İndirilme Tarihi
14.10.2026 19:18:28

GMP1101 - Vocational Mathematics - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The student, for the profession to gain the necessary competence to apply mathematical knowledge and skills to work.

Course Contents

Numbers and area-volume calculations, Exponential and radical expressions, Absolute value, Algebraic operations, Factorization, Equations, Inequalities, Logarithms, Derivatives, Derivative of composite functions, Integrals, Integration by substitution, Definite integrals

Recommended or Required Reading

Balcı M., Prof.Dr., General Mathematics Çakmak Z., Selimoğlu E., Mathematics, Mustafa Balcı, General Mathematics II.

Planned Learning Activities and Teaching Methods

Explanation and question solution

Recommended Optional Programme Components

Continuing the lesson

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Serkan Yüksel Assoc. Prof. Dr. Uğur Karadurmuş

Program Outcomes

1. To develop the ability to perform basic math operation
2. Abstract thought - develop quantitative thinking skills
3. It performs operations related to logarithms
4. They gain the ability to solve examples related to derivatives
5. They gain the ability to solve examples related to integrals

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lecture, in-class practice, and problem solving	Numbers and area-volume calculations	Problem solving: Numbers and area-volume calculations
2	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Numbers with exponents and radicals	Solving problems involving exponents and radicals
3	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Absolute value and algebraic operations	Absolute value and algebraic operations: problem solving
4	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Factorization	Factoring problem solutions
5	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Equations	Solving equation problems
6	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Equations with two unknowns	Solving equations with two unknowns
7	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Inequalities	Inequalities problem solving
8	Midterm exam preparation		Midterm exam	Midterm Exam	Midterm Exam
9	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Logarithm	Logarithm problem solving
10	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Logarithm	Logarithm problem solving
11	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Derivative	Derivative problem solving
12	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Derivative of the composite function	Derivative of a composite function: problem solving
13	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Integral	Solving integral problems
14	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Integration by substitution	Solving an integral problem using the substitution method
15	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Definite integral	Definite integral problem solving

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Vize	1	1,00
Final	1	1,00
Ara Sınav Hazırlık	1	1,00
Final Sınavı Hazırlık	1	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															
L.O. 5	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 : To develop the ability to perform basic math operation

L.O. 2 : Abstract thought - develop quantitative thinking skills

L.O. 3 : It performs operations related to logarithms

L.O. 4 : They gain the ability to solve examples related to derivatives

L.O. 5 : They gain the ability to solve examples related to integrals

İndirilme Tarihi
14.10.2026 20:01:57

GMP1102 - Computer Applications - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Introduction to computers and their applications, learning office software, and demonstrating problem-solving skills. Learning CAD, a program necessary for computer-aided drawing and design, and being able to create drawings using the program.

Course Contents

Computer hardware and software, writing applications, spreadsheet-calculation applications, presentation applications. CAD installation and settings, learning commands, dimensioning, 2D drawing examples.

Recommended or Required Reading

Package program explanation and implementation.

Planned Learning Activities and Teaching Methods

Explanation-Examples-Application

Recommended Optional Programme Components

Continuing the lesson

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Serkan Yüksel

Program Outcomes

1. It improves the ability to use computers and applications.
2. It improves the ability to use computer office software.
3. They learn how to use CAD software and its commands.
4. They know how to take dimensions and print output using CAD software.
5. It creates 2D drawings using CAD software.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lecture, in-class practice, and problem solving	Basic Information (Computer Components, Windows, Web)	Basic Information (Computer Components, Windows, Web) applications
2	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Office word processing software	Office word processing applications
3	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Office word processing and CV preparation	Office writing software and CV preparation examples
4	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Office spreadsheet and calculation applications	Examples of office spreadsheet applications
5	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Office spreadsheets and calculations	Office spreadsheet and calculation examples
6	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Office presentation applications	Examples of office presentation applications
7	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Office presentation	Office presentation examples
8	Midterm exam preparation		Midterm exam	Midterm Exam	Midterm Exam
9	Topic review and preliminary study		Lecture, in-class practice, and problem solving	CAD program installation and settings	CAD program installation and settings
10	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Teaching CAD commands	Examples with CAD commands
11	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Teaching CAD commands	Examples with CAD commands
12	Topic review and preliminary study		Lecture, in-class practice, and problem solving	CAD dimensioning and plotting	CAD dimensioning and plotting examples
13	Topic review and preliminary study		Lecture, in-class practice, and problem solving	2D drawing examples	2D drawing examples
14	Topic review and preliminary study		Lecture, in-class practice, and problem solving	2D drawing examples	2D drawing examples
15	Topic review and preliminary study		Lecture, in-class practice, and problem solving	Professional 2D drawing examples	Professional 2D drawing examples

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Ders Sonrası Bireysel Çalışma	14	3,00
Ara Sınav Hazırlık	1	3,00
Final Sınavı Hazırlık	1	3,00
Vize	1	1,00
Final	1	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													
L.O. 5			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 : It improves the ability to use computers and applications.

L.O. 2 : It improves the ability to use computer office software.

L.O. 3 : They learn how to use CAD software and its commands.

L.O. 4 : They know how to take dimensions and print output using CAD software.

L.O. 5 : It creates 2D drawings using CAD software.

İndirilme Tarihi

14.10.2026 20:03:51

GMP1103 - Manufacturing Processes I - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Basic information about the manufacturing procedures applied to the industry and assembly operations (assembly-welding operations) are given.

Course Contents

Metal forming and welding methods.

Recommended or Required Reading

S. ANIK, İmal usulleri, Birsen Yayınevi İstanbul 2006 İ. NEBİLER, İmalat İşlemleri, Birleşik matabacılık İzmir 2014

Planned Learning Activities and Teaching Methods

Face to face
Workshop practices

Recommended Optional Programme Components

Students must attend basic OHS training before entering the course practices.

Instructor's Assistants

Öğr. Gör. Dr. Müslüm KOÇ

Presentation Of Course

Face to face workshop applications

Dersi Veren Öğretim Elemanları

Inst. Müslüm Koç

Program Outcomes

1. Know the manufacturing methods used in the industry
2. Can select parts production methods
3. Know assembly methods of manufactured parts
4. Know commonly used welding mothod in the industrial
5. Can do MMA(SMAW), GMAW and TIG welding methods

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Creating a course syllabus		Presentation, Question and answer	Introduction to the course syllabus, Introduction to manufacturing processes and their classification	
2	Repeat of last week's		Presentation, Question and answer	Demountable joining processes. Small hand tools used in metal forming operations.	
3	Repeat of last week's		Presentation, Question and answer	Definition, history, classification, and weldability of welding. Shielded metal arc welding.	
4	Repeat of last week's		Presentation, Question and answer	Shielded metal arc welding	
5	Preparation of the machinery and parts required for the application		Applicaiton		Applicaiton of shielded metal arc welding
6	Preparation of the machinery and parts required for the application		Applicaiton		Applicaiton of shielded metal arc welding
7	Repeat of last week's			Gas metal arc welding	
8				Exam	
9	Repeat of last week's		Presentation, Question and answer	Gas metal arc welding	
10	Preparation of the machinery and parts required for the application		Application		Application of gas metal arc welding (GMAW)
11	Preparation of the machinery and parts required for the application		Application		Application of gas metal arc welding (GMAW)
12	Repeat of last week's		Presentation, Question and answer	Tungsten Inert Gas (TIG) Welding	
13	Preparation of the machinery and parts required for the application		Uygulama		Application of Tungsten Inert Gas (TIG) Welding
14	Repeat of last week's		Presentation,Question and answer		
15	Repeat of last week's		Presentation, Question and answer		

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ara Sınav Hazırlık	1	4,00
Final Sınavı Hazırlık	1	6,00
Derse Katılım	14	4,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ders Öncesi Bireysel Çalışma	14	2,00
Final	1	1,00
Vize	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Kısa Sınav	0,00
Ödev	0,00
Derse Katılım	0,00
Uygulama / Pratik	0,00
Araştırma Sunumu	0,00
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	0		0									5	0		
L.O. 2	5	0		0									5	0		
L.O. 3	5	0		0									5	0		
L.O. 4	5	0		0									5	0		
L.O. 5	5	0		0									5	0		

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 : Know the manufacturing methods used in the industry

L.O. 2 : Can select parts production methods

L.O. 3 : Know assembly methods of manufactured parts

L.O. 4 : Know commonly used welding mothod in the industrial

L.O. 5 : Can do MMA(SMAW), GMAW and TIG welding methods

İndirilme Tarihi

14.10.2026 20:06:38

GMP1104 - Materials Science and Industrial Materials - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Knowing the basic properties of engineering materials such as metals, ceramics, polymers and composites, knowing the types of metals and alloys, knowing the mechanical, thermal and corrosive properties of metals and how these properties are determined, knowing the production methods of steel and aluminum alloys, Iron-based materials, aluminum and its alloys, copper and its alloys, and their properties and naming according to standards.

Course Contents

Material types and properties, metals and their properties, properties of steels, cast irons, aluminum and its alloys, copper and its alloys, and material numbering systems/codings according to standards.

Recommended or Required Reading

Savaşkan, T. 2009; Malzeme Bilgisi ve Muayenesi,5. Baskı, Celepler Matbaacılık, Trabzon.

Planned Learning Activities and Teaching Methods

Face-to-face training, Animation, Videos

Recommended Optional Programme Components

Students should review the Classes' material rules booklets.

Instructor's Assistants

Öğr. Gör. Dr. Müslüm KOÇ

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Müslüm Koç

Program Outcomes

1. Knows the types of engineering materials
2. Knows the mechanical, thermal, corrosive, electrical and optical properties of metals.
3. Knows the properties, types and codes of steel materials within the framework of EN norms, Loyd rules and AISI standards
4. Knows the properties, types and codes of aluminium alloys within the framework of EN and ASTM norms
5. Knows the properties, types and codes of cast ıron within the framework of EN and ASTM norms
6. Knows the properties, types and codes of copper and copper alloys
7. Know polymer-matrix materials, such as HDPE, used in the shipbuilding industry.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Creating a course syllabus		Presentation, Question and answer	Introduction to the course syllabus, Introduction to materials science and engineering materials	
2	Repeat of last week's		Presentation, Soru-cevap	Crystal structures, miller indices, and planes	
3	Repeat of last week's		Presentation, Question and answer	Crystal defects and their effects on the properties of crystalline materials	
4	Repeat of last week's		presentation, Question and answer		
5	Repeat of last week's		Video, Animation, Question and answer		Video and animation demonstrations of mechanical tests.
6	Repeat of last week's		Presentation, Question and answer	Corrosive, thermal, electrical, and optical properties of metals and the determination of these properties	
7	Repeat of last week's		Presentation, Animation, Video	Steel production methods. Types of steel based on physical forms.	Video and animation demonstrations of steel production.
8					
9	Repeat of last week's		Presentation, Question and answer	Carbon content, microstructure, mechanical properties, applications, and steel types and codes according to EN, AISI, and classification society standards. Material numbering system. (EN 10020, 10025, 10027; Türk Loydu Volume A, Part 2)	
10	Repeat of last week's		Presentation, Question and answer	Carbon content, microstructure, mechanical properties, applications, and steel types and codes according to EN, AISI, and classification society standards. Material numbering system. (EN 10020, 10025, 10027; Türk Loydu Volume A, Part 2)	
11	Repeat of last week's		Presentation, Video,Animation, Question and answer	Types, properties, and production of cast iron; cast iron designations according to EN and ASTM standards.	Video and animation demonstrations on casting material production
12	Repeat of last week's		Presentation, Video,Animation, Question and answer	Stainless steels: types, applications, and codes	
13	Repeat of last week's		Presentation, Video,Animation, Question and answer	Stainless steels: types, applications, and codes	
14	Repeat of last week's		Presentation, Video,Animation, Question and answer	Aluminum production, general properties, aluminum alloys, and alloy codes	The role and importance of aluminum materials in boat manufacturing; aluminum yacht construction videos.
15	Repeat of last week's		Presentation, Video,Animation, Question and answer	Copper and copper alloys Polymer matrix materials used in the shipbuilding industry	

Workload

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

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 / 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	0		0									5	0		
L.O. 2	5	0		0									5	0		
L.O. 3	5	0		0									5	0		
L.O. 4	5	0		0									5	0		
L.O. 5	5	0		0									4	0		
L.O. 6	5	0		0									5	0		
L.O. 7																

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 : Knows the types of engineering materials

L.O. 2 : Knows the mechanical, thermal, corrosive, electrical and optical properties of metals.

L.O. 3 : Knows the properties, types and codes of steel materials within the framework of EN norms, Loyd rules and AISI standards

L.O. 4 : Knows the properties, types and codes of aluminium alloys within the framework of EN and ASTM norms

L.O. 5 : Knows the properties, types and codes of cast ıron within the framework of EN and ASTM norms

L.O. 6 : Knows the properties, types and codes of copper and copper alloys

L.O. 7 : Know polymer-matrix materials, such as HDPE, used in the shipbuilding industry.

İndirilme Tarihi

14.10.2026 20:09:13

GMP1105 - Scientific Principles of Technology - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of the course is for the student to understand the rules of basic physics that form the basis of technology, to solve various problems using the analytical approach method, and to gain the ability to apply this knowledge in the field of technology.

Course Contents

Scalar and vector quantities, unit systems; Force, resultant force, moment; Balance, conditions of balance, simple machines; Newton's Second Law of Motion, speed, acceleration, motion, frictional motion; Work and Energy, conservation of energy; Momentum and impulse, collision; Matter, common and uncommon properties of matter, density, specific gravity; Pressure in solids, liquids and gases, atmospheric pressure, buoyancy; Heat and temperature, forms of measurement, expansion, heat propagation.

Recommended or Required Reading

Kadir ÇAVDAR, Mesut ŞENGİRGİN, Teknolojinin Bilimsel İlkeleri

Planned Learning Activities and Teaching Methods

Theoretical and problem solving practice

Recommended Optional Programme Components

Kadir ÇAVDAR, Mesut ŞENGİRGİN, Teknolojinin Bilimsel İlkeleri

Instructor's Assistants

Doç.Dr. Bilal AYDOĞAN

Presentation Of Course

Face to face-formal education

Dersi Veren Öğretim Elemanları

Prof. Dr. Bilal Aydoğan

Program Outcomes

1. To be able to understand the physical rules that are the basis of technology.
2. Being able to establish the relationship between the laws of physics and technology
3. Ability to apply the rules of physics in professional courses.
4. Ability to produce solutions by using the laws of physics in the use or design of tools, machines and devices related to the profession.
5. Ability to solve engineering problems related to the subject

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1			Oral presantation, question-answer	Introduction to the course, quantities, unit systems	Unit systems question solutions
2	Replay of the previous week		Oral presantation, question-answer	Vectors, vector calculus, force and resultant force	Vectors, vector calculus, force and resultant force, question solutions
3	Replay of the previous week		Oral presantation, question-answer	Moment, moment of a force	Moment, moment of a force question solutions
4	Replay of the previous week		Oral presantation, question-answer	Balance; conditions of balance, simple machines	Balance; conditions of balance, simple machines question solutions
5	Replay of the previous week		Oral presantation, question-answer	Levers, pulleys, gear wheels,	Levers, pulleys, gear wheels, question solving
6	Replay of the previous week		Oral presantation, question-answer	Newton's Second Law of Motion, Velocity, Acceleration	Newton's Second Law of Motion, Velocity, Acceleration question solving
7	Replay of the previous week		Oral presantation, question-answer	General topic review before the exam	General topic review before the exam question solving
8				Midterm exam	
9	Replay of the previous week		Oral presantation, question-answer	Uniform Rectilinear, Uniformly Varying Motion Newton's Second Law of Motion, Velocity, Acceleration	Uniform Rectilinear, Uniformly Varying Motion Newton's Second Law of Motion, Velocity, Acceleration question solving
10	Replay of the previous week		Oral presantation, question-answer	Friction, movement on friction surfaces	Friction, movement on friction surfaces question solving
11	Replay of the previous week		Oral presantation, question-answer	Work and Energy, Kinetic and Potential Energy	Work and Energy, Kinetic and Potential Energy question solving
12	Replay of the previous week		Oral presantation, question-answer	Conservation of Energy, Power	Conservation of Energy, Power question solving
13	Replay of the previous week		Oral presantation, question-answer	Conservation of Energy, Power	Conservation of Energy, Power question solving
14	Replay of the previous week		Oral presantation, question-answer	General review	General review Question solving
15	Replay of the previous week		Oral presantation, question-answer	General review	General review Question solving

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Vize	1	1,00
Final	1	1,00
Ara Sınav Hazırlık	1	12,00
Final Sınavı Hazırlık	1	12,00

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	4										3					
L.O. 2	5										3					
L.O. 3	5										3					
L.O. 4	4										4					
L.O. 5	5										3					

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 : To be able to understand the physical rules that are the basis of technology.

L.O. 2 : Being able to establish the relationship between the laws of physics and technology

L.O. 3 : Ability to apply the rules of physics in professional courses.

L.O. 4 : Ability to produce solutions by using the laws of physics in the use or design of tools, machines and devices related to the profession.

L.O. 5 : Ability to solve engineering problems related to the subject

İndirilme Tarihi
14.10.2026 20:10:11

GMP1106 - Introduction to Shipbuilding - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Ships and vessel's elements to identify, able to make comparisons between ships

Course Contents

Relating to shipbuilding and engineering terms, Classification of ships in general to promote, sections of water line, breadth section, longitudinal sections,general arrangement plans, geometric properties of vessels, slenderness coefficient, tonnage and freeboard account,

Recommended or Required Reading

ERINÇ DOBRUCALI, Gemi İnşa Mühendisliğine Giriş:Gemi Formunun Hidrostatiği ve Stabilitesi

Planned Learning Activities and Teaching Methods

Lecture, question-and-answer, discussion, problem-solving, numerical calculation, and practical exercises.

Recommended Optional Programme Components

Continuing the lesson

Instructor's Assistants

Assist. Prof. Üyesi Onur Saylan

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. Understands ship geometry and sections
2. Learn ship types and compare them
3. Understands the basic concepts of shipbuilding
4. Knows the sailing conditions of ships
5. Recognizes marine vessels and small/large marine vessel construction sites

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Subject explanation, in-class practice and problem solving	Introduction to Shipbuilding Technology and Shipyards	In-class practice and problem solving
2	Pre-reading		Subject explanation, in-class practice and problem solving	Terms related to shipbuilding	In-class practice and problem solving
3	Pre-reading		Subject explanation, in-class practice and problem solving	Classification and general overview of ships	In-class practice and problem solving
4	Pre-reading		Subject explanation, in-class practice and problem solving	Classification and general overview of ships	In-class practice and problem solving
5	Pre-reading		Subject explanation, in-class practice and problem solving	Definitions Related to Ship Geometry	In-class practice and problem solving
6	Pre-reading		Subject explanation, in-class practice and problem solving	Condition for Floating – Archimedes' Principle	In-class practice and problem solving
7	Pre-reading		Subject explanation, in-class practice and problem solving	Condition for Floating – Archimedes' Principle	In-class practice and problem solving
8	Pre-reading		Subject explanation, in-class practice and problem solving	International Maritime Conventions	In-class practice and problem solving
9	Pre-reading		Subject explanation, in-class practice and problem solving	International Maritime Conventions	In-class practice and problem solving
10	Pre-reading		Subject explanation, in-class practice and problem solving	Ship Tonnages and Freeboard	In-class practice and problem solving
11	Pre-reading		Subject explanation, in-class practice and problem solving	Form Coefficients	In-class practice and problem solving
12	Pre-reading		Subject explanation, in-class practice and problem solving	Form Coefficients	In-class practice and problem solving
13	Pre-reading		Subject explanation, in-class practice and problem solving	Shipbuilding Process	In-class practice and problem solving
14	Pre-reading		Subject explanation, in-class practice and problem solving	Shipbuilding Process	In-class practice and problem solving

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	1	10,00
Ders Sonrası Bireysel Çalışma	1	10,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	10,00

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											4				
L.O. 2	5											4				
L.O. 3	5											4				
L.O. 4	5											4				
L.O. 5	5											4				

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.

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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 : Understands ship geometry and sections

L.O. 2 : Learn ship types and compare them

L.O. 3 : Understands the basic concepts of shipbuilding

L.O. 4 : Knows the sailing conditions of ships

L.O. 5 : Recognizes marine vessels and small/large marine vessel construction sites

İndirilme Tarihi
14.10.2026 20:11:49

GMP1107 - 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 introduce students to the occupational health and safety risks specific to shipyards; to provide fundamental knowledge and skills regarding safe working principles, legal regulations, risk assessment methods, and accident prevention. Students will gain the competence to develop safe engineering practices by internalizing a safety culture within shipbuilding processes.

Course Contents

Fundamental concepts of occupational health and safety; work accidents and occupational diseases in shipbuilding and repair shipyards; risk analysis of shipyard activities; work equipment and personal protective equipment (PPE); primary shipyard hazards such as fire, explosion, falls, and entrapment; workplace layout and safety; safety in confined space operations; working at height safety rules; precautions in hot work operations; occupational safety legislation and responsibilities; training and informing shipyard personnel; emergency planning and first aid; case studies of workplace accidents and root cause analysis; promotion of occupational health and safety culture.

Recommended or Required Reading

Required / Main Resources: • Ministry of Labor and Social Security (Türkiye), "Occupational Health and Safety Legislation", including current regulations and guidelines. • Publications by the General Directorate of Shipyards and Coastal Structures, Ministry of Transport and Infrastructure. • Documents from the Directorate General of Occupational Health and Safety (İSGGM). • Shipyard-specific OHS manuals and safety instructions. Recommended Additional Resources: • Goetsch, D. L. (2019). Occupational Safety and Health for Technologists, Engineers, and Managers (9th Edition). Pearson. • Waldron, H. A., & Edge, G. (2016). Occupational Health: The Role of Work in Health. CRC Press. • ILO Publications – Guidelines on Occupational Safety and Health Management Systems (ILO-OSH 2001). Course Materials: • Weekly PDF lecture slides (prepared by instructor), • Real accident reports and case study files, • Safety signs and procedural posters from shipyard practices.

Planned Learning Activities and Teaching Methods

• Lectures (in-class, theoretical) • Visual-aided presentations (videos, photos, infographics) • Case studies on shipyard accidents • Group discussions and active student participation • Introduction to safety signs and protective equipment specific to shipyards • In-class practical examples of risk assessment • Reading and interpretation of current safety regulations • Root cause analysis based on real accident reports • Discussions on integration of safety practices into shipbuilding processes

Recommended Optional Programme Components

• Although the course is theoretical, it should be enriched with visual and audio materials to simulate realistic shipyard environments. • Students should develop observational and analytical thinking skills through accident videos and case studies. • Updates in legislation and field practices should be regularly integrated into the course content. • Guest speakers (OHS experts, shipyard safety managers) may be invited for relevant sessions. • Students may be assigned to prepare a group-based risk assessment report specific to a shipyard activity. • By the end of the course, students should be able to identify shipbuilding-specific safety risks and suggest appropriate preventive measures.

Instructor's Assistants

Öğr.Gör.Deniz Güneş

Presentation Of Course

Face-to-face (formal education)

Dersi Veren Öğretim Elemanları

Inst. Deniz Güneş

Program Outcomes

1. Defines the basic concepts related to occupational health and safety.
2. Explains common work accidents and occupational diseases encountered in shipyards.
3. Analyzes risks arising in shipbuilding and repair processes.
4. Describes the selection and proper use of personal protective equipment (PPE).
5. Applies safe working practices in shipyard environments.
6. Interprets relevant occupational health and safety legislation.
7. Conducts root cause analysis using real-life case studies.
8. Contributes to the development of a safety culture in shipyards.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Presentation of the course syllabus		Lecture, presentation	Introduction to occupational health and safety; basic concepts	
2	Statistics, example incident reports		Visual analysis, case study	Work accidents and occupational diseases in shipyards	
3	Definition and steps of risk assessment		Group discussion, classroom exercises	Introduction to risk assessment in shipyard activities	
4	Sample risk matrix exercises		Applied examples, problem solving	Risk assessment methods (5x5 matrix, HAZOP, etc.)	
5	PPE types: head, eye, ear, respiratory, hand, foot, etc.		Visual materials, discussion	Personal protective equipment (PPE) and proper use	
6	Fire triangle, definition of explosive atmospheres		Video presentation, case analysis	Major hazards in shipyards: fire, explosion, chemical exposure	
7	Scaffolding, personal fall arrest systems		Presentation, real case studies	Working at height and fall prevention methods	
8				midterm exam	
9			Scenario-based classroom activity	Safety in confined space operations	
10	Permit-to-work systems, flammable material management		Visuals, technical diagrams	Hot work (welding, cutting, grinding) and related precautions	
11	Cranes, forklifts, presses – safety practices		Legal text reading and interpretation	Work equipment and machinery safety	
12	Law No. 6331, obligations specific to shipyards		Group activity, scenario evaluation	OHS legislation and responsibilities	
13	Elements of an emergency action plan		Case breakdown, fishbone diagrams	Emergency response, first aid, fire evacuation plans	
14	Accident chain, cause-effect analysis		Group discussion, final reinforcement	Case studies and root cause analysis	
15	Examples of safety culture, worker participation			Safety culture, behavioral safety, continuous improvement	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Ders Öncesi Bireysel Çalışma	12	2,00
Ders Sonrası Bireysel Çalışma	12	1,00
Ara Sınav Hazırlık	1	6,00
Final Sınavı Hazırlık	1	12,00
Derse Katılım	14	2,00
Ara Sınav (Bütünlemede Kullanılan)	0	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												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		
L.O. 7		5												3		
L.O. 8		5												3		

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.

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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 : Defines the basic concepts related to occupational health and safety.

L.O. 2 : Explains common work accidents and occupational diseases encountered in shipyards.

L.O. 3 : Analyzes risks arising in shipbuilding and repair processes.

L.O. 4 : Describes the selection and proper use of personal protective equipment (PPE).

L.O. 5 : Applies safe working practices in shipyard environments.

L.O. 6 : Interprets relevant occupational health and safety legislation.

L.O. 7 : Conducts root cause analysis using real-life case studies.

L.O. 8 : Contributes to the development of a safety culture in shipyards.

İndirilme Tarihi

23.10.2026 11:18:11

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

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										1						
L.O. 2										1						
L.O. 3										1						
L.O. 4										1						
L.O. 5										1						

Table :

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

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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
23.10.2026 11:21:46

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
23.10.2026 11:23:48

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
14.10.2026 20:12:59

GMP1110 - Marine Electrical Systems - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Purpose of giving general electricity information.

Course Contents

Atomic structure, conductivity and insulation, resistances, ohm's law, alternating currents and electric motors, two-phase and three-phase motors and general properties

Recommended or Required Reading

General Course Notes

Planned Learning Activities and Teaching Methods

Theoretical and practical question solutions

Recommended Optional Programme Components

General Course Notes

Instructor's Assistants

Öğr.Gör. Deniz Güneş

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Deniz Ersoy Inst. Deniz Güneş

Program Outcomes

1. Learning the fundamentals of electricity and electrical systems and machines.
2. Learning how to calculate electrical energy consumption on board according to ship types.
3. Students learn about basic electronic components and electronic systems.
4. They learn basic information about ship power systems.
5. They learn about electricity distribution systems.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lecture, Discussion, Question and Answer		Sample question solution
2	previous week's topic review		Lecture, Discussion, Question and Answer	Conductivity and Insulation	Sample question solution
3	previous week's topic review		Lecture, Discussion, Question and Answer	Resistors and Their Calculations	Sample question solution
4	previous week's topic review		Lecture, Discussion, Question and Answer	Ohm's Law	Sample question solution
5	previous week's topic review		Lecture, Discussion, Question and Answer		Sample question solution
6	previous week's topic review		Lecture, Discussion, Question and Answer		Sample question solution
7	previous week's topic review		Lecture, Discussion, Question and Answer		Sample question solution
8				Ara sınav	
9	previous week's topic review		Lecture, Discussion, Question and Answer	Transformers, Cables	Sample question solution
10	previous week's topic review		Lecture, Discussion, Question and Answer	Voltage drop calculations,	Sample question solution
11	previous week's topic review		Lecture, Discussion, Question and Answer	Tables, Switches	Sample question solution
12	previous week's topic review		Lecture, Discussion, Question and Answer	Fuses measuring instruments,	Sample question solution
13	previous week's topic review		Lecture, Discussion, Question and Answer	Motor starting circuits	Sample question solution
14	previous week's topic review		Lecture, Discussion, Question and Answer	Network systems	Sample question solution
15	previous week's topic review		Lecture, Discussion, Question and Answer	Ship Electrical Project Examples	Sample question solution

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	5,00
Final Sınavı Hazırlık	1	8,00
Problem Çözme	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												5			
L.O. 2	5												5			
L.O. 3	5												3			
L.O. 4	5												3			
L.O. 5	5												3			

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 : Learning the fundamentals of electricity and electrical systems and machines.

L.O. 2 : Learning how to calculate electrical energy consumption on board according to ship types.

L.O. 3 : Students learn about basic electronic components and electronic systems.

L.O. 4 : They learn basic information about ship power systems.

L.O. 5 : They learn about electricity distribution systems.

İndirilme Tarihi

21.10.2026 17:57:02

GMP1111 - Marine Boilers and Installations - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

It learns boilers and fit water systems used for heating used in ships

Course Contents

Characteristics of boilers used in vessels, learning of elements, placement on board, used fuel types and other systems

Recommended or Required Reading

Prof. Dr. F. KÜÇÜKŞAHİN Gemi Makineleri Operasyonları-2 Güven yayınları 2000 İstanbul

Planned Learning Activities and Teaching Methods

Theory and practice

Recommended Optional Programme Components

Prof. Dr. F. KÜÇÜKŞAHİN Gemi Makineleri Operasyonları-2 Güven yayınları 2000 İstanbul

Instructor's Assistants

Doç.Dr. Bilal AYDOĞAN

Presentation Of Course

face to face

Dersi Veren Öğretim Elemanları

Inst. Deniz Güneş

Program Outcomes

1. Types of boilers used in ships
2. Boiler components and features
3. Boiler fuel systems
4. Boiler maintenance and repair
5. Drawing and reading projects

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lecture, Discussion, Q&A	Types of boilers used on ships,	
2	General review of the previous week		Lecture, Discussion, Q&A	The intended uses of the boiler,	Sample question solution
3	General review of the previous week		Lecture, Discussion, Q&A	Boiler components	Sample question solution
4	General review of the previous week		Lecture, Discussion, Q&A	Characteristics of boiler components	Sample question solution
5	General review of the previous week		Lecture, Discussion, Q&A	Installing the boilers on the ship,	Sample question solution
6	General review of the previous week		Lecture, Discussion, Q&A	Installing the boilers on the ship,	Sample question solution
7	General review of the previous week		Lecture, Discussion, Q&A	Steam circuit and its components	Sample question solution
8				Midterm exam	
9	General review of the previous week		Lecture, Discussion, Q&A	Fid water circuit and components,	Sample question solution
10	General review of the previous week		Lecture, Discussion, Q&A	Fuel system and its components.	Sample question solution
11	General review of the previous week		Explanation of project reading details, Q&A	Sample project readings	Reading sample projects in groups
12	Discussion of errors in reading the sample project		Explanation of project reading details, Q&A	Sample project readings	Reading sample projects in groups
13	Discussion of errors in reading the sample project		Explanation of project reading details, Q&A		Reading sample projects in groups
14	Discussion of errors in reading the sample project		Explanation of project reading details, Q&A	Sample project readings	Reading sample projects in groups
15	Discussion of errors in reading the sample project		Explanation of project reading details, Q&A	General review and preparation for the final	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00
Uygulama / Pratik	0	0,00
Final Sınavı Hazırlık	1	7,00
Ders Öncesi Bireysel Çalışma	14	1,00
Küçük Grup Çalışması	4	2,00
Vize	1	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Ara Sınav Hazırlık	1	5,00
Derse Katılım	14	3,00
Final	1	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	4												4			
L.O. 2	4												4			
L.O. 3	4												4			
L.O. 4	4												4			
L.O. 5	4												4			

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 : Types of boilers used in ships

L.O. 2 : Boiler components and features

L.O. 3 : Boiler fuel systems

L.O. 4 : Boiler maintenance and repair

L.O. 5 : Drawing and reading projects

İndirilme Tarihi
21.10.2026 17:58:42

GMP1112 - Ship Outfitting - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to introduce students to the fundamental concepts of ship outfitting, its role in the shipbuilding process, and the main outfitting systems. The course aims to provide students with basic knowledge of deck equipment, machinery and auxiliary systems, piping outfitting, accommodation outfitting, and safety equipment, while enabling them to evaluate the functions, arrangements, and technical criteria considered in the selection of ship outfitting components.

Course Contents

Definition and scope of ship outfitting; the role of outfitting in the shipbuilding process; outfitting drawings and technical documentation; deck equipment; anchoring and mooring systems; steering and maneuvering equipment; cargo-handling equipment; piping systems and ship circuits; auxiliary equipment in the engine room; introduction to electrical and control equipment; accommodation outfitting; firefighting and lifesaving equipment; outfitting materials and fasteners; outfitting arrangement, installation, quality control, and relevant standards.

Recommended or Required Reading

Eyres, D. J. ve Bruce, G. J. Ship Construction. Butterworth-Heinemann. Rawson, K. J. ve Tupper, E. C. Basic Ship Theory. Butterworth-Heinemann. SOLAS – International Convention for the Safety of Life at Sea. Rules and technical documentation of relevant ship classification societies. Technical drawings, manufacturer catalogues, and shipyard application documents regarding ship outfitting.

Planned Learning Activities and Teaching Methods

Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.

Recommended Optional Programme Components

It is recommended that ship outfitting systems be examined through real-ship examples, technical drawings, arrangement plans, and visual materials. The course aims to help students understand the functions of outfitting components, the relationships between systems, and the principles of installation and arrangement, while raising awareness of basic quality control and occupational health and safety requirements. Supporting the course with shipyard practices and industry examples will help students relate theoretical knowledge to professional applications.

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 types of ship outfitting and its role in the shipbuilding process.
2. Explain the basic functions of deck equipment, anchoring, mooring, steering, and maneuvering systems.
3. Identify ship piping systems and auxiliary machinery equipment in terms of their basic functions.
4. Classify accommodation, cargo-handling, firefighting, and lifesaving equipment according to their functions.
5. Interpret technical drawings, arrangement plans, and basic technical documentation related to ship outfitting.
6. Explain the basic principles of installation, material selection, quality control, and occupational safety in ship outfitting.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Definition, scope, and role of ship outfitting	Introduction to outfitting components
2	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Shipbuilding process, outfitting stages, and arrangement plans	Examination of sample outfitting plans
3	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Outfitting materials, fasteners, and basic selection criteria	Identification of materials and fasteners
4	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Deck equipment and auxiliary deck machinery	Classification of deck equipment
5	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Anchoring, chains, windlasses, and mooring systems	Examination of system components and functions
6	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Steering, propeller, and maneuvering equipment	Examination of basic system diagrams
7	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Cargo-handling equipment and cargo-space outfitting	Classification by intended use
8	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Ship piping systems, circuits, and piping components	Examination of sample piping circuits
9	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Auxiliary equipment in the engine room	Identification of equipment functions
10	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Introduction to electrical, control, and monitoring equipment	Identification of equipment and symbols
11	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Accommodation outfitting, ergonomics, and operating conditions	Examination of an accommodation arrangement
12	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Firefighting, lifesaving, and emergency equipment	Classification of safety equipment by function
13	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Outfitting installation, quality control, and occupational health and safety	Evaluation of installation and inspection stages
14	Pre-reading		Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.	Integrated evaluation of outfitting systems and review	Integrated examination of a sample ship outfitting plan

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Sonrası Bireysel Çalışma	14	2,00
Derse Katılım	14	3,00
Final Sınavı Hazırlık	1	10,00
Ara Sınav 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 / 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											5		4		
L.O. 2	5											5		4		
L.O. 3	5											5		4		
L.O. 4	5											5		4		
L.O. 5	5											5		4		
L.O. 6	5											5		4		

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 : Explain the fundamental concepts and types of ship outfitting and its role in the shipbuilding process.

L.O. 2 : Explain the basic functions of deck equipment, anchoring, mooring, steering, and maneuvering systems.

L.O. 3 : Identify ship piping systems and auxiliary machinery equipment in terms of their basic functions.

L.O. 4 : Classify accommodation, cargo-handling, firefighting, and lifesaving equipment according to their functions.

L.O. 5 : Interpret technical drawings, arrangement plans, and basic technical documentation related to ship outfitting.

L.O. 6 : Explain the basic principles of installation, material selection, quality control, and occupational safety in ship outfitting.

İndirilme Tarihi

21.10.2026 17:59:47

GMP1113 - Maritime Law - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To teach the basic concepts of maritime public law, maritime jurisdictions, maritime international organizations, maritime environmental law, maritime social security law

Course Contents

Maritime law

Recommended or Required Reading

Lecturer's notes

Planned Learning Activities and Teaching Methods

Reading, Presentation,Lecture / Direct instruction, Discussion, Brainstorming, Question and answer (Q&A), Case study

Recommended Optional Programme Components

N/A N/A

Instructor's Assistants

N/A N/A

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Üstün Atak

Program Outcomes

1. Learns the sources and properties of maritime public law.
2. Learns marine environmental law and its properties.
3. Learns the characteristics of maritime social security law.
4. Understand international maritime law and compare it with Turkish law.
5. Investigate about maritime accidents

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	N/A		Discussion, Brainstorming, Question and answer (Q&A)	Syllabus	
2	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Definition, sources and types of law	Definition, sources and types of law
3	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Definition, sources and types of law	Definition, sources and types of law
4	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Maritime law sections and subjects. Maritime Public Law, Maritime Administrative Law, Maritime Administrative Organization, duties and powers.	Maritime law sections and subjects. Maritime Public Law, Maritime Administrative Law, Maritime Administrative Organization, duties and powers.
5	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Safety of life and property at sea. Customs procedures and financial obligations.	Safety of life and property at sea. Customs procedures and financial obligations.
6	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Internal waters, territorial waters, international passages.	Internal waters, territorial waters, international passages.

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
7	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Contiguous zone, exclusive economic zone, international waters.	Contiguous zone, exclusive economic zone, international waters.
8	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Mid-term exam	Mid-term exam
9	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Vessel, owner.	Vessel, owner.
10	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Operator	Operator
11	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Responsibility of seafarers and captain	Responsibility of seafarers and captain
12	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Responsibility of seafarers and captain	Responsibility of seafarers and captain
13	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Freight contract	Freight contract
14	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Freight contract	Freight contract
15	Last Week Topic		Discussion, Brainstorming, Question and answer (Q&A)	Marine Accidents Course general review	Marine Accidents Course general review

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	10,00
Ödev	5	1,00
Derse Katılım	5	2,00
Final	1	10,00
Ders Öncesi Bireysel Çalışma	10	1,00
Ders Sonrası Bireysel Çalışma	10	1,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	10,00

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 / 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								5				5		
L.O. 2		5								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, 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 : Learns the sources and properties of maritime public law.

L.O. 2 : Learns marine environmental law and its properties.

L.O. 3 : Learns the characteristics of maritime social security law.

L.O. 4 : Understand international maritime law and compare it with Turkish law.

L.O. 5 : Investigate about maritime accidents

İndirilme Tarihi
21.10.2026 18:00:40

GMP1114 - 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		Lecture, Discussion, Question and answer	Classification of Living Organisms	
3	Replay of the previous week		Lecture, Discussion, Question and answer	Ambiant and Environment	
4	Replay of the previous week		Lecture, Discussion, Question and answer	Population Structure	
5	Replay of the previous week		Lecture, Discussion, Question and answer	Biological Relationships	
6	Replay of the previous week		Lecture, Discussion, Question and answer	Community Ecology	
7	Replay of the previous week		Lecture, Discussion, Question and answer	Ecosystem	
8	Replay of the previous week		Lecture, Discussion, Question and answer	Aquatic Science	
9	Replay of the previous week		Lecture, Discussion, Question and answer	Marine Ecosystem	
10	Replay of the previous week		Lecture, Discussion, Question and answer	Structure and Components of the Marine Ecosystem	
11	Replay of the previous week		Lecture, Discussion, Question and answer	Oceanography (Geological-Chemical-Physical)	
12	Replay of the previous week		Lecture, Discussion, Question and answer	Biological Oceanography	
13	Replay of the previous week		Lecture, Discussion, Question and answer	Environment, Marine Ecosystem, and Underwater	
14	Replay of the previous week		Lecture, Discussion, Question and answer	Biodiversity	

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	3,00
Final	1	3,00

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										4	3					
L.O. 2										4	3					
L.O. 3		2								5	4					
L.O. 4										5	4					
L.O. 5										5	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 : 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
21.10.2026 18:01:32

GMP1201 - Technical Drawing - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Understanding the basic drawing principles related to technical drawing, being able to derive the perspective view of any object, and being able to interpret a drawing.

Course Contents

Introducing the program to be used in drawing. To be able to understand projection and projection types, appearance extraction methods. Ability to measure views and perspectives. Drawing the appearance of the parts given in perspective. Ability to draw perspective from view.

Recommended or Required Reading

Özdaş N. Prof.Dr., Gediktaş M. Prof.Dr., Teknik Resim Şen İ.Z., Özçilingir N., Temel Teknik Resim

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Pre-reading and drawing

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Serkan Yüksel

Program Outcomes

1. Learn basic drawing rules
2. Projection and projection types, appearance, able to comprehend the methods of extraction
3. Ability to dimension views and know and apply Standard dimensioning rules (TS 88)
4. Drawing auxiliary and special views
5. To understand the importance of perspective, and perspective drawings to make pictures

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Subject explanation and drawing practices	Introduction to the program to be used for drawing	Examples of introducing the program to be used for drawing
2	Topic repetition and pre-reading		Subject explanation and drawing practices	Introduction to projection and types of projection	Introduction to projection and types of projection, with examples.
3	Topic repetition and pre-reading		Subject explanation and drawing practices	Teaching methods for generating views	Examples of teaching methods for view generation
4	Topic repetition and pre-reading		Subject explanation and drawing practices	Ability to generate views of simple perspectives using a drawing program	Examples of generating simple perspective views using a drawing program
5	Topic repetition and pre-reading		Subject explanation and drawing practices	Ability to generate views of simple perspectives using a drawing program	Examples of generating simple perspective views using a drawing program
6	Topic repetition and pre-reading		Subject explanation and drawing practices	Ability to generate views of simple perspectives using a drawing program	Examples of generating simple perspective views using a drawing program
7	Topic repetition and pre-reading		Subject explanation and drawing practices	Ability to dimension views	Examples of dimensioning views
8	Midterm exam preparation		Midterm exam	Midterm Exam	Midterm Exam
9	Topic repetition and pre-reading		Subject explanation and drawing practices	Extracting the views of the parts with given perspective	Extracting the views of the parts with given perspective
10	Topic repetition and pre-reading		Subject explanation and drawing practices	Extracting the views of the parts with given perspective	Extracting the views of the parts with given perspective
11	Topic repetition and pre-reading		Subject explanation and drawing practices	Auxiliary and special views can be extracted	Examples of generating auxiliary and special views
12	Topic repetition and pre-reading		Subject explanation and drawing practices	Auxiliary and special views can be extracted	Examples of generating auxiliary and special views
13	Topic repetition and pre-reading		Subject explanation and drawing practices	Teaching perspective drawing methods	Examples of teaching perspective drawing methods
14	Topic repetition and pre-reading		Subject explanation and drawing practices	Teaching perspective drawing methods	Examples of teaching perspective drawing methods
15	Topic repetition and pre-reading		Subject explanation and drawing practices	Teaching sectioning methods	Examples of teaching sectioning methods

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Vize	1	1,00
Final	1	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Ara Sınav Hazırlık	1	1,00
Final Sınavı Hazırlık	1	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									2				
L.O. 2			5									2				
L.O. 3			5									2				
L.O. 4			5									2				
L.O. 5			5									2				

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 : Learn basic drawing rules

L.O. 2 : Projection and projection types, appearance, able to comprehend the methods of extraction

L.O. 3 : Ability to dimension views and know and apply Standard dimensioning rules (TS 88)

L.O. 4 : Drawing auxiliary and special views

L.O. 5 : To understand the importance of perspective, and perspective drawings to make pictures

İndirilme Tarihi

21.10.2026 18:03:06

GMP1202 - Ship Geometry - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To give students the ability to draw form plans of various types of ships

Course Contents

Introduction, definitions of ship geometry, ship form coefficients, methods of obtaining ship form, ship drawing tools and materials, standard text and line, Main values table and offset table, Drawings of stern and stem and base line and sheer, Drawing of cross sections, Drawing of water lines, Drawing of batoks, Drawing of diagonals.

Recommended or Required Reading

Ship Geometry, M. AYDIN, TMMOB Chamber of Naval Architects Publication

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Prereading and drawing

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Serkan Yüksel

Program Outcomes

1. Learning the geometric form parameters of ships
2. Learning ship offset tables
3. Ability to draw cross-section lines
4. Ability to draw Batok curves
5. Ability to draw ship waterlines

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Subject explanation and drawing practices	Introduction. Definitions related to ship geometry.	Introduction.
2	Topic repetition and pre-reading		Subject explanation and drawing practices	Methods of obtaining the ship form.	Methods of obtaining the ship form.
3	Topic repetition and pre-reading		Subject explanation and drawing practices	Preparation of the main values table and offset table	Preparation of the main values table and offset table
4	Topic repetition and pre-reading		Subject explanation and drawing practices	Preparation of the main values table and offset table	Preparation of the main values table and offset table
5	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of the cross-sectional curves	Drawing of the cross-sectional curves
6	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of various cross-section curves	Drawing of various cross-section curves
7	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of various cross-section curves	Drawing of various cross-section curves
8	Midterm exam preparation		Midterm exam	Midterm Exam	Midterm Exam
9	Topic repetition and pre-reading		Subject explanation and drawing practices	Stern and bow transoms, and foundation line and location drawings	Stern and bow transoms, and foundation line and location drawings
10	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of Batok curves	Drawing of Batok curves
11	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of Batok curves	Drawing of Batok curves
12	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of waterline curves	Drawing of waterline curves
13	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of waterline curves	Drawing of waterline curves
14	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of diagonal curves	Drawing of diagonal curves
15	Topic repetition and pre-reading		Subject explanation and drawing practices	Drawing of diagonal curves	Drawing of diagonal curves

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	3,00
Ara Sınav Hazırlık	1	3,00
Final Sınavı Hazırlık	1	3,00

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	4											5				2
L.O. 2	4											5				2
L.O. 3	4											5				2
L.O. 4	4											5				2
L.O. 5	4											5				2

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 : Learning the geometric form parameters of ships

L.O. 2 : Learning ship offset tables

L.O. 3 : Ability to draw cross-section lines

L.O. 4 : Ability to draw Batok curves

L.O. 5 : Ability to draw ship waterlines

İndirilme Tarihi

21.10.2026 18:04:18

GMP1203 - Manufacturing Processes II - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Learning the cutting, bending and joining methods of metal sheets and profiles used in ship construction.

Course Contents

Plasma cutting, Laser cutting, Oksi-fuel cutting and welding ,cutting with hand-saw, cutting with brush saw , cutting with belt saw , cutting with grinding stone, cutting with hand shear, cutting with hand lever shear, cutting with hydraulic ironworker, cutting with guillotine shear, cutting with water-jet, cutting with carbon arc. Materials calculations with nesting/optimization in cutting operations and applications. Bending of sheet metal and bending callulations

Recommended or Required Reading

Mikell P. G. (2021). Modern İmalatın Prensipleri. Nobel Akademik Yayıncılık.

Planned Learning Activities and Teaching Methods

Face to face, Animations, Videos, Applications

Recommended Optional Programme Components

Students must attend basic OHS training before entering the course practices.

Instructor's Assistants

Öğr. Gör. Dr. Müslüm KOÇ

Presentation Of Course

Face to face Workshop applicaiton

Dersi Veren Öğretim Elemanları

Inst. Müslüm Koç

Program Outcomes

1. Knows the codes of welding processes and welding position codes.
2. Calculate carbon equivalence and preheat temperature
3. Can read WPS and WPQR forms
4. Knows the types of welding seams according to European norms
5. Can draw and read welding symbols on technical drawings.
6. Knows and applies thermal cutting processes for sheet metal and profiles.
7. Can perform optimization/nesting operations in metal material cutting
8. Knows and applies mechanical cutting of sheet metals and profiles
9. Knows and applies profile cutting operations involving chip removal.
10. Knows the bending methods of sheet metal and profiles.
11. Can calculate sheet metal part expansions
12. Knows the formation of distortion and its elimination processes in welded manufacturing
13. Know the corrosion mechanisms that occur in ships and the sand blasting and painting processes used to protect against corrosion.
14. Knows piping equipment works in ship construction
15. Knows the points requiring attention regarding ship structural elements during the welding process.
16. Know the HDPE (High-density polyethylene) boats and their production methods.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Creating a course syllabus		Presentation, Question and answer	Introduction to the course syllabus, Welding codes and application positions according to European norms (EN 4063, EN 6947), carbon equivalence and preheating temperature calculation. WPS reading ability.	
2	Repeat of last week's		Presentation, Question and answer	Introduction to the course syllabus, Welding codes and application positions according to European norms (EN 4063, EN 6947), carbon equivalence and preheating temperature calculation. WPS reading ability.	
3	Repeat of last week's		Presentation, Question and answer	Welding bevel and welded manufacturing representations in the project according to European Norms (EN 9692, EN 22553)	
4	Repeat of last week's		Presentation, Question and answer	Welding of longitudinal and transverse ship members with side plates, deck plates, and cladding. Joining of blocks. Welding and distortions in the base material.	
5	Repeat of last week's		Presentation, Question and answer	Protection of metal ships from corrosion, blasting and painting operations	
6	Repeat of last week's		Presentation, Question and answer	Thermal cutting methods (Oxy-gas, Plasma, Laser and carbon electrode)	
7	Preparation of the machinery and parts required for the application		Workshop application		Thermal cutting methods (Oxy-gas, Plasma and carbon electrode) applications
8				Exam	
9	Preparation of the machinery and parts required for the application		Workshop application		Thermal cutting methods (Oxy-gas, Plasma and carbon electrode) applications
10	Preparation of the machinery and parts required for the application		Workshop application		Thermal cutting methods (Oxy-gas, Plasma and carbon electrode) applications
11	Preparation of the machinery and parts required for the application		Workshop application		Thermal cutting methods (Oxy-gas, Plasma and carbon electrode) applications
12	Repeat of last week's		Presentation, Workshop application	Cutting methods by removing chips (hand saw, hydraulic arm saw, circular saw, band saw, cutting stone and water jet) and mechanical cutting methods (sheet metal shears, arm shears, hydraulic combined shears and guillotine shears)	Daire testere kesici taş ve kollu makas uygulamaları
13	Repeat of last week's		Presentation, Question and answer	Piping in shipbuilding	
14	Repeat of last week's		Presentation, Question and answer	Bending operations with press brakes, rotational bending operations of profiles, pipes, and sheets. Opening measurements of the sheets and pipes to be bent	
15	Repeat of last week's		Presentation, Question and answer	Production methods for HDPE (high-density polyethylene) boats	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Sonrası Bireysel Çalışma	14	2,00
Final Sınavı Hazırlık	1	6,00
Derse Katılım	14	4,00
Ara Sınav Hazırlık	1	4,00
Ders Öncesi Bireysel Çalışma	14	2,00

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												5			
L.O. 2	5												5			
L.O. 3	5												5			
L.O. 4	5												5			
L.O. 5	5												5			
L.O. 6	5												5			
L.O. 7	5												5			
L.O. 8	5												5			
L.O. 9	5												5			
L.O. 10	5												5			
L.O. 11	5												5			
L.O. 12	5												5			
L.O. 13	5												5			
L.O. 14	5												5			
L.O. 15	5												5			
L.O. 16	5												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 : Knows the codes of welding processes and welding position codes.

L.O. 2 : Calculate carbon equivalence and preheat temperature

L.O. 3 : Can read WPS and WPQR forms

L.O. 4 : Knows the types of welding seams according to European norms

L.O. 5 : Can draw and read welding symbols on technical drawings.

L.O. 6 : Knows and applies thermal cutting processes for sheet metal and profiles.

L.O. 7 : Can perform optimization/nesting operations in metal material cutting

L.O. 8 : Knows and applies mechanical cutting of sheet metals and profiles

L.O. 9 : Knows and applies profile cutting operations involving chip removal.

L.O. 10 : Knows the bending methods of sheet metal and profiles.

L.O. 11 : Can calculate sheet metal part expansions

L.O. 12 : Knows the formation of distortion and its elimination processes in welded manufacturing

L.O. 13 : Know the corrosion mechanisms that occur in ships and the sand blasting and painting processes used to protect against corrosion.

L.O. 14 : Knows piping equipment works in ship construction

L.O. 15 : Knows the points requiring attention regarding ship structural elements during the welding process.

L.O. 16 : Know the HDPE (High-density polyethylene) boats and their production methods.

İndirilme Tarihi
21.10.2026 18:07:33

GMP1204 - Manufacturing Quality Control - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Learning manufacturing quality control processes within the framework of Euro standards (EN) and Loyd rules in shipbuilding and metal forming works.

Course Contents

Türk Loydu rules, destructive and non-destructive control methods and standards, quantitative measurement processes.

Recommended or Required Reading

Türk Loydu Rules Volume A part 1, part 2 and part 3. Tahribatsız muayeneler. Prof. Dr Ahmet TOPUZ, Yıldız Teknik Üniversitesi Yayınları Sayı:281

Planned Learning Activities and Teaching Methods

Face-to-face training, Animations, Presentations, Laboratory technical tour for destructive and non-destructive testing

Recommended Optional Programme Components

Students must participate in technical trips for course practices.

Instructor's Assistants

Öğr. Gör. Dr. Müslüm KOÇ

Presentation Of Course

Face-to-face, Workshop practices

Dersi Veren Öğretim Elemanları

Inst. Müslüm Koç

Program Outcomes

1. Understand the concept of quality and quality standardized to make appropriate production
2. Knows the relevant standards from European norm standards
3. Knows the rules of ship classification societies
4. Knows the non-destructive testing used in manufacturing industry in shipyard and metalworking sector
5. Knows the destructive inspection methods used in manufacturing industry in shipyard and metal processing sector
6. Can control by meter, calipers and micrometers of the dimensions of parts or welding

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Creating a course syllabus		Presentation,Question and answer	Introduction to the course syllabus, Quality understanding and general quality standards in welded manufacturing and metal forming processes	
2	Önceki haftanın tekrarı		Presentation,Question and answer	Quality and quality standards during steel material procurement (EN 10025-x, 10204, 10163)	
3	Önceki haftanın tekrarı		Presentation,Question and answer	Weld defect types according to the EN 6520 standard. Causes and prevention of defects.	
4	Önceki haftanın tekrarı		Presentation,Question and answer	Evaluation of welding imperfections according to the EN 5817 standard, based on the EN 6520 standard.	
5	Önceki haftanın tekrarı		Presentation,Question and answer	EN 3834.X, EN 14731, EN 15609, EN 15614, EN 5817, EN 9606, EN 14732 standards.	
6	Önceki haftanın tekrarı		Presentation,Question and answer	EN 3834.X, EN 14731, EN 15609, EN 15614, EN 5817, EN 9606, EN 14732 standards.	
7	Önceki haftanın tekrarı		Presentation,Question and answer		
8				exam	
9	Önceki haftanın tekrarı		Workshop application		Application of visual inspection and penetrant testing
10	Önceki haftanın tekrarı		Presentations, videos, and animations		Ultrasonic and Radrographic testing methods application videos and animations
11	Önceki haftanın tekrarı		Presentations, videos, and animations		Application videos and animations of destructive testing methods
12	Önceki haftanın tekrarı		Presentation,Question and answer	Rules regarding welded fabrication and materials contained in Türk Loydu Volume A, Part 1, Part 2, and Part 3.	
13	Önceki haftanın tekrarı		Presentation,Question and answer	Rules regarding welded fabrication and materials contained in Türk Loydu Volume A, Part 1, Part 2, and Part 3.	
14	Önceki haftanın tekrarı		Presentation,Question and answer	Rules regarding welded fabrication and materials contained in Türk Loydu Volume A, Part 1, Part 2, and Part 3.	
15	Önceki haftanın tekrarı		Presentation, implementationği	Use of rulers, micrometers, calipers, and welding gauges for quantitative measurement in quality control.	Use of calipers and micrometers

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Ara Sınav Hazırlık	1	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Final Sınavı Hazırlık	1	6,00
Ders Öncesi Bireysel Çalışma	14	1,00
Vize	1	1,00
Final	1	1,00

Assesments

Activities	Weight (%)
Vize	40,00
Kısa Sınav	0,00
Ödev	0,00
Derse Katılım	0,00
Uygulama / Pratik	0,00
Araştırma Sunumu	0,00
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						5						5		
L.O. 2		5						5						5		
L.O. 3		5						5						5		
L.O. 4		5						5						5		
L.O. 5		5						5						5		
L.O. 6		4						5						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 : Understand the concept of quality and quality standardized to make appropriate production

L.O. 2 : Knows the relevant standards from European norm standards

L.O. 3 : Knows the rules of ship classification societies

L.O. 4 : Knows the non-destructive testing used in manufacturing industry in shipyard and metalworking sector

L.O. 5 : Knows the destructive inspection methods used in manufacturing industry in shipyard and metal processing sector

L.O. 6 : Can control by meter, calipers and micrometers of the dimensions of parts or welding

İndirilme Tarihi

21.10.2026 18:13:12

GMP1205 - Thermodynamics - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Students; fluid thermal processes, first and second law of thermodynamics, heat and work relations, Carnot cycle learn.

Course Contents

The definition and the basic principles of thermodynamics, the first and second law of thermodynamics and thermodynamic systems, thermodynamic cycles with

Recommended or Required Reading

Yunus A. Çengel,THERMODYNAMIC / ENGINEERING APPROACH

Planned Learning Activities and Teaching Methods

Theoretical and problem solving practices

Recommended Optional Programme Components

Yunus A. Çengel,THERMODYNAMIC / ENGINEERING APPROACH

Instructor's Assistants

Assoc. Prof. Bilal AYDOĞAN

Presentation Of Course

Face to face-formal education

Dersi Veren Öğretim Elemanları

Prof. Dr. Bilal Aydoğan

Program Outcomes

1. Solving heat treatment calculations of systems
2. Making work and heat transfer calculations of devices
3. Solving thermodynamic cycle calculations
4. Can master the concepts of thermodynamics
5. Reading thermodynamic tables

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1			Oral presantation, question-answer	Course Syllabus- Definition and basic principles of thermodynamics	Definition and basic principles of thermodynamics with examples
2	Replay of the previous week		Oral presantation, question-answer	Basic concepts of thermodynamics	Basic concepts of thermodynamics question solving
3	Replay of the previous week		Oral presantation, question-answer	Basic concepts of thermodynamics	Basic concepts of thermodynamics question solving
4	Replay of the previous week		Oral presantation, question-answer	Basic concepts of thermodynamics	Basic concepts of thermodynamics question solving
5	Replay of the previous week		Oral presantation, question-answer	Energy transformations and analysis - energy transfer by heat	Energy transformations and analysis - energy transfer by heat with examples
6	Replay of the previous week		Oral presantation, question-answer	Energy transformations and analysis - energy transfer by heat	Energy transformations and analysis - energy transfer by heat with examples
7	Replay of the previous week		Oral presantation, question-answer	Energy transformations and analysis - energy transfer by heat question solving	Energy transformations and analysis - energy transfer by heat question solving
8				Mid-Exam	
9	Replay of the previous week		Oral presantation, question-answer	The first law of thermodynamics	The first law of thermodynamics with examples
10	Replay of the previous week		Oral presantation, question-answer	The first law of thermodynamics	The first law of thermodynamics with examples
11	Replay of the previous week		Oral presantation, question-answer	The second law of thermodynamics	The second law of thermodynamics with examples
12	Replay of the previous week		Oral presantation, question-answer	The second law of thermodynamics question solving	The second law of thermodynamics question solving
13	Replay of the previous week		Oral presantation, question-answer	Properties of pure substances	Properties of pure substances question solving
14	Replay of the previous week		Oral presantation, question-answer	Properties of pure substances	Properties of pure substances question solving
15	Replay of the previous week		Oral presantation, question-answer	Properties of pure substances	Properties of pure substances question solving

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Vize	1	1,00
Final	1	1,00
Ara Sınav Hazırlık	1	12,00
Final Sınavı Hazırlık	1	12,00

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															

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 : Solving heat treatment calculations of systems

L.O. 2 : Making work and heat transfer calculations of devices

L.O. 3 : Solving thermodynamic cycle calculations

L.O. 4 : Can master the concepts of thermodynamics

L.O. 5 : Reading thermodynamic tables

İndirilme Tarihi
21.10.2026 18:13:53

GMP1206 - Ship Components - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Students have knowledge of Ship Structural Elements to ensure.

Course Contents

Ship and elements. The effect of structural factors that ship design. Frame systems (transverse and longitudinal frame systems). Calassification organizations according to the rules of construction. Dimensions of vessel elements. Ship structure details. Broadside dimensions. Dimensions of deck elements. Partitions. Vessel equipment.Practice

Recommended or Required Reading

Eyres, D. J., & Bruce, G. J. (2012). Ship Construction (7th ed.). Butterworth-Heinemann. Özalp, T. (1977). Gemi Yapısı ve Elemanları. İTÜ Yayınları. Van Dokkum, K. Ship Knowledge: A Modern Encyclopedia. Dokmar.

Planned Learning Activities and Teaching Methods

Lecture, question and answer, discussion, examination of technical drawings and diagrams, case studies, use of visual materials, problem-solving, and individual or group work.

Recommended Optional Programme Components

Continuing the lesson

Instructor's Assistants

Presentation Of Course

face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. Recognize ship structural elements and structural systems.
2. By modeling the loads on ship structural elements, dimensioning can be done using basic strength principles and class rules.
3. Recognize the structures of different types of ships.
4. Students will become familiar with the use of various building materials.
5. Can draw the midship section's structural elements of a boat with dimensions.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus Review of the course syllabus Review of the course syllabus		Subject explanation, in-class practice and problem solving	Ship sections	iI-class practice and problem solving
2	Pre-reading		Subject explanation, in-class practice and problem solving	Ship sections	iI-class practice and problem solving
3	Pre-reading		Subject explanation, in-class practice and problem solving	Factors affecting hull structural design	iI-class practice and problem solving
4	Pre-reading		Subject explanation, in-class practice and problem solving	Framing systems in shipbuilding (transverse and longitudinal framing systems)	iI-class practice and problem solving
5	Pre-reading		Subject explanation, in-class practice and problem solving	Ship Structural Elements	iI-class practice and problem solving
6	Pre-reading		Subject explanation, in-class practice and problem solving	Ship Structural Elements	iI-class practice and problem solving
7	Pre-reading		Subject explanation, in-class practice and problem solving	Moment of Inertia and Moment of Strength	iI-class practice and problem solving
8	Pre-reading		Subject explanation, in-class practice and problem solving	Shipbuilding Materials	iI-class practice and problem solving
9	Pre-reading		Subject explanation, in-class practice and problem solving	Construction according to the rules of classification societies	iI-class practice and problem solving
10	Pre-reading		Subject explanation, in-class practice and problem solving	Dimensioning of ship elements (Bottom structure)	iI-class practice and problem solving
11	Pre-reading		Subject explanation, in-class practice and problem solving	Dimensioning of ship elements (Bottom structure)	iI-class practice and problem solving
12	Pre-reading		Subject explanation, in-class practice and problem solving	Dimensioning of ship elements according to class rules (Inner bottom structure)	iI-class practice and problem solving
13	Pre-reading		Subject explanation, in-class practice and problem solving	Dimensioning of ship elements (Side structure)	iI-class practice and problem solving
14	Pre-reading		Subject explanation, in-class practice and problem solving	Dimensioning of ship elements (Deck structure)	iI-class practice and problem solving

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	2,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	10,00

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											5				5
L.O. 2	5											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, 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 : Recognize ship structural elements and structural systems.

L.O. 2 : By modeling the loads on ship structural elements, dimensioning can be done using basic strength principles and class rules.

L.O. 3 : Recognize the structures of different types of ships.

L.O. 4 : Students will become familiar with the use of various building materials.

L.O. 5 : Can draw the midship section's structural elements of a boat with dimensions.

İndirilme Tarihi
21.10.2026 18:17:26

GMP1207 - Marine Machinery - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The main focus of the course is on reciprocating internal combustion engines. Information is provided on the design, major engine components, and basic operating equipment of these engines. Following this phase of the course, the working cycles of four-stroke and two-stroke engines are examined, and methods for calculating the engine working cycle are explained. In this course, the engine cycle is considered as the ideal air cycle. Finally, the calculation of engine performance parameters is covered.

Course Contents

Historical development of internal combustion engines - Classification and comparison of engines - Main engine parts - Engine working equipment - Engine cycles: four-stroke spark-ignition and compression-ignition (diesel) - Engine cycles, two-stroke spark-ignition and compression-ignition (diesel) - Otto cycle - Diesel cycle - Calculation of engine performance parameters indicated work, mean indicated pressure, mean effective power - effective efficiency, specific fuel consumption.

Recommended or Required Reading

Gemi makineleri operasyonu-1, Fahrettin KÜÇÜKŞAHİN, İstanbul

Planned Learning Activities and Teaching Methods

Theoretical and practical question solutions

Recommended Optional Programme Components

Gemi makineleri operasyonu-1, Fahrettin KÜÇÜKŞAHİN, İstanbul

Instructor's Assistants

Assoc. Prof. Bilal AYDOĞAN

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Prof. Dr. Bilal Aydoğan

Program Outcomes

1. Understand internal combustion engines
2. Understand motor elements
3. Understand two and four time motor cycles
4. Can learn to do engine cycle calculations
5. Can learn to calculate motor characteristics by hitting from cycle account

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	course syllabus		Oral presantation, question-answer	course Syllabus- Historical development of internal combustion engines	Sample question solutions
2	Replay of the previous week		Oral presantation, question-answer	Classification and comparison of machines	Sample question solutions
3	Replay of the previous week		Oral presantation, question-answer	Major engine parts	Sample question solutions
4	Replay of the previous week		Oral presantation, question-answer	Major engine parts	Sample question solutions
5	Replay of the previous week		Oral presantation, question-answer	Engine cycles: four-stroke spark-ignition and compression-ignition (diesel)	Sample question solutions
6	Replay of the previous week		Oral presantation, question-answer	Engine cycles: four-stroke spark-ignition and compression-ignition (diesel)	Sample question solutions
7	Replay of the previous week		Oral presantation, question-answer	Engine cycles: four-stroke spark-ignition and compression-ignition (diesel)	Sample question solutions
8				Midterm exam	
9	Replay of the previous week		Oral presantation, question-answer	Otto and Diesel cycles	Sample question solutions
10	Replay of the previous week		Oral presantation, question-answer	Otto and Diesel cycles	Sample question solutions
11	Replay of the previous week		Oral presantation, question-answer	Calculation of engine performance parameters: indicated work, average indicated pressure, average effective power, effective efficiency, specific fuel consumption	Sample question solutions
12	Replay of the previous week		Oral presantation, question-answer	Calculation of engine performance parameters: indicated work, average indicated pressure, average effective power, effective efficiency, specific fuel consumption	Sample question solutions
13	Replay of the previous week		Oral presantation, question-answer	Engine Valve Timing Diagram	Sample question solutions
14	Replay of the previous week		Oral presantation, question-answer	Engine Valve Timing Diagram	Sample question solutions
15	Replay of the previous week		Oral presantation, question-answer	Engine Valve Timing Diagram	Sample question solutions

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	12,00
Vize	1	1,00
Final Sınavı Hazırlık	1	12,00
Final	1	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												2		3	
L.O. 2	5												3		4	
L.O. 3	5												1		3	
L.O. 4	5														4	
L.O. 5	5														3	

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 : Understand internal combustion engines

L.O. 2 : Understand motor elements

L.O. 3 : Understand two and four time motor cycles

L.O. 4 : Can learn to do engine cycle calculations

L.O. 5 : Can learn to calculate motor characteristics by hitting from cycle account

İndirilme Tarihi
23.10.2026 11:20:45

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

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.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Do pre-class reading		Through explanation Question Answer Discussion	GENERAL COURSE - QUESTION/ANSWER	
2	Do pre-class reading		Through explanation Question Answer Discussion	RESTRUCTURING PERIOD	
3	Do pre-class reading		Through explanation Question Answer Discussion	REACTIONS AGAINST POLITICAL ARRANGEMENTS AND REFORMS	
4	Do pre-class reading		Through explanation Question Answer Discussion	ARRANGEMENTS MADE IN THE FIELDS OF LAW, EDUCATION, CULTURE AND SOCIETY	
5	Do pre-class reading		Through explanation Question Answer Discussion	ECONOMIC POLICIES (1923-1950)	
6	Do pre-class reading		Through explanation Question Answer Discussion	REPUBLICAN EDUCATION POLICIES	
7	Do pre-class reading		Through explanation Question Answer Discussion	TURKISH FOREIGN POLICY IN ATATURK PERIOD	
8	Do pre-class reading		Through explanation Question Answer Discussion	ATATURK PRINCIPLES AND COMPLEMENTARY PRINCIPLES	
9	Do pre-class reading		Through explanation Question Answer Discussion	TRANSITION TO MULTI-PARTY LIFE AND DEMOCRAT PARTY PERIOD	
10	Do pre-class reading		Through explanation Question Answer Discussion	1945 - 1960 YILLARI ARASI TÜRK DIŞ POLİTİKASI	
11	Do pre-class reading		Through explanation Question Answer Discussion	TURKISH POLITICAL LIFE (1960-1980)	
12	Do pre-class reading		Through explanation Question Answer Discussion	1960 - 1980 YILLARI ARASI TÜRK DIŞ POLİTİKASI	
13	Do pre-class reading		Through explanation Question Answer Discussion	TURKEY'S ECONOMY FROM 1945 TO 1980	
14	Do pre-class reading		Through explanation Question Answer Discussion	CULTURAL DEVELOPMENTS FROM 1938 TO THE 1980S	

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										1						
L.O. 2										1						
L.O. 3										1						
L.O. 4										1						
L.O. 5										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 : 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

23.10.2026 11:22:35

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

23.10.2026 11:24:42

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
21.10.2026 18:18:14

GMP1210 - Shipyard Management and Organization - 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			Subject explanation and in-class practice	Shipyards capacity planning	In-class practice
3			Subject explanation and in-class practice	Business planning and methods	In-class practice
4			Subject explanation and in-class practice	Shipyards personnel planning	In-class practice
5			Subject explanation and in-class practice	Modern planning techniques	In-class practice
6			Subject explanation and in-class practice	Modern manufacturing methods and business analysis	In-class practice
7			Subject explanation and in-class practice	General information about Shipyards	In-class practice
8			Subject explanation and in-class practice	Sections in shipyards	In-class practice
9			Subject explanation and in-class practice	Be taken into consideration in the selection matters shipyard	In-class practice
10			Subject explanation and in-class practice	For the receipt of the order be made in the shipyard jobs	In-class practice
11			Subject explanation and in-class practice	Ship construction and construction stages	In-class practice
12			Subject explanation and in-class practice	Optical methods in shipyards, the optical-controlled cutting machines	In-class practice
13			Subject explanation and in-class practice	Numerical-controlled cutting machines in shipyards	In-class practice
14			Subject explanation and in-class practice	Shipyards manufacturing flow	In-class practice

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ara Sınav Hazırlık	1	10,00
Ders Sonrası Bireysel Çalışma	14	1,00
Derse Katılım	14	3,00
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 / 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								5		
L.O. 2						3								5		
L.O. 3						3								5		
L.O. 4						3								5		
L.O. 5						3								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 : 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

21.10.2026 18:21:39

GMP1211 - Marine Auxiliary Machinery - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

main and auxiliary ship machine?s promotion, accounts and elimination of defects

Course Contents

Ship main and auxiliary machinery definitions, placement, etc.-use features.

Recommended or Required Reading

Fahrettin Küçükşahin – Marine Engine Operations 2
Nejat Odman – Operation, Maintenance, and Repair of Heat Engines

Planned Learning Activities and Teaching Methods

Theory and practice

Recommended Optional Programme Components

Fahrettin Küçükşahin – Marine Engine Operations 2
Nejat Odman – Operation, Maintenance, and Repair of Heat Engines

Instructor's Assistants

Öğr. Gör. Deniz Güneş

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Deniz Güneş

Program Outcomes

1. Design of transport machines
2. To be able to analyze and interpret
3. Design analysis and interpretation of deck equipment
4. Ability to solve problems with deck hardware
5. General information about ship machinery

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Lecture, discussion	Course syllabus Definition of ship's main and auxiliary machinery	
2	repeat of last week		Lecture, discussion	Machine connection methods	Problem solving
3	repeat of last week		Lecture, discussion	Major machine breakdowns and maintenance	Problem solving
4	repeat of last week		Lecture, discussion	Ship main engine auxiliaries	Problem solving
5	repeat of last week		Lecture, discussion	Installation of ship main and diesel engines	Problem solving
6	repeat of last week		Lecture, discussion	Powertrain connection	Problem solving
7	repeat of last week		Lecture, discussion	Pumps used on board Midterm exam preparation	Problem solving
8				Ara sınav	
9	repeat of last week		Lecture, discussion	Installation of booster pump and intergas systems	Problem solving
10	repeat of last week		Lecture, discussion	Deck machinery	Problem solving
11	repeat of last week		Lecture, discussion	Steering gear	Problem solving
12	repeat of last week		Lecture, discussion	Anchor windlasses	Problem solving
13	repeat of last week		Lecture, discussion	Specifications and standards for chains used on ships	Problem solving
14	repeat of last week		Lecture, discussion	Load-handling machines	Problem solving
15	repeat of last week		Lecture, discussion	Hatch covers General review	Problem solving

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	5,00
Final Sınavı Hazırlık	1	8,00

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												4	5		
L.O. 2	5												4	5		
L.O. 3	5												4	5		
L.O. 4	5												4	5		
L.O. 5	5												4	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 : Design of transport machines

L.O. 2 : To be able to analyze and interpret

L.O. 3 : Design analysis and interpretation of deck equipment

L.O. 4 : Ability to solve problems with deck hardware

L.O. 5 : General information about ship machinery

İndirilme Tarihi

21.10.2026 18:22:27

GMP1212 - Machine Elements - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

In the course, students are informed about new technologies in industrial welding methods, advanced welding methods and selection of welding methods and consumables according to the type of material to be joined.

Course Contents

Welded manufacturing methods and welding of industrial materials

Recommended or Required Reading

Prof. Dr. Erdem Koç, Makine Elemanları

Planned Learning Activities and Teaching Methods

Theoretical and question solution practice

Recommended Optional Programme Components

Prof. Dr. Erdem Koç, Makine Elemanları

Instructor's Assistants

Assoc. Prof. Bilal AYDOĞAN

Presentation Of Course

Face to face-formal education

Dersi Veren Öğretim Elemanları

Prof. Dr. Bilal Aydoğan

Program Outcomes

1. Identify machine parts
2. Knows welding methods and calculation
3. Knows material production methods
4. Knows the general dizayn of the machines
5.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	course syllabus		Oral Presentation, question-answer	course Syllabus- Definition, classification, tolerances, dimensions and surface conditions of machine elements course syllabus	Definition, classification, tolerances, dimensions and surface conditions of machine elements with examples
2	Replay of the previous week		Oral Presentation, question-answer	Strength values, strength calculations and material selection	Strength values, strength calculations and material selection question solving
3	Replay of the previous week		Oral Presentation, question-answer	Welding and Welding methods	Welding and Welding methods question solving
4	Replay of the previous week		Oral Presentation, question-answer	Soldering, bonding and riveting connections	Soldering, bonding and riveting connections question solving
5	Replay of the previous week		Oral Presentation, question-answer	Shaft-hub connections	Shaft-hub connections question solving
6	Replay of the previous week		Oral Presentation, question-answer	Bolted connections	Bolted connections question solving
7	Replay of the previous week		Oral Presentation, question-answer	General Review	Solving problems
8				Midterm exam	
9	Replay of the previous week		Oral Presentation, question-answer	Axles, shafts and couplings	Axles, shafts and couplings question solving
10	Replay of the previous week		Oral Presentation, question-answer	Rolling bearings, plain bearings	Rolling bearings, plain bearings question solving
11	Replay of the previous week		Oral Presentation, question-answer	Power transmission elements, Gear wheels	Power transmission elements, Gear wheels question solving
12	Replay of the previous week		Oral Presentation, question-answer	Belt and pulley mechanisms	Belt and pulley mechanisms quetion solving
13	Replay of the previous week		Oral Presentation, question-answer	Belt and pulley mechanisms	Belt and pulley mechanisms quetion solving
14	Replay of the previous week		Oral Presentation, question-answer	Genral Review	Soru çözümleri
15	Replay of the previous week		Oral Presentation, question-answer	Genral Review	Soru çözümleri

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	12,00
Vize	1	1,00
Final Sınavı Hazırlık	1	12,00
Final	1	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											3				5
L.O. 2	5											4				4
L.O. 3	5											4				4
L.O. 4	5											4				4
L.O. 5	5											4				4

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 : Identify machine parts

L.O. 2 : Knows welding methods and calculation

L.O. 3 : Knows material production methods

L.O. 4 : Knows the general dizayn of the machines

L.O. 5 :

İndirilme Tarihi

21.10.2026 18:24:19

GMP1213 - Digitalization and Smart Systems in Maritime - 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 / 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								5					
L.O. 2			5								5					
L.O. 3			5								5					
L.O. 4			5								5					
L.O. 5			5								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 : 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

21.10.2026 18:25:01

GMP1214 - Vocational 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 acquire basic professional English terminology used in maritime and shipbuilding fields; to understand technical texts related to ship structure, ship parts, shipbuilding processes, shipyard operations, marine machinery and equipment, maintenance and repair, navigation and maritime safety; and to communicate effectively at a basic professional level in both written and spoken English.

Course Contents

Basic maritime and shipbuilding terminology; ship types and main parts of ships; ship dimensions and basic ship geometry; structural members of ships; deck, engine and accommodation spaces; shipbuilding and shipyard terminology; materials, welding, cutting and assembly processes; marine machinery and auxiliary systems;deck machinery and equipment; maintenance and repair terminology; navigation and seamanship terms; maritime safety, personal protective equipment and emergency expressions.

Recommended or Required Reading

IMO Standard Marine Communication Phrases (IMO SMCP); English technical dictionaries related to maritime and shipbuilding terminology; ship general arrangement plans and technical drawings; English operation and maintenance manuals for marine machinery and equipment; lecture notes.

Planned Learning Activities and Teaching Methods

Lectures, question-and-answer sessions, technical reading and translation exercises, professional vocabulary and terminology activities, identification of ship parts and equipment through visual materials, analysis of technical documents and manuals, listening and speaking activities, case studies, individual and group work, and professional communication practices.

Recommended Optional Programme Components

Students are encouraged to regularly examine English technical documents, ship plans, equipment catalogues, and operation and maintenance manuals related to maritime and shipbuilding fields, and to follow English maritime publications and audiovisual materials in order to improve their professional terminology.

Instructor's Assistants

Presentation Of Course

Face to Face – Formal Education

Dersi Veren Öğretim Elemanları

Inst. Ahmet Demiray

Program Outcomes

1. Defines and uses basic English professional terminology used in maritime and shipbuilding fields.
2. Identifies and describes ship types, main parts, and structural components of ships in English.
3. Explains and uses basic English terminology related to shipyard operations and shipbuilding processes.
4. Recognizes and explains English terms related to marine machinery, auxiliary systems, deck equipment.
5. Reads and interprets basic English technical texts, manuals, and instructions related to maritime and shipbuilding fields.
6. Communicates orally and in writing in English on basic professional topics related to maritime and shipbuilding.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllabus		Lecture, Question and answer, Discussion.	Introduction to Maritime English	
2	Repeat of last week		Lecture, Question and answer, Discussion. Lecture, question and answer, discussion	Basic Maritime Terms	
3	Repeat of last week		Lecture, Question and answer, Discussion.	Ship Types and Their Purposes	
4	Repeat of last week		Lecture, Question and answer, Discussion.	Main Parts of a Ship	
5	Repeat of last week		Lecture, Question and answer, Discussion.	Structural Components of a Ship	
6	Repeat of last week		Lecture, Question and answer, Discussion.	Shipyard Areas and Basic Shipyard Terminology	
7	Repeat of last week		Lecture, Question and answer, Discussion.	Shipbuilding Materials and Hand Tools	
8				Midterm exam	
9	Repeat of last week		Lecture, Question and answer, Discussion.	Marine Machinery and Basic Machinery Terms	
10	Repeat of last week		Lecture, Question and answer, Discussion.	Marine Auxiliary Machinery and Systems	
11	Repeat of last week		Lecture, Question and answer, Discussion.	Deck Machinery and Equipment	
12	Repeat of last week		Lecture, Question and answer, Discussion.	Reading Technical Manuals and Basic Professional Texts	
13	Repeat of last week		Lecture, Question and answer, Discussion.	Technical Instructions, Signs and Warning Expressions	
14	Repeat of last week		Lecture, Question and answer, Discussion.	Basic Professional Communication in Maritime and Shipbuilding	
15	Repeat of last week		Lecture, Question and answer, Discussion.	Basic Professional Communication in Maritime and Shipbuilding	
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	14	1,00
Vize	1	1,00
Final	1	1,00
Ödev	14	1,00
Diğer	1	3,00

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									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 : Defines and uses basic English professional terminology used in maritime and shipbuilding fields.

L.O. 2 : Identifies and describes ship types, main parts, and structural components of ships in English.

L.O. 3 : Explains and uses basic English terminology related to shipyard operations and shipbuilding processes.

L.O. 4 : Recognizes and explains English terms related to marine machinery, auxiliary systems, deck equipment.

L.O. 5 : Reads and interprets basic English technical texts, manuals, and instructions related to maritime and shipbuilding fields.

L.O. 6 : Communicates orally and in writing in English on basic professional topics related to maritime and shipbuilding.

İndirilme Tarihi

21.10.2026 18:25:43

GMP1215 - Professional 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
Derse Katılım	14	1,00
Ders Sonrası Bireysel Çalışma	14	1,00
Teorik Ders Anlatım	14	3,00
Vize	1	2,00
Final	1	2,00
Ders Öncesi Bireysel Çalışma	14	1,00
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 / 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		1						
L.O. 2								4		2						
L.O. 3								3		5						
L.O. 4								1		1						
L.O. 5								4		4						

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 : 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
23.10.2026 11:26:23

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

General Info

Objectives of the Course

To enable the learner to know the characteristics of the Turkic language, to use the language correctly and effectively and to express himself better in the society.

Course Contents

The features of language and its place in our social life, the historical periods of Turkic, the words in terms of phonetics, meaning and duties, punctuation marks; Presentation, poem, essay, essay, story, newspaper-journal studies and applications.

Recommended or Required Reading

Demir, N.; Yılmaz, E. (2009). Türk Dili El Kitabı, Grafiker Yayınları, 4. Bsk. Ankara. Eker, S. (2009). Çağdaş Türk Dili, 5. Bsk, İstanbul.

Planned Learning Activities and Teaching Methods

Lectures, Question-answer method, Discussion environment, Applied writing exercises, Group work, Sample text reviews, Individual learning via distance education platform

Recommended Optional Programme Components

Students are encouraged to give short presentations to develop their written and oral expression skills. Writing assignments are expected to be completed regularly and improved with feedback. Individual study of primary Turkish language resources is recommended.

Instructor's Assistants

There is no Assistant Teaching Staff

Presentation Of Course

The course is delivered online via distance learning. Courses are supported by synchronous (live) sessions and asynchronous (recorded) content. Students can access course materials through the distance learning system.

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş Inst. Serkan Yüksel Inst. Deniz Güneş

Program Outcomes

1. Learns the purpose and the operation plan of the lesson, knows the definition of language and its place in human life, the differences between speaking and writing
2. To grasp the characteristics of language, language-society and language-culture relations; Know reading and understanding methods.
3. Knows the structure of the Turkish language and its place among the language families on the earth, knows the dialect-accent-mouth; Understand the use of punctuation marks.
4. He / she sees the works that stand out in the historical development of the Turkish language and knows the writing rules.
5. Know the sound characteristics of the Turkish language, learn what the culture is and change its unchanging elements.
6. He knows the additions and subtitles of the Turkish language and learns the characteristics of the poetry with examples. Technology-language relations.
7. Know the types of words, learn the characteristics of the novel and the emulation with examples.
8. Know phrases, learn homework-methods of project preparation; Fairy tales, fables, mathnevi, and more.
9. He knows the elements of sentence and sentence types, has knowledge about usage texts such as theater and script, and prepares for writing.
10. Know the features of paragraph and text, know functional types such as article and criticism
11. He knows the characteristics of the words in terms of meaning, knows functional types such as essays and anecdotes, and examines everyday living communication mistakes with examples.
12. Idioms, proverbs and the Turkish language have knowledge of the vocabulary, recognizing examples of expression disorders.
13. Learn the principles of the Turkish language, knowing the current problems, speaking effectively and beautifully.
14. Scientific writings god see examples of effective and beautiful speech.
15. He sees mistakes made in general communication, knows the subtleties of speaking in front of the community.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1			Explanation of the topic and example solutions	Stating the Course Objective, Introduction to the Course and Course Resources	Group conversation practice
2			Explanation of the topic and example solutions	Explanation of Turkish learning methods	Group conversation practice
3			Explanation of the topic and example solutions	Development of Turkish reading skills	Group conversation practice
4			Explanation of the topic and example solutions	Development of Turkish listening skills	Group conversation practice
5			Explanation of the topic and example solutions	Development of Turkish speaking skills	Group conversation practice
6			Explanation of the topic and example solutions	Development of Turkish writing skills	Group conversation practice
7			Explanation of the topic and example solutions	Development of Turkish language skills	Group conversation practice
8				midterm exam	
9			Explanation of the topic and example solutions	Development of the Turkish vocabulary	Group conversation practice
10			Explanation of the topic and example solutions	Development of Turkish reading skills	Group conversation practice
11			Explanation of the topic and example solutions	Development of Turkish listening skills	Group conversation practice
12			Explanation of the topic and example solutions	Türkçe konuşma becerisinin geliştirilmesi	Group conversation practice
13			Explanation of the topic and example solutions	Development of Turkish writing skills	Group conversation practice
14			Explanation of the topic and example solutions	Development of Turkish language skills	Group conversation practice
15			Explanation of the topic and example solutions	Development of the Turkish vocabulary	Group conversation practice

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Derse Katılım	14	3,00
Ara Sınav Hazırlık	1	5,00
Final Sınavı Hazırlık	1	5,00
Ders Sonrası Bireysel Çalışma	14	1,00
Ders Öncesi 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											
L.O. 5					5											
L.O. 6					5											
L.O. 7					5											
L.O. 8					5											
L.O. 9					5											
L.O. 10					5											
L.O. 11					5											
L.O. 12					5											
L.O. 13					5											
L.O. 14					5											
L.O. 15					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 : Learns the purpose and the operation plan of the lesson, knows the definition of language and its place in human life, the differences

between speaking and writing

L.O. 2 : To grasp the characteristics of language, language-society and language-culture relations; Know reading and understanding methods.

L.O. 3 : Knows the structure of the Turkish language and its place among the language families on the earth, knows the dialect-accent-mouth; Understand the use of punctuation marks.

L.O. 4 : He / she sees the works that stand out in the historical development of the Turkish language and knows the writing rules.

L.O. 5 : Know the sound characteristics of the Turkish language, learn what the culture is and change its unchanging elements.

L.O. 6 : He knows the additions and subtitles of the Turkish language and learns the characteristics of the poetry with examples. Technology-language relations.

L.O. 7 : Know the types of words, learn the characteristics of the novel and the emulation with examples.

L.O. 8 : Know phrases, learn homework-methods of project preparation; Fairy tales, fables, mathnevi, and more.

L.O. 9 : He knows the elements of sentence and sentence types, has knowledge about usage texts such as theater and script, and prepares for writing.

L.O. 10 : Know the features of paragraph and text, know functional types such as article and criticism

L.O. 11 : He knows the characteristics of the words in terms of meaning, knows functional types such as essays and anecdotes, and examines everyday living communication mistakes with examples.

L.O. 12 : Idioms, proverbs and the Turkish language have knowledge of the vocabulary, recognizing examples of expression disorders.

L.O. 13 : Learn the principles of the Turkish language, knowing the current problems, speaking effectively and beautifully.

L.O. 14 : Scientific writings god see examples of effective and beautiful speech.

L.O. 15 : He sees mistakes made in general communication, knows the subtleties of speaking in front of the community.

İndirilme Tarihi

21.10.2026 18:26:33

GMP2101 - Ship Hydrostatics and Stability - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

This course is designed for ships of hydrostatic conditions necessary for the optimum methods are taught

Course Contents

ship hydrostatic calculation, hydrostatic curves. Equilibrium of floating bodies. stable, unstable and indifferent state of equilibrium. metasantr height, transverse metasantr height, radius calculations. initial stability, small and large angles stability. since static stability. static stability and cross curves. account of the stability phase diagram in the integrator, planimeter and computation, stability of the boucle injury, to pile up, launching and docking for stability. dynamic stability, stability in waves

Recommended or Required Reading

Gemi Hidrostatiği ve Stabilitesi Prof.Dr. Reşat Baykal Gemi Hidrostatiği ve Stabilitesi, Adrian Biran, Çev. Hüseyin Yılmaz, 2006 Gemi Hidrostatiği ve Stabilitesi Doç. Dr. Hakan Akyıldız, 2010

Planned Learning Activities and Teaching Methods

Lecture, question and answer, discussion, problem-solving, case study, calculation and practical exercises, interpretation of technical drawings and hydrostatic tables, and worked examples.

Recommended Optional Programme Components

It is recommended that theoretical knowledge of ship hydrostatics and stability be supported by numerical examples, problem-solving exercises, and the interpretation of technical tables. The course aims to help students understand fundamental concepts such as displacement, center of buoyancy, center of gravity, metacentric height, and static stability, and to develop their ability to evaluate a ship’s loading conditions and stability using hydrostatic data. Real-ship examples and relevant technical documentation are recommended for calculation exercises.

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. Students shall learn basic knowledge on the equilibrium principle of floating objects
2. To learn computation skills for hydrostatic and stability of ships
3. Students shall carry out international stability standards (IMO Criteria)
4. To evaluate floating bodies in view to stability
5. Students will be familiar with the concepts and calculations of initial, static and dynamic stability.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Subject explanation, in-class practice and problem solving	Area, Volume, and Moment Calculations Using Approximate Formulas	In-class practice and problem solving
2	Pre-reading		Subject explanation, in-class practice and problem solving	Introduction to the Equilibrium of Floating Bodies	In-class practice and problem solving
3	Pre-reading		Subject explanation, in-class practice and problem solving	Ship Hydrostatic Calculations, Hydrostatic Curves, and Applications	In-class practice and problem solving
4	Pre-reading		Subject explanation, in-class practice and problem solving	Calculation of Equilibrium States and Initial Stability of Floating Bodies	In-class practice and problem solving
5	Pre-reading		Subject explanation, in-class practice and problem solving	Stability at Large Angles	In-class practice and problem solving
6	Pre-reading		Subject explanation, in-class practice and problem solving	Static initial stability, static and transverse stability curves	In-class practice and problem solving
7	Pre-reading		Subject explanation, in-class practice and problem solving	Effect of Flow Loads on Stability	In-class practice and problem solving
8	Pre-reading		Subject explanation, in-class practice and problem solving	Metacentric height, transverse metacentric height, radius calculation	In-class practice and problem solving
9	Pre-reading		Subject explanation, in-class practice and problem solving	Longitudinal stability	In-class practice and problem solving
10	Pre-reading		Subject explanation, in-class practice and problem solving	Dynamic stability, stability in waves	In-class practice and problem solving
11	Pre-reading		Subject explanation, in-class practice and problem solving	Stability in Grounding and Drydocking	In-class practice and problem solving
12	Pre-reading		Subject explanation, in-class practice and problem solving	Launching	In-class practice and problem solving
13	Pre-reading		Subject explanation, in-class practice and problem solving	Stability Booklets	In-class practice and problem solving
14	Pre-reading		Subject explanation, in-class practice and problem solving	International stability rules	In-class practice and problem solving

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	2,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	15,00

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			4								3				5
L.O. 2	5			4								3				5
L.O. 3	5			4								3				5
L.O. 4	5			4								3				5
L.O. 5	5			4								3				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 shall learn basic knowledge on the equilibrium principle of floating objects

L.O. 2 : To learn computation skills for hydrostatic and stability of ships

L.O. 3 : Students shall carry out international stability standards (IMO Criteria)

L.O. 4 : To evaluate floating bodies in view to stability

L.O. 5 : Students will be familiar with the concepts and calculations of initial, static and dynamic stability.

İndirilme Tarihi
21.10.2026 18:27:42

GMP2102 - Ship Resistance and Propulsion - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

realizing theoretical principles of the ship resistance and propulsion and to gain ability to solve problems,

Course Contents

General definition of resistance and resistance vessels of the components, Ship form and the resistance coefficient is defined, resistance forces affecting the ship, model building and experiments on model, Ship power calculations, Calculation of ship resistance in various methods. Ship propulsion principles. different propulsion types. Geometry of the propeller, Propeller hydrodynamic properties and dimensional analysis, The mutual effects of the propeller and the ship. Introduction to the theories of the propeller, cavitation, Nozzle propellers.

Recommended or Required Reading

Gemi Pervaneleri ve Sevk Sistemleri; Mesut Güner, Abdi Kükner, Mehmet Ali Baykal. Gemilerin Direnci ve Makine Gücü, Reşat Baykal, A. Cemil Dikili

Planned Learning Activities and Teaching Methods

Lecture, question and answer, discussion, problem-solving, numerical calculations and practical exercises, analysis of graphs and diagrams, case studies, technical document analysis, and group work.

Recommended Optional Programme Components

It is recommended that theoretical knowledge of ship resistance and propulsion be supported by numerical examples, problem-solving exercises, and technical graphs. The course aims to help students understand the main factors affecting ship resistance, the types of resistance, the operating principles of propellers, and the basic characteristics of propulsion systems. Numerical exercises should be used to examine the relationships between ship speed, resistance, power, and propulsive efficiency, supported by real-ship applications and technical documentation.

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. Define the components of ship resistance.
2. Explain the relationships between model and prototype
3. Can calculate ship power
4. Recognizes ship propulsion systems and makes necessary calculations.
5. Understands ship-propeller interaction

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Subject explanation, in-class practice and problem solving	General definition of ship resistance and the components of resistance.	In-class practice and problem solving
2	Pre-reading		Subject explanation, in-class practice and problem solving	Definition of ship form and resistance coefficient	In-class practice and problem solving
3	Pre-reading		Subject explanation, in-class practice and problem solving	Resistance forces acting on the ship. Frictional resistance; the effect of roughness and fouling on resistance.	In-class practice and problem solving
4	Pre-reading		Subject explanation, in-class practice and problem solving	Wave-making resistance and calculation methods. Laws of similarity.	In-class practice and problem solving
5	Pre-reading		Subject explanation, in-class practice and problem solving	Mathematical and physical models and the modeling of marine systems.	In-class practice and problem solving
6	Pre-reading		Subject explanation, in-class practice and problem solving	Model creation and experiments on the model	In-class practice and problem solving
7	Pre-reading		Subject explanation, in-class practice and problem solving	Forms and attachments that reduce resistance and increase propulsion efficiency	In-class practice and problem solving
8	Pre-reading		Subject explanation, in-class practice and problem solving	Principles of Ship Propulsion, Different types of Propulsion	In-class practice and problem solving
9	Pre-reading		Subject explanation, in-class practice and problem solving	Ship power calculation. Fuel consumption calculation	In-class practice and problem solving
10	Pre-reading		Subject explanation, in-class practice and problem solving	Dimensional analysis of hydrodynamic properties of propellers,	In-class practice and problem solving
11	Pre-reading		Subject explanation, in-class practice and problem solving	Mutual effects of the propeller and the ship (wake-absorption coefficients-components of propulsion efficiency).	In-class practice and problem solving
12	Pre-reading		Subject explanation, in-class practice and problem solving	Introduction to propeller theories, calculation of propellers, propeller strength.	In-class practice and problem solving
13	Pre-reading		Subject explanation, in-class practice and problem solving	Different propulsion systems	In-class practice and problem solving
14	Pre-reading		Subject explanation, in-class practice and problem solving	Cavitation, cavitation calculation	In-class practice and problem solving

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	2,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	10,00

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			5											5	3
L.O. 2	5			5											5	3
L.O. 3	5			5											5	3
L.O. 4	5			5											5	3
L.O. 5	5			5											5	3

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 : Define the components of ship resistance.

L.O. 2 : Explain the relationships between model and prototype

L.O. 3 : Can calculate ship power

L.O. 4 : Recognizes ship propulsion systems and makes necessary calculations.

L.O. 5 : Understands ship-propeller interaction

İndirilme Tarihi

21.10.2026 18:28:32

GMP2103 - Composite Hull Production - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Identify composite materials (fiber, resin) and basic production methods (hand lay-up, infusion). Work in accordance with workshop health and safety (HSE) rules and use Personal Protective Equipment (PPE). Prepare a mold for production (cleaning, mold release agent). Apply gelcoat and lamination using the hand lay-up method. Explain post-production processes (demolding, sanding, fairing) and basic repair techniques (scarf joint). Have basic knowledge of composite quality control (tap test) and boat hydrodynamics (hull forms).

Course Contents

This course focuses on the composite materials used in small boat production. The content begins with identifying types of fibers (glass, carbon) and resins (polyester, epoxy). Basic production methods such as hand lay-up and vacuum infusion , along with mold preparation and gelcoat application, are taught through workshop practice. The course also covers composite repair , quality control (NDT) , workshop safety (HSE) , and the hydrodynamic fundamentals of boat design

Recommended or Required Reading

Güneş,D., "Küçük Tekne Üretimi " ders notları

Planned Learning Activities and Teaching Methods

Theory and practice

Recommended Optional Programme Components

Kükner, A., “Küçük Tekne Üretim Teknikleri”, ders notları 2000
Gardner, J., Building Classical Small Craft: Complete Plans and Instructions for 47 Boats, Int. Marine
Pub. 1996.

Instructor's Assistants

Öğr. Gör. Deniz GÜNEŞ

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Deniz Güneş

Program Outcomes

1. Explains the types, properties, and marine applications of composite materials (fiber, resin)
2. Gains awareness of and applies workshop safety (HSE) and Personal Protective Equipment (PPE) use
3. Applies the steps of basic composite production methods, such as hand lay-up and vacuum infusion.
4. Understands the fundamentals of plug and mold technology
5. Performs demolding, finishing (sanding, fairing), and basic composite repair (scarf joint) operations.
6. Defines basic quality control (tap test) and boat hydrodynamics (hull forms) concepts.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Ders İzlencesini Tanıma		Lecture, Discussion, Question and Answer	Introduction to the World of Composites Course intro, definition of composite, history. Composites in marine industry	Workshop and HSE rules. PPE introduction. Mold inspection.
2	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Reinforcement Materials (Fiber) Glass Fiber, Carbon Fiber, Aramid. Mat (CSM) vs. Woven Roving. Core Materials (Foam, Balsa)	Identifying fiber types and dry lay-up practice on molds.
3	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Matrix Materials (Resins) Thermoset vs. Thermoplastic. Polyester, Vinylester, Epoxy. Curing chemistry. Gelcoat.	Mixing polyester resin and observing the curing process.
4	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Hand Lay-up Method Overview of production methods. Hand Lay-up steps: Mold Prep, Gelcoat, Lamination, Consolidation.	Cleaning model molds and applying mold release wax.
5	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Spray-up Method and Mold Technology Spray-up. Plug and Mold production basics.	Applying Gelcoat with a brush to waxed model molds.
6	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Closed Mold Methods RTM. Vacuum Infusion principle, setup, and advantages.	Applying the first lamination layer (CSM) to cured gelcoat on model molds.
7	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Advanced Composite Production Methods Prepreg and Autoclave. Filament Winding. Pultrusion. Midterm exam preparation general review	Laying up the main structural layer (Woven Roving) on model molds.
8				Midterm exam	
9	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Composite Design Intro to Composite Design: Anisotropy. Lamina and Laminate. Fiber orientation	Starting mold prep for large molds (canoe/boat).
10	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Intro to Composite Design Intro to Composite Design: Anisotropy. Lamina and Laminate. Fiber orientation	Demolding cured models and practicing the Tap Test.
11	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Kompozit Tamir ve Bakım Hasar türleri (Delaminasyon). Tamir felsefesi: Şevli Birleştirme (Scarf Joint). Ozmoz.	Kalıptan çıkan parçaların kenar temizliği (trimming) ve kaba zımparalama.
12	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Health, Safety, and Environment (HSE) Chemical risks (Styrene) and physical risks (Fiber Dust). PPE selection. Waste management.	Continuing lamination on large molds, reinforcing HSE rules.
13	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Boat Design and Hydrodynamic Basics Boat terminology. Hull forms (Displacement, Planing). Stability and Resistance concepts	Completing main structural laminations on all projects.
14	Recap of the Previous Week		Lecture, Discussion, Question and Answer	Project Completion and Finishing Techniques Sanding. Surface Fairing and Putty application. Priming and prep for Paint.	Focusing on finishing: Fairing and fine sanding.
15	Recap of the Previous Week		Lecture, Discussion, Question and Answer	General Review and Project Evaluation Semester summary. Career opportunities	FINAL PROJECT SUBMISSION AND EVALUATION. Workshop clean-up.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Uygulama / Pratik Sonrası Bireysel Çalışma	7	3,00
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 / 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					3							5	5		
L.O. 2	5					3							5	5		
L.O. 3	5					4							5	5		
L.O. 4	5					3							5	5		
L.O. 5	5					3							5	5		
L.O. 6	5					3							5	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 : Explains the types, properties, and marine applications of composite materials (fiber, resin)

L.O. 2 : Gains awareness of and applies workshop safety (HSE) and Personal Protective Equipment (PPE) use

L.O. 3 : Applies the steps of basic composite production methods, such as hand lay-up and vacuum infusion.

L.O. 4 : Understands the fundamentals of plug and mold technology

L.O. 5 : Performs demolding, finishing (sanding, fairing), and basic composite repair (scarf joint) operations.

L.O. 6 : Defines basic quality control (tap test) and boat hydrodynamics (hull forms) concepts.

İndirilme Tarihi
21.10.2026 18:29:14

GMP2104 - Fluid Mechanics - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To give the basic concepts of general properties of fluids, fluid statics and fluid flow.

Course Contents

Basic concepts, units, fluid statics. Study of fluid motion for a control volume (definition of control volume, Reynolds transport theorem, conservation of mass, momentum theorem, energy equation, Bernoulli equation). Potential flow. Incompressible viscous flow. Compressible flow.

Recommended or Required Reading

Yunus A. Çengel, John M. CimbalaFluid Mechanics: Fundamentals and Applications

Planned Learning Activities and Teaching Methods

Theoretical and problem solving practice

Recommended Optional Programme Components

Yunus A. Çengel, John M. Cimbala, Akışkanlar Mekaniği: Temelleri ve Uygulamaları

Instructor's Assistants

Assoc. Prof. Bilal AYDOĞAN

Presentation Of Course

Face to face-formal education

Dersi Veren Öğretim Elemanları

Prof. Dr. Bilal Aydoğan

Program Outcomes

1. Akışkanlar ve davranış biçimleri ile ilgili temel bilgilerin verilmesi
2. Dimensionlessness and dimensionless numbers
3. Sıkıştırılabilir ve sıkıştırılamayan akışları incelemesi
4. Viskoz akış, dış akış ve potansiyel akışları incelemesi
5. Investigation of flow behavior in structures

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	course syllabus		Oral presantation, question-answer	course Syllabus- Basic concepts, units	Basic concepts, units with examples
2	Replay of the previous week		Oral presantation, question-answer	Thermodynamic properties of fluids	Thermodynamic properties of fluids with examples
3	Replay of the previous week		Oral presantation, question-answer	Thermodynamic properties of fluids	Question solutions related to the basic concepts of fluid mechanics
4	Replay of the previous week		Oral presantation, question-answer	Statics of fluids	Statics of fluids with examples
5	Replay of the previous week		Oral presantation, question-answer	The concept of dimensionlessness	The concept of dimensionlessness with examples
6	Replay of the previous week		Oral presantation, question-answer	Dimensionless numbers	Dimensionless numbers question solving
7	Replay of the previous week		Oral presantation, question-answer	Buckingham pi theorem	Solutions to questions about Buckingham pi theorem
8				Midterm exam	
9	Replay of the previous week		Oral presantation, question-answer	External flows. Potential flow	External flows. Potential flow with examples
10	Replay of the previous week		Oral presantation, question-answer	Viscous flow in pipes	Viscous flow in pipes with examples
11	Replay of the previous week		Oral presantation, question-answer	Compressible flow	Compressible flow with examples
12	Replay of the previous week		Oral presantation, question-answer	Solutions to problems related to flow in pipes	Solutions to problems related to flow in pipes
13	Replay of the previous week		Oral presantation, question-answer	Euler equation and flow in structures	Euler equation and flow in structures with examples
14	Replay of the previous week		Oral presantation, question-answer	Euler equation and flow in structures	Euler equation and flow in structures with examples
15	Replay of the previous week		Oral presantation, question-answer	Euler equation and flow in structures	Euler equation and flow in structures with examples

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
Derse Katılım	14	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	12,00
Vize	1	1,00
Final Sınavı Hazırlık	1	12,00
Final	1	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															
L.O. 5	5															

Table :

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

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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 : Akışkanlar ve davranış biçimleri ile ilgili temel bilgilerin verilmesi

L.O. 2 : Dimensionlessness and dimensionless numbers

L.O. 3 : Sıkıştırılabilir ve sıkıştırılamayan akışları incelemesi

L.O. 4 : Viskoz akış, dış akış ve potansiyel akışları incelemesi

L.O. 5 : Investigation of flow behavior in structures

İndirilme Tarihi

21.10.2026 18:29:50

GMP2105 - Computer-Aided Drawing (CAD) - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Teaching the basic elements of computer-aided drawing and design, making drawings using the AutoCAD package program for two and three-dimensional technical drawing applications.

Course Contents

Explains UCS coordinate systems. Draws lines, circles, and ellipses in isometric view. Performs dimensioning. Works on examples of isometric drawing. Learns commands such as 3D FACE and THICKNESS. Learns to create solid models and produce detailed drawings.

Recommended or Required Reading

AutoCAD Çizim Teknikleri ve Modelleme, Ders Notları Baykal G., AutoCAD 2008

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Prereading and drawing

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Serkan Yüksel

Program Outcomes

1. Using 3D CAD program
2. Be able to shapes using 3D CAD commands
3. Isometric drawing in 3D CAD program
4. Creating a solid model in a 3D CAD program
5. Dimensioning and other detail drawings in 3D CAD program

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Subject explanation and drawing practices	Produces professional 2D drawings using CAD software	Produces professional 2D drawings using CAD software.
2	Topic repetition and pre-reading		Subject explanation and drawing practices	Produces professional 2D drawings using CAD software	Produces professional 2D drawings using CAD software.
3	Topic repetition and pre-reading		Subject explanation and drawing practices	Uses the User Coordinate System (UCS)	Uses the User Coordinate System (UCS)
4	Topic repetition and pre-reading		Subject explanation and drawing practices	Recognizes isometric drawings and draws lines, circles, and ellipses within the drawing.	Recognizes isometric drawings and draws lines, circles, and ellipses within the drawing.
5	Topic repetition and pre-reading		Subject explanation and drawing practices	Performs dimensioning in an isometric drawing	Performs dimensioning in an isometric drawing.
6	Topic repetition and pre-reading		Subject explanation and drawing practices	Makes isometric drawing applications	Makes isometric drawing applications
7	Topic repetition and pre-reading		Subject explanation and drawing practices	Makes isometric drawing applications	Makes isometric drawing applications
8	Midterm exam preparation		Midterm exam	Midterm Exam	Midterm Exam
9	Topic repetition and pre-reading		Subject explanation and drawing practices	3DFace learns Thickness commands	3DFace learns Thickness commands
10	Topic repetition and pre-reading		Subject explanation and drawing practices	3DFace learns Thickness commands	3DFace learns Thickness commands
11	Topic repetition and pre-reading		Subject explanation and drawing practices	Learns to create solid models using CAD software and produces various drawings	Learns to create solid models using CAD software and produces various drawings
12	Topic repetition and pre-reading		Subject explanation and drawing practices	Makes solid model applications	Makes solid model applications
13	Topic repetition and pre-reading		Subject explanation and drawing practices	Makes solid model applications	Makes solid model applications
14	Topic repetition and pre-reading		Subject explanation and drawing practices	Performs dimensioning and other detailed drafting in CAD software.	Performs dimensioning and other detailed drafting in CAD software.
15	Topic repetition and pre-reading		Subject explanation and drawing practices	Performs dimensioning and other detailed drafting in CAD software.	Performs dimensioning and other detailed drafting in CAD software.

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	3,00
Ara Sınav Hazırlık	1	3,00
Final Sınavı Hazırlık	1	3,00

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								2	3				
L.O. 2			5								2	3				
L.O. 3			5								2	3				
L.O. 4			5								2	3				
L.O. 5			5								2	3				

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.

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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.

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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 : Using 3D CAD program

L.O. 2 : Be able to shapes using 3D CAD commands

L.O. 3 : Isometric drawing in 3D CAD program

L.O. 4 : Creating a solid model in a 3D CAD program

L.O. 5 : Dimensioning and other detail drawings in 3D CAD program

İndirilme Tarihi

21.10.2026 18:30:25

GMP2110 - Marine Engine Maintenance Operations - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To teach periodic maintenance operations, measurement/tolerance calculations, troubleshooting, and safe working procedures for marine main and auxiliary engines, injection, turbocharger, heat exchanger, separator, steering, and propulsion systems.

Course Contents

Safe working on marine machinery, maintenance and troubleshooting of cylinder head, piston, liner, bearings, crankshaft (web deflection), fuel injection, turbocharger, heat exchanger, separator, compressor, shafting, steering gear, and automation safety systems.

Recommended or Required Reading

Fahrettin Küçükşahin - Marine Machinery Operation 2 Nejat Odman - Operation, Maintenance and Repair of Heat Engines

Planned Learning Activities and Teaching Methods

Theoretical lectures, practical application/problem solving, case/accident analysis, technical measurement problems

Recommended Optional Programme Components

Fahrettin Küçükşahin - Marine Machinery Operation 2 Nejat Odman - Operation, Maintenance and Repair of Heat Engines

Instructor's Assistants

Lect. Deniz GÜNEŞ

Presentation Of Course

face to face

Dersi Veren Öğretim Elemanları

Inst. Deniz Güneş

Program Outcomes

1. Applies safe maintenance procedures (LOTO, PPE) and maintenance planning on marine main and auxiliary engines.
2. Can perform dismantling, wear (gauging), and crankshaft deflection measurements on cylinder head, piston, liner, and bearing assemblies.
3. Can execute periodic maintenance and troubleshooting of fuel injection, turbocharger, heat exchanger, and separator systems.
4. Can manage maintenance processes for shafting, stern tube sealing, steering systems, and emergency steering operations.
5. Explains the working principles of marine automation, sensor technologies, alarm monitoring, and safety protection (Slowdown/Shutdown) interlocks.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Syllabus review		Lecture, discussion	Introduction to Engine Maintenance, OHS (PPE, LOTO) and Maintenance Planning	
2	Previous week review		Lecture, discussion	Cylinder Head, Valve, and Injector Pocket Maintenance	Problem solving
3	Previous week review		Lecture, discussion	Piston, Ring, and Liner Maintenance, Honing and Gauging Measurements	Problem solving
4	Previous week review		Lecture, discussion	Connecting Rod, Crosshead, Bearing Clearances (Plastigage/Dial Gauge)	Problem solving
5	Previous week review		Lecture, discussion	Crankshaft, Web Deflection Measurements, and Shaft Alignment	Problem solving
6	Previous week review		Lecture, discussion	Fuel Injection Systems, Pump/Injector Testing and Calibration	Problem solving
7	Previous week review		Lecture, discussion	Turbocharger Maintenance, Static/Dynamic Balancing	Problem solving
8				Midterm Exam	
9	Previous week review		Lecture, discussion	Cooling/Heating Systems, Heat Exchangers, and CIP Chemical Cleaning	Problem solving
10	Previous week review		Lecture, discussion	Separators Bowl Maintenance and Automatic Sludge Discharge Systems	Problem solving
11	Previous week review		Lecture, discussion	Air Compressors, Pneumatic Circuits, and Safety Valve Testing	Problem solving
12	Previous week review		Lecture, discussion	Propulsion Systems, Shafting, Stern Tube Seals, and Propeller Fitting	Problem solving
13	Previous week review		Lecture, discussion	Steering Gear Systems, Bow Thruster, and Emergency Steering Operations	Problem solving
14	Previous week review		Lecture, discussion	Marine Automation, Sensors (PT100), and Slowdown/Shutdown Interlocks	Problem solving
15	Previous week review		Lecture, discussion	General Review and Final Exam Preparation	Problem solving

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	14	3,00
Ders Öncesi Bireysel Çalışma	14	1,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	8,00
Vize	1	1,00
Final Sınavı Hazırlık	1	15,00
Final	1	1,00
Vize	0	0,00

Assesments

Activities	Weight (%)
Final	40,00
Vize	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												4	5	3	
L.O. 2	5												4	5	3	
L.O. 3	5												4	5	3	
L.O. 4	5												4	5	3	
L.O. 5	5												4	5	3	

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.

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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 : Applies safe maintenance procedures (LOTO, PPE) and maintenance planning on marine main and auxiliary engines.

L.O. 2 : Can perform dismantling, wear (gauging), and crankshaft deflection measurements on cylinder head, piston, liner, and bearing assemblies.

L.O. 3 : Can execute periodic maintenance and troubleshooting of fuel injection, turbocharger, heat exchanger, and separator systems.

L.O. 4 : Can manage maintenance processes for shafting, stern tube sealing, steering systems, and emergency steering operations.

L.O. 5 : Explains the working principles of marine automation, sensor technologies, alarm monitoring, and safety protection (Slowdown/Shutdown) interlocks.

İndirilme Tarihi

21.10.2026 18:30:57

GMP2111 - Advanced Welding Technology - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

Learning different welding techniques by going beyond conventional welding practices in the shipbuilding industry.

Course Contents

Solid-state welding methods such as diffusion welding, friction welding, friction stir welding, stud welding, explosion welding, and high-frequency welding, as well as fusion welding processes like laser welding.

Recommended or Required Reading

Advanced Weding Process, John Norrish, İnstitüte of Physics Publishing.

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Preparation for welding applications

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Müslüm Koç

Program Outcomes

1. Know solid state welding method
2. Know laser welding method
3. Knowl high-technology applications of industrial welding methods.
4. Knows the applications of solid-state welding methods in the maritime industry.
5. know the applications of laser welding in the aluminum yacht industry.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Creating a course syllabus		Presentation, Qestion and Answer	Introduction to the course syllabus, Introduction to solid-state welding methods.	video, animation
2	Repeat of last week's		Presentation, Qestion and Answer	Diffison welding	video, animation
3	Repeat of last week's		Presentation, Qestion and Answer	Frtiction welding	video, animation
4	Repeat of last week's		Presentation, Qestion and Answer	Friction stir processing	video, animation
5	Repeat of last week's		Presentation, Qestion and Answer	Stud Welding	video, animation
6	Repeat of last week's		Presentation, Qestion and Answer	Explosion source	video, animation
7	Repeat of last week's		Presentation, Qestion and Answer	High-Frequency Welding	video, animation
8				Exam	
9	Repeat of last week's		Presentation, Qestion and Answer	Laser welding	video, animation
10	Repeat of last week's		Presentation, Qestion and Answer	Laser welding	video, animation
11	Repeat of last week's		Presentation, Qestion and Answer		Laser welding video, animation
12	Repeat of last week's		Presentation, Qestion and Answer	Technological developments in MIG/MAG welding	video, animation
13	Repeat of last week's		Presentation, Qestion and Answer	Technological developments in MIG/MAG welding	video, animation
14	Repeat of last week's		Presentation, Qestion and Answer	Technological developments in in GTAW welding	video, animation
15	Repeat of last week's		Presentation, Qestion and Answer	Technological developments in in GTAW welding	video, animation

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	4,00
Derse Katılım	14	3,00
Final Sınavı Hazırlık	1	6,00
Vize	1	1,00
Final	1	1,00
Ders Öncesi Bireysel Çalışma	14	2,00
Vize	0	0,00

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 / 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	0											5			
L.O. 2	5	0											5			
L.O. 3	5	0											5			
L.O. 4	5	0											5			
L.O. 5	5	0											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 : Know solid state welding method

L.O. 2 : Know laser welding method

L.O. 3 : Knowl high-technology applications of industrial welding methods.

L.O. 4 : Knows the applications of solid-state welding methods in the maritime industry.

L.O. 5 : know the applications of laser welding in the aluminum yacht industry.

İndirilme Tarihi
21.10.2026 18:31:28

GMP2112 - Ship Structural Strength - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To give basic concepts of strength of material and to gain ability of solving simple dimension problems which encounter different engineering branch.

Course Contents

Internal Forces / Uniaxial Stress / Biaxial and Triaxial Stress / Mohr Circles/ Shear force / Moment of inertia on plane sections / General Bending / Torsion

Recommended or Required Reading

İnan, M ., "Cisimlerin Mukavemeti",Prof.Dr. Mehmet H.Omurtag, "Mukavemet (Cilt 1)

Planned Learning Activities and Teaching Methods

Theoretical and problem solving practice

Recommended Optional Programme Components

İnan, M ., "Cisimlerin Mukavemeti",Prof.Dr. Mehmet H.Omurtag, "Mukavemet (Cilt 1)"

Instructor's Assistants

Assoc. Prof. Bilal AYDOĞAN

Presentation Of Course

Face to face-formal education

Dersi Veren Öğretim Elemanları

Prof. Dr. Bilal Aydoğan

Program Outcomes

1. To gain knowledge about internal forces, uniaxial and multiaxial stress state and moment of inertia
2. Students shall be able to solve indetermine problems related to strength of materials.
3. To gain ability of choosing, developing and designing of a machine, a part of machine or process as providing the expected performance, manufacturing properties, economy and productivity
4. To gain ability of identification, modeling, formulating and solving the problems of engineering and related areas
5. The student can calculate the optimum strength material and cost in a business.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	course syllabus		Oral presantation, Question-answer	course Syllabus- Section Effects	Solving porblems
2	Review of the previous week		Oral presantation, Question-answer		Solving porblems
3	Review of the previous week		Oral presantation, Question-answer	Uniaxial Stress State	Solving porblems
4	Review of the previous week		Oral presantation, Question-answer	Uniaxial Stress State	Solving porblems
5	Review of the previous week		Oral presantation, Question-answer	Biaxial and Triaxial Stress States, Mohr Circle	Solving porblems
6	Review of the previous week		Oral presantation, Question-answer		Solving porblems
7	Review of the previous week		Oral presantation, Question-answer		Solving porblems
8				Moments of Inertia of Plane Sections	Solving porblems
9	Review of the previous week		Oral presantation, Question-answer	Cutting Force	Solving porblems
10	Review of the previous week		Oral presantation, Question-answer	Bending	Solving porblems
11	Review of the previous week		Oral presantation, Question-answer	Bending	Solving porblems
12	Review of the previous week		Oral presantation, Question-answer	Torsion	Solving porblems
13	Review of the previous week		Oral presantation, Question-answer	Torsion	Solving porblems
14	Review of the previous week		Oral presantation, Question-answer	Applications	Solving porblems
15	Review of the previous week		Oral presantation, Question-answer	Applications	Solving porblems

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	1,00
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	2,00
Problem Çözme	4	3,00

Assesments

Activities	Weight (%)
Vize	40,00
Kısa Sınav	0,00
Ödev	0,00
Derse Katılım	0,00
Uygulama / Pratik	0,00
Araştırma Sunumu	0,00
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			4												4
L.O. 2	5			5												4
L.O. 3	5			4												5
L.O. 4	5			5												5
L.O. 5	5			4												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 : To gain knowledge about internal forces, uniaxial and multiaxial stress state and moment of inertia

L.O. 2 : Students shall be able to solve indetermine problems related to strength of materials.

L.O. 3 : To gain ability of choosing, developing and designing of a machine, a part of machine or process as providing the expected performance, manufacturing properties, economy and productivity

L.O. 4 : To gain ability of identification, modeling, formulating and solving the problems of engineering and related areas

L.O. 5 : The student can calculate the optimum strength material and cost in a business.

İndirilme Tarihi

21.10.2026 18:32:30

GMP2113 - Green Deal and Sustainable Maritime - 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	3,00
Vize	1	3,00
Final	1	3,00
Araştırma Sunumu	14	3,00

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		2								5	3					
L.O. 2		2								5	4					
L.O. 3		2								5	4					
L.O. 4		2								5	4					
L.O. 5		2								5	4					

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 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

21.10.2026 18:33:34

GMP2114 - Maritime Project Management - 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 maritime works and to gain relevant skills.

Course Contents

The content of this course provides a basic introduction to preparing projects in the maritime 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

Öğüt, A. S. (2020). Proje yönetimi: Analitik yaklaşımlar (4. bs.). Eğitim Yayınevi. Project Management Institute. (2021). A guide to the project management body of knowledge (PMBOK guide) (7. bs.). Project Management Institute. Larson, E., & Gray, C. (2017). Project management: The managerial process (7th ed.). McGraw-Hill Education.

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

Assoc. Prof. Uğur KARADURMUŞ

Presentation Of Course

Face to Face

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Uğur Karadurmuş

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		Lecture	Projects and Types	
2	Lesson preparation notes		Lecture, Discussion, Question and answer	Project Management and Components	
3	Lesson preparation notes		Lecture, Discussion, Question and answer	Feasibility Analyses	
4	Lesson preparation notes		Lecture, Discussion, Question and answer	Project Planning: Time – Cost – Resources	
5	Lesson preparation notes		Lecture, Discussion, Question and answer	Concept of Risk and Risk Assessment	
6	Lesson preparation notes		Lecture, Discussion, Question and answer	Project Preparation Principles	
7	Lesson preparation notes		Lecture, Discussion, Question and answer	Project Preparation and Development Process	
8	Lesson preparation notes		Lecture, Discussion, Question and answer	Project Completion and File Preparation	
9	Lesson preparation notes		Lecture, Discussion, Question and answer	Project Monitoring and Information Systems	
10	Lesson preparation notes		Lecture, Discussion, Question and answer	Sample Maritime Projects	
11	Lesson preparation notes		Lecture, Discussion, Question and answer	Student Project Presentations – 1	
12	Lesson preparation notes		Lecture, Discussion, Question and answer	Student Project Presentations – 2	
13	Lesson preparation notes		Lecture, Discussion, Question and answer	Student Project Presentations – 3	
14	Lesson preparation notes		Lecture, Discussion, Question and answer	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 / 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						4								2		
L.O. 2						4								3		
L.O. 3						4								3		
L.O. 4						4								4		
L.O. 5						4								3		

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 : 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

21.10.2026 18:34:31

GMP2115 - 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 / 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															

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 :

L.O. 2 :

L.O. 3 :

L.O. 4 :

L.O. 5 :

İndirilme Tarihi
21.10.2026 18:35:13

GMP2116 - HVAC and Refrigeration on Ships - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To teach the design calculations for refrigeration and air conditioning systems.

Course Contents

Introduction to refrigeration and basic concepts. Vapor-compression, multi-stage vapor-compression, and gas-compression refrigeration cycles. Coefficient of performance (COP). Marine refrigeration systems. Refrigerants and refrigerant selection. Refrigeration system components: condenser, expansion valve, evaporator, compressor. Compressor types and operating principles. Variable-speed compressors. Selection of condenser/evaporator types. Energy efficiency. Calculation of heating and cooling loads in systems. Refrigeration of units on container ships. Design of cold storage facilities. Refrigerant charging and defrosting. Common refrigeration system malfunctions and troubleshooting. Moist air thermodynamics and air conditioning. Use of psychrometric charts. Air conditioning processes: heating, cooling, humidification, and dehumidification. Air duct design. Cooling tower calculations and design. Air conditioning applications: engine room ventilation and accommodation area air conditioning.

Recommended or Required Reading

Hundy G.H., Trott A.R., Welch T.C., Refrigeration and Air-Conditioning, Butterworth Heinemann, 2008. James Harbach, Marine Refrigeration and Air-Conditioning, Cornell Maritime Press, 2005.

Planned Learning Activities and Teaching Methods

Oral presentation – problem solving

Recommended Optional Programme Components

Çengel, Y. A., & Boles, M. A. (2001). Thermodynamics: An engineering approach. Boston: McGraw-Hill. Fahrettin Küçükşahin, Soğutma ve İklimlendirme, Birsen Yayınevi, 2011.

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. Students gain knowledge about refrigeration and cycles.
2. Gains knowledge about refrigerants and their properties.
3. Gains knowledge about cooling system components.
4. Acquires the skills to design highly energy-efficient cooling systems.
5. Acquires the skill to design HVAC systems.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1			Oral presantation, question-answer	course sybllaus- Introduction to refrigeration and basic concepts	Introduction to refrigeration and basic concepts
2	Repeat of last week's		Oral presantation, question-answer	Refrigeration cycles: vapor-compression, multistage vapor-compression, gas-compression. Coefficient of Performance (COP).	Refrigeration cycles: vapor-compression, multistage vapor-compression, gas-compression. Coefficient of Performance (COP).
3	Repeat of last week's		Oral presantation, question-answer	Refrigeration cycles: Marine refrigeration systems	Refrigeration cycles: Marine refrigeration systems
4	Repeat of last week's		Oral presantation, question-answer	Refrigerants. Refrigerant selection.	Refrigerants. Refrigerant selection.
5	Repeat of last week's		Oral presantation, question-answer	Cooling system and its components: condenser, expansion valve, evaporator, compressor	Cooling system and its components: condenser, expansion valve, evaporator, compressor
6	Repeat of last week's		Oral presantation, question-answer	Refrigeration system and components: Compressor types and operating principles, variable-speed compressors. Selection of the appropriate condenser/evaporator type. Energy efficiency.	Refrigeration system and components: Compressor types and operating principles, variable-speed compressors. Selection of the appropriate condenser/evaporator type. Energy efficiency.
7	Repeat of last week's		Oral presantation, question-answer	Designing a complex system – Assigning project topics to students	Designing a complex system – Assigning project topics to students
9	Repeat of last week's		Oral presantation, question-answer	Calculation of heating/cooling loads in heating and cooling systems. Refrigeration units on container ships. Cold storage design.	Calculation of heating/cooling loads in heating and cooling systems. Refrigeration units on container ships. Cold storage design.
10	Repeat of last week's		Oral presantation, question-answer	Refrigerant charging and defrosting. Malfunctions in refrigeration systems and methods for resolving them.	Refrigerant charging and defrosting. Malfunctions in refrigeration systems and methods for resolving them.
11	Repeat of last week's		Oral presantation, question-answer	Thermodynamics of moist air and air conditioning. Use of the psychrometric chart.	Thermodynamics of moist air and air conditioning. Use of the psychrometric chart.
12	Repeat of last week's		Oral presantation, question-answer	Thermodynamics of moist air and air conditioning. Use of the psychrometric chart.	Thermodynamics of moist air and air conditioning. Use of the psychrometric chart.
13	Repeat of last week's		Oral presantation, question-answer	Use of the psychrometric chart and design calculations for heating, cooling, humidification, and dehumidification processes in HVAC systems. Design of air ducts. Cooling tower calculations and design.	Use of the psychrometric chart and design calculations for heating, cooling, humidification, and dehumidification processes in HVAC systems. Design of air ducts. Cooling tower calculations and design.
14	Repeat of last week's		Oral presantation, question-answer	Evaluation of project topics	Evaluation of project topics
15	Repeat of last week's		Oral presantation, question-answer	HVAC applications: ventilation of the engine room, air conditioning of living quarters.	HVAC applications: ventilation of the engine room, air conditioning of living quarters.

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
Proje	1	20,00

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															

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.

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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 gain knowledge about refrigeration and cycles.

L.O. 2 : Gains knowledge about refrigerants and their properties.

L.O. 3 : Gains knowledge about cooling system components.

L.O. 4 : Acquires the skills to design highly energy-efficient cooling systems.

L.O. 5 : Acquires the skill to design HVAC systems.

İndirilme Tarihi

21.10.2026 18:36:14

GMP2117 - Ship Theory - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim is to equip students with the skills to perform geometric calculations of ship forms, analyze hydrostatic properties, calculate ship stability, and apply international maritime safety regulations (IMO).

Course Contents

Calculation of the ship's area, volume and center of gravity using numerical integration methods (Simpson rules); transverse and longitudinal stability of the ship at small and large angles (static/dynamic stability); the effect of liquids in tanks on balance (free surface effect); inclination test; It covers the fore and aft of the ship depending on weight changes and the principles of damaged stability in case the ship gets flooded (injured).

Recommended or Required Reading

Ship Theory (Vol. 1 & Vol. 2) – Prof. Dr. Ömer Gören (İTÜ Foundation Publications)

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Continuing the lesson

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Serkan Yüksel

Program Outcomes

1. It can calculate ship form areas, volumes and centers of gravity using integration methods.
2. It can analyze the ship's longitudinal and transverse stability at small and large angles.
3. Can apply the free surface effect (FSE) and the principles of the inclining experiment.
4. Can evaluate the equilibrium conditions of the ship in cases of flooding (injury) and subdivision.
5. Acquires the ability to implement international maritime safety regulations (IMO).

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Explanation of the topic and examples	Introduction to Ship Theory: Basic definitions, Archimedes' principle, flotation, and conditions for flotation.	Review of basic terms and ship form coefficients.
2	Topic review and preliminary study		Explanation of the topic and examples	Numerical Integration Methods: Trapezoidal and Simpson's Rules (1st and 2nd Rules).	Numerical Integration Methods: Trapezoidal and Simpson's Rules (1st and 2nd Rules).
3	Topic review and preliminary study		Explanation of the topic and examples	Numerical Integration Methods: Trapezoidal and Simpson's Rules (1st and 2nd Rules).	Numerical Integration Methods: Trapezoidal and Simpson's Rules (1st and 2nd Rules).
4	Topic review and preliminary study		Explanation of the topic and examples	Calculation of Ship Form Elements: Finding the area, volume and centers of these quantities (LCB, VCB, LCF).	Calculation of Ship Form Elements: Finding the area, volume and centers of these quantities (LCB, VCB, LCF).
5	Topic review and preliminary study		Explanation of the topic and examples	Calculation of Ship Form Elements: Finding the area, volume and centers of these quantities (LCB, VCB, LCF).	Calculation of Ship Form Elements: Finding the area, volume and centers of these quantities (LCB, VCB, LCF).
6	Topic review and preliminary study		Explanation of the topic and examples	Transverse Stability at Small Angles: Metacentric height (GM), righting arm (GZ), and stability criteria.	Transverse Stability at Small Angles: Metacentric height (GM), righting arm (GZ), and stability criteria.
7	Topic review and preliminary study		Explanation of the topic and examples	Transverse Stability at Small Angles: Metacentric height (GM), righting arm (GZ), and stability criteria.	Transverse Stability at Small Angles: Metacentric height (GM), righting arm (GZ), and stability criteria.
8				Midterm exam	Midterm exam
9	Topic review and preliminary study		Explanation of the topic and examples	Free Surface Effect (FSE): Effect of fluid movements in tanks on transverse stability and GM value.	Free Surface Effect (FSE): Effect of fluid movements in tanks on transverse stability and GM value.
10	Topic review and preliminary study		Explanation of the topic and examples	Stability at Large Angles: Righting Lever (GZ) Curve and Cross-Curve (KN) Stability Curves.	Stability at Large Angles: Righting Lever (GZ) Curve and Cross-Curve (KN) Stability Curves.
11	Topic review and preliminary study		Explanation of the topic and examples	Stability at Large Angles: Righting Lever (GZ) Curve and Cross-Curve (KN) Stability Curves.	Stability at Large Angles: Righting Lever (GZ) Curve and Cross-Curve (KN) Stability Curves.
12	Topic review and preliminary study		Explanation of the topic and examples	Special Loading Conditions: Suspended loads, ship grounding, and docking (dry-docking) stability.	Special Loading Conditions: Suspended loads, ship grounding, and docking (dry-docking) stability.
13	Topic review and preliminary study		Explanation of the topic and examples	Special Loading Conditions: Suspended loads, ship grounding, and docking (dry-docking) stability.	Special Loading Conditions: Suspended loads, ship grounding, and docking (dry-docking) stability.
14	Topic review and preliminary study		Explanation of the topic and examples	Damage Stability: Ingress of water (bilging) and the concept of permeability.	Damage Stability: Ingress of water (bilging) and the concept of permeability.
15	Topic review and preliminary study		Explanation of the topic and examples	Compartmentation and Safety Curves: Layout of watertight bulkheads according to SOLAS rules.	Compartmentation and Safety Curves: Layout of watertight bulkheads according to SOLAS rules.

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	2,00
Ders Sonrası Bireysel Çalışma	14	3,00
Ara Sınav Hazırlık	1	3,00
Final Sınavı Hazırlık	1	3,00

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	3												2			5
L.O. 2	3												2			5
L.O. 3	3												2			5
L.O. 4	3												2			5
L.O. 5	3												2			5

Table :

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

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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 : It can calculate ship form areas, volumes and centers of gravity using integration methods.

L.O. 2 : It can analyze the ship's longitudinal and transverse stability at small and large angles.

L.O. 3 : Can apply the free surface effect (FSE) and the principles of the inclining experiment.

L.O. 4 : Can evaluate the equilibrium conditions of the ship in cases of flooding (injury) and subdivision.

L.O. 5 : Acquires the ability to implement international maritime safety regulations (IMO).

İndirilme Tarihi

21.10.2026 18:37:50

GMP2118 - Ship Design - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim is to equip students with the philosophy of modern ship design and the processes ranging from conceptual to detailed design, as well as the ability to design a ship's principal dimensions, form, stability, and performance in compliance with international rules (IMO/ILO) and classification society regulations.

Course Contents

You will learn the Design Spiral logic, which encompasses all design processes of a ship from the concept stage to the final production stage and consists of interconnected steps

Recommended or Required Reading

Ship Design for Efficiency and Economy, Volker Bertram and H. Schneekluth

Planned Learning Activities and Teaching Methods

Theory and Practice

Recommended Optional Programme Components

Calculation, pre-reading, and drawing

Instructor's Assistants

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Serkan Yüksel

Program Outcomes

1. Ability to comprehend the stages of modern ship design and the Design Spiral approach
2. Ability to determine ship principal dimensions and form coefficients using statistical data and regression analyses
3. Ability to design ship form, manage lines plan and hydrostatic analysis processes
4. Ability to perform uninjured and injured stability calculations according to international IMO criteria
5. Ability to calculate ship resistance, propulsion system, freeboard, tonnage and longitudinal strength in accordance with international rules

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Explanation of the topic, exercises, and drawing	Introduction to Ship Design and the concept of the Design Spiral.	Review of a sample design spiral.
2	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Definition of the Task and Determination of Key Dimensions.	Dimension estimation via regression analysis.
3	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Principles of Form Design and Lines Plan.	Application for the selection of form coefficients.
4	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Hydrostatic and Bonjean Calculation Principles.	Design of Bonjean curves.
5	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Intact Stability and IMO Criteria.	Intact Stability and IMO Criteria.
6	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Damage Stability Calculation Methods.	Damage Stability Calculation Methods.
7	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Ship Longitudinal Strength and Classification Rules.	Ship Longitudinal Strength and Classification Rules.
8	Midterm exam preparation		Midterm exam	Midterm exam	Midterm exam
9	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Propulsion System and Propeller Selection Principles.	Propulsion System and Propeller Selection Principles.
10	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	General Arrangement Design.	General Arrangement Design.
11	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	General Arrangement Design.	General Arrangement Design.
12	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Freeboard (ILLC) and Tonnage (ITC 69) Calculations.	Freeboard (ILLC) and Tonnage (ITC 69) Calculations.
13	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Freeboard (ILLC) and Tonnage (ITC 69) Calculations.	Freeboard (ILLC) and Tonnage (ITC 69) Calculations.
14	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Weight Distribution and Lightweight Estimation.	Weight Distribution and Lightweight Estimation.
15	Topic review and pre-reading		Explanation of the topic, exercises, and drawing	Weight Distribution and Lightweight Estimation.	Weight Distribution and Lightweight Estimation.

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	2,00
Ders Sonrası Bireysel Çalışma	14	3,00
Ara Sınav Hazırlık	1	3,00
Final Sınavı Hazırlık	1	3,00

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			4									5		2		
L.O. 2			4									5		2		
L.O. 3			4									5		2		
L.O. 4			4									5		2		
L.O. 5			4									5		2		

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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 : Ability to comprehend the stages of modern ship design and the Design Spiral approach

L.O. 2 : Ability to determine ship principal dimensions and form coefficients using statistical data and regression analyses

L.O. 3 : Ability to design ship form, manage lines plan and hydrostatic analysis processes

L.O. 4 : Ability to perform uninjured and injured stability calculations according to international IMO criteria

L.O. 5 : Ability to calculate ship resistance, propulsion system, freeboard, tonnage and longitudinal strength in accordance with international rules

İndirilme Tarihi

21.10.2026 18:38:39

GMP2119 - Wooden Boat Construction - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The objective of this course is; to provide students with theoretical and practical knowledge of traditional and modern wooden boat construction technologies, wood types, and composite materials used in production. It aims to develop skills in reading lofting plans and offset tables, mold making, keel and frame construction, and applying wooden planking methods in accordance with international classification society (Lloyd's) rules and occupational safety standards. Furthermore, it aims to train competent technical staff who can manage wooden boat production processes independently or within a team in shipyards and boat manufacturing facilities after graduation.

Course Contents

General characteristics and types of wooden boats; wood and auxiliary materials used in boat construction; wood selection and processing; reading boat plans and basic dimensioning; boat construction methods; preparation and assembly of keel and framing systems; wood planking applications; fabrication of deck and interior structural elements; bonding and joining techniques; sealing applications; surface preparation; painting and varnishing processes; general characteristics of boat fittings; quality control during production stages; maintenance and repair of wooden boats; and occupational health and safety.

Recommended or Required Reading

Ahşap Tekne Yapımı, Milli Eğitim Bakanlığı, Mesleki ve Teknik Eğitim Genel Müdürlüğü

Planned Learning Activities and Teaching Methods

oral presentation, Q&A

Recommended Optional Programme Components

Gemi İnşaatı ve Gemi Makineleri – Tekne Yapım Teknikleri

Instructor's Assistants

Prof. Dr. Bilal AYDOĞAN

Presentation Of Course

facetoface

Dersi Veren Öğretim Elemanları

Prof. Dr. Bilal Aydoğan

Program Outcomes

1. Identifies and selects wood and composite materials suitable for marine conditions.
2. Produces a 1:1 scale template by reading the lines plan and offset table.
3. It manufactures fundamental structural elements such as the keel, stem, and frames.
4. It applies traditional and modern wood veneering methods to the body.
5. It provides surface protection using caulking, putty, epoxy, and marine paint/varnish.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Ders izlencesi		Oral presantation, question-answer	Introduction and Terminology	Introduction and Terminology
2	Repeat of last week's		Oral presantation, question-answer	International Rules and Standards	International Rules and Standards
3	Repeat of last week's		Oral presantation, question-answer	Materials Science - I (Wood)	Materials Science - I (Wood)
4	Repeat of last week's		Oral presantation, question-answer	Materials Science - II (Binders and Adhesives)	Materials Science - II (Binders and Adhesives)
5	Repeat of last week's		Oral presantation, question-answer	Lofting and Offset Table	Lofting and Offset Table
6	Repeat of last week's		Oral presantation, question-answer	Template and Pattern Making	Template and Pattern Making
7	Repeat of last week's		Oral presantation, question-answer	Template and Pattern Making	Template and Pattern Making
8				Mid-exam	
9	Repeat of last week's		Oral presantation, question-answer	Fabrication of Basic Structural Elements	Fabrication of Basic Structural Elements
10	Repeat of last week's		Oral presantation, question-answer	Post (Curved) Production	Post (Curved) Production
11	Repeat of last week's		Oral presantation, question-answer	Skeleton Setup and Shaping	Skeleton Setup and Shaping
12	Repeat of last week's		Oral presantation, question-answer	Wood Veneering Techniques	Wood Veneering Techniques
13	Repeat of last week's		Oral presantation, question-answer	Wood Veneering Techniques	Wood Veneering Techniques
14	Repeat of last week's		Oral presantation, question-answer	Interior and Deck Construction	Interior and Deck Construction
15	Repeat of last week's		Oral presantation, question-answer	Surface Treatments and Puttying	Surface Treatments and Puttying

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Ders Öncesi Bireysel Çalışma	14	2,00
Derse Katılım	14	2,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	12,00
Vize	1	1,00
Final Sınavı Hazırlık	1	12,00
Final	1	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	3												4	3		
L.O. 2	4												4	4		
L.O. 3	3												5	4		
L.O. 4	5												4	4		
L.O. 5	5												3	4		

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 : Identifies and selects wood and composite materials suitable for marine conditions.

L.O. 2 : Produces a 1:1 scale template by reading the lines plan and offset table.

L.O. 3 : It manufactures fundamental structural elements such as the keel, stem, and frames.

L.O. 4 : It applies traditional and modern wood veneering methods to the body.

L.O. 5 : It provides surface protection using caulking, putty, epoxy, and marine paint/varnish.

İndirilme Tarihi

21.10.2026 18:47:13

GMP2120 - 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	3,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	10,00
Ders Sonrası Bireysel Çalışma	14	2,00
Proje	1	18,00

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						5	4									
L.O. 2						5	4									
L.O. 3						5	4									
L.O. 4						5	4									
L.O. 5						5	4									
L.O. 6						5	4									

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 : 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

21.10.2026 18:47:57

GMP2121 - Entrepreneurship - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

The aim of this course is to introduce students to the concept of entrepreneurship, the characteristics of entrepreneurs, and the entrepreneurial process. It also aims to equip students with the ability to develop their own business ideas and transform them into business plans. Additionally, the course covers the fundamental dynamics of establishing and managing small businesses, helping students give knowledge to start and operate their own ventures.

Course Contents

This course begins with the concept of entrepreneurship, types of entrepreneurship, and the core characteristics of entrepreneurs. It focuses on essential topics such as business idea development, business plan preparation, and the establishment, management, and financing of small businesses. Students also gain practical knowledge about implementing business ideas by exploring current entrepreneurship trends and the roles of supporting institutions.

Recommended or Required Reading

Bozkurt, Ö. & Kalkan, A. (2022). Girişimcilik: Teori ve Uygulama, 6. Baskı, Seçkin Yayıncılık. KOSGEB Yayınları – İşletme Sahipleri ve Girişimciler için Kaynaklar TÜBİTAK Girişimcilik Destekleri – Program dokümanları Güncel akademik makaleler ve vaka çalışmaları

Planned Learning Activities and Teaching Methods

Lectures, class discussions, group work, case studies, entrepreneurship simulations, and business plan preparation exercises.

Recommended Optional Programme Components

Students are encouraged to participate actively in class, follow current examples of entrepreneurship, and stay informed about developments in the business world. Timely and attentive completion of practical assignments and projects is expected. To enhance understanding of the entrepreneurship ecosystem, field research and visits to institutions such as KOSGEB, TÜBİTAK, and technology transfer offices may be recommended.

Instructor's Assistants

Öğr. Gör. Dr. Hayrullah Altınok

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan

Program Outcomes

1. Explains the concept of entrepreneurship and the core characteristics of an entrepreneur.
2. Identifies and distinguishes between different types of entrepreneurship.
3. Develops a viable business idea and applies evaluation criteria.
4. Explains the main components of a business plan and creates a sample plan.
5. Describes the establishment process and legal structures of small businesses.
6. Recognizes entrepreneurship support institutions and evaluates the opportunities they provide.
7. Improves teamwork and project development skills.
8. Generates solutions to problems from an entrepreneurial perspective and thinks innovatively.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Entrepreneurship and Related Concepts	In-class activity
2	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Entrepreneurial Traits and Types of Entrepreneurship	In-class activity
3	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Fostering an Entrepreneurial Culture	In-class activity
4	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Creativity, Innovation, and Opportunity Recognition	In-class activity
5	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Types of Entrepreneurs	In-class activity
6	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Characteristics of Successful Entrepreneurs	In-class activity
7	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Factors of Success and Failure in Entrepreneurship	In-class activity
8	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Definition, Features, and Classification of Small Businesses	In-class activity
9	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Startup Creation Process	In-class activity
10	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Studies in the Feasibility Study (General Framework)	In-class activity
11	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Market Research	In-class activity
12	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Preparation of the Marketing Plan	In-class activity
13	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Writing and Presenting the Marketing Plan	In-class activity
14	Pre-reading		Lectures, discussions, group work, case studies, entrepreneurship simulations, business plan preparation exercises	Production Research	In-class activity

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	2,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	10,00
Proje	1	15,00

Assesments

Activities	Weight (%)
Vize	30,00
Final	60,00
Proje	10,00

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							5									
L.O. 7							5									
L.O. 8							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 : Explains the concept of entrepreneurship and the core characteristics of an entrepreneur.

L.O. 2 : Identifies and distinguishes between different types of entrepreneurship.

L.O. 3 : Develops a viable business idea and applies evaluation criteria.

L.O. 4 : Explains the main components of a business plan and creates a sample plan.

L.O. 5 : Describes the establishment process and legal structures of small businesses.

L.O. 6 : Recognizes entrepreneurship support institutions and evaluates the opportunities they provide.

L.O. 7 : Improves teamwork and project development skills.

L.O. 8 : Generates solutions to problems from an entrepreneurial perspective and thinks innovatively.

İndirilme Tarihi

21.10.2026 18:48:30

GMP2122 - 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

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 in-class practice	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 in-class practice	Concepts of Knowledge, Skills and Personality	In-class practice on the subject
3	Pre-reading		Subject explanation and in-class practice	Concepts of Intelligence, Ability and Affective Characteristics (Interest and Attitude)	In-class practice on the subject
4	Pre-reading		Subject explanation and in-class practice	Goal and Competency Concepts	In-class practice on the subject

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
5	Pre-reading		Subject explanation and in-class practice	Career, Career Development and Career Management	In-class practice on the subject
6	Pre-reading		Subject explanation and in-class practice	Career Planning	In-class practice on the subject
7	Pre-reading		Subject explanation and in-class practice	Career Support	In-class practice on the subject
8	Pre-reading		Subject explanation and in-class practice	Communication	In-class practice on the subject
9	Pre-reading		Subject explanation and in-class practice	Communication	In-class practice on the subject
10	Pre-reading		Subject explanation and in-class practice	Soft Skills	In-class practice on the subject
11	Pre-reading		Subject explanation and in-class practice	Curriculum Vitae Preparation and Interviews	In-class practice on the subject
12	Pre-reading		Subject explanation and in-class practice	Curriculum Vitae Preparation and Interviews	In-class practice on the subject
13	Pre-reading		Subject explanation and in-class practice	Seminar	In-class practice on the subject
14	Pre-reading		Subject explanation and in-class practice	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	3,00
Ders Sonrası Bireysel Çalışma	14	2,00
Ara Sınav Hazırlık	1	10,00
Final Sınavı Hazırlık	1	10,00
Rol Yapma/Drama	1	3,00
Ödev	1	5,00
Ders Öncesi Bireysel Çalışma	14	1,00

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							5									
L.O. 2							5									
L.O. 3							5									
L.O. 4							5									
L.O. 5							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 : 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
23.10.2026 11:27:32

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.

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

The practical and community-engagement dimensions of the course should be emphasised.

Instructor's Assistants

Assoc. Prof. Uğur KARADURMUŞ

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Inst. Müslüm Koç 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	Scenario exercise, Case analysis, Developing a project idea
2	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Active citizenship and civil society	Scenario exercise, Case analysis, Developing a project idea
3	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Community needs analysis	Scenario exercise, Case analysis, Developing a project idea
4	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Volunteering and sustainability	Scenario exercise, Case analysis, Developing a project idea
5	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Environmental and scientific volunteering	Scenario exercise, Case analysis, Developing a project idea
6	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Social volunteering and inclusion	Scenario exercise, Case analysis, Developing a project idea
7	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Disaster and emergency volunteering	Scenario exercise, Case analysis, Developing a project idea
8	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Ethics in volunteering	Scenario exercise, Case analysis, Developing a project idea
9	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Volunteering project development	Scenario exercise, Case analysis, Developing a project idea
10	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Project planning and teamwork	Scenario exercise, Case analysis, Developing a project idea
11	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Communication and digital volunteering	Scenario exercise, Case analysis, Developing a project idea
12	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Implementation of volunteering activities	Scenario exercise, Case analysis, Developing a project idea
13	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Student Volunteer Activities	Scenario exercise, Case analysis, Developing a project idea
14	Review of the previous week, preparation for the lesson		Theoretical presentation, case study, best practices	Student Volunteer Activities	Scenario exercise, Case analysis, Developing a project idea

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
Araştırma Sunumu	1	8,00

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								3								
L.O. 2								5								
L.O. 3								5								
L.O. 4								5								
L.O. 5								4								

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 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

23.10.2026 11:28:23

ISE2200 - Workplace Training - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To apply Theoretical knowledge which had been taught in the courses in the related enterprises which is approved for the program.

Course Contents

To be able to apply the subjects learned in the lessons. Adapting to working life. Reinforcing the practice with theory. To practice business processes related to the profession. Providing work discipline. To be able to offer solutions to problems in business processes. To be able to use the sectoral tools suitable for the field. Reinforcing the practice with theory. To practice business processes related to the profession. Providing work discipline. To be able to offer solutions to problems in business processes. To be able to use the sectoral tools suitable for the field.

Recommended or Required Reading

https://denizcilikmyo.bandirma.edu.tr/tr/denizisletmeprog

Planned Learning Activities and Teaching Methods

Practical training in the workplace

Recommended Optional Programme Components

Continuing the lesson

Instructor's Assistants

Öğr. Gör. Deniz Güneş, Dr. Öğr. Üyesi Onur Saylan, Öğr. Gör. Dr. Müslüm Koç, Öğr. Gör. Alparslan F. Kulakaç

Presentation Of Course

Practical training in the workplace

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Onur Saylan Inst. Serkan Yüksel Inst. Deniz Güneş Assoc. Prof. Dr. Sabri Alkan Prof. Dr. Bilal Aydoğan Inst. Müslüm Koç Assoc. Prof. Dr. Mehmet Sinan Tam

Program Outcomes

1. To be able to apply the subjects learned in lessons.
2. Adapting to working life
3. Strengthening theory and practice together
4. To apply business processes related to the profession
5. Providing work discipline
6. To be able to offer solutions to problems in business processes
7. To be able to use sectoral tools and equipment suitable for the field

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Course syllabus		Implementation in the Workplace	Orientation training	
2	Replay of the previous week		Implementation in the Workplace	Having detailed knowledge of workflows	
3	Replay of the previous week		Implementation in the Workplace	Having detailed knowledge of workflows	
4	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
5	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
6	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
7	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
8	Replay of the previous week				
9	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
10	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
11	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
12	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
13	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
14	Replay of the previous week		Implementation in the Workplace	Implementing the fundamental principles of business processes	
15			Implementation in the Workplace	Evaluating the activities related to workplace training together with company officials and the student.	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Uygulama / Pratik	14	20,00
Final Sınavı Hazırlık	1	21,00
Vize	1	1,00
Final	1	1,00
Ara Sınav Hazırlık	1	21,00
Rapor	2	14,00

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	3	4	4	3	4	3	3	4	1	1	3	3	4	4	4
L.O. 2	5	3	4	4	3	4	3	3	4	1	1	3	3	4	4	4
L.O. 3	5	3	4	4	3	4	3	3	4	1	1	3	3	4	4	4
L.O. 4	5	3	4	4	3	4	3	3	4	1	1	3	3	4	4	4
L.O. 5	5	3	4	4	3	4	3	3	4	1	1	3	3	4	4	4
L.O. 6	5	3	4	4	3	4	3	3	4	1	1	3	3	4	4	4
L.O. 7	5	3	4	4	3	4	3	3	4	1	1	3	3	4	4	4

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 : To be able to apply the subjects learned in lessons.

L.O. 2 : Adapting to working life

L.O. 3 : Strengthening theory and practice together

L.O. 4 : To apply business processes related to the profession

L.O. 5 : Providing work discipline

L.O. 6 : To be able to offer solutions to problems in business processes

L.O. 7 : To be able to use sectoral tools and equipment suitable for the field

İndirilme Tarihi

23.10.2026 11:30:01

ISU2200 - Workplace Practice - Denizcilik Meslek Yüksekokulu - Motorlu Araçlar ve Ulaştırma Teknolojileri Bölümü

General Info

Objectives of the Course

To apply Theoretical knowledge which had been taught in the courses in the related enterprises which is approved for the program.

Course Contents

To be able to apply the subjects learned in the lessons. Adapting to working life. Reinforcing the practice with theory. To practice business processes related to the profession. Providing work discipline. To be able to offer solutions to problems in business processes. To be able to use the sectoral tools suitable for the field. Reinforcing the practice with theory. To practice business processes related to the profession. Providing work discipline. To be able to offer solutions to problems in business processes. To be able to use the sectoral tools suitable for the field.

Recommended or Required Reading

Planned Learning Activities and Teaching Methods

Application in the workplace

Recommended Optional Programme Components

Application in the workplace

Instructor's Assistants

Presentation Of Course

Practice

Dersi Veren Öğretim Elemanları

Inst. Müslüm Koç Dr. Öğr. Üyesi Erkan Solmaz Dr. Öğr. Üyesi Onur Saylan Inst. Serkan Yüksel Assoc. Prof. Dr. Sabri Alkan Dr. Öğr. Üyesi Yakup Toktay Dr. Öğr. Üyesi Zafer Maşlakcı Prof. Dr. Bilal Aydoğan Inst. Deniz Güneş

Program Outcomes

1. To be able to apply the subjects learned in lessons.
2. Adapting to working life
3. Strengthening theory and practice together
4. To apply business processes related to the profession
5. Providing work discipline
6. To be able to offer solutions to problems in business processes
7. To be able to use sectoral tools and equipment suitable for the field

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1					Implementation in the Workplace
2					Implementation in the Workplace
3					Implementation in the Workplace
4					Implementation in the Workplace
5					Implementation in the Workplace
6					Implementation in the Workplace
7					Implementation in the Workplace
8					Implementation in the Workplace
9					Implementation in the Workplace
10					Implementation in the Workplace
11					Implementation in the Workplace
12					Implementation in the Workplace
13					Implementation in the Workplace
14					Implementation in the Workplace

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Uygulama / Pratik	14	18,00
Uygulama / Pratik Sonrası Bireysel Çalışma	14	18,00
Ders Öncesi Bireysel Çalışma	2	14,00

Assesments

Activities	Weight (%)
Final	100,00

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	4	2	3	1	3	2	1	1	1	1	3	3	4	4	5
L.O. 2	5	4	2	3	1	3	2	1	1	1	1	3	3	4	4	5
L.O. 3	5	4	2	3	1	3	2	1	1	1	1	3	3	4	4	5
L.O. 4	5	4	2	3	1	3	2	1	1	1	1	3	3	4	4	5
L.O. 5	5	4	2	3	1	3	2	1	1	1	1	3	3	4	4	5
L.O. 6	5	4	2	3	1	3	2	1	1	1	1	3	3	4	4	5
L.O. 7	5	4	2	3	1	3	2	1	1	1	1	3	3	4	4	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.

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

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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 : To be able to apply the subjects learned in lessons.

L.O. 2 : Adapting to working life

L.O. 3 : Strengthening theory and practice together

L.O. 4 : To apply business processes related to the profession

L.O. 5 : Providing work discipline

L.O. 6 : To be able to offer solutions to problems in business processes

L.O. 7 : To be able to use sectoral tools and equipment suitable for the field