Course Code and Name	EKO301 ECONOMY
Course Semester	5
Catalog Content	Understanding economic concepts and interpreting economic events using economic analysis tools Understanding demand and supply concepts, evaluating the effects of price and income on demand and supply quantities Understanding the role of the government in the economy and the concept of mixed economy Examining and evaluating market structures such as perfect competition, monopoly, and imperfect competition Introducing to macroeconomics, understanding the determination of national income, and the concepts of aggregate demand and aggregate supply Examining topics such as money, central banking, monetary system, inflation, and unemployment
Textbook	ECONOMY, Prof. Dr. Kurban Ünlüönen, Doç. Dr. Ahmet Tayfun, Nobel Yayıncılık, 2015
Supplementary Textbooks	Economics by Paul Samuelson and William Nordhaus
Credit	**2 ECTS**
Prerequisites of the Course (	No
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	To explain the basic principles of economic science and the rationale of economic thought
Course Learning Outcomes	1. Understand the basic principles of economic science and the rationale of economic thought 2. To express the price mechanism and the formation of prices. 3. To examine the enterprise and its varieties together with production, costs and production factors. 4. Analyze some current developments with money and banking issues. 5. International economic issues, multinational companies, foreign capital, information exchange and Turkey with applications.
Instruction Methods	Face to face

Weekly Schedule

1. Week	Thinking about Economics and Basic Concepts
2. Week	Common Economic Problems of All Societies
3. Week	Definition of Talebin, Factors Affecting Demand, Demand Flexib
4. Week	Definition of Supply, Factors Affecting Supply, Supply Flexibility
5. Week	Market and Market Price Formation, Market Types
6. Week	Government's Price Intermediary, Ceiling-Based Price Practice
7. Week	Consumer Balance
8. Week	Production and Manufacturing Balance
9. Week	Firm Balance
10. Week	National Income, Factors Determining National Income
11. Week	Employment and Unemployment
12. Week	Income Distribution

	13. Week	Money and the Bank
	14. Week	Foreign Trade
Teaching and Learning Methods *(These are examples. Please fill which activities you use in the course)*	Weekly theoretical course hours 2 Weekly tutorial hours Reading Activities 4 Internet browsing, library work 6 Designing and implementing materials Report preparing Preparing a Presentation Presentations Preparation of Midterm and Midterm Exam 4 Final Exam and Preparation for Final Exam 4	

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	
Assignment		
Application		
Projects		
Practice		
Quiz		
Final Exam	1	
Percent of In-term Studies (%)	60	
Percentage of Final Exam to Total Score (%)	40	
Attendance		

Workload

Activity	**Total Number of Weeks**	**Duration (weekly hour)**	**Total Period Work**
Weekly Theoretical Course Hours	14	2	28
Weekly Tutorial Hours			
Reading Tasks	2	4	8
Studies	1	6	6
Material Design and Implementation			
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	1	4	4
Final Exam and Preperation for Final Exam	1	4	4
Other (should be emphasized)			
Total Workload			50
Total Workload / 25			50/25
Course Credit (ECTS)			2

Contribution Level Between Course

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use					

Learning Outcomes and Program Outcomes		2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis					
		3	Ability to design a complex system, process, device or product under realistic constraints and conditions,	x				
		4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications;	x				
		5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering					
		6	Ability to work efficiently in intra-disciplinary teams.	x				
		7	Ability to work efficiently in multi-disciplinary teams.					
		8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.					
		9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective					
		10	Recognition of the need for lifelong learning; ability to access information, to follow developments in	x				
		11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering	x				
The Course's Lecturer(s) and Contact Informations	Faculty Members of the Department tasarim@gazi.edu.tr							

Contribution of the Course to Program Outcomes

	Program Outcome 1	Program Outcome 2	Program Outcome3	Program Outcome4	Program Outcome5	Program Outcome6	Program Outcome7	Program Outcome 8	Program Outcome9	Program Outcome10	Program Outcome11
TOTAL			**1**	**1**		**1**				**1**	**1**
Learning outcome 1											**1**
Learning outcome 2			**1**								
Learning outcome 3										**1**	
Learning outcome 4				**1**							
Learning outcome 5						**1**					

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	**%50**
Engineering Sciences	**%50**
Engineering Design	%0
Social Sciences	%0
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

COURSE DESCRIPTION FORM	
Course Code and Name	ENG101 ENGLISH 1
Course Semester	1
Catalogue Data of the Course (*Course Content*)	Beginner-level English grammar and vocabulary knowledge Reading, writing, listening, and speaking skills*/
Course Textbooks	Open Mind- Elementary Student's Book Pack Mickey Rodgers, Joanne Taylore-Knowles, Steve Taylore-Knowles
Supplementary Textbooks	Open Mind- Elementary Teacher's Book (Tim Bowen, Yvonne Maruniak) Open Mind- Elementary Workbook (Ingrid Wisniewska, Dorothy E. Zemach)
Credit (*ECTS*)	**2 ECTS**
Prerequisites for the Course (*Attendance Requirements*)	There is no prerequisite for this course. Participation is compulsory.
Course Type	Compulsory
Language of Instruction	English
Course Objectives	Being able to meet basic communication needs encountered in daily life in a foreign language. Being able to express oneself verbally using simple expressions, grammar structures, and vocabulary. Developing the ability to create simple written texts and communicate. Developing listening skills in a foreign language and understanding daily conversations. Developing beginner-level reading skills and understanding simple texts. Gaining the ability to effectively communicate in daily life by combining speaking, listening, reading, and writing skills.
Course Learning Outcomes	1. Basic vocabulary related to various themes (numbers, family, leisure activities, objects, time, directions, and eco-friendly living) can be used when writing and speaking. 2. Oneself and their family can be introduced. 3. Their daily lives and the frequency of their activities can be expressed by asking and answering questions. 4. Various places (home, room, dormitory, city) can be described. 5. The time can be told and expressions related to time can be used. 6. Addresses can be asked for, given, and directions can be provided.
Instruction Method *(Face-to-face, Distance education etc.)*	Face to face
Weekly Schedule of the Course	**1. Week** — Introduction to the course and presenting orientation **2. Week** — Giving and asking personal information such as name, age, nationality etc. wi the help of yes/no questions, and talking in a polite way **3. Week** — Giving and asking personal information such as name, age, nationality etc. wi the help of wh- questions and differentiating ordinal and cardinal numbers **4. Week** — Describing people and organizations by using articles, and talking about fami members and occupations **5. Week** — Involving structures related to possessions to talk about family and relationsh **6. Week** — Asking and answering yes/no questions to discuss about free time activities a hobbies **7. Week** — General Midterm Revision **8. Week** — Asking and answering information questions to discuss about people's habits hobbies, and the things they like **9. Week** — Telling the time and the frequency and sequence of people's activities

	10. Week	Describing places and attractions, and skimming a reading text for the main i
	11. Week	Asking and giving directions and checking understanding
	12. Week	Delineating different lifestyles, and talking about the things happening at the moment of speaking
	13. Week	Elaborating on a green lifestyle and distinguishing the difference between permanent routines and events at the time of speaking
	14. Week	General Final Revision

Teaching Activities
(The time spent for the activities listed here will determine the amount of credit required)

Weekly theoretical course hours: 2
Weekly tutorial hours: 0
Reading Activities: 1
Internet browsing, library work: 0
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation and Presentations 3
Preparation of Midterm and Midterm Exam: 2
Final Exam and Preparation for Final Exam: 2

Assessment Criteria

	Number(s)	**Weight (%)**
Midterm exam	1	30
Assignment		
Application		
Project	1	10
Practice		
Quiz	3	20
Final exam	1	40
Total		100

Workload of the Course

Activity	**Number of Weeks**	**Duration (Weekly Hour)**	**End of Semester Total Workload**
Weekly theoretical course hours	14	2	28
Weekly practical course hours			
Reading activities	7	1	7
Internet search and library work			
Designing and implementing materials			
Making a report			
Preparing and making presentations	1	3	3
Midterm and revision for midterm	3	2	6
Final exam and revision for final exam	3	2	6
Total workload			50
Total workload/ 25			50/25
Course Credit (ECTS)			2

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.	x				
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design	x				

		methods for this purpose.						
	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.						
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.						
	6	Ability to work efficiently in intra-disciplinary teams.	x					
	7	Ability to work efficiently in multi-disciplinary teams.						
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.	x					
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.	x					
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.	x					
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.						
Lecturer(s) and Contact Information	College of Foreign Languages Members ydyo@gazi.edu.tr							

Contribution of the Course to Program Outcomes

	Program Outcome1	**Program Outcome2**	**Program Outcome3**	**Program Outcome4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL		**1**	**1**			**1**		**1**	**1**	**1**	
Learning outcome 1									**1**		
Learning outcome 2								**1**			
Learning outcome 3			**1**								
Learning outcome 4						**1**					
Learning outcome 5		**1**									
Learning outcome 6										**1**	

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	**%0**
Engineering Sciences	**%0**
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

COURSE DESCRIPTION FORM	
Course Code and Name	ENG102 ENGLISH 2
Course Semester	2
Catalogue Data of the Course (*Course Content*)	At the beginner level, English grammar and vocabulary knowledge Reading, writing, listening, and speaking skills
Course Textbooks	Open Mind- Elementary Student's Book Pack Mickey Rodgers, Joanne Taylore-Knowles, Steve Taylore-Knowles
Supplementary Textbooks	Open Mind- Elementary Teacher's Book (Tim Bowen, Yvonne Maruniak) Open Mind- Elementary Workbook (Ingrid Wisniewska, Dorothy E. Zemach)
Credit (*ECTS*)	**2 ECTS**
Prerequisites for the Course (*Attendance Requirements*)	There is no prerequisite for this course. Participation is compulsory.
Course Type	Compulsory
Language of Instruction	English
Course Objectives	Being able to meet daily life needs in a foreign language. Being able to express oneself verbally using simple expressions. Being able to express oneself in writing using grammatical structures correctly. Developing beginner-level listening, speaking, reading, and writing skills.
Course Learning Outcomes	1. Various words related to personality, clothing, food, technology, hobbies, habits, and activities are used when writing and speaking. 2. Expresses skills. 3. Expresses past experiences and future plans by writing and speaking. 4. Makes comparisons. 5. Orders at a restaurant and comments on menus. 6. Uses necessary expressions for inviting, suggesting, and expressing obligation.
Instruction Method *(Face-to-face, Distance education etc.)*	Face to face
Weekly Schedule of the Course	

1. Week	Describing people's personality, and grasping the main idea of texts
2. Week	Expressing abilities and using vocabulary related to talents and abilities
3. Week	Integrating adverbs of manner to describe actions and showing interest in conversations
4. Week	Identifying clothes, demonstrating items, and depicting gadgets
5. Week	Making comparison and writing compound sentences
6. Week	Distinguishing different types of food and expressing their amounts, and discerning formal a informal phone conversations
7. Week	General Midterm Revision
8. Week	Interpreting menus to order in a restaurant and applying phrases for invitations, suggestions a obligations
9. Week	Describing events which happened in the past, and talking about feelings and states by using adjectives
10. Week	Asking and answering questions about past, and talking about experiences by using verb collocations
11. Week	Discussing about key events in people's lives, talking about past events in an order, and scan texts for specific information
12. Week	Describing people's lives with object pronouns and using filler phrases during conversations

		take time
	13. Week	Stating future plans and arrangements and ascertaining main idea of listening and talking abo activities
	14. Week	General Final Revision

Teaching Activities
(The time spent for the activities listed here will determine the amount of credit required)

Weekly theoretical course hours: 2
Weekly tutorial hours: 0
Reading Activities: 1
Internet browsing, library work: 0
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation and Presentations 3
Preparation of Midterm and Midterm Exam: 2
Final Exam and Preparation for Final Exam: 2

Assessment Criteria

	Number(s)	**Weight (%)**
Midterm exam	1	30
Assignment		
Application		
Project	1	10
Practice		
Quiz	3	20
Final exam	1	40
Total		100

Workload of the Course

Activity	**Number of Weeks**	**Duration (Weekly Hour)**	**End of Semester Total Workload**
Weekly theoretical course hours	14	2	28
Weekly practical course hours			
Reading activities	7	1	7
Internet search and library work			
Designing and implementing materials			
Making a report			
Preparing and making presentations	1	3	3
Midterm and revision for midterm	3	2	6
Final exam and revision for final exam	3	2	6
Total workload			50
Total workload/ 25			50/25
Course Credit (ECTS)			2

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.	x				
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.					
4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use					

		information technologies effectively.						
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.						
	6	Ability to work efficiently in intra-disciplinary teams.	x					
	7	Ability to work efficiently in multi-disciplinary teams.						
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.	x					
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.	x					
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.	x					
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.	x					
Lecturer(s) and Contact Information	College of Foreign Languages Members ydyo@gazi.edu.tr							

Contribution of the Course to Program Outcomes

	Program Outcome 1	**Program Outcome2**	**Program Outcome 3**	**Program Outcome4**	**Program Outcome 5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome 9**	**Program Outcome10**	**Program Outcome11**
TOTAL		**1**				**1**		**1**	**1**	**1**	**1**
Learning outcome 1									**1**		
Learning outcome 2								**1**			
Learning outcome 3											**1**
Learning outcome 4		**1**									
Learning outcome 5						**1**					
Learning outcome 6										**1**	

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	**%0**
Engineering Sciences	**%0**
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

COURSE DESCRIPTION FORM	
Course Code and Name	**ENG201 ENGLISH 3**
Course Semester	3
Catalogue Data of the Course (*Course Content*)	Intermediate level English grammar, vocabulary, and writing knowledge Reading, listening, and speaking skills
Course Textbooks	Open Mind- Pre-Intermediate Student's Book Pack Mickey Rodgers, Joanne Taylore-Knowles, Steve Taylore-Knowles
Supplementary Textbooks	Open Mind- Pre-intermediate Teacher's Book (Tim Bowen, Yvonne Maruniak) Open Mind- Pre-Intermediate Workbook (Ingrid Wisniewska, Dorothy E. Zemach)
Credit (*ECTS*)	**2 ECTS**
Prerequisites for the Course (*Attendance Requirements*)	There is no prerequisite for this course. Participation is compulsory.
Course Type	Compulsory
Language of Instruction	English
Course Objectives	Developing the skill of effective communication in a foreign language Enhancing the ability to express ideas and opinions in a foreign language within the framework of cultural appropriateness Ensuring the ability to use grammatical structures correctly by improving written and spoken communication skills Enhancing the ability to use a wide range of vocabulary at the specified level Providing the ability to apply listening, speaking, reading, and writing skills at an intermediate level
Course Learning Outcomes	1. Requests permission, makes requests, and responds to them. 2. Expresses ideas, feelings, and experiences on various topics. 3. Initiates and concludes mutual conversation in different situations. 4. Describes various places and objects. 5. Asks and answers questions about an event related to the past. 6. Engages in speaking and writing by making comparisons on various topics (film, music, travel, household chores).
Instruction Method *(Face-to-face, Distance education etc.)*	Face to face
Weekly Schedule of the Course	

1. Week	Talking about cultural trends and important events
2. Week	Asking and answering questions about people's lives during a specific period in the past
3. Week	Writing about an important event in the past
4. Week	Expressing opinions and talking about cultural activities
5. Week	Talking about a film by making comparisons and writing about a famous cultural icon
6. Week	Talking about travel
7. Week	Midterm General Revision
8. Week	Asking for permission, making requests, and responding to them
9. Week	Expressing experiences, opinions, and feelings

	10. Week	Describing important life changes and experiences
	11. Week	Describing types of music and giving opinions about music and making predictions about a reading text
	12. Week	Talking about homes and household chores
	13. Week	Writing topic sentences for paragraphs
	14. Week	Final General Revision

Teaching Activities *(The time spent for the activities listed here will determine the amount of credit required)*

Weekly theoretical course hours: 2
Weekly tutorial hours: 0
Reading Activities: 1
Internet browsing, library work: 0
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation and Presentations 3
Preparation of Midterm and Midterm Exam: 2
Final Exam and Preparation for Final Exam: 2

Assessment Criteria

	Number(s)	**Weight (%)**
Midterm exam	1	30
Assignment		
Application		
Project	1	10
Practice		
Quiz	3	20
Final exam	1	40
Total		100

Workload of the Course

Activity	**Number of Weeks**	**Duration (Weekly Hour)**	**End of Semester Total Workload**
Weekly theoretical course hours	14	2	28
Weekly practical course hours			
Reading activities	7	1	7
Internet search and library work			
Designing and implementing materials			
Making a report			
Preparing and making presentations	1	3	3
Midterm and revision for midterm	3	2	6
Final exam and revision for final exam	3	2	6
Total workload			50
Total workload/ 25			50/25
Course Credit (ECTS)			2

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.					
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design					

		methods for this purpose.						
	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.						
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.						
	6	Ability to work efficiently in intra-disciplinary teams.						
	7	Ability to work efficiently in multi-disciplinary teams.		x				
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.		x				
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.		x				
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.						
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.						
Lecturer(s) and Contact Information	College of Foreign Languages Members ydyo@gazi.edu.tr							

Contribution of the Course to Program Outcomes

	Program Outcome1	Program Outcome2	Program Outcome3	Program Outcome4	Program Outcome5	Program Outcome6	Program Outcome7	Program Outcome 8	Program Outcome9	Program Outcome10	Program Outcome11
TOTAL							**2**	**2**	**2**		
Learning outcome 1							**1**				
Learning outcome 2									**1**		
Learning outcome 3								**1**			
Learning outcome 4							**1**				
Learning outcome 5									**1**		
Learning outcome 6								**1**			

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	**%0**
Engineering Sciences	**%0**
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

COURSE DESCRIPTION FORM		
Course Code and Name	ENG202 ENGLISH 4	
Course Semester	4	
Catalogue Data of the Course (*Course Content*)	Intermediate level English grammar, vocabulary, and writing knowledge Reading, listening, and speaking skills	
Course Textbooks	Open Mind- Pre-Intermediate Student's Book Pack Mickey Rodgers, Joanne Taylore-Knowles, Steve Taylore-Knowles	
Supplementary Textbooks	Open Mind- Pre-intermediate Teacher's Book (Tim Bowen, Yvonne Maruniak) Open Mind- Pre-Intermediate Workbook (Ingrid Wisniewska, Dorothy E. Zemach)	
Credit (*ECTS*)	**2 ECTS**	
Prerequisites for the Course (*Attendance Requirements*)	There is no prerequisite for this course. Participation is compulsory.	
Course Type	Compulsory	
Language of Instruction	English	
Course Objectives	Developing the skills to communicate effectively in a foreign language. Enhancing the ability to express thoughts appropriately within a cultural context. Improving written and spoken communication skills to use grammatical structures correctly. Enhancing the ability to effectively utilize a specific vocabulary. Providing the ability to apply listening, speaking, reading, and writing skills at an intermediate level.	
Course Learning Outcomes	1. Expresses agreement and disagreement on various topics. 2. Distinguishes between real and hypothetical situations in the present tense. 3. Predicts and verifies the topic in reading and listening texts. 4. Predicts unknown words in reading texts using contextual information. 5. Asks for and offers help. 6. Describes foods and writes recipes. 7. Engages in conversation and makes suggestions on various topics (foods, restaurants, interpersonal relationships, climate, and nature).	
Instruction Method *(Face-to-face, Distance education etc.)*	Face to face	
Weekly Schedule of the Course	**1. Week**	Describing food and talking about diet and recipes
	2. Week	Listening to people making complaints in a restaurant and writing a recipe
	3. Week	Talking about relationships
	4. Week	Reading advice about relationships and talking about them
	5. Week	Talking about the weather, climate change and the natural world
	6. Week	Interrupting the others politely in a conversation
	7. Week	Midterm General Revision.
	8. Week	Talking about parties and social plans and events
	9. Week	Asking for and offering help and writing topic sentences
	10. Week	Understanding agreement and disagreement
	11. Week	Talking about materials and technology and writing a review of a product

	12. Week	Expressing a certain condition and the result of that condition
	13. Week	Talking about different values and suggesting supporting details to topic sentences
	14. Week	Final General Revision

Teaching Activities *(The time spent for the activities listed here will determine the amount of credit required)*

Weekly theoretical course hours: 2
Weekly tutorial hours: 0
Reading Activities: 1
Internet browsing, library work: 0
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation and Presentations 3
Preparation of Midterm and Midterm Exam: 2
Final Exam and Preparation for Final Exam: 2

Assessment Criteria

	Number(s)	**Weight (%)**
Midterm exam	1	30
Assignment		
Application		
Project	1	10
Practice		
Quiz	3	20
Final exam	1	40
Total		100

Workload of the Course

Activity	**Number of Weeks**	**Duration (Weekly Hour)**	**End of Semester Total Workload**
Weekly theoretical course hours	14	2	28
Weekly practical course hours			
Reading activities	7	1	7
Internet search and library work			
Designing and implementing materials			
Making a report			
Preparing and making presentations	1	3	3
Midterm and revision for midterm	3	2	6
Final exam and revision for final exam	3	2	6
Total workload			50
Total workload/ 25			50/25
Course Credit (ECTS)			2

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.					
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.		x			
4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use	x				

			information technologies effectively.					
		5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.	x				
		6	Ability to work efficiently in intra-disciplinary teams.	x				
		7	Ability to work efficiently in multi-disciplinary teams.		x			
		8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.					
		9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.					
		10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.					
		11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.					
Lecturer(s) and Contact Information	College of Foreign Languages Members ydyo@gazi.edu.tr							

Contribution of the Course to Program Outcomes

	Program Outcome1	**Program Outcome2**	**Program Outcome3**	**Program Outcome4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL			**2**	**1**	**1**	**1**	**2**				
Learning outcome 1							**1**				
Learning outcome 2			**1**								
Learning outcome 3			**1**								
Learning outcome 4				**1**							
Learning outcome 5					**1**						
Learning outcome 6						**1**					
Learning outcome 7							**1**				

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	**%0**
Engineering Sciences	**%0**
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

COURSE DESCRIPTION FORM	
Course Code and Name	ENG301 ENGLISH 5
Course Semester	5
Catalogue Data of the Course (*Course Content*)	The course coded ENG 302 following the course coded ENG 301, encompasses the teaching of English grammar ,vocabulary and writing knowledge along with listening, reading skills at intermediate level (B1).
Course Textbooks	Open Mind- Intermediate Student's Book Pack Mickey Rodgers, Joanne Taylore-Knowles, Steve Taylore-Knowles
Supplementary Textbooks	Open Mind- Intermediate Teacher's Book (Tim Bowen, Yvonne Maruniak) Open Mind- Intermediate Workbook (Ingrid Wisniewska, Dorothy E. Zemach)
Credit (*ECTS*)	3
Prerequisites for the Course (*Attendance Requirements*)	There is no prerequisite for this course. Participation is compulsory.
Course Type	Compulsory
Language of Instruction	English
Course Objectives	Students taking this course can effectively convey an idea in a culturally appropriate manner ,can communicate in speaking and writing ,can use a range of vocabulary items and grammatical structures in language skills (reading, writing, listening, and speaking) at intermediate level.
Course Learning Outcomes	At the end of the term, Students 1. give information about people, places and objects 2. talk about past situations and describe regrets 3. give advice about different topics (medical problems, crime, learning) 4. ask questions and describe events in various situations 5. distinguish facts and opinions and make deductions 6. explain and express preferences 7. differentiate between defining and non-defining information
Instruction Method *(Face-to-face, Distance education etc.)*	Distance
Weekly Schedule of the Course	1. Distinguishing facts and opinions and making deductions 2. Discussing how to improve learning using collocations and arguing opinions for and against 3. Describing people, places and things and talking about embarrassing events 4. Talking about experiences and feelings 5. Giving advice on medical problems and talking about injuries 6. Describing health problems and symptoms and expressing regrets, 7. Midterm General Revision 8. Explaining and expressing preferences 9. Differentiating between defining and non-defining information 10. Talking about offences and reflecting on past situations 11. Stating intentions and unfulfilled plans and making soft criticism 12. Describing a degree or quality and agreeing and disagreeing 13. Taking notes while listening, describing work experience using phrasal verbs 14. Final General Revision
Teaching Activities *(The time spent for the activities listed here will determine the amount of credit required)*	Weekly theoretical course hours -4 Reading activities -1 Internet search and library work -1 Preparing and making presentations -1 Midterm and revision for midterm -2 Final exam and revision for final exam -2

Assessment Criteria

	Number(s)	Weight (%)
Midterm exam	1	30
Assignment	-	-
Application	-	-
Project	1	10
Practice	-	-
Quiz	3	20
Final exam	1	40
Total		100

Workload of the Course

Activity	Number of Weeks	Duration (Weekly Hour)	End of Semester Total Workload
Weekly theoretical course hours	14	4	56
Weekly practical course hours			
Reading activities	1	1	1
Internet search and library work	1	1	1
Designing and implementing materials			
Making a report			
Preparing and making presentations	1	1	1
Midterm and revision for midterm	3	2	6
Final exam and revision for final exam	2	2	4
Total workload			69
Total workload/ 25			2.76
Course Credit (ECTS)			3

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1		2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.						
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.						
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.		x				
4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.	x					
5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.	x					
6	Ability to work efficiently in intra-disciplinary teams.	x					
7	Ability to work efficiently in multi-disciplinary teams.		x				
8	Ability to communicate effectively in Turkish, both orally and in writing;						

		knowledge of a minimum of one foreign language.					
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.					
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.					
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.					
Lecturer(s) and Contact Information	Lecturer's First/Last Name: E-mail address:						

COURSE DESCRIPTION FORM	
Course Code and Name	ENG302 ENGLISH 6
Course Semester	6
Catalogue Data of the Course (*Course Content*)	The course coded ENG 302 following the course coded ENG 301, encompasses the teaching of English grammar ,vocabulary and writing knowledge along with listening, reading skills at intermediate level (B1).
Course Textbooks	Open Mind- Intermediate Student's Book Pack Mickey Rodgers, Joanne Taylore-Knowles, Steve Taylore-Knowles
Supplementary Textbooks	Open Mind- Intermediate Teacher's Book (Tim Bowen, Yvonne Maruniak) Open Mind- Intermediate Workbook (Ingrid Wisniewska, Dorothy E. Zemach)
Credit (*ECTS*)	3
Prerequisites for the Course (*Attendance Requirements*)	There is no prerequisite for this course. Participation is compulsory.
Course Type	Compulsory
Language of Instruction	English
Course Objectives	Students taking this course can effectively convey an idea in a culturally appropriate manner ,can communicate in speaking and writing ,can use a range of vocabulary items and grammatical structures in language skills (reading, writing, listening, and speaking) at intermediate level.
Course Learning Outcomes	At the end of the term, Students 1. give information about people, places and objects 2. talk about past situations and describe regrets 3. give advice about different topics (medical problems, crime, learning) 4. ask questions and describe events in various situations 5. distinguish facts and opinions and make deductions 6. explain and express preferences 7. differentiate between defining and non-defining information
Instruction Method *(Face-to-face, Distance education etc.)*	Distance
Weekly Schedule of the Course	1. Distinguishing facts and opinions and making deductions 2. Discussing how to improve learning using collocations and arguing opinions for and against 3. Describing people, places and things and talking about embarrassing events 4. Talking about experiences and feelings 5. Giving advice on medical problems and talking about injuries 6. Describing health problems and symptoms and expressing regrets, 7. Midterm General Revision 8. Explaining and expressing preferences 9. Differentiating between defining and non-defining information 10. Talking about offences and reflecting on past situations 11. Stating intentions and unfulfilled plans and making soft criticism 12. Describing a degree or quality and agreeing and disagreeing 13. Taking notes while listening, describing work experience using phrasal verbs 14. Final General Revision
Teaching Activities *(The time spent for the activities listed here will determine the amount of credit required)*	Weekly theoretical course hours -4 Reading activities -1 Internet search and library work -1 Preparing and making presentations -1 Midterm and revision for midterm -2 Final exam and revision for final exam -2

Assessment Criteria

	Number(s)	Weight (%)
Midterm exam	1	30
Assignment	-	-
Application	-	-
Project	1	10
Practice	-	-
Quiz	3	20
Final exam	1	40
Total		100

Workload of the Course

Activity	Number of Weeks	Duration (Weekly Hour)	End of Semester Total Workload
Weekly theoretical course hours	14	4	56
Weekly practical course hours			
Reading activities	1	1	1
Internet search and library work	1	1	1
Designing and implementing materials			
Making a report			
Preparing and making presentations	1	1	1
Midterm and revision for midterm	3	2	6
Final exam and revision for final exam	2	2	4
Total workload			69
Total workload/ 25			2.76
Course Credit (ECTS)			3

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1		2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.						
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.						
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.		x				
4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.	x					
5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.	x					
6	Ability to work efficiently in intra-disciplinary teams.	x					
7	Ability to work efficiently in multi-disciplinary teams.		x				
8	Ability to communicate effectively in Turkish, both orally and in writing;						

	knowledge of a minimum of one foreign language.						
9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.						
10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.						
11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.						

Lecturer(s) and Contact Information	Lecturer's First/Last Name: E-mail address:

COURSE DESCRIPTION FORM	
Course Code and Name	ENG401 ENGLISH FOR TECHNOLOGY
Course Semester	7-8
Catalogue Data of the Course (*Course Content*)	Coded ENG 401, this course combines four language skills (listening, reading, speaking, and writing) necessary for students' occupational studies in English within specific themes/scopes in the field of engineering. The content of the course covers the occupational subjects presented to students through motivating and engaging educational tools and makes them aware of the occupational language structures and functions that will be frequently encountered in occupational life.
Course Textbooks	English for Engineering 2 (student's book & workbook) / Blackswan Publishing
Supplementary Textbooks	Course notes prepared by the Program and Material Development Unit
Credit (*ECTS*)	3
Prerequisites for the Course (*Attendance Requirements*)	In order to be able to take this course, students are required to pass the 304 English course. Attendance is compulsory.
Course Type	Compulsory
Language of Instruction	English
Course Objectives	Students taking this course can apply English language structures and knowledge across occupational and linguistic contexts and can use language skills (reading, writing, listening, and speaking) in occupational and academic contexts by making use of fundamental terminologies and structures in relation to their major.
Course Learning Outcomes	At the end of this course, students 1. identify and define the subject-specific vocabulary in listening and reading 2. talk about the qualities of engineers and types of engineering degrees 3. identify problems and suggest solutions 4. discuss the significance of creativity in engineering 5. identify different tables and graphs 6. describe the materials and their properties used for engineering purposes 7. relate between different types of engineering 8. describe changes, benefits and experiences within the field of engineering 9. ask about the risks of products across different engineering fields 10. express their opinions and doubts about certain processes
Instruction Method *(Face-to-face, Distance education etc.)*	Distance Education
Weekly Schedule of the Course	1. Introduction, Electrical Engineering 2. Aerospace Engineering,History of Engineering 3. An Engineer's Education, An engineer's Education, Presenting Information 4. Problem Solving, Creativity, Tables and Graphs 5. Dimensions and Drawings, Materials and Properties, Working with Numbers 6. Sales Engineering, Agricultural Engineering, Industrial Engineering 7. Midterm General Revision 8. Software Engineering, Genetic Engineering 9. Newton's Laws, Laws of Thermodynamics. Rate Processes 10. Statics and Dynamics, Electricity, SI System of Units 11. Engineering Design Method, Models 12. Statistics, Computer Engineering, Materials Engineering 13. Environmental Engineering, Nuclear Engineering, Biomedical Engineering 14. Final General Revision
Teaching Activities *(The time spent for the*	Weekly theoretical course hours 4 Reading activities -1

activities listed here will determine the amount of credit required)	Internet search and library work-1 Preparing and making presentations -1 Midterm and revision for midterm -2 Final exam and revision for final exam -2

Assessment Criteria

	Number(s)	Weight (%)
Midterm exam	1	30
Assignment	-	-
Application	-	-
Project	1	10
Practice	-	-
Quiz	3	20
Final exam	1	40
Total		100

Workload of the Course

Activity	Number of Weeks	Duration (Weekly Hour)	End of Semester Total Workload
Weekly theoretical course hours	14	4	56
Weekly practical course hours			
Reading activities	1	1	1
Internet search and library work	1	1	1
Designing and implementing materials			
Making a report			
Preparing and making presentations	1	1	1
Midterm and revision for midterm	3	2	6
Final exam and revision for final exam	2	2	4
Total workload			69
Total workload/ 25			2.76
Course Credit (ECTS)			3

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.					
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.		x			
4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.	x				
5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.	x				
6	Ability to work efficiently in intra-disciplinary teams.	x				
7	Ability to work efficiently in multi-disciplinary teams.		x			

	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.					
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.					
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.					
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.					
Lecturer(s) and Contact Information	Lecturer's First/Last Name: E-mail address:						

Course Description Form	
Course Code and Name	FİZ101 PHYSICS 1
Course Semester	1
Catalog Content	Understanding fundamental principles and concepts of physics. Analyzing various aspects and characteristics of motion. Grasping Newton's laws of motion and their practical applications. Understanding energy concepts such as work, kinetic, and potential energy, and examining their conservation. Analyzing the physical effects of momentum and collisions
Textbook	Fen ve Mühendislik için Fizik I, Editör: Kemal ÇOLAKOĞLU. - Physics For Scientists and Engineers with Modern Physics, R.Serway, Saunders College
Supplementary Textbooks	University Physics with Modern Physics" by Hugh D. Young ve Roger A. Freedman
ECTS	**6 ECTS**
Prerequisites of the Course (*Attendance*	Attendance
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	To gain skills how to solve the basic mechanical and physical problems.
Course Learning Outcomes	1. To develop an understanding of the theoretical and practical concepts 2. To develop the ability to relate physics to the real world 3. To gain preliminary skills for solving basic problems related to Mechanical Physics
Instruction Methods	Face to face

Weekly Schedule

1. Week	Physics and Measurement
2. Week	Motion in One Dimension
3. Week	Vectors
4. Week	Motion in Two Dimensions
5. Week	The Laws of Motion
6. Week	Circular Motion
7. Week	Work
8. Week	Kinetic Energy
9. Week	Potential Energy
10. Week	Conservation of Energy
11. Week	Linear Momentum
12. Week	Collisions
13. Week	Rotation of a Rigid Object about a Fixed Axis
14. Week	Rotation of a Rigid Object about a Fixed Axis (cont.)

Teaching and Learning Methods *(These are examples. Please fill which activities you use in the course)*	Weekly theoretical course hours: 4 Weekly tutorial hours: 0 Reading Activities: 2 Internet browsing, library work: 2 Designing and implementing materials: 0 Report preparing: 0 Preparing a Presentation and Presentations: 0 Preparation of Midterm and Midterm Exam: 10 Final Exam and Preparation for Final Exam: 14 Other: 2

Assessment Criteria

	Numbers	Total Weighting (%)
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		
Percentage of Final Exam to Total Score (%)	1	40
Attendance		

Workload of the Course

Activity	Number of Weeks	Duration (Weekly Hour)	End of Semester Total Workload
Weekly theoretical course hours	14	4	56
Weekly practical course hours			
Reading activities	14	2	28
Internet search and library work	14	2	28
Designing and implementing materials			
Making a report			
Preparing and making presentations			
Midterm and revision for midterm			
Final exam and revision for final exam	1	10	10
Total workload	1	14	14
Total workload/ 25	7	2	14
Course Credit (ECTS)			150

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.		x			
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.	x				
4	Ability to develop, select and use modern					

	techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.							
5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.							
6	Ability to work efficiently in intra-disciplinary teams.							
7	Ability to work efficiently in multi-disciplinary teams.							
8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.							
9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.							
10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.							
11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.							

Lecturer(s) and Contact Information	Faculty Members of the Department fenfizik@gazi.edu.tr

Contribution of the Course to Program Outcomes

	Program Outcome1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL		**2**	**1**								
Learning outcome 1			**1**								
Learning outcome 2		**1**									
Learning outcome 3		**1**									

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	**%70**
Engineering Sciences	**%30**
Engineering Design	%0
Social Sciences	%0
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	**%0**

Course Description Form	
Course Code and Name	FİZ102 PHYSICS 2
Course Semester	2
Catalog Content	Understanding and calculating electric fields and potentials. Understanding circuit analysis and the behavior of its components. Understanding electromagnetic forces and magnetic fields. Understanding the effects of capacitance and dielectric materials. Understanding the fundamental principles of electromagnetic waves.
Textbook	Physics for Scientists and Engineers, R.Serway & John W. Jewett Thomson Brooks/Cole © 2004 6th Edition.
Supplementary Textbooks	Young Freedman University Physics 13th Edition. Fundamentals of Physics [10th Edition] Halliday & Resnick.
ECTS	**6 ECTS**
Prerequisites of the Course (*Attendance*	Attendance
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	Investigating fundamental electrical and magnetic phenomena in nature and learning basic concepts. Developing analytical thinking and acquiring the discipline to create basic algorithms for problem-solving.
Course Learning Outcomes	1. Gaining the ability to analyze engineering problems. 2. Facilitating solutions. 3. Acquiring practical application skills.
Instruction Methods	Face to face
Weekly Schedule	

1. Week	Electric Charge and Coulomb's Law
2. Week	The Electric Field
3. Week	Gauss' Law
4. Week	Electric Potential
5. Week	Electric Potential (cont.)
6. Week	Capacitors and Dielectrics
7. Week	Current and Resistance
8. Week	DC Circuits
9. Week	The Magnetic Field
10. Week	The Biot-Savart Law
11. Week	Ampere's Law
12. Week	Solenoids and Toroids
13. Week	Faraday's Law
14. Week	Lenz's Law

Teaching and Learning Methods *(These are examples. Please fill which activities you use in the course)*	Weekly theoretical course hours: 4 Weekly tutorial hours: 0 Reading Activities: 2 Internet browsing, library work: 2 Designing and implementing materials: 0 Report preparing: 0 Preparing a Presentation and Presentations: 0 Preparation of Midterm and Midterm Exam: 10 Final Exam and Preparation for Final Exam: 14 Other: 2

Assessment Criteria

	Numbers	Total Weighting (%)
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		
Percentage of Final Exam to Total Score (%)	1	40
Attendance		

Workload of the Course

Activity	Number of Weeks	Duration (Weekly Hour)	End of Semester Total Workload
Weekly theoretical course hours	14	4	56
Weekly practical course hours			
Reading activities	14	2	28
Internet search and library work	14	2	28
Designing and implementing materials			
Making a report			
Preparing and making presentations			
Midterm and revision for midterm	1	10	10
Final exam and revision for final exam	1	14	14
Other	7	2	14
Total workload			150
Total workload/ 25			150/25
Course Credit (ECTS)			6

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.			x		
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.	x				
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design			x		

	methods for this purpose.						
4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.			x		
5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.		x			
6	Ability to work efficiently in intra-disciplinary teams.					
7	Ability to work efficiently in multi-disciplinary teams.					
8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.					
9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.					
10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.	x				
11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.					

Lecturer(s) and Contact Information	Faculty Members of the Department fenfizik@gazi.edu.tr

Contribution of the Course to Program Outcomes

	Program Outcome1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL	**3**	**1**	**3**	**3**	**2**					**1**	
Learning outcome 1	**1**	**1**	**1**	**1**	**1**						
Learning outcome 2	**1**		**1**	**1**							
Learning outcome 3	**1**		**1**	**1**	**1**					**1**	

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	**%70**
Engineering Sciences	**%30**
Engineering Design	%0
Social Sciences	%0
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	**%0**

COURSE DESCRIPTION		
Course code and title	FİZ156 PHYSICS LABORATORY	
Course Semester	1	
Course Content	Recognizing laboratory and measurement instruments. Conducting physical measurements and understanding error calculations. Transferring experimental data to tables, drawing graphs, and interpreting graphs. Preparing scientific reports. Understanding the concepts of velocity and acceleration. Analyzing motion in two dimensions. Understanding Newton's laws of motion and motion on an inclined plane. Analyzing the physical effects of collisions. Examining simple harmonic motion.	
Recommended or Required Reading	Laboratory Manual for General Physics, Physics 1 For Scientists and Engineers, 5 th edition, Raymond A. Serway, Robert J. Beichner	
Recommended or Required Reading	Young Freedman UniversityPhysics 13th Edition Fundamentals of Physics [10th Edition] Halliday & Resnick	
Credits of Course (ECTS)	**2 ECTS**	
Prerequisites	Lectures must be attended by students.	
Type of Course	Basic Science Education	
Language of Instruction	English	
Purpose and Object of the Course	Investigating fundamental mechanical phenomena in nature experimentally and analyzing them with basic concepts Acquiring the ability to obtain, understand, and use experimental data	
Learnıng Outcomes Of The Course Unıt	1. Learning measurement methods and error calculation 2.Export to Experimental Data to the Table, learning of drawing data graphs, benefits of the graphs and writing report 3. Examing the results of reproducible and error-including experiments with the classical mechanical formulas	
Planned Learning Activities and Teaching Methods	Face to face	
Course Per Week	**1. Week**	Introduction of laboratory and laboratory equipment
	2. Week	Physical measurement and error
	3. Week	Export to experimental data to the table, learning of drawing data gra and writing report
	4. Week	Making of “Velocity, Acceleration” experiment
	5. Week	Evaluating of results of “Velocity, Acceleration” experiment and wr
	6. Week	Making of “Two dimensional motion” experiment
	7. Week	Evaluating of results of “Two dimensional motion” experiment and
	8. Week	Making of “Newton’s Laws of Motion in the inclined Plane” experi
	9. Week	Evaluating of results of “Newton’s Laws of Motion in the inclined P reports
	10. Week	Making of “Collisions” experiment
	11. Week	Evaluating of results of “Collisions” experiment and writing reports
	12. Week	Midterm exam, make-up experiment
	13. Week	Making of “Simple Harmonic Motion” experiment
	14. Week	Evaluating of results of “Simple Harmonic Motion” experiment and

Workload

Weekly theoretical course hours: 0
Weekly tutorial hours: 1
Reading Activities: 0
Internet browsing, library work: 0
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation and Presentations: 0
Preparation of Midterm and Midterm Exam: 5
Final Exam and Preparation for Final Exam: 5

Assessment Methods And Criteria

	Number	Total contribution (%)
Mid-terms	1	20
Assignment	8	40
Exercise		
Projects		
Practice		
Quiz		
Contribution of In-term Studies to Overall Grade (%)		
Contribution of Final Examination to Overall Grade (%)	1	40
Attendance		

Efficiency

Activities	Total number of weeks	Time (Weekly)	Total efficiency at the end of the semester
Theoretical Study Hours of Course Per Week			
Practicing Hours of Course Per Week	14	2	28
Reading			
Searching in Internet and Library			
Designing and Materials, Applying			
Preparing Reports	12	1	12
Preparing Presentation			
Presentation			
Mid-Term and Studying for Mid-Term	1	5	5
Final and Studying for Final	1	5	5
Other			
TOTAL WORKLOAD			50
TOTAL WORKLOAD/ 25			50/25
ECTS of Course			2

Contribution Level between Course Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.			x		
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.					
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.	x				

	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.					
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.			x		
	6	Ability to work efficiently in intra-disciplinary teams.	x				
	7	Ability to work efficiently in multi-disciplinary teams.					
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.					
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.	x				
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.					
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.		x			
Lecturer(s) and Contact Information	Faculty Members of the Department fenfizik@gazi.edu.tr						

Contribution of the Course to Program Outcomes

	Program Outcome 1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL	**3**		**1**		**3**	**1**			**1**		**2**
Learning outcome 1	**1**				**1**						**1**
Learning outcome 2	**1**				**1**				**1**		
Learning outcome 3	**1**		**1**		**1**	**1**					**1**

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	**%60**
Engineering Sciences	**%40**
Engineering Design	%0
Social Sciences	%0
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

Course Description Form	
Course Code and Name	**ISG301 OCCUPATIONAL HEALTH AND SAFETY 1**
Course Semester	5
Catalog Content	OHS general concepts, aim and importance An overview of safety culture and occupational health and safety OHS legislation and OHS services. OHS management systems Ethics in OHS Work hygiene and hazards in workplace Risk factors Occupational accidents and occupational diseases and basic protection methods Emergency plans and first aid Special circumstances in working life
Textbook	1. A Manual for Primary Health Care Workers, 2001, WHO-EM/OCH/85/E/L, World Health Organization, Regional Office for the Eastern Mediterranean. 2. Goetsch, D.L., Occupational Safety and Health for Technologists, Engineers, and Managers, 8th Edition, Pearson, 2010.
Supplementary Textbooks	1. Alli, B. O., Occupational Health and Safety, ILO, International Labour Office, Geneva, 2008.
Credit	**2 ECTS**
Prerequisites of the Course (*Attendance Requirements*)	No Prerequisites %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	To understand the safety culture and learn the benefits to enterprise To learn the basic principles of OHS To learn the legal aspect of OHS To learn basic protection methods To learn emergency and first aid requirements and needs To sense the risk factors and evaluate the effects on OHS
Course Learning Outcomes	1. They can understand the importance of the occupational health and safety 2. They can gain risk management skills. 3. They can gain the ability to develop skills of the work place layout under the skin of occupational health and safety principles. 4. They can plan the activities of prevention the occupational accidents and diseases be for occurring.
Instruction Methods	Face to face

Weekly Schedule

1. Week	Safety Culture and Occupational Health and Safety
2. Week	Principles in Labour Law and Place of Occupational Health
3. Week	Occupational Health and Safety Legislation
4. Week	Working Environment Monitoring - OHS Services
5. Week	Ethics in Occupational Health and Safety. OHS Management System
6. Week	Shift and Night Work. Special Risk Groups in Work Life
7. Week	Work Accidents, Occupational Diseases and Health Monitoring
8. Week	Occupational Diseases and Health Monitoring
9. Week	Protection Policies and Basic Methods
10. Week	Emergency Plans and First Aid
11. Week	Workplace Hygiene and Workplace Hazards
12. Week	Physical Risk Factors. Ergonomic Risk Factors
13. Week	Biological Risk Factors
14. Week	Chemical Risk Factors

Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)

Weekly theoretical course hours: 2
Weekly tutorial hours: 0
Reading Activities: 1
Internet browsing, library work: 1
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation: 0
Presentations: 0
Preparation of Midterm and Midterm Exam: 2
Final Exam and Preparation for Final Exam: 2

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		**60**
Percentage of Final Exam to Total Score (%)		**40**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	2	28
Weekly Tutorial Hours			
Reading Tasks	8	1	8
Studies	10	1	10
Material Design and Implementation			
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	1	2	2
Final Exam and Preperation for Final Exam	1	2	2
Other (should be emphasized)			
Total Workload	-	-	50
Total Workload / 25			50/25
Course Credit (ECTS)			2

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.					
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.					

	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.		x				
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.						
	6	Ability to work efficiently in intra-disciplinary teams.			x			
	7	Ability to work efficiently in multi-disciplinary teams.						
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.		x				
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.						
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.						
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.				x		
The Course's Lecturer(s) and Contact Informations	Department Management tasarim@gazi.edu.tr								

	Program Outcome 1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL				**2**		**3**		**2**			**4**
Learning outcome 1				**1**		**1**		**1**			**1**
Learning outcome 2				**1**		**1**		**1**			**1**
Learning outcome 3						**1**					**1**
Learning outcome											**1**

4											

Course Structure

Mathematics and Basic Sciences	%0
Engineering Sciences	**%75**
Engineering Design	%0
Social Sciences	**%20**
Education Sciences	%0
Science	%0
Health Sciences	**%5**
Field Knowledge	%0

Course Description Form	
Course Code and Name	**ISG302 OCCUPATIONAL HEALTH AND SAFETY 2**
Course Semester	6
Catalog Content	Fire, explosion and protection Occupational Health and Safety in workplace carried out in various work Risk identification and OHS in different works Risk assessment and risk management OHS approach in specific works domain
Textbook	1. A Manual for Primary Health Care Workers, 2001, WHO-EM/OCH/85/E/L, World Health Organization, Regional Office for the Eastern Mediterranean. 2. Goetsch, D.L., Occupational Safety and Health for Technologists, Engineers, and Managers, 8th Edition, Pearson, 2010.
Supplementary Textbooks	1. Alli, B. O., Occupational Health and Safety, ILO, International Labour Office, Geneva, 2008.
Credit	**2 ECTS**
Prerequisites of the Course (*Attendance Requirements*)	No Prerequisites %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	To understand the safety culture and learn the benefits to enterprise To learn the basic principles of OHS To learn the legal aspect of OHS To learn basic protection methods To learn emergency and first aid requirements and needs To sense the risk factors and evaluate the effects on OHS
Course Learning Outcomes	1. They can understand the importance of the occupational health and safety 2. They can gain risk management skills. 3. They can gain the ability to develop skills of the work place layout under the skin of occupational health and safety principles. 4. They can plan the activities of prevention the occupational accidents and diseases be for occurring.
Instruction Methods	Face to face

Weekly Schedule

1. Week	Fire and Fire Protection
2. Week	Explosion and Explosion Protection. OHS in Electrical Works
3. Week	OHS in Confined Spaces Works
4. Week	OHS on Working at Height
5. Week	OHS at Design, Manufacturing and Usage of Work Equipment
6. Week	OHS in Construction
7. Week	OHS in Mining Operations
8. Week	Risk Management Approach
9. Week	Risk Management Approach
10. Week	Risk Assessment Methods
11. Week	Project Presentation in specific works domain
12. Week	Project Presentation in specific works domain
13. Week	Project Presentation in specific works domain
14. Week	Project Presentation in specific works domain

Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)

Weekly theoretical course hours: 2
Weekly tutorial hours: 0
Reading Activities: 0
Internet browsing, library work: 0
Designing and implementing materials: 0
Report preparing: 1
Preparing a Presentation: 1
Presentations: 1
Preparation of Midterm and Midterm Exam: 3
Final Exam and Preparation for Final Exam: 3

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		**60**
Percentage of Final Exam to Total Score (%)		**40**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	2	28
Weekly Tutorial Hours			
Reading Tasks			
Studies			
Material Design and Implementation			
Report Preparing	6	1	6
Preparing a Presentation	5	1	5
Presentations	5	1	5
Midterm Exam and Preperation for Midterm Exam	1	3	3
Final Exam and Preperation for Final Exam	1	3	3
Other (should be emphasized)			
Total Workload	-	-	50
Total Workload / 25			50/25
Course Credit (ECTS)			2

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.			x		
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.					

	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.							
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.							
	6	Ability to work efficiently in intra-disciplinary teams.				x			
	7	Ability to work efficiently in multi-disciplinary teams.							
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.				x			
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.				x			
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.				x			
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.				x			
The Course's Lecturer(s) and Contact Informations	Department Management tasarim@gazi.edu.tr								

	Program Outcome 1	Program Outcome2	Program Outcome3	Program Outcome 4	Program Outcome5	Program Outcome6	Program Outcome7	Program Outcome 8	Program Outcome9	Program Outcome10	Program Outcome11
TOTAL		**3**				**4**		**4**	**4**	**4**	**4**
Learning outcome 1		**1**				**1**		**1**	**1**	**1**	**1**
Learning outcome 2		**1**				**1**		**1**	**1**	**1**	**1**
Learning outcome 3		**1**				**1**		**1**	**1**	**1**	**1**
Learning outcome 4						**1**		**1**	**1**	**1**	**1**

Course Structure

Mathematics and Basic Sciences	%0
Engineering Sciences	**%75**
Engineering Design	%0
Social Sciences	**%20**
Education Sciences	%0
Science	%0
Health Sciences	**%5**
Field Knowledge	%0

Course Description Form	
Course Code and Name	**IST201 PROBABILITY AND STATISTICS**
Course Semester	3
Catalog Content	Basic concepts of probability and statistics Random variables and their special functions Distribution and density functions Multivariate distributions and densities Independent random variables Application of correlation statistics to engineering systems
Textbook	1. Fikri Akdeniz. Olasılık ve İstatistik. Nobel Kitabevi, 2022. 2. S.M. Ross. A First Course in Probability. Pearson, 2012.
Supplementary Textbooks	1. Introduction to Probability and Statistic for Engineers and Scientists-Shaldon M.Ross, Nobel.
Credit	**5 ECTS**
Prerequisites of the Course (*Attendance Requirements*)	No Prerequisites %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	Learning statistics fundamentals and applications Ability to conduct research and data analysis Learning statistical methods that support design decisions Ability to use basic concepts in problem solving
Course Learning Outcomes	1. Ability to use statistical methods to support design decisions 2. Identifying appropriate metrics to measure the performance of the design and improving the design by performing statistical analysis 3. Ability to use experimental design techniques to analyze the effects of factors and optimize the design process 4. Ability to support design decisions using methods such as hypothesis testing, confidence intervals and regression analysis 5. Ability to analyze probability distributions, collect data with statistical methods, and interpret analysis
Instruction Methods	Face to face

Weekly Schedule

1. Week	Definition of probability, sample space and event, geometric probability, probability, finite probability spaces
2. Week	Conditional probability, axioms of conditional probability, product rule, conditional probability
3. Week	Independent events, complete independence, total probability formula, tr Theorem
4. Week	Random variable, definitions of continuous and discrete random variable distribution and probability function of discrete random variables
5. Week	Probability distribution and probability density function of continuous ra
6. Week	Distribution functions of discrete and continuous random variables, prop functions
7. Week	Expected value, variance and standard deviation concepts, properties of e variance
8. Week	Discrete probability distributions: Uniform, Bernoulli, Binomial, Binomi
9. Week	Discrete probability distributions: geometric, Pascal (negative binomial d
10. Week	Continuous probability distributions: Uniform, Exponential, Normal (Ga
11. Week	Definition of statistics, basic concepts: Population, parameter, sample, sa complete count, sampling types
12. Week	Sampling distribution, central limit theorem
13. Week	Point estimate, interval estimate (confidence interval)
14. Week	Tests of hypothesis, power of test, independence test, conformity test

Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)

Weekly theoretical course hours: 3
Weekly tutorial hours: 0
Reading Activities: 1
Internet browsing, library work: 2
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation: 0
Presentations: 0
Preparation of Midterm and Midterm Exam: 4
Final Exam and Preparation for Final Exam: 2

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		**60**
Percentage of Final Exam to Total Score (%)		**40**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	3	42
Weekly Tutorial Hours			
Reading Tasks	5	1	5
Studies	14	2	28
Material Design and Implementation			
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	6	4	24
Final Exam and Preperation for Final Exam	13	2	26
Other (should be emphasized)			
Total Workload			125
Total Workload / 25			125/25
Course Credit (ECTS)			5

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					x
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.				x	
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.					

	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.		x					
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.							
	6	Ability to work efficiently in intra-disciplinary teams.		x					
	7	Ability to work efficiently in multi-disciplinary teams.							
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.							
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.							
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.							
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.		x					
The Course's Lecturer(s) and Contact Informations	Faculty Members of the Department of Statistics fenistatistik@gazi.edu.tr								

	Program Outcome 1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL	**5**	**4**		**2**		**2**					**2**
Learning outcome 1	**1**					**1**					
Learning outcome 2	**1**	**1**									**1**
Learning outcome 3	**1**	**1**				**1**					**1**
Learning outcome 4	**1**	**1**		**1**							

Learning outcome 5	**1**	**1**		**1**							

Course Structure

Mathematics and Basic Sciences	**%100**
Engineering Sciences	%0
Engineering Design	%0
Social Sciences	%0
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

Course Description Form	
Course Code and Name	**KİM101 CHEMISTRY**
Course Semester	2
Catalog Content	Properties and Measurement of Matter Atoms, Atomic Theory and Some Basic Concepts Electron Structure and Periodic Properties of Atom Chemical Stoichiometry and Reaction Types Chemical Bonding Gases Thermodynamics Intermolecular Forces, Liquids and Solids Solutions and Physical Properties Chemical Kinetics Chemical Equilibrium Acids-Bases and Aqueous Solution Equilibria Electrochemistry
Textbook	1. Genel Kimya: İlkeler ve Modern Uygulamalar (2 Cilt) Yazarlar: Petrucci, Harwood, Herring. Çeviri editörleri: Tahsin UYAR, Serpil AKSOY.
Supplementary Textbooks	1. Genel Kimya Temel Kavramlar, Raymond CHANG, Çeviri editörleri; Tahsin UYAR, Serpil AKSOY, Recai İNAM.
Credit	**6 ECTS**
Prerequisites of the Course (*Attendance Requirements*)	No Prerequisites %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	Having the basic chemistry knowledge required for engineering education Ability to evaluate basic chemistry skills within the scope of design
Course Learning Outcomes	1. To be able to comment on the structure of the atom and theories about the atom, the periodic table and make applications. 2. can make calculations using stoichiometry in chemical reactions. 3. Apply different theories about liquid solutions and gases and solve problems. 4. Can make applications about heat, work, enthalpy and internal energy changes. 5. Demonstrate the three-dimensional structures of chemical compounds using the concept of bonding and various theories related to the concept of bonding. 6. Have knowledge about crystalline structures of solids and can solve related questions.
Instruction Methods	Face to face

Weekly Schedule

1. Week	Properties and Measurement of Matter
2. Week	Atoms, Atomic Theory and Some Basic Concepts
3. Week	Electron Structure of the Atom and Periodic Properties
4. Week	Chemical Stoichiometry and Reaction Types
5. Week	Chemical Bonds
6. Week	General Properties of Gases, Simple Gas Laws
7. Week	Thermodynamic Concepts
8. Week	Intermolecular Forces, Liquids and Solids
9. Week	Solutions and Physical Properties
10. Week	Chemical Kinetics
11. Week	Chemical Equilibrium
12. Week	Acids-Bases and Aqueous Solution Equilibria
13. Week	Electrochemistry
14. Week	Electrochemistry

Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)

Weekly theoretical course hours: 4
Weekly tutorial hours: 0
Reading Activities: 2
Internet browsing, library work: 4
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation: 0
Presentations: 0
Preparation of Midterm and Midterm Exam: 1
Final Exam and Preparation for Final Exam: 1

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		**60**
Percentage of Final Exam to Total Score (%)		**40**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	4	56
Weekly Tutorial Hours			
Reading Tasks	14	2	28
Studies	14	4	56
Material Design and Implementation			
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	5	1	5
Final Exam and Preperation for Final Exam	5	1	5
Other (should be emphasized)			
Total Workload			150
Total Workload / 25			150/25
Course Credit (ECTS)			6

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.					
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.					

	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.							
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.		x					
	6	Ability to work efficiently in intra-disciplinary teams.		x					
	7	Ability to work efficiently in multi-disciplinary teams.							
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.							
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.							
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.							
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.							
The Course's Lecturer(s) and Contact Informations	Faculty Members of the Department of Chemistry fenkimya@gazi.edu.tr								

	Program Outcome 1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL					**2**	**2**					
Learning outcome 1					**1**	**1**					
Learning outcome 2					**1**	**1**					
Learning outcome 3											
Learning outcome 4											

Learning outcome 5											
Learning outcome 6											

Course Structure

Mathematics and Basic Sciences	%10
Engineering Sciences	%40
Engineering Design	%20
Science	%20
Field Knowledge	%10

Course Description Form	
Course Code and Name	**KİM151 CHEMISTRY LABORATORY**
Course Semester	2
Catalog Content	Giving basic chemistry knowledge Learning basic laboratory rules and order Recognition of substances by their physical and chemical properties Purification methods in chemistry, crystallization application Diffusion application Stoichiometry application Calculation of Ideal Gas Constant application Effect of Temperature on Reaction Rate application Indicators and pKa determination application Acid-Base titration application Chemical Balance application
Textbook	1. Genel Kimya: İlkeler ve Modern Uygulamalar (2 Cilt) Yazarlar: Petrucci, Harwood, Herring. Çeviri editörleri: Tahsin UYAR, Serpil AKSOY.
Supplementary Textbooks	1. Genel Kimya Temel Kavramlar, Raymond CHANG, Çeviri editörleri; Tahsin UYAR, Serpil AKSOY, Recai İNAM.
Credit	**2 ECTS**
Prerequisites of the Course (*Attendance Requirements*)	No Prerequisites %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	Understanding basic chemistry information Learning basic laboratory rules and order Ability to experiment Analyzing test results Interpretation of analyzes
Course Learning Outcomes	1. Ability to reinforce basic chemistry knowledge through chemistry experiments 2. Getting to know the laboratory and learning how to use it 3. Ability to perform different experiment applications 4. Ability to analyze test results 5. Ability to interpret experimental analyzes 6. Ability to write experiments in reports 7. Ability to work in groups
Instruction Methods	Face to face

Weekly Schedule

1. Week	Introduction and preparation
2. Week	Recognition of physical and chemical properties of substances
3. Week	Purification methods in chemistry, crystallization
4. Week	Diffusion
5. Week	Stoichiometry
6. Week	Calculation of the Ideal Gas Constant
7. Week	Effect of Temperature on Reaction Rate
8. Week	Indicators and pKa determination
9. Week	Acid-Base titration
10. Week	Chemical Equilibrium
11. Week	Application
12. Week	Application
13. Week	Application
14. Week	Application

Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)

Weekly theoretical course hours: 0
Weekly tutorial hours: 2
Reading Activities: 0
Internet browsing, library work: 0
Designing and implementing materials: 0
Report preparing: 1
Preparing a Presentation: 0
Presentations: 0
Preparation of Midterm and Midterm Exam: 5
Final Exam and Preparation for Final Exam: 5

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	30
Assignment		
Application	1	15
Projects		
Practice		
Quiz	1	15
Percent of In-term Studies (%)		**60**
Percentage of Final Exam to Total Score (%)		**40**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours			
Weekly Tutorial Hours	14	2	28
Reading Tasks			
Studies			
Material Design and Implementation			
Report Preparing	12	1	12
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	1	5	5
Final Exam and Preperation for Final Exam	1	5	5
Other (should be emphasized)			
Total Workload	-	-	50
Total Workload / 25			50/25
Course Credit (ECTS)			2

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.					
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.					

	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.		x				
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.					x	
	6	Ability to work efficiently in intra-disciplinary teams.						
	7	Ability to work efficiently in multi-disciplinary teams.	x					
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.			x			
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.	x					
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.						
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.	x					
The Course's Lecturer(s) and Contact Informations	Faculty Members of the Department of Chemistry fenkimya@gazi.edu.tr								

	Program Outcome 1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL				**2**	**5**		**1**	**3**	**1**		**1**
Learning outcome 1				**1**	**1**		**1**				**1**
Learning outcome 2					**1**						
Learning outcome 3					**1**			**1**			
Learning outcome 4											

Learning outcome 5				**1**	**1**			**1**			
Learning outcome 6									**1**		
Learning outcome 7											

Course Structure

Mathematics and Basic Sciences	%70
Engineering Sciences	%30

Course Description Form	
Course Code and Name	**MAT101 MATHEMATICS 1**
Course Semester	1
Catalog Content	Function definition and some special functions Limit of functions and some special trigonometric functions Derivative of functions Absolute and local extremes, maximum—minimum Definite and indefinite integrals of special functions
Textbook	1. Genel Matematik-1, Anar, İ.E., 2013.
Supplementary Textbooks	1. Thomas Kalkülüs-12.Baskı, Cilt 1 / George B. Thomas, Maurice D. Weir, Joel R. Hass, 2011.
Credit	**6 ECTS**
Prerequisites of the Course (*Attendance Requirements***)**	No Prerequisites %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	Defining the function definition and some special functions Calculating the limit of functions and the limit of some special trigonometric functions Differentiating functions Solving absolute and local extrema, maximum and minimum problems Taking definite and indefinite integrals of some special functions
Course Learning Outcomes	1. Ability to perform mathematical analysis 2. Ability to perform engineering calculations effectively 3. Learning the interdisciplinary approach required to solve complex engineering problems 4. Ability to identify and formulate complex engineering problems
Instruction Methods	Face to face

Weekly Schedule

1. Week	Sets, Real numbers, intervals, inequalities, neighbourhoods, coordinates
2. Week	Functions: Definition function, definition and image of sets
3. Week	Special Functions
4. Week	Limit of Function
5. Week	Continuity of Functions
6. Week	Concept of derivative
7. Week	Differentiation of exponenetial, logarithmic, hyperbolic and inverse hype
8. Week	Application of Differentiation
9. Week	Physical interpretation of differentiaition, concavity Rolle's theorem
10. Week	Graphic Drawing
11. Week	The Definition of Riemann Integrals and their properties
12. Week	Indefinite Integral
13. Week	Methods of Computing Integral
14. Week	Integral of Partial fractions

Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)

Weekly theoretical course hours: 4
Weekly tutorial hours: 0
Reading Activities: 2
Internet browsing, library work: 2
Designing and implementing materials: 0
Report preparing: 1
Preparing a Presentation: 0
Presentations: 0
Preparation of Midterm and Midterm Exam: 3
Final Exam and Preparation for Final Exam: 5

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		**60**
Percentage of Final Exam to Total Score (%)		**40**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	4	56
Weekly Tutorial Hours			
Reading Tasks	10	2	20
Studies	10	2	20
Material Design and Implementation			
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	8	3	24
Final Exam and Preperation for Final Exam	6	5	30
Other (should be emphasized)			
Total Workload	-	-	150
Total Workload / 25			150/25
Course Credit (ECTS)			6

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.		x			
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.					

	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.		x				
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.		x				
	6	Ability to work efficiently in intra-disciplinary teams.						
	7	Ability to work efficiently in multi-disciplinary teams.						
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.						
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.						
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.						
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.						
The Course's Lecturer(s) and Contact Informations	Faculty Members of the Department of Mathematics fefmatematik@gazi.edu.tr								

	Program Outcome 1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL		**2**		**2**	**2**						
Learning outcome 1		**1**		**1**							
Learning outcome 2		**1**			**1**						
Learning outcome 3				**1**							
Learning outcome 4					**1**						

Course Category

Mathematics and Basic Sciences	**%100**
Engineering	%0
Engineering Design	%0
Social Sciences	%0
Education	%0
Science	%0
Health	%0
Field	%0

Course Description Form	
Course Code and Name	**MAT102 MATHEMATICS 2**
Course Semester	2
Catalog Content	The applications of definite integral Sequences, convergence tests for series and positive series Limits and derivatives of multivariable functions Double integral
Textbook	1. Genel Matematik-1, Anar, İ.E., 2013. 2. Genel Matematik-2, Anar, İ.E., 2013.
Supplementary Textbooks	1. Thomas Kalkülüs - 12.Baskı, Cilt 1 / George B. Thomas, Maurice D. Weir, Joel R. Hass, 2011. 2. Thomas Kalkülüs - 12.Baskı, Cilt 2 / George B. Thomas, Maurice D. Weir, Joel R. Hass, 2012.
Credit	**6 ECTS**
Prerequisites of the Course (*Attendance Requirements***)**	No Prerequisites %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	Learning the concept of integral and being able to apply it To be able to apply convergence tests for series with positive terms Be able to calculate limits and derivatives of multivariable functions Being able to take double integrals
Course Learning Outcomes	1. Ability to perform mathematical analysis 2. Ability to perform engineering calculations effectively 3. Learning the interdisciplinary approach required to solve complex engineering problems 4. Ability to identify and formulate complex engineering problems
Instruction Methods	Face to face

Weekly Schedule

1. Week	Applications of definite integral
2. Week	Calculation of volume (cross section, disc and shell methods)
3. Week	Calculation of length of an arc and surface area of revolution
4. Week	Polar Coordinates : Definition, drawing of an arc, calculation of area, len area of revolution
5. Week	Improper integrals and its rules of convergence
6. Week	Sequences : Definition, types, monotone and finite sequences, subsequen divergence of sequences
7. Week	Series : Definition, convergence and divergence, posite series and conver
8. Week	Alternating series, absolute and conditional convergence, power series, r convergence
9. Week	Power Series, Taylor and Maclaurin Series
10. Week	Multivariable functions : Definition, domain of definition, graphs, limit a functions of two variables, partial differentiation
11. Week	Transformation of the region and jacobiens
12. Week	Double integrals : Definition, properties, computation, bölge dönüşümler
13. Week	Fubini's theorems
14. Week	Double Integrals in Polar coordinates

Teaching and Learning Methods

(These are examples. Please fill which activities you use in the course)

Weekly theoretical course hours: 4
Weekly tutorial hours: 0
Reading Activities: 2
Internet browsing, library work: 2
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation: 0
Presentations: 0
Preparation of Midterm and Midterm Exam: 3
Final Exam and Preparation for Final Exam: 5

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	40
Assignment	1	20
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		**60**
Percentage of Final Exam to Total Score (%)		**40**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	4	56
Weekly Tutorial Hours			
Reading Tasks	10	2	20
Studies	10	2	20
Material Design and Implementation			
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	8	3	24
Final Exam and Preperation for Final Exam	6	5	30
Other (should be emphasized)			
Total Workload	-	-	150
Total Workload / 25			150/25
Course Credit (ECTS)			6

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied information in these areas to model and solve engineering problems.					
2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.		x			
3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.					

	4	Ability to develop, select and use modern techniques and tools necessary for analysis and solution of complex problems in engineering applications; ability to use information technologies effectively.		x				
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for examination of engineering problems or discipline-specific research topics.		x				
	6	Ability to work efficiently in intra-disciplinary teams.						
	7	Ability to work efficiently in multi-disciplinary teams.						
	8	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language.						
	9	Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and to receive.						
	10	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.						
	11	Conformity to ethical principles, professional and ethical responsibility; Information on standards used in engineering applications.						
The Course's Lecturer(s) and Contact Informations	Faculty Members of the Department of Mathematics fefmatematik@gazi.edu.tr								

	Program Outcome 1	**Program Outcome2**	**Program Outcome3**	**Program Outcome 4**	**Program Outcome5**	**Program Outcome6**	**Program Outcome7**	**Program Outcome 8**	**Program Outcome9**	**Program Outcome10**	**Program Outcome11**
TOTAL		**2**		**2**	**2**						
Learning outcome 1		**1**		**1**							
Learning outcome 2		**1**			**1**						
Learning outcome 3				**1**							
Learning outcome 4					**1**						

Course Category	
Mathematics and Basic Sciences	**%100**
Engineering	%0
Engineering Design	%0
Social Sciences	%0
Education	%0
Science	%0
Health	%0
Field	%0

COURSE DESCRIPTION FORM	
Course Code and Name	MAT201 DIFFERENTIAL EQUATIONS
Course Semester	3
Catalog Data of the Course (Course Content)	Some basic skills such as first and high order differential equations, solutions and applications with Laplace and inverse Laplace transformation and applications.
Textbook of the Course	Adil Mısır, Teori Teknik ve Uygulamalı Diferensiyel Denklemler, Gazi Kitabevi, 2016.
Supplementary Textbooks	Ogün Doğru, Diferensiyel Denklemlerin Temelleri (Çeviri Kitap), Nobel Yayıncılık, 2013. Tahsin Engin, Cevdet Cerit, Fatma Ayaz, Mühendislik ve Temel Bilimler için Diferensiyel Denklemler, İzmir Güven Kitabevi, 2013.
Credit (ECTS)	6
Prerequisites of the Course	There is no prerequisite or co-requisite for this course.
Type of the Course	Compulsory
Instruction Language of the Course	Turkish
Course Objectives	To be able to study first and high order differential equations, solutions and applications with Laplace and inverse Laplace transformation and applications.
Learning Outcomes	1- Understand the differential equation concept 2- Learning the types of differential equation 3-Be able to formulate mathematical models for engineering problems 4-Be able to determine the particular and general solutions of the first and second-order differential equations 5-Be able to solve the differential equations with Laplace transform
Instruction Method	The type of this course is face to face.
Weekly Schedule of the Course	1. Mathematical models. Definition of linear and nonlinear differential equations . Separable equations. 2. Solution of for various linear and nonlinear forms in y of f(x,y). 3. Exact differential equations. Integrating factors. Linear first-order equation. Existence and uniqueness of solutions. Picard?s iteration 4. Second-order constant-coefficient linear differential equations. Higher-order differential equations. 5. Characteristic equation and case of real repeated and complex roots.Euler?s formula for complex exponential function. Cauchy-Euler. 6.The nonhomogeneous equation and applications of second order differential equations 7. Laplace transform method. First and second shifting theorems 8. 1. midterm exam, Laplace transform method. First and second shifting theorems 9. Transformation of initial-value problems with various discontinuous loading functions 10. Convolution. Unit impulses and the dirac delta function. 11. Laplace Transfom solution of Systems. 12. Differential equations with polynomial coefficients 13.1. midterm exam, Power series solutions of initial value problems 14.Singular points and the method of Frobenius. 15. Final exam

Assesment Tasks
(The time spent for the activities listed here will determine the amount of credit required.)

Weekly theoretical course hours 4
Hours per week 0
Reading Activities 1
Internet browsing, library work 2
Designing and implementing materials 0
Report preparing 0
Preparing a Presentation 0
Presentations 0
Preparation of Midterm and Midterm Exam 4
Final Exam and Preparation for Final Exam 4

Assesment Criteria

	Sayısı	**Toplam Katkısı (%)**
Midterm Exams	1	40
Assignment	0	0
Practice	0	0
Projects	0	0
Practise	0	0
Quizes	0	0
Percent of In-term Studies to Year- to Year (%)	0	40
Percentage of Final Exam to Total Score (%)	1	60
Attendance		

Workload of the Course

Efficiency	**Total Number of Weeks**	**Duration (weekly hour)**	**Total Period Work Load**
Weekly Theoretical Course Hours	14	4	56
Hours Per Week			
Reading Tasks	12	1	12
Internet Browsing, Library Work	13	2	26
Designing and Implementing Materials			
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	8	4	32
Final Exam and Preperation for Final Exam	6	4	24
Other			
Total Workload	-	-	150
Total Workload / 25			150/25
Course Credit (ECTS)			6

Contribution Level Between Course Outcomes and Program Outcomes

No	Program Learning Outcomes	1	2	3	4	5
No	Program Outcomes	1	2	3	4	5
1	PO1		X			
2	PO2				X	
3	PO3					
4	PO4					
5	PO5					
6	PO6					

		7	PO7						
		8	PO8						
		9	PO9						
Names of Lecturers and e-mails of Lecturers	Mathematics Department Teaching Members E-mail address: fefmatematik@gazi.edu.tr Phone: 2021051								

Contribution of Learning Outcomes to Programme Outcomes

	P1	**P2**
All	2	4
C1	1	1
C2	1	1
C3	1	1
C4	1	1
C5	1	

Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant

Course Category

Mathematics and Basic Sciences	**%50**
Engineering	**%50**
Engineering Design	%0
Social Sciences	%0
Education	%0
Science	%0
Health	%0

Course Description Form

Course Code and Name	**MAT202 NUMERICAL ANALYSIS**
Course Semester	4
Catalog Content	Error analysis, solution methods of linear and nonlinear equations, solution methods of sets of linear equations Interpolation techniques, curve fitting methods and numerical derivative calculation To have knowledge about numerical integration methods and numerical solution methods of ordinary differential equations
Textbook	1. Sayısal Analiz, G. Oturanç, A., Kurnaz, M.., Kiriş, Y., Keskin, Dizgi, Ofset
Supplementary Textbooks	1. Richard L. Burden and J. Douglas Faires Numerical Analysis, ninth edition, Brooks/Cole, Cengage Learning 2011,
Credit	**5 ECTS**
Prerequisites of the Course	No prerequisites 70% attendance requirement
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	To comprehend basic numerical methods, algorithms and programming techniques to find solutions to various engineering problems
Course Learning Outcomes	1. Recognize and classify numerical methods and formulate them 2. Know and relate the basic concepts of input and output error in numerical methods 3. Interpret the results of numerical methods correctly 4. Can decide which algorithm to use for the numerical problems encountered 5. Know the advantages and disadvantages of the algorithm used and have a realistic estimation of how the algorithm will work
Instruction Methods	Face to face
Weekly Schedule	**1. Week** Systems of numbers and errors **2. Week** Computer representations of numbers, integers and floating-point numbers (IEEE notations) Errors due to these impressions. **3. Week** Numerical solution methods of nonlinear equations, Bisection Method **4. Week** Regula Falsi Method, Newton Raphson Method **5. Week** Fixed Point Iteration, Secant Method **6. Week** Solution of Linear Equations Systems, Cramer Rule, Gauss Elimination Method tor Spaces **7. Week** Jacobi Iteration, Gauss-Seidel Method **8. Week** Lagrange Interpolation **9. Week** Newton Interpolation **10. Week** Curve Fitting, Least Squares Method **11. Week** Numerical differentiation methods Richardson Extrapolation **12. Week** Numerical integral methods, The Trapezoidal Methods, Romberg Method **13. Week** Simpson and Gauss Formulas **14. Week** Initial Value Problems, Euler Methods, Runge-Kutta Methods
Teaching and Learning Methods	Weekly theoretical course hours: 3 hours per week: 0 Reading Activities:2 weeks 4 hours Internet browsing, library work: 2weeks 4 hours Designing and implementing materials: 0 Report preparing: 0 Preparing a Presentation: Presentations: Preparation of Midterm and Midterm Exam: 3 weeks 6 hours Final Exam and Preparation for Final Exam: 3 weeks 8 hours

Assessment Criteria

	Numbers	Total Weighting (%)
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		
Percentage of Final Exam to Total Score (%)	1	40
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	3	42
Weekly Tutorial Hours			
Reading Tasks	3	3	9
Studies	3	3	9
Material Design and Implementation	3	3	9
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	14	2	28
Final Exam and Preperation for Final Exam	14	2	28
Other (should be emphasized)			
Total Workload			125
Total Workload / 25			125/25
Course Credit (ECTS)			5

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	In-depth knowledge of mathematics, science, basic engineering concepts, computer-aided computing and specific engineering areas; ability to use this knowledge effectively in solving complex engineering problems.		x			
2	Ability to identify, formulate and analyse complex engineering problems using knowledge of basic science, mathematics and engineering, and taking into account the UN Sustainable Development Goals.			x		
3	Ability to generate creative solutions to complex engineering problems to meet current and future needs; design complex systems, processes, devices or products under realistic constraints and conditions.	x				
4	Ability to select and use appropriate techniques, resources and modern engineering and information technology tools, including estimation and modelling, for the analysis and solution of complex engineering problems, recognising their limitations.			x		
5	Ability to use research methods, including literature search, designing and conducting experiments, collecting data, analysing and interpreting results, to investigate complex engineering problems.					
6	Knowledge of the effects of engineering practices on society, health and safety, economy, sustainability and environment within the framework of the UN Sustainable Development Goals; awareness of the legal consequences of engineering solutions.					
7	Acting in accordance with the ethical principles of the engineering profession, awareness of ethical responsibilities; awareness of non-discrimination, impartiality and embracing diversity.					

	8	Ability to work effectively as a team member or leader both individually and within interdisciplinary teams (face-to-face, distance or hybrid).							
	9	Ability to communicate effectively on technical issues, both orally and in writing, taking into account the various differences of the target audience (e.g. education, language, profession).							
	10	Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.							
	11	Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.							

The Course's Lecturer(s) and Contact Informations	Prof. Dr. Adem ACIR adema@gazi.edu.tr

Contribution of the Course to Program Outcomes

	Program outcome 1	Program outcome 2	Program outcome 3	Program outcome 4	Program outcome 5	Program outcome 6	Program outcome 7	Program outcome 8	Program outcome 9	Program outcome 10	Program outcome 11
TOTAL	**2**	**3**	**1**	**3**							
Learning outcome 1	**1**										
Learning outcome 2		**1**		**1**							
Learning outcome 3		**1**		**1**							
Learning outcome 4		**1**	**1**	**1**							
Learning outcome 5	**1**										

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	%0
Engineering Sciences	%0
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

Course Description Form

Course Code and Name	**MAT203 LINEAR ALGEBRA**
Course Semester	3
Catalog Content	Matrix algebra, elementary operations and applications, determinants, matrix norms Learning systems of linear equations and their solutions, vector spaces, linear dependence and independence, basis and dimension To have knowledge about linear transformations and matrix representations, inner product spaces, eigenvalues and eigenvectors, diagonalization concepts
Textbook	1. Linear Algebra and Its Applications (5th Edition) by David C. Lay, Steven R. Lay, Judi J. McDonald, 2015 2. Elementary Linear Algebra, Bernard Kolman, MacMillan Publishing Company, Fourth Edition, 1986.
Supplementary Textbooks	1. Uygulamalı Lineer Cebir (7. Baskıdan Çeviri), Bernard Kolman, David R. Hill, Palme Yayıncılık, 2002.
Credit	**5 ECTS**
Prerequisites of the Course	No prerequisites Attendance Requirement 70%
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	This course aims to introduce students to the fundamentals of linear algebra and its applications in engineering.
Course Learning Outcomes	1. The concept of matrix can be explained 2. The concept of determinant can be explained. 3. Explain the concepts of linear equations and systems of linear equations. 4. Identify solution sets and evaluate the existence and uniqueness of solutions.
Instruction Methods	Face to face
Weekly Schedule	**1. Week** Matrix Algebra **2. Week** Elementary Operations and Applications **3. Week** Determinants **4. Week** Linear Equation Systems and Solutions **5. Week** Linear Equation Systems and Solutions **6. Week** Vector Spaces **7. Week** Linear Dependency and Independence **8. Week** Base and Dimension **9. Week** Linear Transformations **10. Week** Matrix Representations of Linear Transformations **11. Week** Inner Product Spaces **12. Week** Matrix Norms **13. Week** Eigenvalues and Eigenvectors **14. Week** Diagonalization
Teaching and Learning Methods	Weekly theoretical course hours: 3 hours Reading Activities: 3 hours Internet browsing, library work: 3 hours Designing and implementing materials: 3 Report preparing: 0 Preparing a Presentation: Presentations: Preparation of Midterm and Midterm Exam: 2 hours Final Exam and Preparation for Final Exam: 2 hours Other 0 hours

	Numbers	**Total Weighting (%)**
Midterm Exams	1	40
Assignment		
Application		

Assessment Criteria

Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		40
Percentage of Final Exam to Total Score (%)	1	60
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	3	42
Weekly Tutorial Hours			
Reading Tasks	3	3	9
Studies	3	3	9
Material Design and Implementation	3	3	9
Report Preparing			
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam	14	2	28
Final Exam and Preperation for Final Exam	14	2	28
Other (should be emphasized)			
Total Workload			125
Total Workload / 25			125/25
Course Credit (ECTS)			5

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	In-depth knowledge of mathematics, science, basic engineering concepts, computer-aided computing and specific engineering areas; ability to use this knowledge effectively in solving complex engineering problems.				x	
2	Ability to identify, formulate and analyse complex engineering problems using knowledge of basic science, mathematics and engineering, and taking into account the UN Sustainable Development Goals.			x		
3	Ability to generate creative solutions to complex engineering problems to meet current and future needs; design complex systems, processes, devices or products under realistic constraints and conditions.	x				
4	Ability to select and use appropriate techniques, resources and modern engineering and information technology tools, including estimation and modelling, for the analysis and solution of complex engineering problems, recognising their limitations.					
5	Ability to use research methods, including literature search, designing and conducting experiments, collecting data, analysing and interpreting results, to investigate complex engineering problems.					
6	Knowledge of the effects of engineering practices on society, health and safety, economy, sustainability and environment within the framework of the UN Sustainable Development Goals; awareness of the legal consequences of engineering solutions.					
7	Acting in accordance with the ethical principles of the engineering profession, awareness of ethical responsibilities; awareness of non-discrimination, impartiality and embracing diversity.					
8	Ability to work effectively as a team member or leader both individually and within interdisciplinary teams (face-to-face, distance or hybrid).					
9	Ability to communicate effectively on technical issues, both orally and in writing, taking into account the various differences					

		of the target audience (e.g. education, language, profession).							
	10	Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.							
	11	Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.							
The Course's Lecturer(s) and Contact Informations	Matematik Bölümü Öğretim Üyeleri E-posta adresi: fefmatematik@gazi.edu.tr Telefon: 2021051								

Contribution of the Course to Program Outcomes

	Program çıktısı 1	Program çıktısı 2	Program çıktısı 3	Program çıktısı 4	Program çıktısı 5	Program çıktısı 6	Program çıktısı 7	Program çıktısı 8	Program çıktısı 9	Program çıktısı 10	Program çıktısı 11
TOPLAM KATKI DÜZEYI	**4**	**3**	**1**								
Öğrenim çıktısı 1	**1**	**1**									
Öğrenim çıktısı 2	**1**	**1**									
Öğrenim çıktısı 3	**1**	**1**									
Öğrenim çıktısı 4	**1**		**1**								

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	%0
Engineering Sciences	%0
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

Course Description Form	
Course Code and Name	**TAR101 ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION 1**
Course Semester	3
Catalog Content	The early 20th century world and the situation of the Ottoman Empire, the last period of the Ottoman Empire and the path to World War I. To learn the causes of World War I, the war process, the participation of the Ottoman Empire in the war and the results of the war Understanding the basic concepts of the National Struggle, the preparation period after the war and the preparations made under the leadership of Mustafa Kemal Atatürk
Textbook	1. Mustafa Kemal, Nutuk, Ankara, 1997. 2. Aybars, E., Türkiye Cumhuriyeti Tarihi 1-2, İzmir, 2005. 3. Komisyon, Türkiye Cumhuriyeti 1-2, Atatürk Araş. Mer. Yayını 4. Komisyon, Atatürk İlkeleri ve İnkılap Tarihi I/1-2, II, YÖK Yayını
Supplementary Textbooks	1. Turan, R. ve diğerleri; Atatürk İlkeleri ve İnkılâp Tarihi, Ankara 1999. Eroğlu, H.; Türk İnkılap Tarihi, İstanbul 1982.
Credit	**2 ECTS**
Prerequisites of the Course	No Prerequisites Attendance Requirements %70
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	To teach stages of establishment in modern Turkey
Course Learning Outcomes	1. Gains the power to analyze historical information around the subject, time and related personalities. 2. Develops a realistic perspective by associating a historical event with the events occurring today. 3. Learns to evaluate various materials such as books, articles, movies, television series dealing with historical events correctly. Gains the ability to critically evaluate different views. 4. Develops the ability to analyze his/her own views and opinions by finding bases from history. 5. Express and convey their thoughts correctly. Gains the ability to think abstractly by establishing empathy with historical characters. 6. Learns to present and comment on a historical event. 7. Adopts universal values while respecting and being loyal to their roots. 8. Understands the value of the land of the homeland by learning about their ancestors who were martyred and veterans to protect our country, and internalizes the consciousness of national unity and solidarity.
Instruction Methods	Face to face
Weekly Schedule	**1. Week** — Reasons for the Decline of the Ottoman Empire (Internal and External Reasons) **2. Week** — Reasons for the Decline of the Ottoman Empire Internal and External Reasons) **3. Week** — Renovation Activities in the Ottoman Empire (Mahmut I, Selim III Period) **4. Week** — Revolution and Similar Concepts **5. Week** — Innovations made during the reign of Mahmut II **6. Week** — The Political Situation and Fragmentation of the Ottoman Empire in the 19th Century **7. Week** — Tanzimat Period **8. Week** — Constitutional Monarchy Period **9. Week** — Constitutional Monarchy Period **10. Week** — Panislamism, Ottomanism, Islamism, Westernism, Turkism (Turanism) **11. Week** — Tripoli and I.-II. Balkan Wars **12. Week** — Causes and Consequences of World War I **13. Week** — Mustafa Kemal Pasha, Erzurum-Sivas Congresses **14. Week** — Misak-ı Milli and the Opening of the Grand National Assembly of Turkey

Teaching and Learning Methods	Weekly theoretical course hours 2 hours Weekly applied lesson 0 hours Reading activities 1 hours Internet search, library work 1 hours Material design, application 0 hours Report preparation 1 hours Presentation preparation 2 hours Presentation 0 hours Midterm Exam and Preperation for Midterm Exam 2 hours Final Exam and Preperation for Final Exam 2 hours Other 0 hours

Assessment Criteria

	Numbers	Total Weighting (%)
Midterm Exams	1	40
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		40
Percentage of Final Exam to Total Score (%)	1	60
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Weekly Theoretical Course Hours	14	2	28
Weekly Tutorial Hours			
Reading Tasks	4	1	4
Studies	4	1	4
Material Design and Implementation			
Report Preparing	2	1	2
Preparing a Presentation	4	2	8
Presentations			
Midterm Exam and Preperation for Midterm Exam	1	2	2
Final Exam and Preperation for Final Exam	1	2	2
Other (should be emphasized)			
Total Workload			50
Total Workload / 25			50/25
Course Credit (ECTS)			2

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	In-depth knowledge of mathematics, science, basic engineering concepts, computer-aided computing and specific engineering areas; ability to use this knowledge effectively in solving complex engineering problems.					
2	Ability to identify, formulate and analyse complex engineering problems using knowledge of basic science, mathematics and engineering, and taking into account the UN Sustainable Development Goals.					
3	Ability to generate creative solutions to complex engineering problems to meet current and future needs; design complex systems, processes, devices or products under realistic constraints and conditions.					

		4	Ability to select and use appropriate techniques, resources and modern engineering and information technology tools, including estimation and modelling, for the analysis and solution of complex engineering problems, recognising their limitations.							
		5	Ability to use research methods, including literature search, designing and conducting experiments, collecting data, analysing and interpreting results, to investigate complex engineering problems.			x				
		6	Knowledge of the effects of engineering practices on society, health and safety, economy, sustainability and environment within the framework of the UN Sustainable Development Goals; awareness of the legal consequences of engineering solutions.				x			
		7	Acting in accordance with the ethical principles of the engineering profession, awareness of ethical responsibilities; awareness of non-discrimination, impartiality and embracing diversity.				x			
		8	Ability to work effectively as a team member or leader both individually and within interdisciplinary teams (face-to-face, distance or hybrid).							
		9	Ability to communicate effectively on technical issues, both orally and in writing, taking into account the various differences of the target audience (e.g. education, language, profession).				x			
		10	Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.							
		11	Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.							
The Course's Lecturer(s) and Contact Informations	History Department Faculty Members									

Contribution of the Course to Program Outcomes

	Program outcome 1	**Program outcome 2**	**Program outcome 3**	**Program outcome 4**	**Program outcome 5**	**Program outcome 6**	**Program outcome 7**	**Program outcome 8**	**Program outcome 9**	**Program outcome 10**	**Program outcome 11**
TOTAL					**3**	**4**	**4**		**4**		
Learning outcome 1					**1**	**1**			**1**		
Learning outcome 2						**1**					
Learning outcome 3					**1**	**1**	**1**		**1**		
Learning outcome 4					**1**	**1**			**1**		
Learning outcome 5							**1**				
Learning outcome 6									**1**		
Learning outcome 7							**1**				
Learning outcome 8							**1**				

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	%0
Engineering Sciences	%0
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

Course Description Form	
Course Code and Name	**TAR102 ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION 2**
Course Semester	4
Catalog Content	The beginning of the National Struggle, the preparatory period, important congresses and the fronts, victories and results of the Turkish War of Independence. The proclamation of the Republic of Turkey, the creation of the structure of the new state, learning the reforms made in the fields of law, education, economy and culture. Atatürk's principles of republicanism, nationalism, populism, statism, secularism and revolutionism; Having knowledge about Turkish foreign policy during and after Atatürk's period. Learning important historical events and current developments in Turkey after Atatürk's death.
Textbook	1. Turan, R. ve diğerleri; Atatürk İlkeleri ve İnkılâp Tarihi, Ankara 1999. Eroğlu, H.; Türk İnkılap Tarihi, İstanbul 1982.
Supplementary Textbooks	1. Armaoğlu, Fahir. 20. yüzyıl Siyasi Tarihi, Ankara, 1991. 2. Atatürk'ün Söylev ve Demeçleri, C. I-II-III, Tite Yay., Ankara 1981. 3. Atatürk, M. K., Nutuk (1919-1927) Bugünkü Dille, (yay. haz.) Z. Korkmaz, Atatürk Araştırma Merkezi Yay., Ankara, 1999. 4. Armaoğlu, F.; Siyasi Tarih 1789-1960, Ankara 1964. 5. Aybars, E.; Türkiye Cumhuriyeti Tarihi I, Ankara 1990. 6. Bayur, Y. H.; Türk İnkılabı Tarihi, C.III, Ankara 1983. 7. Eroğlu, H.; Türk İnkılap Tarihi, İstanbul 1982.
Credit	**2 ECTS**
Prerequisites of the Course (*Attendance Requirements*)	No Prerequisites Attendance Requirements %70
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	Atatürk's Principles and History of Revolution II course is to help students understand the time and conditions they are in and to create a perspective on the future of the world and our country by analyzing this situation. Creating a national memory by informing students about their recent past. To instill self-confidence in students, to learn the founding philosophy of the Republic of Turkey and Atatürk's principles and revolutions, and in the light of this knowledge, to gain national unity and solidarity, the indivisible integrity of the country and the goal of raising the Republic of Turkey to the level of developed countries
Course Learning Outcomes	1. Gains an interdisciplinary thinking skill by making associations between the information learned in this course and their main science courses. 2. Gains values such as unity and solidarity, independence, prioritizing national interests, being loyal to the homeland, being an active citizen. 3. Develops a realistic perspective by associating a historical event with the events occurring today. 4. Learns to analyze documents while examining materials such as first-hand sources, documentaries and films used during the course. 5. To have different perspectives on the topics covered in the course by reading auxiliary books related to Atatürk's Principles and History of Revolution II course. 6. Develops respect for different views and opinion currents by researching and reading their own views. 7. Gains experience in how to speak in front of the public when using the discussion method in group work and in class. 8. Learns to stand strong against the difficulties in life by seeing the difficulties experienced by their ancestors and their struggle to survive, and

	to adopt universal values while respecting and adhering to their roots; Understands the value of the land of the homeland by learning about their ancestors who were martyred and veterans to protect our country, and gains a sense of national unity and solidarity.
Instruction Methods	Face to face
Weekly Schedule	**1. Week** — National Struggle, Eastern Front and Southern Front. **2. Week** — Establishment of the Regular Army and the Western Front. **3. Week** — Tekalifi Milliye Decisions, Great Offensive, Signing of the Mudanya Armistice. **4. Week** — Lausanne Peace Treaty and Its Importance. **5. Week** — Reforms in the Political Field in the Republican Period, Establishment of Political Parties, Democracy Trials in the Republic of Turkey and Reactions to It. **6. Week** — Revolutions in Education, Culture, Health and Public Works. **7. Week** — Revolutions in Education, Culture, Health and Public Works. **8. Week** — Economic and Social Revolutions. **9. Week** — Foreign Policy Followed by Turkey in the Republican Era. **10. Week** — Foreign Policy Between 1923-1932 and 1932-1939. **11. Week** — Ataturk's Principles and Integrative Principles **12. Week** — Death of Mustafa Kemal Atatürk and İsmet İnönü Period. **13. Week** — Developments in the Democratic Party Period and After. **14. Week** — Türkiye from 1980 to the Present.
Teaching and Learning Methods *(These are examples. Please fill which activities you use in the course)*	Weekly theoretical course hours: 2 Weekly tutorial hours: 0 Reading Activities: 1 Internet browsing, library work: 1 Designing and implementing materials: 0 Report preparing: 1 Preparing a Presentation: 1 Presentations: 2 Preparation of Midterm and Midterm Exam: 2 Final Exam and Preparation for Final Exam: 2 Other: 0
Assessment Criteria	

	Numbers	**Total Weighting (%)**
Midterm Exams	1	60
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)	1	**60**
Percentage of Final Exam to Total Score (%)	1	**40**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hours)	Total Period Work Load
Weekly Theoretical Course Hours	14	2	28
Weekly Tutorial Hours			
Reading Tasks	4	1	4
Studies	4	1	4
Material Design and Implementation			
Report Preparing	2	1	2
Preparing a Presentation	2	1	2
Presentations	3	2	6
Midterm Exam and Preperation for Midterm Exam	1	2	2
Final Exam and Preperation for Final Exam	1	2	2
Other (quiz)			
Total Workload			50
Total Workload / 25			50/25
Course Credit (ECTS)			2

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	In-depth knowledge of mathematics, science, basic engineering concepts, computer-aided computing and specific engineering areas; ability to use this knowledge effectively in solving complex engineering problems.					
2	Ability to identify, formulate and analyse complex engineering problems using knowledge of basic science, mathematics and engineering, and taking into account the UN Sustainable Development Goals.					
3	Ability to generate creative solutions to complex engineering problems to meet current and future needs; design complex systems, processes, devices or products under realistic constraints and conditions.					
4	Ability to select and use appropriate techniques, resources and modern engineering and information technology tools, including estimation and modelling, for the analysis and solution of complex engineering problems, recognising their limitations.					
5	Ability to use research methods, including literature search, designing and conducting experiments, collecting data, analysing and interpreting results, to investigate complex engineering problems.					
6	Knowledge of the effects of engineering practices on society, health and safety, economy, sustainability and environment within the framework of the UN Sustainable Development Goals; awareness of the legal consequences of engineering solutions.					
7	Acting in accordance with the ethical principles of the engineering profession, awareness of ethical responsibilities; awareness of non-discrimination, impartiality and embracing diversity.		x			
8	Ability to work effectively as a team member or leader both individually and within				x	

		interdisciplinary teams (face-to-face, distance or hybrid).						
	9	Ability to communicate effectively on technical issues, both orally and in writing, taking into account the various differences of the target audience (e.g. education, language, profession).				x		
	10	Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.						
	11	Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.	x					
The Course's Lecturer(s) and Contact Informations	History Department Faculty Members							

Contribution of Learning Outcomes to Programme Outcomes

	Program outcome 1	**Program outcome 2**	**Program outcome 3**	**Program outcome 4**	**Program outcome 5**	**Program outcome 6**	**Program outcome 7**	**Program outcome 8**	**Program outcome 9**	**Program outcome 10**	**Program outcome 11**
TOTAL							**2**	**4**	**4**		**1**
Learning outcome 1								**1**			
Learning outcome 2								**1**	**1**		
Learning outcome 3								**1**			
Learning outcome 4									**1**		
Learning outcome 5							**1**				
Learning outcome 6									**1**		**1**
Learning outcome 7								**1**	**1**		
Learning outcome 8							**1**				

Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant

Course Category	
Mathematics and Basic Sciences	%0
Engineering	%0
Engineering Design	%0
Social Sciences	**%100**
Education	%0
Science	%0
Health	%0
Field	%0

Course Description Form

Course Code and Name	**TKN401 WORKSHOP PRACTICE**
Course Semester	7-8
Catalog Content	Developing students' decision-making and application skills by taking responsibility in the workplace training course that takes place in real business life environment Comparing theory and practice knowledge Preparing a regular report of observations during workplace training
Textbook	Forms of workplace education, regulations, occupational health safety books, labor law books, various legislation and regulations
Supplementary Textbooks	Forms of workplace education, regulations, occupational health safety books, labor law books, various legislation and regulations
Credit (ECTS)	**20 ECTS**
Prerequisites of the Course (Attendance Requirements)	No prerequisites Attendance Requirement 100%
Type of the Course	Compulsory
Instruction Language of the Course	Turkish
Course Objectives	To reinforce / develop the knowledge, skills and experience of the students in theoretical courses in the faculty and in the laboratory / workshop applications they take. To enable them to recognize workplace organizations, design / production processes and new technologies, To recognize the quality control processes and control mechanisms To prepare students for their professional lives in the field of engineering, to guide them in determining their career goals and to be able to work in the field
Learning Outcomes	1. Combines theoretical knowledge with practical knowledge. 2. Works cooperatively in a team. 3. Takes responsibility. 4. Observes real business life. 5. Develops decision making skills. 6. Recognize their professional strengths and weaknesses. 7. Gives importance to time and cost efficiency. 8. Acts in accordance with workplace rules. 9. Observes possible problems that may be encountered in business life. 10. Develops solutions to possible problems. 11. Acts in accordance with occupational health and safety rules.
Instruction Methods	Practice

Weekly Schedule

Week	Topics
1	Legislation and practices related to workplace training, orientation
2	Occupational Health and Safety practices
3	Labor Law applications
4	Engineering ethics and practices
5	Health, environmental and safety impacts of engineering applications
6	Engineering standards and practices
7	Quality management and applications
8	The role of the workplace in sustainable development and practices
9	Faculty member workplace visit and interim report presentation
10	Risk management and its applications in the workplace
11	Organization management and workflow applications
12	Instruction and process follow-up
13	Competitiveness, cost and processes
14	Engineering economics and applications

Assesment Tasks **(The time spent for the activities listed here will determine the amount of credit required.)**	Weekly theoretical course hours 5 hours Weekly practical lesson 15 hours Reading activities 0 hours Internet search, library work 2 hours Material design, application 5 hours Report preparation 4 hours Presentation preparation 3 hours Presentation 2 hours Midterm exam and midterm exam 0 hours Final exam and preparation for the final exam 0 hours Other 0 hours

Assesment Criteria

	Numbers	Total Weighting (%)
Midterm Exams		
Assignment	5	20
Practice	15	30
Projects	1	20
Practice	15	30
Quizes		
Percent of In-term Studies to Year- to Year (%)		**100**
Percentage of Final Exam to Total Score (%)		
Devam Durumu		

Workload

Activity	**Total Number of Weeks**	**Duration (Weekly Hours)**	**Total Period Work Load**
Weekly theoretical course hours	15	5	75
Weekly applied lesson hours	15	15	225
Reading Activities			
Internet browsing, library work	5	5	25
Material design, application	15	5	75
Report preparation	10	4	40
Preparing a presentation	5	6	30
Presentations	5	6	30
Midterm exam and midterm exam			
Final exam and preparation for the final exam			
Other			
Total workload			500
Total workload/ 25			500/25
Course ECTS credit			20

No	Program Outcomes	1	2	3	4	5
1	In-depth knowledge of mathematics, science, basic engineering concepts, computer-aided computing and specific engineering areas; ability to use this knowledge effectively in solving complex engineering problems.		x			
2	Ability to identify, formulate and analyse complex engineering problems using knowledge of basic science, mathematics and engineering, and taking into account the UN Sustainable					

Contribution Level Between Course Learning Outcomes and Program Outcomes		Development Goals.					
	3	Ability to generate creative solutions to complex engineering problems to meet current and future needs; design complex systems, processes, devices or products under realistic constraints and conditions.					
	4	Ability to select and use appropriate techniques, resources and modern engineering and information technology tools, including estimation and modelling, for the analysis and solution of complex engineering problems, recognising their limitations.					
	5	Ability to use research methods, including literature search, designing and conducting experiments, collecting data, analysing and interpreting results, to investigate complex engineering problems.					
	6	Knowledge of the effects of engineering practices on society, health and safety, economy, sustainability and environment within the framework of the UN Sustainable Development Goals; awareness of the legal consequences of engineering solutions.					
	7	Acting in accordance with the ethical principles of the engineering profession, awareness of ethical responsibilities; awareness of non-discrimination, impartiality and embracing diversity.					x
	8	Ability to work effectively as a team member or leader both individually and within interdisciplinary teams (face-to-face, distance or hybrid).			x		
	9	Ability to communicate effectively on technical issues, both orally and in writing, taking into account the various differences of the target audience (e.g. education, language, profession).					x
	10	Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.			x		
	11	Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.					x
The Course's Lecturer(s) and Contact Informations		Head of Department tasarim@gazi.edu.tr					

Contribution of Learning Outcomes to Programme Outcomes

	Program outcome 1	Program outcome 2	Program outcome 3	Program outcome 4	Program outcome 5	Program outcome 6	Program outcome 7	Program outcome 8	Program outcome 9	Program outcome 10	Program outcome 11
TOTAL	**2**						**5**	**3**	**5**	**3**	**5**
Learning outcome 1	**1**								**1**		**1**
Learning outcome 2								**1**			**1**
Learning outcome 3								**1**			**1**
Learning outcome 4									**1**	**1**	**1**
Learning outcome 5								**1**			
Learning outcome 6							**1**			**1**	
Learning outcome 7							**1**				
Learning outcome 8							**1**		**1**		
Learning outcome 9							**1**		**1**	**1**	1
Learning outcome 10	**1**								**1**		
Learning outcome 11							**1**				

Contribution: 1: Very Slight 2: Slight 3: Moderate 4: Significant 5: Very Significant

Course Structure

Engineering Sciences	%100

Course Description Form	
Course Code and Name	**TKN403 INTERNSHIP**
Course Semester	7-8
Catalog Content	Depending on the engineering program, factory organization, field or field work and engineering application projects and competitiveness analysis, general information about the business, Learning business processes, management-organization structure, occupational safety and work discipline, design, application and project studies in the field. Increasing the knowledge and skills related to the field of engineering by closely monitoring and analyzing the work of sector employees, Monitoring technological developments in the sector
Textbook	Written and online resources related to the department curriculum
Supplementary Textbooks	Written and online resources related to the department curriculum
Credit	**10 ECTS**
Prerequisites of the Course	No prerequisites Attendance Obligation %100
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	To develop and reinforce the theoretical knowledge acquired by the students in the education and training processes, to recognise the business processes, as well as to transform the theoretical knowledge into skills and experiences by conducting field and field studies in the field of engineering To enable them to get acquainted with the management/organisations of the organisation, production processes and new technologies, to gain skills and dexterity with on-the-job applications
Course Learning Outcomes	1. The student recognises the institution where he / she does internship related to his / her field. 2. Learns work flow and management organisation processes 3. Learns the duties and functions of design, planning, production, quality control and maintenance and repair departments, 4. Observes the field and field project applications on site
Instruction Methods	Practice
Weekly Schedule	**1. Week** — Orientation **2. Week** — Examines the application of occupational health and safety rules in the workplace **3. Week** — Examines the organisational structure of the organisation **4. Week** — Follows work flow processes **5. Week** — Takes part in field or field projects **6. Week** — Analyses project tasks based on theoretical knowledge **7. Week** — Follows field or field applications **8. Week** — Monitors industrial product processes **9. Week** — Researches product development and new technologies **10. Week** — Analyses market and competition conditions **11. Week** — Analyses the performance of the organisation **12. Week** — Performs productivity analysis **13. Week** — Observes applications **14. Week** — Reporting

Teaching and Learning Methods

Weekly theoretical course hours: 0
Weekly tutorial hours: 0
Reading Activities: 5
Internet browsing, library work 5
Designing and implementing materials: 7
Report preparing: 5
Preparing a Presentation: 0
Presentations: 0
Preparation of Midterm and Midterm Exam: 0
Final Exam and Preparation for Final Exam: 0
Other: 3

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams		
Assignment		
Application	1	50
Projects		
Practice	1	50
Quiz		
Percent of In-term Studies (%)		**100**
Percentage of Final Exam to		
Attendance		

Workload

Activity	**Total Number of Weeks**	**Duration (weekly hour)**	**Total Period Work Load**
Weekly Theoretical Course Hours			
Weekly Tutorial Hours			
Reading Tasks	10	5	50
Studies	8	5	40
Material Design and Implementation	15	6	90
Report Preparing	10	5	50
Preparing a Presentation			
Presentations			
Midterm Exam and Preperation for Midterm Exam			
Final Exam and Preperation for Final Exam			
Other (should be emphasized)	10	2	20
Total Workload			250
Total Workload / 25			250/25
Course Credit (ECTS)			10

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	In-depth knowledge of mathematics, science, basic engineering concepts, computer-aided computing and specific engineering areas; ability to use this knowledge effectively in solving complex engineering problems.		x			
2	Ability to identify, formulate and analyse complex engineering problems using knowledge of basic science, mathematics and engineering, and taking into account the UN Sustainable Development Goals.				x	
3	Ability to generate creative solutions to	x				

		complex engineering problems to meet current and future needs; design complex systems, processes, devices or products under realistic constraints and conditions.						
	4	Ability to select and use appropriate techniques, resources and modern engineering and information technology tools, including estimation and modelling, for the analysis and solution of complex engineering problems, recognising their limitations.			x			
	5	Ability to use research methods, including literature search, designing and conducting experiments, collecting data, analysing and interpreting results, to investigate complex engineering problems.						
	6	Knowledge of the effects of engineering practices on society, health and safety, economy, sustainability and environment within the framework of the UN Sustainable Development Goals; awareness of the legal consequences of engineering solutions.						
	7	Acting in accordance with the ethical principles of the engineering profession, awareness of ethical responsibilities; awareness of non-discrimination, impartiality and embracing diversity.						
	8	Ability to work effectively as a team member or leader both individually and within interdisciplinary teams (face-to-face, distance or hybrid).						
	9	Ability to communicate effectively on technical issues, both orally and in writing, taking into account the various differences of the target audience (e.g. education, language, profession).						
	10	Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.						
	11	Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.						
The Course's Lecturer(s) and Contact Informations	Head of Department tasarim@gazi.edu.tr							

Contribution of the Course to Program Outcomes

	Program outcome 1	Program outcome 2	Program outcome 3	Program outcome 4	Program outcome 5	Program outcome 6	Program outcome 7	Program outcome 8	Program outcome 9	Program outcome 10	Program outcome 11
TOTAL	**2**	**4**	**1**	**3**							
Learning outcome 1	**1**	**1**	**1**								
Learning outcome 2		**1**		**1**							
Learning outcome 3	**1**	**1**		**1**							
Learning outcome 4		**1**		**1**							

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	%0
Engineering Sciences	%0
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

Course Description Form	
Course Code and Name	**TUR101 TURKISH LANGUAGE 1**
Course Semester	1
Catalog Content	Characteristics of language, language-communication-culture relationship, cultural carrier of language and the differences between spoken and written language. Classification of world languages, the place of Turkish among world languages, historical periods of Turkish language, dialects and important works. Turkish vocabulary, sound features and sound events, word formation and affixes, root, stem, affix structure. Word types and features, word formation and morphology Phrases, sentence elements, sentence types and sentence analysis. Spelling rules, punctuation and textuality criteria (basic criteria and coherence tools).
Textbook	1. Yakıcı, A., Yücel, M., Doğan, M. ve Yelok, V. S., Üniversiteler İçin Türk Dili ve Kompozisyon Bilgileri (Editör: V. S. Yelok), Bilge Yayınları, Ankara, 2005. 2. Eker, S., Çağdaş Türk Dili, Grafiker Yay., İstanbul, 2006. 3. Parlatır, İ., Gülensoy, T. ve Birinci, N., Yüksek Öğretim Öğrencileri İçin Türk Dili Kompozisyon Bilgileri, Yargı Yayınevi, Ankara, 2003.
Supplementary Textbooks	1. Bilgin, M., Anlamdan Anlatıma Türkçemiz, Anı Yayıncılık, Ankara, 2005
Credit	**2 ECTS**
Prerequisites of the Course	No Prerequisites - %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	To intuit the features of the Turkish language, the rules of functioning, to show with examples. To develop vocabulary through written and oral texts To gain the habit of following the rules of spelling (spelling) and using punctuation marks in their place. To gain the habit of reading books. To gain the habit of scientific, critical, questioning, interpreting, creative, constructive thinking.
Course Learning Outcomes	1. Knows the relationship between language-culture and language-thought by comprehending the definitions of language, communication and culture. Understands the differences between spoken and written language. 2. Knows the languages of the world and the place of Turkish among the world languages. 3. Knows the historical development of Turkish language, its distribution areas and its current situation. 4. Knows the expressive power of Turkish, its vocabulary and the structural and semantic basic features of its vocabulary. 5. Knows the semantic and structural morphemes based on the basic sound features of Turkish. 6. Knows the structural and semantic functions of dependent and independent morphemes in Turkish. 7. Knows the structural and semantic functions of phrases in syntax. 8. Knows the basic features of Turkish syntax. 9. Knows the basic characteristics of sentence types. Can analyze Turkish sentences. 10. Knows the basic functions of spelling rules in effective reading and writing. 11. Knows the basic functions of punctuation marks in effective reading and writing. 12. Knows the basic criteria and features of textuality. 13. Knows the basic features of cohesion and creates sentences in accordance with the principles of cohesion.
Instruction Methods	Face to face

Weekly Schedule

1. Week	Notice, Language & Features of the Language,
2. Week	Language – Thought Relation,
3. Week	Mother Tongue, Context, Language and Expression, Symbol – Image,
4. Week	Culture (Language – Culture Relation, Culture Types),
5. Week	Civilization, Petition Writing,
6. Week	Languages around the World (Formation of Languages, Types of Languages, Classificati the Languages)
7. Week	Place of Turkish Language among World Languages,
8. Week	Historical Periods and Progress of Turkish Language,
9. Week	Current Status and Spreading Areas of the Turkish Language,
10. Week	Grammar and Sections (Phonetics, Formatting),
11. Week	Grammar and Sections (Phonetics, Formatting),
12. Week	Elements in Turkish Language from Foreign Language,
13. Week	Orthography and Application,
14. Week	Punctuation Marks and Usage Related Applications.

Teaching and Learning Methods

Weekly theoretical course hours: 2
Weekly tutorial hours: 0
Reading Activities: 0
Internet browsing, library work: 3
Studies: 2
Designing and implementing materials: 0
Report preparing: 0
Preparing a Presentation: 2
Presentations: 0
Preparation of Midterm and Midterm Exam: 2
Final Exam and Preparation for Final Exam: 2
Other: 0

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	40
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		**40**
Percentage of Final Exam to Total Score (%)	**1**	**60**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hours)	Total Period Work Load
Weekly Theoretical Course Hours	14	2	28
Weekly Tutorial Hours			
Reading Tasks	2	3	6
Studies	4	2	8
Material Design and Implementation			
Report Preparing			
Preparing a Presentation	2	2	4
Presentations			
Midterm Exam and Preperation for Midterm Exam	1	2	2
Final Exam and Preperation for Final Exam	1	2	2
Other (should be emphasized)			
Total Workload			50
Total Workload / 25			50/25
Course Credit (ECTS)			2

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	In-depth knowledge of mathematics, science, basic engineering concepts, computer-aided computing and specific engineering areas; ability to use this knowledge effectively in solving complex engineering problems.					
2	Ability to identify, formulate and analyse complex engineering problems using knowledge of basic science, mathematics and engineering, and taking into account the UN Sustainable Development Goals.					
3	Ability to generate creative solutions to complex engineering problems to meet current and future needs; design complex systems, processes, devices or products under realistic constraints and conditions.					
4	Ability to select and use appropriate techniques, resources and modern engineering and information technology tools, including estimation and modelling, for the analysis and solution of complex engineering problems, recognising their limitations.					
5	Ability to use research methods, including literature search, designing and conducting experiments, collecting data, analysing and interpreting results, to investigate complex engineering problems.			x		
6	Knowledge of the effects of engineering practices on society, health and safety, economy, sustainability and environment within the framework of the UN Sustainable Development Goals; awareness of the legal consequences of engineering solutions.					
7	Acting in accordance with the ethical principles of the engineering profession, awareness of ethical responsibilities; awareness of non-discrimination, impartiality and embracing diversity.			x		
8	Ability to work effectively as a team member or leader both individually and within				x	

		interdisciplinary teams (face-to-face, distance or hybrid).						
	9	Ability to communicate effectively on technical issues, both orally and in writing, taking into account the various differences of the target audience (e.g. education, language, profession).						x
	10	Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.						
	11	Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.						

The Course's Lecturer(s) and Contact Informations	Faculty Members of the Department of Turkish Language and Literature geftde@gazi.edu.tr

Contribution of the Course to Program Outcomes

	Program outcome 1	Program outcome 2	Program outcome 3	Program outcome 4	Program outcome 5	Program outcome 6	Program outcome 7	Program outcome 8	Program outcome 9	Program outcome 10	Program outcome 11
TOTAL					**3**		**3**	**4**	**5**		
Learning outcome 1							**1**	**1**			
Learning outcome 2							**1**	**1**			
Learning outcome 3							**1**	**1**			
Learning outcome 4								**1**			
Learning outcome 5											
Learning outcome 6					**1**				**1**		
Learning outcome 7					**1**						
Learning outcome 8					**1**						
Learning outcome 9											
Learning outcome 10									**1**		
Learning outcome 11									**1**		
Learning outcome 12									**1**		
Learning outcome 13									**1**		

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	%0
Engineering Sciences	%0
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0

Course Description	
Course Code and Name	**TUR102 TURKISH LANGUAGE 2**
Course Semester	2
Catalog Content	Understanding the structure of sentences and word groups, the elements that make up the sentence, sentence types and analysis methods Topic selection, thought development, determining the main idea, creating a theme, using imagination and learning paragraph structure To have knowledge about creative and fictional writings, writings that convey thoughts and information Understanding how to write minutes, papers, reports, business letters and CVs Understanding spelling and punctuation errors, expression disorders, sound-based mistakes Conference organization and scientific research methods
Textbook	1. Yakıcı, A., Yücel, M., Doğan, M. ve Yelok, V. S., Üniversiteler İçin Türk Dili ve Kompozisyon Bilgileri (Editör: V. S. Yelok), Bilge Yayınları, Ankara, 2005. 2. Eker, S., Çağdaş Türk Dili, Grafiker Yay., İstanbul, 2006. 3. Parlatır, İ., Gülensoy, T. ve Birinci, N., Yüksek Öğretim Öğrencileri İçin Türk Dili Kompozisyon Bilgileri, Yargı Yayınevi, Ankara, 2003.
Supplementary Textbooks	1. Bilgin, M., Anlamdan Anlatıma Türkçemiz, Anı Yayıncılık, Ankara, 2005
Credit	**2 ECTS**
Prerequisites of the Course	No Prerequisites - %70 Attendance Requirements
Type of the Course	Compulsory
Instruction Language	Turkish
Course Objectives	The aim of this course is to provide students with the basic skills of narration and expression, To reinforce the correct and beautiful use of Turkish, to present a project by providing information about the academic writing process To enable them to comprehend speaking methods and techniques that will be useful in making prepared and unprepared speeches To ensure the acquisition of speaking and writing skills that will be necessary in professional applications such as job applications and job interviews in daily life
Course Learning Outcomes	1. Knows the ways to write a successful composition and the process of creating a written composition. 2. Knows the elements that make up a paragraph and why the ways of developing thought are used in a paragraph. 3. Develops writing skills at text level. 4. Develops writing skills by comprehending the basic characteristics of thought writings. 5. Knows the basic features of art writings. 6. Develops writing skills by comprehending the basic qualities of formal and content of official correspondence. 7. Knows the basic principles of scientific research methods and academic writing process. 8. Knows citation, referencing techniques, importance and ethical principles in academic writing. 9. Knows the types of reading and applies reading comprehension strategies. 10. Knows the types of listening and comprehends the relationship between reading and listening. 11. Knows the basic concepts of oral expression, speech and diction. 12. Knows the basic principles and qualities of oral expression types. 13. Develops speaking and presentation techniques by comprehending the basic elements (content, attitude, presentation) to be considered in a successful speech and presentation.

Instruction Methods	Face to face

Weekly Schedule

1. Week	Sentence Structure, Wordings, Sentence and Sentence Composing Elements
2. Week	Sentence Types
3. Week	Sentence Analysis, Sentence Inspection Examples
4. Week	Composition (In the Composition; Subject, Note and Keynote)
5. Week	Theme, Imagination, Paragraph
6. Week	Narration Types
7. Week	Creative, Fictional Writings
8. Week	Creative, Fictional Writings
9. Week	Creative, Fictional Writings
10. Week	Thought and Idea Transmitting Writings
11. Week	Formal Writings (Minutes, Announcements, Reports, Business Letters and CV)
12. Week	Linguistic Faults (Writing and Punctuation Mark Faults)
13. Week	Linguistic Faults (Expression Failures, Voice Based Faults)
14. Week	Conference

Teaching and Learning Methods

Weekly theoretical course hours: 2
Weekly tutorial hours: 0
Reading Activities: 0
Internet browsing, library work: 2
Designing and implementing materials: 2
Report preparing: 0
Preparing a Presentation: 0
Presentations: 0
Preparation of Midterm and Midterm Exam: 2
Final Exam and Preparation for Final Exam: 2
Other: 0

Assessment Criteria

	Numbers	**Total Weighting (%)**
Midterm Exams	1	40
Assignment		
Application		
Projects		
Practice		
Quiz		
Percent of In-term Studies (%)		**40**
Percentage of Final Exam to Total Score (%)	1	**60**
Attendance		

Workload

Activity	Total Number of Weeks	Duration (weekly hours)	Total Period Work Load
Weekly Theoretical Course Hours	14	2	28
Weekly Tutorial Hours			
Reading Tasks	2	3	6
Studies	4	2	8
Material Design and Implementation			
Report Preparing			
Preparing a Presentation	2	2	4
Presentations			
Midterm Exam and Preperation for Midterm Exam	1	2	2
Final Exam and Preperation for Final Exam	1	2	2
Other (should be emphasized)			
Total Workload	-	-	50
Total Workload / 25			50/25
Course Credit (ECTS)			2

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	In-depth knowledge of mathematics, science, basic engineering concepts, computer-aided computing and specific engineering areas; ability to use this knowledge effectively in solving complex engineering problems.					
2	Ability to identify, formulate and analyse complex engineering problems using knowledge of basic science, mathematics and engineering, and taking into account the UN Sustainable Development Goals.					
3	Ability to generate creative solutions to complex engineering problems to meet current and future needs; design complex systems, processes, devices or products under realistic constraints and conditions.					
4	Ability to select and use appropriate techniques, resources and modern engineering and information technology tools, including estimation and modelling, for the analysis and solution of complex engineering problems, recognising their limitations.					
5	Ability to use research methods, including literature search, designing and conducting experiments, collecting data, analysing and interpreting results, to investigate complex engineering problems.			x		
6	Knowledge of the effects of engineering practices on society, health and safety, economy, sustainability and environment within the framework of the UN Sustainable Development Goals; awareness of the legal consequences of engineering solutions.					
7	Acting in accordance with the ethical principles of the engineering profession, awareness of ethical responsibilities; awareness of non-discrimination, impartiality and embracing diversity.			x		

	8	Ability to work effectively as a team member or leader both individually and within interdisciplinary teams (face-to-face, distance or hybrid).				x			
	9	Ability to communicate effectively on technical issues, both orally and in writing, taking into account the various differences of the target audience (e.g. education, language, profession).					x		
	10	Knowledge of business life practices such as project management and economic feasibility analysis; awareness of entrepreneurship and innovation.							
	11	Ability to learn independently and continuously, to adapt to new and emerging technologies and to think inquisitively about technological changes.							

The Course's Lecturer(s) and Contact Informations	Faculty Members of the Department of Turkish Language and Literature geftde@gazi.edu.tr

Contribution of the Course to Program Outcomes

	Program outcome 1	Program outcome 2	Program outcome 3	Program outcome 4	Program outcome 5	Program outcome 6	Program outcome 7	Program outcome 8	Program outcome 9	Program outcome 10	Program outcome 11
TOTAL					**3**		**3**	**4**			
Learning outcome 1							**1**	**1**			
Learning outcome 2							**1**	**1**			
Learning outcome 3							**1**	**1**			
Learning outcome 4								**1**			
Learning outcome 5											
Learning outcome 6					**1**				**1**		
Learning outcome 7					**1**						
Learning outcome 8					**1**						
Learning outcome 9											
Learning outcome 10									**1**		
Learning outcome 11									**1**		
Learning outcome 12									**1**		
Learning outcome 13									**1**		

Contribution Level: 1: Very Low 2: Low 3: Medium 4: High 5: Very High

Course Structure

Mathematics and Basic Sciences	%0
Engineering Sciences	%0
Engineering Design	%0
Social Sciences	%100
Education Sciences	%0
Science	%0
Health Sciences	%0
Field Knowledge	%0