	Use of the camera (DSLR)
3	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	Types of cameras	Use of the camera (DSLR)
4	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	Types of cameras	Use of the camera (DSLR)
5	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	Types of cameras	Use of the camera (DSLR)

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
6	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	Use of cameras and auxiliary equipment, types of light, use of shutter and aperture.	Frog stroke straight and reverse, 360-degree rotation around a fixed point, 45-degree shooting, underwater imaging equipment preparation
7	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	Use of cameras and auxiliary equipment, types of light, use of shutter and aperture.	Frog stroke straight and reverse, 360-degree rotation around a fixed point, 45-degree shooting, underwater imaging equipment preparation
8	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	Use of cameras and auxiliary equipment, types of light, use of shutter and aperture.	Frog stroke straight and reverse, 360-degree rotation around a fixed point, 45-degree shooting, underwater imaging equipment preparation
9	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	underwater container equipment used underwater, its use and maintenance.	Preparation and use of equipment for underwater imaging, and underwater fin stroke techniques.
10	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	underwater container equipment used underwater, its use and maintenance.	Preparation and use of equipment for underwater imaging, and underwater fin stroke techniques.
11	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	underwater container equipment used underwater, its use and maintenance.	Preparation and use of equipment for underwater imaging, and underwater fin stroke techniques.
12	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	underwater container equipment used underwater, its use and maintenance.	Frog stroke straight and reverse, 360-degree rotation around a fixed point, 45-degree shooting, underwater imaging equipment preparation
13	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	underwater container equipment used underwater, its use and maintenance.	Frog stroke straight and reverse, 360-degree rotation around a fixed point, 45-degree shooting, underwater imaging equipment preparation

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
14	Review of the previous week, Class preparation notes		Lecture, discussion, question and answer, and practice.	To be able to process and record the images obtained and present them.	397 The practical examination consists of "Frog stroke straight and reverse, 360-degree rotation around a fixed point, 45-degree shooting, and underwater imaging equipment preparation and use." (The practical examination, "Frog stroke straight and reverse, 360-degree rotation around a fixed point, 45-degree shooting, and underwater imaging equipment preparation and use," is evaluated as a whole and ultimately assessed as overall pass or failure.)

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Uygulama / Pratik	14	2,00
Ders Sonrası Bireysel Çalışma	14	3,00
Final Sınavı Hazırlık	1	1,00
Ara Sınav Hazırlık	1	1,00
Vize	1	2,00
Final	1	2,00
Diğer	14	1,00

Assesments

Activities	Weight (%)
Final	60,00
Uygulama / Pratik	20,00
Vize	20,00
Bütünleme	0,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																	4		4		5	
L.O. 2																	2		3		4	
L.O. 3																	4		1		2	
L.O. 4																	3		4		4	
L.O. 5																	4		4		5	

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Ability to prepare and use underwater imaging equipment

L.O. 2 : To be able to design an imaging system suitable for underwater work

L.O. 3 : To be able to montage and report the image obtained

L.O. 4 : To be able to follow the innovations in underwater imaging technology

L.O. 5 : Use of imaging equipment in terrestrial and underwater environments.

İndirilme Tarihi

30.10.2026 10:43:10

STJ2201 - İnternship - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To enable students to gain professional experience by applying the theoretical and practical knowledge they have learned in real work environment.

Course Contents

Transformation of Theoretical Knowledge into Practice, Gaining Professional Experience, Learning Work Discipline, Contribution to Career Planning, Communication and Social Skills Development, Professional Networking, Opportunity for Self-Assessment, Improvement of Adaptability to Work.

Recommended or Required Reading

Internship Notebook

Planned Learning Activities and Teaching Methods

30 working days of field work

Recommended Optional Programme Components

It is recommended that the internship be conducted in a manner that enables students to apply their theoretical knowledge and professional skills in a real-world work environment. During the internship, compliance with occupational health and safety standards, professional ethics, workplace rules, and professional discipline is required; furthermore, student attendance and the work performed must be monitored and reported upon completion of the internship.

Instructor's Assistants

Presentation Of Course

Internship

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray Inst. Alparslan Fatih Kulakaç

Program Outcomes

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Workplace practice		Workplace overview, work environment, organizational structure, duties and responsibilities, occupational health and safety.
2	Relevant sources are called to attention.		Workplace practice		Familiarization with professional tools, implements, equipment, and work methods; observation of basic professional practices.
3	A reminder is given regarding preparation for the topic.		Workplace practice		Participation in professional practices related to the field; application of theoretical knowledge and teamwork.
4	You are reminded to read the relevant sources.		Workplace practice		Execution of professional duties under the supervision of responsible personnel; work organization and problem-solving practices.
5	A reminder is given to review the preparatory notes.		workplace practice		Development of professional practices; evaluation of professional communication, work discipline, and work processes.
6	Reading the relevant sources		Workplace Application		Completion of internship activities: evaluation of professional gains, preparation of the internship report, and finalization of the internship process.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Problem Çözme	10	1,00
Rapor	4	1,00
Uygulama / Pratik	30	4,00

Assesments

Activities	Weight (%)
Alan Çalışması	40,00
Final	0,00
Rapor	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						
L.O. 2																						
L.O. 3																						
L.O. 4																						
L.O. 5																						
L.O. 6																						
L.O. 7																						
L.O. 8																						
L.O. 9																						
L.O. 10																						

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 :

L.O. 2 :

L.O. 3 :

L.O. 4 :

L.O. 5 :

L.O. 6 :

L.O. 7 :

L.O. 8 :

L.O. 9 :

L.O. 10 :

İndirilme Tarihi

22.10.2026 20:09:50

SUT2205 - Scientific Diving - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

In the scientific studies to be carried out in marine and inland waters; to train the velvet staff who will work, in the underwater geothermal projects to be carried out; underwater and above-water studies, underwater and above-water studies, samples, samples and measurements to ensure the acquisition of competence to record the results.

Course Contents

In the studies to be carried out in marine environments and inland waters; It includes the planning of the projects to be carried out by providing the gains of the Equipment, Equipment and Analysis and Measurement Devices to be used in Underwater and Overwater Studies, Introduction of the Devices, Working Principles and Usage Methods.

Recommended or Required Reading

NOAA, UNIVERSITY OF NORTH CAROLINA WILMINGTON SCIENTIFIC DIVING SAFETY MANUAL

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area.

Recommended Optional Programme Components

Students need to update their knowledge about the subjects they are interested in, as the world of science is a field suitable for continuous technical development with the developing technology.

Instructor's Assistants

Assist. Prof. Dr. Ferhat YALGIN

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Ferhat Yalgın

Program Outcomes

1. The Use of Sampling Equipment Used Underwater and Above Water
2. The Use of Measurement Receiving Equipment Used Underwater and Above Water
3. Preparation and Planning of Operations in the Region where Measurements and / or Samples will be Taken
4. Land planning of the scientific study to be conducted.
5. Permits and procedures for a planned field study.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Outline		Lecture, Discussion, Question and answer, and practical application		Introduction to the equipment and equipment that should be used in accordance with the physicochemical properties and oceanographic properties of marine and inland waters.
2	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application		Introduction to the equipment and equipment that should be used in accordance with the physicochemical properties and oceanographic properties of marine and inland waters.
3	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Equipment and equipment that should be used in accordance with the physicochemical properties and oceanographic properties of marine and inland waters, technical specifications and working areas of these equipment to be used.	The equipment and equipment that should be used in accordance with the physicochemical properties and oceanographic properties of marine and inland waters, the technical specifications of this equipment to be used, the working areas and the selection of the right equipment for the field to be used.

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
4	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Equipment and equipment that should be used in accordance with the physicochemical properties and oceanographic properties of marine and inland waters, technical specifications and working areas of these equipment to be used.	The equipment and equipment that should be used in accordance with the physicochemical properties and oceanographic properties of marine and inland waters, the technical specifications of this equipment to be used, the working areas and the selection of the right equipment for the field to be used.
5	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Parts of Watercraft and the Effective Use of Vital Spaces.	Effective Use of Watercraft Parts and Vital Areas for the voyage to be made.
6	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Things to be done during the navigation to be done and the needs that will be needed. Legal permissions to be obtained for the works.	Things to be done during the navigation to be done and the needs that will be needed. Legal permits required for the works. Follow-up and planning of the preparation process.
7	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Things to be done during the navigation to be done and the needs that will be needed. Legal permissions to be obtained for the works.	Things to be done during the navigation to be done and the needs that will be needed. Legal permits required for the works. Follow-up and planning of the preparation process.
8	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Reading Nautical Charts and Creating Bathymetric Mapping.	Reading Nautical Charts and Creating Bathymetric Mapping. Reading the created maps and planning diving operations.
9	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Underwater and Overwater Measurement Equipment to be used in marine and inland waters, features and working principles.	Underwater and surface measurement equipment to be used in marine and inland waters, working principles and usage techniques.
10	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Underwater and Overwater Measurement Equipment to be used in marine and inland waters, features and working principles.	Underwater and surface measurement equipment to be used in marine and inland waters, working principles and usage techniques.
11	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Underwater and Overwater Measurement Equipment to be used in marine and inland waters, features and working principles.	Underwater and surface measurement equipment to be used in marine and inland waters, working principles and usage techniques.
12	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Underwater and Overwater Measurement Equipment to be used in marine and inland waters, features and working principles.	Underwater and surface measurement equipment to be used in marine and inland waters, working principles and usage techniques.
13	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Recording the measurements made with Underwater and Surface Measurement Equipment to be used in marine and inland waters and entering these records into the inventory.	Field studies to be carried out; Recording the measurements made with Underwater and Surface Measurement Equipment to be used in marine and inland waters, entering these records into the inventory and planning the operations.
14	Review of the previous week, Class preparation notes		Lecture, Discussion, Question and answer, and practical application	Recording the measurements made with Underwater and Surface Measurement Equipment to be used in marine and inland waters and entering these records into the inventory.	Field studies to be carried out; Recording the measurements made with Underwater and Surface Measurement Equipment to be used in marine and inland waters, entering these records into the inventory and planning the operations.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	2,00
Final	1	2,00
Ders Öncesi Bireysel Çalışma	14	2,00

Assesments

Activities	Weight (%)
Final	60,00
Bütünleme	0,00
Vize	40,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1	4		3										4						3		4	
L.O. 2	3		3										1						3		2	
L.O. 3	3												3						2		3	
L.O. 4	2		2										2						4			
L.O. 5	2		1										4						1		4	

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : The Use of Sampling Equipment Used Underwater and Above Water

L.O. 2 : The Use of Measurement Receiving Equipment Used Underwater and Above Water

L.O. 3 : Preparation and Planning of Operations in the Region where Measurements and / or Samples will be Taken

L.O. 4 : Land planning of the scientific study to be conducted.

L.O. 5 : Permits and procedures for a planned field study.

İndirilme Tarihi
22.10.2026 20:10:19

SUT2206 - Aquaculture and Net Cage Systems - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

It is aimed to support well-trained divers needed in the aquaculture sector.

Course Contents

The purpose of this course is to provide a general overview of farming and management techniques needed to operate high-density polyethylene (HDPE) floating fish-culture cages, including the types of materials used, their technical specifications and operability.

Recommended or Required Reading

Cardia, F., Lovatelli, A. (2015). Aquaculture operations in floating HDPE cages. FAO Fisheries and Aquaculture Technical Paper No. 593. Rome: FAO, 152 pp. Shainee et al. (2013). Design theory in offshore fish cage designing. Aquaculture, 392?395: 134?141.

Planned Learning Activities and Teaching Methods

Theoretical

Recommended Optional Programme Components

Cardia, F. & Lovatelli, A. 2015. Aquaculture operations in floating HDPE cages: a field handbook. FAO Fisheries and Aquaculture Technical Paper No. 593. Rome, FAO. 152 pp.

Instructor's Assistants

Doç. Dr. Uğur KARADURMUŞ

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş

Program Outcomes

1. Recognizes aquaculture systems.
2. Knows the components of cage systems.
3. Cage installation and general maintenance can be done.
4. Learns and practices periodic diving activities in aquaculture.
5. Has knowledge about diving safety in cage systems.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lesson explanation	Aquaculture systems	Case Study, Demonstration and Practice
2	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Site selection	Case Study, Demonstration and Practice
3	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	HDPE cage components	Case Study, Demonstration and Practice
4	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Fibres, netting and ropes	Case Study, Demonstration and Practice
5	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Anchor and buoy systems	Case Study, Demonstration and Practice
6	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	System installation	Case Study, Demonstration and Practice
7	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Safety notes	Case Study, Demonstration and Practice
8	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Maintenance and controls	Case Study, Demonstration and Practice
9	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Periodic inspections	Case Study, Demonstration and Practice
10	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Net changing	Case Study, Demonstration and Practice
11	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Elimination of non-conformities	Case Study, Demonstration and Practice
12	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Procedures for component replacement	Case Study, Demonstration and Practice
13	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Harvesting with dive	Case Study, Demonstration and Practice
14	Review of the previous week, lesson preparation notes		Lecture, Discussion, Q&A	Harvest on tuna and mussel farms	Case Study, Demonstration and Practice

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Vize	1	2,00
Final	1	2,00
Ödev	7	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1											3			2			4		3	5		
L.O. 2											4			4			4		4	5		
L.O. 3											4			2			4		3	5		
L.O. 4											5			3			4		4	5		
L.O. 5											5			1			4		4	5		

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Recognizes aquaculture systems.

L.O. 2 : Knows the components of cage systems.

L.O. 3 : Cage installation and general maintenance can be done.

L.O. 4 : Learns and practices periodic diving activities in aquaculture.

L.O. 5 : Has knowledge about diving safety in cage systems.

İndirilme Tarihi

22.10.2026 20:11:01

SUT2207 - Skin Diving - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

It is aimed to introduce students to the underwater world and to gain basic knowledge and skills about free diving.

Course Contents

Breathing, Duck Diving, Emergency exit skills, Track shooting, Equipment Knowledge

Recommended or Required Reading

PADI Freediving System and TSSF CMAS Training Standards presentations

Planned Learning Activities and Teaching Methods

Theoretical Education in the Classroom, Theoretical and Practical Education in the Practice Area. Problem Solving, Demonstration and Practice

Recommended Optional Programme Components

In order to gain a different perspective on the underwater world with the knowledge of Freediving, students need to update their knowledge on the subjects they are interested in and improve themselves.

Instructor's Assistants

We do not have an assistant teacher

Presentation Of Course

Face to face - Formal Education

Dersi Veren Öğretim Elemanları

Inst. Alparslan Fatih Kulakaç

Program Outcomes

1. Freediving physiology, equalization techniques and pressure changes,
2. Learns to dive safely to a depth of 20m with Free Diving.
3. Has knowledge of Free Diving safety.
4. Can plan a professional career in Free Diving.
5. They get to know freediving equipment and learn how to use it.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	The course syllabus is explained.			Introduction to freediving, basic concepts, diving disciplines, equipment, and safety rules.	
2	Preparation for the topic.			Basic safety in freediving, the buddy system, and pre-dive checks.	
3	Reading the relevant sources.			The respiratory system and the fundamental principles of breath control in freediving.	
4	Preparation before the subject			Equalization techniques and pressure changes	
5	Repeat of last week's			Freediving physiology, equalization techniques and pressure changes,	Ear equalization techniques
6	Review of preparatory notes			Proper selection and use of freediving equipment	
7	Reading the relevant sources			Diving techniques and hydrodynamic principles	
8	Preparation before the subject			Static and dynamic apnea in freediving.	Static and dynamic apnea exercises
9	Review of preparatory notes			Fundamental principles of deep diving: the relationship between pressure and volume.	
10	Repeat of last week's			Safety, risks, and emergencies in freediving	
11	Preparation before the subject			Physical and psychological factors affecting diving performance. Understands environmental conditions and open-water practices in freediving.	
12	Reading the relevant sources			Dive planning, performance assessment, individual development, and shallow-water exercises.	Shallow-water operations at five meters
13	Review of preparatory notes			Duck dive and emergency skills	The diver performs a duck dive and executes emergency skills, including arm-assisted ascent, maskless ascent, mask clearing, and first aid exercises.
14	Planning for the previous week			Review of the previous week and freediving career planning	The diver performs a duck dive and executes emergency skills, including arm-assisted ascent, maskless ascent, mask clearing, and first aid exercises.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	2,00
Final	1	2,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Uygulama / Pratik Sonrası Bireysel Çalışma	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00
Teorik Ders Anlatım	0	0,00
Uygulama / Pratik	0	0,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1		5						5														
L.O. 2		3						5														
L.O. 3		3						5														
L.O. 4		4						4														
L.O. 5		3						4														

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Freediving physiology, equalization techniques and pressure changes,

L.O. 2 : Learns to dive safely to a depth of 20m with Free Diving.

L.O. 3 : Has knowledge of Free Diving safety.

L.O. 4 : Can plan a professional career in Free Diving.

L.O. 5 : They get to know freediving equipment and learn how to use it.

İndirilme Tarihi

22.10.2026 20:11:32

SUT2208 - Boat and Engine Knowledge - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The objective of this course is to familiarize individuals working in the field of underwater technology with the basic structures, systems, and operating principles of various marine vessels, and to provide them with fundamental knowledge and skills regarding maintenance, safety, and malfunctions. The course also aims to understand the technical competence of dive boats and establish the necessary foundation for their effective operation.

Course Contents

Boat types and structural features, hull structure and materials, propulsion systems, outboard and inboard engines, fuel systems, cooling and lubrication systems, steering systems, propellers, battery and electrical systems, engine maintenance and troubleshooting, boat safety, maritime rules, and emergency procedures. Practical engine disassembly and assembly, basic maintenance procedures, and system checks.

Recommended or Required Reading

Republic of Turkey Ministry of Transport and Infrastructure: Amateur Sailing Training Booklet, Chapman, P. (2013). Boatowner's Mechanical and Electrical Manual

Planned Learning Activities and Teaching Methods

Theoric and Application

Recommended Optional Programme Components

Undefined

Instructor's Assistants

Undefined

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Sabri Alkan Assoc. Prof. Dr. Uğur Karadurmuş Inst. Ahmet Demiray

Program Outcomes

1. Rrecognizes boats and knows their structure.
2. knows the types of engines used in boats.
3. knows the working principles of internal combustion engines.
4. knows about underwater services for boats.
5. knows the basic engine malfunctions and how to fix them.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lecture, question and answer session.	Introduction to Boat Types and Hull Structures	
2	Repeat of last week's		Lecture, question and answer session.	Comparison of Outboard and Inboard Motors	
3	Repeat of last week's		Lecture, question and answer session.	Main Parts of the Engine and Its Working Principle	
4	Repeat of last week's		Lecture, question and answer session.	Fuel and Air Systems	
5	Repeat of last week's		Lecture, question and answer session.	Cooling and Lubrication Systems	
6	Repeat of last week's		Lecture, question and answer session.	Electrical System and Battery Connections	
7	Repeat of last week's		Lecture, question and answer session.	Rudder, Propeller and Maneuvering Systems	
8	Repeat of last week's		Lecture, question and answer session.	Oil Change, Filter Check	
9	Repeat of last week's		Lecture, question and answer session.	Troubleshooting	
10	Repeat of last week's		Lecture, question and answer session.	Boat Safety and Usage Rules	
11	Repeat of last week's		Lecture, question and answer session.	Basic Obstacles, Signals and Rules of Navigation in Maritime Navigation	
12	Repeat of last week's		Lecture, question and answer session.	Emergency Procedures and Fire Fighting	
13	Repeat of last week's		Lecture, question and answer session.		Workshop Practice: Engine Disassembly and Assembly
14	Repeat of last week's		Lecture, question and answer session.		Workshop Practice: Engine Disassembly and Assembly

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1						3										5						
L.O. 2																						

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 3																						
L.O. 4																5						
L.O. 5																						

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Rrecognizes boats and knows their structure.

L.O. 2 : knows the types of engines used in boats.

L.O. 3 : knows the working principles of internal combustion engines.

L.O. 4 : knows about underwater services for boats.

L.O. 5 : knows the basic engine malfunctions and how to fix them.

İndirilme Tarihi

22.10.2026 20:12:05

SUT2209 - Nitrox and Technical Diving - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The Nitrox and Technical Diving course aims to teach divers the skills of diving using nitrox (enriched air) and advanced technical diving methods. It provides the theoretical knowledge and practical applications necessary to increase safety and optimize dive performance.

Course Contents

Deep Dives, Equipment Use, Gas Mixtures, Navigation in Complex Environments, Teamwork and Communication, Physical and Psychological Preparation

Recommended or Required Reading

TDI (Technical Diving International) – Nitrox & Advanced Nitrox Manual

Planned Learning Activities and Teaching Methods

Theorical

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Ahmet Demiray

Program Outcomes

1. Explains nitrox and technical diving types, the gas mixtures used, and the advantages and risks of these dives.
2. They will be familiar with technical diving equipment and have knowledge of its installation and maintenance.
3. Conducts gas analyses, calculates oxygen percentage, and evaluates safety limits.
4. Plans and executes deep, long-duration, and decompression dives.
5. Knows and implements emergency response methods that may be encountered during technical diving.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lecture, Question/answer	Introduction to Nitrox and Technical Diving	
2	Repeat of last week's		Lecture, Question/answer	Types of Technical Diving and Gas Mixtures Used	
3	Repeat of last week's		Lecture, Question/answer	Types of Technical Diving and Gas Mixtures Used	
4	Repeat of last week's		Lecture, Question/answer	Technical Diving Equipment (Identification – Installation – Maintenance)	
5	Repeat of last week's		Lecture, Question/answer	Technical Diving Equipment (Identification – Installation – Maintenance)	
6	Repeat of last week's		Lecture, Question/answer	Gas Analysis and Oxygen Percentage Calculation	
7	Repeat of last week's		Lecture, Question/answer	Gas Analysis and Oxygen Percentage Calculation	
8	Repeat of last week's		Lecture, Question/answer	Pre-dive preparations	
9	Repeat of last week's		Lecture, Question/answer	Deep, Long-Term, and Decompression Dive Planning	
10	Repeat of last week's		Lecture, Question/answer	Deep, Long-Term, and Decompression Dive Planning	
11	Repeat of last week's		Lecture, Question/answer	Technical Diving Practices and Procedures	
12	Repeat of last week's		Lecture, Question/answer	Technical Diving Practices and Procedures	
13	Repeat of last week's		Lecture, Question/answer	Emergency Management in Technical Diving	
14	Repeat of last week's		Lecture, Question/answer	Emergency Management in Technical Diving	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Uygulama / Pratik	14	2,00
Teorik Ders Anlatım	14	1,00
Final Sınavı Hazırlık	1	2,00
Ara Sınav Hazırlık	1	2,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1													5									
L.O. 2									5													
L.O. 3													5									
L.O. 4									5										2			
L.O. 5													5									

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains nitrox and technical diving types, the gas mixtures used, and the advantages and risks of these dives.

L.O. 2 : They will be familiar with technical diving equipment and have knowledge of its installation and maintenance.

L.O. 3 : Conducts gas analyses, calculates oxygen percentage, and evaluates safety limits.

L.O. 4 : Plans and executes deep, long-duration, and decompression dives.

L.O. 5 : Knows and implements emergency response methods that may be encountered during technical diving.

İndirilme Tarihi

22.10.2026 20:13:22

SUT2210 - Underwater Equipment Maintenance and Calibration - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü General Info

Objectives of the Course

The aim of this course is to enable students to acquire the knowledge and skills necessary for the maintenance, inspection, testing, and calibration of underwater and diving equipment, ensuring their safe, efficient, and long-term use. The course covers determining maintenance requirements, inspecting equipment, assessing the accuracy of measuring instruments, performing corrosion and leak checks, maintaining maintenance records, and conducting post-maintenance functional tests.

Course Contents

Topics covered include the identification of underwater diving equipment; pre- and post-use checks; periodic maintenance procedures; cleaning and storage conditions; detection of potential equipment malfunctions; inspection of pressurized systems; maintenance and inspection of regulators and BCD systems; inspection and testing processes for diving cylinders; checking of pressure gauges and depth gauges; maintenance and inspection of dive computers; maintenance of underwater electronic equipment; inspection of O-rings and sealing components; calibration of measuring instruments; keeping calibration records; preparation of maintenance and service forms; and occupational health and safety issues regarding equipment safety and maintenance operations. Adherence to manufacturer instructions and the maintenance of maintenance/service records are among the fundamental principles of equipment maintenance.

Recommended or Required Reading

CMAS – International Diver Training Standards and Procedures Manual. CMAS World. CMAS – International Diver Training Standards and Procedures / Training Standards. CMAS World. PADI – Equipment Specialist / Scuba Equipment Maintenance Resources. PADI. PADI – Regulator Equipment and Maintenance. PADI. PADI – Scuba Diving Cylinders/Tanks: Equipment and Maintenance

Planned Learning Activities and Teaching Methods

Lecture, question-and-answer, discussion, case study analysis, review of technical documents and manufacturer manuals, problem-solving, individual and group work, evaluation of equipment maintenance and inspection procedures, analysis of malfunction scenarios, and evaluation of calibration practices.

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to face - Formal Education

Dersi Veren Öğretim Elemanları

Inst. Alparslan Fatih Kulakaç

Program Outcomes

1. Can explain the periodic maintenance and inspection procedures for diving equipment.
2. It can determine the maintenance requirements of underwater equipment.
3. Can perform maintenance on diving equipment using appropriate methods and tools.
4. It can detect corrosion, leaks, and mechanical failures that may occur in the equipment.
5. Can perform leak-tightness and functionality checks on the equipment.
6. It can perform safety and functional tests on the equipment after maintenance.
7. Can apply appropriate cleaning, maintenance, and storage methods for underwater equipment.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	The course syllabus is displayed.			Introduction to Underwater Equipment	
2	Repeat of last week's			The course syllabus is displayed.	
3	Review of preparatory notes			General Inspection of Diving Equipment	
4	Reading the relevant sources			Maintenance of Regulators	The 1st and 2nd stage regulators are removed and cleaned.
5	Repeat of last week's			Maintenance of regulators	The 1st and 2nd stage regulators are removed and cleaned.
6	Preparation before the subject			Fundamental Principles of Calibration	
7	Review of preparatory notes			Fundamental Principles of Calibration	
8	Repeat of last week's			Fundamental Principles of Calibration	The regulators are opened and serviced.
9	Preparation before the subject			Maintenance of Lifting Balancer and Inflation Systems	
10	Reading the relevant sources			Maintenance of Wetsuits and Personal Equipment	
11	Preparation before the subject			Sealing and Corrosion Control	Leakage checks and testing of the regulators are performed.
12	Repeat of last week's			Sealing and corrosion control	Leakage checks and testing of the regulators are performed.
13	Reading the relevant sources			Equipment Tests and Maintenance Records	
14	Preparation before the subject			A general review of the practice is conducted.	Maintenance and inspection of the 1st and 2nd stage regulators are performed.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	2,00
Ders Öncesi Bireysel Çalışma	14	1,00
Vize	1	2,00
Final	1	2,00
Teorik Ders Anlatım	0	0,00
Uygulama / Pratik	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Uygulama / Pratik	0	0,00
Teorik Ders Anlatım	0	0,00
Teorik Ders Anlatım	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00
Teorik Ders Anlatım	0	0,00
Uygulama / Pratik	0	0,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1															4		1	2				
L.O. 2															4		4	3				
L.O. 3															4		3	4				
L.O. 4															4		3	4				
L.O. 5															4		3	4				
L.O. 6															4		3	4				
L.O. 7															4		3	4				

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Can explain the periodic maintenance and inspection procedures for diving equipment.

L.O. 2 : It can determine the maintenance requirements of underwater equipment.

L.O. 3 : Can perform maintenance on diving equipment using appropriate methods and tools.

L.O. 4 : It can detect corrosion, leaks, and mechanical failures that may occur in the equipment.

L.O. 5 : Can perform leak-tightness and functionality checks on the equipment.

L.O. 6 : It can perform safety and functional tests on the equipment after maintenance.

L.O. 7 : Can apply appropriate cleaning, maintenance, and storage methods for underwater equipment.

İndirilme Tarihi

22.10.2026 20:13:53

SUT2211 - Underwater Image Processing and Analysis - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to enable students to recognize the basic characteristics of underwater images, understand environmental factors affecting image quality, learn basic image enhancement and analysis methods, and extract meaningful information from underwater images.

Course Contents

Digital imaging and basic image processing concepts; propagation of light in underwater environments; color loss, blur, scattering and contrast problems; image formats and resolution; color and contrast correction; filtering and noise reduction; image enhancement; edge and object detection; image segmentation; basic measurement and classification methods; analysis of underwater photographs and video images; evaluation of data obtained from ROVs, diver cameras and sonar imaging systems; basic applications using sample underwater images.

Recommended or Required Reading

Course notes prepared by the instructor; basic references on digital image processing; training materials related to OpenCV, ImageJ and similar image processing software; technical documents on underwater photography, video systems, ROV and sonar imaging systems; current scientific articles and sample underwater image datasets.

Planned Learning Activities and Teaching Methods

Lectures, question-and-answer activities, examination of visual materials, comparison of sample underwater images, computer-assisted image processing applications, image enhancement and analysis exercises, individual and group work, case studies and project-based activities.

Recommended Optional Programme Components

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray

Program Outcomes

1. Explains basic concepts related to underwater imaging and digital image processing.
2. Explains factors such as light, color, turbidity and scattering that affect image quality underwater.
3. Applies basic image enhancement and filtering techniques to underwater images.
4. Analyzes objects, structures and basic features in underwater photographs and video images.
5. Evaluates images obtained from diver cameras, ROVs and sonar systems at a basic level.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course Syllabus		Lecture, Question and answer	Introduction to Underwater Imaging and Digital Image Processing	
2	A repeat of last week's.		Lecture, Question and answer	Basic Properties of Digital Images: Pixel, Resolution, Color and Image Formats	
3	A repeat of last week's.		Lecture, Question and answer	Light, Color Loss and Image Formation in Underwater Environments	
4	A repeat of last week's.		Lecture, Question and answer	Turbidity, Scattering, Visibility and Contrast Problems	
5	A repeat of last week's.		Lecture, Question and answer	Underwater Imaging Systems: Diver Cameras, ROV Cameras and Sonar	
6	A repeat of last week's.		Lecture, Question and answer	Introduction to Image Processing Software and Basic Image Operations	
7	A repeat of last week's.		Lecture, Question and answer	Brightness, Contrast and Color Correction Applications	
8	A repeat of last week's.		Lecture, Question and answer	Underwater Image Enhancement and Before–After Comparison	
9	A repeat of last week's.		Lecture, Question and answer	Edge, Shape and Basic Object Detection Methods	
10	A repeat of last week's.		Lecture, Question and answer	Image Segmentation, Measurement and Basic Visual Analysis	
11	A repeat of last week's.		Lecture, Question and answer	Analysis of Underwater Photographs and Video Images	
12	A repeat of last week's.		Lecture, Question and answer	Image Filtering and Noise Reduction Methods	
13	A repeat of last week's.		Lecture, Question and answer	Examination and Evaluation of ROV and Diver Camera Images	
14	A repeat of last week's.		Lecture, Question and answer	Basic Evaluation of Sonar Images and Underwater Image Analysis Case Studies	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																						
L.O. 2																						

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 3																			5		5	
L.O. 4																			5		5	
L.O. 5																			5		5	

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning skills with sustainability principles.

L.O. 1 : Explains basic concepts related to underwater imaging and digital image processing.

L.O. 2 : Explains factors such as light, color, turbidity and scattering that affect image quality underwater.

L.O. 3 : Applies basic image enhancement and filtering techniques to underwater images.

L.O. 4 : Analyzes objects, structures and basic features in underwater photographs and video images.

L.O. 5 : Evaluates images obtained from diver cameras, ROVs and sonar systems at a basic level.

İndirilme Tarihi

22.10.2026 20:14:25

SUT2212 - Quality Management in Maritime Industry - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

ADSAC

Course Contents

The concept of quality and fundamental principles of quality management; historical development of quality management; total quality management; quality management systems; ISO 9001 Quality Management System; importance of quality management in the maritime sector; IMO and international regulations regarding quality management; ISM Code and safety management system; relationship between quality and safety in maritime enterprises; risk and non-conformity management; internal and external audit processes; corrective and preventive actions; performance indicators; documentation; continuous improvement and quality management practices in maritime enterprises.

Recommended or Required Reading

Hoyle, D. (2017). ISO 9000 Quality Systems Handbook: Using the Standards as a Framework for Business Improvement. Routledge. International Maritime Organization (IMO), International Safety Management (ISM) Code. International Organization for Standardization (ISO), ISO 9001 – Quality Management Systems – Requirements. Branch, A. E. (2007). Elements of Shipping. Routledge. Current documents regarding quality, safety, and maritime management published by the International Maritime Organization (IMO). Quality and safety management system documents and sample practices of maritime enterprises.

Planned Learning Activities and Teaching Methods

Lecture, question-and-answer, discussion, case study/analysis, problem-solving, individual work, group work, document review, practice, and student presentations.

Recommended Optional Programme Components

Instructor's Assistants

None available.

Presentation Of Course

Face-to-face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. Explains the fundamental concepts and principles regarding quality management, quality assurance systems, and total quality management.
2. Explains national and international regulations and standards concerning quality management in the maritime sector.
3. Analyzes the relationship between the ISM Code and quality management and safety management systems.
4. Identifies quality issues, non-conformities, and risks in maritime enterprises and proposes appropriate improvement methods.
5. Evaluates the processes of auditing, corrective action, documentation, and performance monitoring within the scope of the quality management system.
6. Applies the continuous improvement approach in maritime enterprises regarding quality, safety, environmental, and operational performance.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Lecture, case study, document review, discussion	The concept of quality and introduction to quality management in the maritime industry	Identification of quality elements in the maritime industry
2	Pre Reading		Lecture, case study, discussion Lecture, case study, document review, discussion	Total Quality Management and quality culture	Examination of processes in maritime enterprises
3	Pre Reading		Lecture, case study, document review, discussion	Total Quality Management and quality culture	Evaluation of quality culture in maritime enterprises
4	Pre Reading		Lecture, case study, document review, discussion	Quality management systems and ISO 9001	Examination of the process approach within the scope of ISO 9001
5	Pre Reading		Lecture, case study, document review, discussion	International regulations and quality management in the maritime industry	Examination of regulations regarding quality and safety in the maritime industry
6	Pre Reading		Lecture, case study, document review, discussion	ISM Code and Safety Management System	Examination of Safety Management System practices
7	Pre Reading		Lecture, case study, document review, discussion	Relationship between quality, safety, and environmental management	Evaluation of quality, safety, and environmental practices in maritime operations
8	Pre Reading		Lecture, case study, document review, discussion	Risk management in maritime	Risk assessment in maritime operations
9	Pre Reading		Lecture, case study, document review, discussion	Non-conformity management and root cause analysis	Evaluation of non-conformities in maritime enterprises
10	Pre Reading		Lecture, case study, document review, discussion	Corrective actions and continuous improvement	Examination of the corrective action process
11	Pre Reading		Lecture, case study, document review, discussion	Quality audits and audit processes	Examination of quality auditing in maritime enterprises
12	Pre Reading		Lecture, case study, document review, discussion	Quality performance indicators and quality measurement	Evaluation of quality indicators in maritime enterprises
13	Pre Reading		Lecture, case study, document review, discussion	Documentation and quality records	Examination of quality documentation in maritime enterprises
14	Pre Reading		Lecture, case study, document review, discussion	Quality management and continuous improvement practices in the maritime industry	Quality management case study in maritime enterprises

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	1,00
Ara Sınav Hazırlık	1	5,00
Final Sınavı Hazırlık	1	10,00

Assesments

Activities	Weight (%)
Final	60,00
Vize	40,00

Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü / Su Altı Teknolojisi X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20	P.O. 21	P.O. 22
L.O. 1																			5			3
L.O. 2																			5			3
L.O. 3																			5			3
L.O. 4																			5			3
L.O. 5																			5			3
L.O. 6																			5			3

Table :

P.O. 1 : Possesses fundamental knowledge of marine science and the marine environment.

P.O. 2 : Possesses knowledge of basic diving techniques and diving systems.

P.O. 3 : Possesses knowledge of diving health and safety.

P.O. 4 : Possesses knowledge of hyperbaric systems and treatment methods.

P.O. 5 : Possesses the knowledge and competencies required for hyperbaric chamber operation.

P.O. 6 : Possesses fundamental knowledge of seamanship and maritime practices.

P.O. 7 : Possesses knowledge of first aid and lifesaving procedures.

P.O. 8 : Demonstrates basic swimming and freediving skills.

P.O. 9 : Develops the ability to perform scuba diving operations.

P.O. 10 : Develops the ability to perform surface-supplied diving operations.

P.O. 11 : Performs basic and complex underwater tasks effectively.

P.O. 12 : Demonstrates rescue diving skills.

P.O. 13 : Uses oxygen systems and prepares breathing gas mixtures for diving operations.

P.O. 14 : Meets the qualifications required to obtain a First-Class Commercial Diver Certificate.

P.O. 15 : Identifies basic materials and performs their inspection and assessment.

P.O. 16 : Recognizes ships and underwater structures and understands their basic characteristics.

P.O. 17 : Develops technical and professional skills required for underwater operations.

P.O. 18 : Possesses fundamental knowledge and skills in workshop practices, cutting, and welding.

P.O. 19 : Develops and implements underwater project and management plans.

P.O. 20 : Possesses knowledge of aquaculture systems and related underwater operations.

P.O. 21 : Demonstrates underwater imaging and scientific diving skills.

P.O. 22 : Integrates digitalization, foreign language proficiency, communication, teamwork, ethics, quality, career development, and lifelong learning

skills with sustainability principles.

L.O. 1 : Explains the fundamental concepts and principles regarding quality management, quality assurance systems, and total quality management.

L.O. 2 : Explains national and international regulations and standards concerning quality management in the maritime sector.

L.O. 3 : Analyzes the relationship between the ISM Code and quality management and safety management systems.

L.O. 4 : Identifies quality issues, non-conformities, and risks in maritime enterprises and proposes appropriate improvement methods.

L.O. 5 : Evaluates the processes of auditing, corrective action, documentation, and performance monitoring within the scope of the quality management system.

L.O. 6 : Applies the continuous improvement approach in maritime enterprises regarding quality, safety, environmental, and operational performance.