



Link of the Page: Course Information Package

Course Content Report

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
OD 107	CAREER PLANNING	1	0	1.00	2.00	Compulsory
Course Cont	ent					

Course Content

Conceptual framework for career planning; Promotion of exchange programs and scholarship programs to support undergraduate education; Introduction of vocational national and international certificate and training-practice programs; Introduction of the program and elective courses for career alternatives; Explaining communication issues such as introducing oneself, official correspondence rules, addressing in official interviews and interviews; Giving information about the use of diction and body language; Introduction of the sector and related business lines; Transfer of professional experience with the participation of a sector representative or a successful professional in the sector; Preparing a CV and transferring basic information to the CV; Examining CV samples and introducing job/professional application platforms; Teaching interview techniques; Transfer of professional experience with the participation of a sector representative or a successful professional in the sector; Preparing a CV and transferring basic information to the CV; Examining CV samples and introducing job/professional application platforms; Teaching interview techniques; Transfer of professional experience with the participation of a sector representative or a successful professional in the sector

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
TM 109	PHYSICS I	3	1	3.50	5.00	Compulsory
Course Cont	ent					

This course includes these topics: units and physical quantities, vectors, motion in one or two dimensions, force, laws of conservation of work and energy, potential energy, circular motion, static equilibrium etc.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 101	INTRODUCTION TO COMPUTER ENGINEERING	2	0	2.00	3.00	Compulsory
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Course Content

History of Computers ; The Basics of Computer Science and Computer Engineering ; Software and Hardware Comcepts ; Computer Architecture ; Data Manipulation ; Signed and Unsigned Integers ; Floating Point Numbers ; Number Systems ; Introduction to Algorithms ; Flowcharts ; Pseudo Code; Input/Outpput ; Arithmetic Operations ; Controls ; Loops ; Introduction to Coding ; Data Types ; Arrays ; Min-Max Problem ; Strings ; Multi-dimensional Arrays ; Search Algorithms ; Complexity of Algorithms

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 103	INTRODUCTION TO COMPUTING	3	1	3.50	4.00	Compulsory
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Course Content

Concepts of an algorithm and an effective algorithm; Introduction to the basic problem solving techniques; Algorithm design; Algorithm analysis; Algorithm optimization; Several applications in C programming language.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
OD 113	TURKISH I	2	0	2.00	2.00	Compulsory
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Course Content

Definition of language, its characteristics, relations between language-nation / language-thought and language-culture. Language in the world; the place and importance of Turkish among them and its historical development. Ataturk's language revolution, concept and works. Sounds in Turkish. Phonology of Turkish. Spelling rules and application. Punctuation rules and application. Vocabulary. Productiveness of Turkish.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
TM 107	GENERAL CHEMISTRY	3	1	3.50	5.00	Compulsory
Course Cont	ent					

In this course, students will learn basic chemistry knowledge and will be able to perform chemical scale calculations with this information. They will also have detailed information about the compound types and their behavior.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
TM 105	MATHEMATICS I	4	0	4.00	5.00	Compulsory
Course Cont	ent					

This lesson includes the following subjects; limit and continuity, derivative and applications of derivative, integral and integral applications.

Course Unit Code Course Name	т	Credit	ECTS	Туре
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Coursecont	ADVANCED ENGLISH I	Course Name	Т	U	Credit	ECTS	Туре
This course;	Includes topics aimed to ensure ac	ademic level English reading skills.					
Course Unit Code		Course Name	т	U	Credit	ECTS	Туре
OD 118	ADVANCED ENGLISH II		3	0	3.00	4.00	Compulsory
Course Cont	ent						
Course Unit Code		Course Name	т	U	Credit	ECTS	Туре
OD 114	TURKISH II		2	0	2.00	2.00	Compulsory
Course Cont	ent						
Expression di	sorders, types of written expressio	n, thoughts, artistic writing, types of co	rrespondence, types o	f ve	rbal expres	sion.	
Course Unit Code		Course Name	т	U	Credit	ECTS	Туре
TM 106	MATHEMATICS II		4	0	4.00	5.00	Compulsory
Course Cont	ent						
This course ir multivariable		lications, vectors, limit, continuity and d	erivative, direction de	rivat	ives and m	ultiple inte	egrals in
Course Unit Code		Course Name	т	U	Credit	ECTS	Туре
BM 102	DISCRETE COMPUTATIONAL STR	UCTURES	3	0	3.00	5.00	Compulsory
Course Cont	ent						
	nd Functions; Fundamentals of Alg e-State Machine with/without Outp	orithms; Integers and matrices; Countir	ng Techniques; Chrom	atic	s Polinomia	ls; Graphs	s; Trees; Boole
Course Unit Code		Course Name	т	U	Credit	ECTS	Туре
Code BM 104 Course Cont		Course Name	3	1	3.50	5.00	Compulsory
Code BM 104 Course Cont Data Types ; ; Function Po	c ent Control Flows ; Loops ; Arrays and	Course Name Pointers ; Multi-dimensional Arrays ; P and Global Variables ; Structures ; Bit-	Pointer Arrays ; String:	1 s;[3.50 Synamic Me	5.00 mory Allo	Compulsory
Code BM 104 Course Cont Data Types ; ; Function Po Data Structur	c ent Control Flows ; Loops ; Arrays and nters ; Recursive Functions ; Loca	Course Name Pointers ; Multi-dimensional Arrays ; P and Global Variables ; Structures ; Bit-	2 Pointer Arrays ; String -wise Operations ; File	1 s;[3.50 Xynamic Me erations ; C	5.00 mory Allo	Compulsory
BM 104 Course Cont Data Types ; ; Function Po Data Structur Course Unit	c ent Control Flows ; Loops ; Arrays and nters ; Recursive Functions ; Loca	Course Name d Pointers ; Multi-dimensional Arrays ; P l and Global Variables ; Structures ; Bit- ynamic Libraries	Pointer Arrays ; String wise Operations ; File	1 s ; [e Op	3.50 Synamic Me erations ; C	5.00 mory Allo Preproce	Compulsory cation ; Functi essing ; Macro
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Code BM 104 Course Cont Data Types ; ; Function Po Data Structur Course Unit Course Unit Code TM 108 Course Cont Electric Fields	cent Control Flows ; Loops ; Arrays and nters ; Recursive Functions ; Loca es in C ; Linked Lists ; Static and D PHYSICS II	Course Name d Pointers ; Multi-dimensional Arrays ; P l and Global Variables ; Structures ; Bit- Dynamic Libraries Course Name Capacitance and Dielectrics; Current and	Pointer Arrays ; String -wise Operations ; File T 3	1 s;[Op 1	3.50 Dynamic Me erations ; C Credit 3.50	5.00 mory Allo Preproce ECTS 5.00	Compulsory cation ; Functi essing ; Macro Type Compulsory
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Counting • Discrete Random Variables • Probability Mass Functions • Functions of Random Variables • Expectation, Mean, and Variance • Joint PMFs of Multiple Random Variables • Conditioning • Independence • General Random Variables • Continuous Random Variables and PDFs • Cumulative Distribution Functions • Normal Random Variables • Conditioning on an Event • Multiple Continuous Random Variables • Derived Distributions • Further Topics on Random Variables • Transforms • Sums of Independent Random Variables - Convolution • More on Conditional Expectation as a Random

ule content and interval estimation Hypothesis testing einer and their applications in statistic			ECTS	Туре
Course Unit Course Name - Code	τU	Credit	ECTS	Туре
M 201 BASIC ELECTRICAL CIRCUITS AND ELECTRONICS	3 1	3.50	5.00	Compulsory

Definition and modeling of charge, current, power and energy concepts; ideal circuit elements; independent and dependent voltage and current sources; Kirchhoff's voltage and current laws; analysis of resistive circuits; Meshcurrent and node-voltage methods; Thevenin and Norton equivalent circuits; operational amplifier circuits; capacitor and inductor circuit elements; analysis of first order circuits containing capacitor and inductor; sinusoidal steady state analysis; phasors; frequency domain analysis of circuits. Filters, Definition of semiconductor circuit elements, Investigation of direct current and alternating current behavior of diodes and transistors, and some basic circuits related to them.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 203	DATA STRUCTURES	3	1	3.50	6.00	Compulsory
Course Cont	ent					

Classification of data structures, introduction to algorithm and complexity analysis, basic data structures and derivatives such as lists, stacks, queues, trees, graphs and stacks, analysis of important sorting algorithms, emphasis on writing programs using dynamic memory allocation, practical exercises in laboratories and term project.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 205	OBJECT ORIENTED PROGRAMMING	3	1	3.50	5.00	Compulsory
Course Cont	ent					

Object-oriented programming concepts, Objective program design using the Unified Modeling Language (UML), Class design, Applet, Relic (inheritance), Polymorphism, Interface and abstract classes, Design patterns, Framework programs, Application programming interfaces (API).

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 209	OCCUPATIONAL HEALTH AND SAFETY I	2	0	2.00	3.00	Compulsory
Course Cont	ent					
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 211	TECHNICAL ENGLISH	2	0	2.00	2.00	Compulsory

Course Content

Enriching the vocabulary of students in the field of computer engineering, introducing informatics terms and definitions, and facilitating the understanding of technical texts. They see the subjects in the courses they take in English and their command of technical terms is increased.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 202	INTRODUCTION TO ELECTRONICS	3	0	3.00	5.00	Compulsory
Course Cont	ent					

Course Content

Computer System, Coputer Evolution and Performance, Central Processing Unit Design, Cache, Cache Optimization, Virtual Memory, Instruction-Level Parallelism, Pipeline, Data-Level Parallelism, GPU Architectures, Thread-Level Parallelism, Multicore Processors

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 204	LOGIC DESIGN	3	1	3.50	5.00	Compulsory
Course Cont	ent					

Course Content

Number Systems; Boolean Algebra; Basic Digital Gates, Simplification of Logic Functions; Karnaugh Maps; Quine-McClusky Method; Combinational Circuit Analysis; Combinational Circuit Design; Synchronous and Asynchronous Circuits; Sequential Circuit Analysis; Sequential Circuit Design; Registers, Counters, Memory Units.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 206	PROGRAMMING LANGUAGE CONCEPTS	3	1	3.50	6.00	Compulsory
Course Cont	ent					

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 208	FORMAL LANGUAGES AND AUTOMATA THEORY	3	0	3.00	5.00	Compulsory
Courses Cours						

Course Content

Alphabet, Language, Grammar, Grammar Classes, Chomsky Hierarchy, Regular Grammar, Context Free Grammars, CFG and BNF Notation, Parse Tree, Left Recursion and Removal, Pumping Theorem, Decision Problem, Normal Forms, Stacked Automata, Context Dependent Grammars, Linear Dependent Automata, Unconstrained Languages, Turing machine, Curch Turing Hypothesis, Codes, Schutzenberger Criterion, Sardinas Patterson Algorithm, Prefix

Course Unit	d Delay Codes, Optimum Codes and Huffman Algorithm Course Name	Ŧ	R	Credit Credit	EETS	Туре
M 210	OCCUPATIONAL HEALTH AND SAFETY II	2	0	2.00	3.00	Compulsory
Course Cont	tent					
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 212	BUSINESS ENGLISH	2	0	2.00	2.00	Compulsory
Course Cont	tent					
elephoning, i	ed words and patterns in business life, considerations in team work and organizations, cultura interviewing, question-answer floods, recruitment procedures, input on delivering presentation iployer, writing a report and delivering a presentation on the interview.					
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
TM 204	NUMERICAL ANALYSIS	3	0	3.00	4.00	Compulsory
Course Cont	tent					
This lesson c	ontains solution methods of nonlinear equations, methods of numerical integral calculation, etc	c.				
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	Course Name	т	U	Credit	ECTS	Туре
Course Unit Code BM 301 Course Cont Continuous a Systems, Cor	Course Name SIGNALS AND SYSTEMS tent nd Discrete-Time Signals and Their Properties, Continuous and Discrete-Time Systems and Th ivolution, Difference Equations, Fourier Analysis, Fourier Series Expansion, Fourier Transform,	3 heir	0 Prc	3.00 perties, Lir	5.00	Compulsory Time-invarian
Course Unit Code BM 301 Course Cont Continuous au Systems, Cor Transform, D Course Unit	Course Name SIGNALS AND SYSTEMS tent nd Discrete-Time Signals and Their Properties, Continuous and Discrete-Time Systems and The involution, Difference Equations, Fourier Analysis, Fourier Series Expansion, Fourier Transform, FT, FFT, z-Transform, Sampling Theorem.	3 heir	0 Pro aplac	3.00 perties, Lir	5.00	Compulsory Time-invarian ete-Time Four
Course Unit Code BM 301 Course Cont Continuous a Systems, Cor Transform, D Course Unit Code	Course Name SIGNALS AND SYSTEMS tent nd Discrete-Time Signals and Their Properties, Continuous and Discrete-Time Systems and Th volution, Difference Equations, Fourier Analysis, Fourier Series Expansion, Fourier Transform, FT, FFT, z-Transform, Sampling Theorem. Course Name	3 heir , La	0 Pro aplac	3.00 perties, Lin æ Transfor Credit	5.00 mear and rm, Discre ECTS	Compulsory Time-invarian ete-Time Four Type
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Course Unit Code BM 301 Course Cont Continuous an Systems, Cor Transform, D Course Unit Code BM 305 Course Cont Introduction, Course Unit Code BM 307 Course Cont Operating Block Main Memory Course Unit	Course Name SIGNALS AND SYSTEMS tent nd Discrete-Time Signals and Their Properties, Continuous and Discrete-Time Systems and Theorem. FT, FFT, z-Transform, Sampling Theorem. Course Name ALGORITHMS tent algorithm analysis, algorithm design, overview of NP-hard problems Course Name OPERATING SYSTEMS tent stems Concepts, Unix Operating System and Shell programming. Categorization of operating programming. Categorization of operating programming. Virtual Memory Management, Address Translation Methods Modern Virtual Methods Course Name	3 heir , La T 3 T 3 Proj. Proj. Proj.	0 Prccaplace U 0 U 0 mpts coces ory I	3.00 perties, Lin ce Transfor Credit 3.00 Credit 3.00 s. Basic Ha ss Definitio Manageme	5.00 hear and m, Discre ECTS 5.00 ECTS 5.00 rdware U n, Proces nt.	Compulsory Time-invarian ete-Time Four Type Compulsory Type Compulsory nits, Hardward s Scheduling:

Semantic Configuration-Based Queries

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 302		3	0	3.00	6.00	Compulsory
Course Content						

Intro to Embedded systems, Microcontrollers, Embedded C, Real time operating systems and Embedded, Operating system design, Multistate Systems, Interfacing external devices, Serial I/O applications, Advanced Microcontroller Applications

Course Name	ſ	U	Credit	ECTS	Туре		
SIGNALS AND SYSTEMS	3	0	3.00	6.00	Compulsory		
Course Content							
e fundamental software engineering subjects							
Course Name	т	U	Credit	ECTS	Туре		
2	nt fundamental software engineering subjects	fundamental software engineering subjects	fundamental software engineering subjects	nt fundamental software engineering subjects	fundamental software engineering subjects		

BOUNSE Unit DATABASE MANAGEMENT SYSTEMS	Course Name		3.00 Credit	5.00 ECTS	Compulsory Type
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ER/UML Model in Conceptual Design; Relational Model in Logical Design; Relational Algebra; Structured Query Language (SQL); Data Integrity Programming (Checking Functions, Trigger Functions); Database Programming (Stored Procedures, Embedded SQL, JDBC); Semi-structural Data Modeling; XML; XML Programming Languages (XPath, XQuery)

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 308		2	0	2.00	3.00	Compulsory
Course Cont	ent					
Course Unit				- II		_

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
OD 111	ATATURK PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I	2	0	2.00	2.00	Compulsory
Course Cont	ont					

Course Content

Atatürk's Principles and Revolution History-I expresses the historical conditions of Turkish Revolutions and includes purpose and meaning of the revolution.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
OD 112	ATATURK PRINCIPLES AND HISTORY OF TURKISH REVOLUTION II	2	0	2.00	2.00	Compulsory
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Course Content

The course of Atatürk's Principles and History of Turkish Revolution-II includes political, economical, cultural, social developments during the historical process from the foundation of Turkish Republic up to now. It deals with the changes that Turkey has experienced by being predicated on the important turning points of our recent history. The principles of Atatürkist thought and Atatürkism as a modern thought are included to the course content properly according to the aim of the course.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 401	DATA COMMUNICATIONS AND NETWORKING	3	1	3.50	6.00	Compulsory

Course Content

OSI Reference Model; Signaling and Encoding Techniques; Serial and Parallel Transmission; Communication Media Specifications; Error Detection and Correction; Flow Control Techniques; Synchronous and Asynchronous Transmission; Connection Oriented and Connectionless Services and Their Specifications; Switching; Local Area Network Technologies; Wide Area Network Technologies; IP, TCP and UDP;

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 403	INTRODUCTION TO COMPUTER GRAPHICS	2	1	2.50	5.00	Compulsory

Course Content

System Programming Concepts; 2-Tier, 3-Tier and N-Tier Application Development Models; Client/Server Architectural Model; HTML; CSS; Scripting; XML; XSLT; DTD; W3C-Schema; DOM; SAX; General Structure of RPC-based Applications; General Structure of RMI-based Applications; Web based Application Development Tools, System Security;

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 405	COMPUTER ENGINEERING DESIGN	2	4	4.00	9.00	Compulsory

Course Content

To be able to produce solutions to social and global problems with the subjects studied by the student in hardware and software.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре	
BM 402	INTRODUCTION TO EMBEDDED SYSTEMS	3	1	3.50	6.00	Compulsory	
Course Content							
Introducing the fundamental software engineering subjects							
Course Unit	Course Name	т	U	Credit	ECTS	Туре	
Code	Course value		U	cicuit	LCIS	Type	
Code BM 406	GRADUATION PROJECT	1		4.00	10.00	Compulsory	
	GRADUATION PROJECT						
BM 406 Course Cont	GRADUATION PROJECT	1	6	4.00	10.00		

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 404	INTERNET PROGRAMMING	3	0	3.00	4.00	Compulsory
Course Cont	ent					

Course Content

Recognition of necessary software for web-based programming. Preparing a web page with the basic commands of the web programming language.

programming	language. Course Name	Τ	U	Credit	ECTS	Туре
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM GS I	GENEL SEÇMELİ I	2	0	2.00	3.00	
Course Unit						
Code	Course Name	Т	U	Credit	ECTS	Туре
	Course Name RESEARCH METHODS	T 2	U 0	Credit 2.00	ECTS 3.00	Type Seçmeli
Code	RESEARCH METHODS					

of necessary software for onen source code-based programming. To prenare a WEB page with the basic commands of the open source

This course includes information about scientific research, research process, identification of research problem, literature review, data collection methods, creating hypothesis, universe, sample, analysis methods and research report.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 003	TECHNICAL COMMUNICATION	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

anitior

The content of this course; definition of communication concept, communication types and classification, functions of communication, and effective communication ways.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 005	STRESS AND TIME MANAGEMENT	2	0	2.00	3.00	Seçmeli
Courses Cont	aut					

Course Content

This lesson; historical development of occupational health and safety, occupational accident and occupational diseases and costs, the concept of occupational safety, the importance of occupational safety studies in terms of workforce efficiency, basic factors in occupational safety, sources of hazards, the concept of occupational health, psychosocial risk factors, ILO conventions, events that disrupt security Includes fire, earthquake and flood issues.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 009	PUBLIC ADMINISTRATION	2	0	2.00	3.00	Seçmeli

Course Content

The nature of public administration, Central government organizations, Local administrations; Subjects such as special provincial administration and the concept of bureaucracy constitute the content of this course.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 011	VOLUNTEERING STUDIES	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

The content of the course; corporate social responsibility concept and development, social responsibility areas, social responsibility plan, business ethics and social responsibility relationship, the impact of social responsibility practices on corporate success.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 013	ACADEMIC TURKISH	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

Definition of language, its characteristics, relations between language-nation / language-thought and language-culture. Language in the world; the place and importance of Turkish among them and its historical development. Ataturk's language revolution, concept and works. Sounds in Turkish. Phonology of Turkish. Spelling rules and application. Punctuation rules and application. Vocabulary. Productiveness of Turkish.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 015	CREATIVE DRAMA AND IMPROVISION	2	0	2.00	3.00	Seçmeli
Course Cont	ont					

This course includes the sociological and psychological dimensions of drama, history of drama and its applications in education, drama in education, role play and improvisation, and the relationship of drama with creativity and communication concepts, drama practices and how to use drama activities in teaching different courses.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 017	HUMAN RESOURCES MANAGEMENT	2	0	2.00	3.00	Seçmeli
Course Cont	ent					
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре

ESUPE Unit BUSINESS LAW	Course Name		2.00 Credit	3.00 ECTS	Seçmeli Type
Code					

This lesson; the emergence of labor law, sources of labor law, types of employment contract, termination of employment contract, working hours, Permissions and wages, etc. covers topics.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 023	ENTERPRISE RESOURCE PLANNING	2	0	2.00	3.00	Seçmeli

Course Content

The content of this course is the development of Enterprise Resource Planning (ERP), basic concepts about ERP; The importance of ERP for businesses; Basic modules of ERP systems, management of ERP projects, challenges and critical success factors in ERP projects, future of ERP systems.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 025	HUMAN RIGHTS	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

Historical Development of Human Rights, European Convention on Human Rights and International Fundamental Documents on the Protection of Human Rights, European Court of Human Rights and its Case Laws, Fundamental Rights and Freedoms, Generational Rights.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 027	ENTREPRENEURSHIP	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

Basic terms in entrepreneurship; Preparing a business plan; Basics of marketing research; Preparing a marketing plan; Production plan; Organization plan; Financial plans; Financial statement

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 031	HISTORY OF SCIENCE	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

Science. Science from the perspective of civilizations: Nile and Anatolian civilizations; Asian, Chinese, Indian, Roman, Greek and Islamic civilizations. European, American, Asian, Far East, Middle-Eastern civilizations. Turkish World History of Science and Technology; History of glass, textile and ceramic technology; history of iron-copper and casting technology.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 033	SOCIAL PSYCHOLOGY	2	0	2.00	3.00	Seçmeli
Course Court						

Course Content

Psychology science, fields of psychology, the place of social psychology in psychology, social psychology field and methods, human nature, socialization, social perception, attitudes and change, social impact, individual behavior in the group, interpersonal attraction and love.

	Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 035 COMMUNICATION 2 0 2.00 3.00 Segmeli	GS 035	COMMUNICATION		0	2.00	3.00	Seçmeli

Course Content

Introduction to Communication; Language, Culture and Communication; Types of Communication (Written, Verbal, Nonverbal); Communication Models; Mass Media (Television, Radio, Press, Social Media); Communication and Public Relations; Political Communication; Media Literacy; You Have The Word; Communication and Ethics.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 037	FINANCIAL LITERACY	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 039	SIGN LANGUAGE	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 041	DISASTER AND CRISIS MANAGEMENT	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

The principles of disaster and crisis management, concepts, definitions and standards, elements of the emergency plans and emergency management, emergency situations, the communication, the importance of evacuation, examination of mitigation-preparation-intervention improvement phase, the next desk applications; The objective of crisis management, identification of the crisis, characteristics, stages, aspects of crisis management, history

Cou f9e Unit Cou f9e Unit Code	ister management and crisis management as well as providing information on legislative issu Course Name Course Name	es T T	U U	Credit Credit	ECTS ECTS	Туре Туре
S 043	CITY AND SOCIETY	2	0	2.00	3.00	Seçmeli
Course Cont	ent					
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 045	ENVIRONMENTAL PROTECTION	2	0	2.00	3.00	Seçmeli
Course Cont	ent					
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
S 047	BEHAVIORAL SCIENCES	2	0	2.00	3.00	Seçmeli
ource Cont	and the second					

Behavior, Behavioral Sciences, Development of Behavioral Sciences and Their Relationship with Other Social Sciences, Behavioral Plane and Social Institutions, Needs and Related Theories as the Main Source of Behaviors, Personality and Personality Traits, The Concept of Learning, Perception and Perception, Social Impact and Adaptation, Attitude Concept and Attitudes, Communication and Impressive Communication, Group Structure and Dynamics, Teaming, Group Team Decomposition, Effect of Culture and Behavior.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
GS 049	HISTORY OF CLOTHING	2	0	2.00	3.00	Seçmeli				
Course Cont	Course Content									

Clothing in Prehistoric Societies; A.D. Clothing Culture in Various Regions of the World (Anatolia, Asia, Europe, Australia, Africa, America...) from the 5th Century to the 20th Century; the Latest Situation of Clothing Culture in the 21st Century.

Course Unit Code		Course Name	т	U	Credit	ECTS	Туре
GS 051	FINANCIAL INVESTMENT ANALYSIS		2	0	2.00	3.00	Seçmeli
Course Cont	ent						
Course Unit Code		Course Name	т	U	Credit	ECTS	Туре
GS 053	SPECIAL EDUCATION		2	0	2.00	3.00	Seçmeli
Course Cont	ent						
Course Unit Code		Course Name	т	U	Credit	ECTS	Туре
GS 055	INTERNATIONAL POLITICS		2	0	2.00	3.00	Seçmeli
Course Cont	ent						
Course Unit		Course Name	-		Credit	ECTS	Type
Code				U	Credit	EUIS	Туре

Code	Course Name	ľ	U	Credit	ECIS	туре			
GS 057	HISTORY OF TURKISH DEMOCRACY	2	0	2.00	3.00	Seçmeli			
Course Contant									

Democracy, Political Party and Parliament; Parliamentary System, Presidential System, Parliamentary Government System; Emergence of Parliament: England; Emergence of Parliament: France; Turkish Modernization and Democratization: From Nizam-I Cedid to the First Constitutional Monarchy; I. Constitutional Monarchy and II. Abdulhamid Eras; II. Constitutional Era; War of Independence and Parliamentary Government System; Early Republican Era; From Transition to Multi-Party Life to the Constitution of 61; Political Developments from the Adoption of the Constitution of 61 to the 12 March Regime; Political Developments from 1971 to the 12 September Regime; Political Developments from 12 September Regime to the 28 February; Political Developments Since the 28 February.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
GS 059	CREATIVITY MANAGEMENT AT THE WORKPLACE	2	0	2.00	3.00	Seçmeli				
Course Content										
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
		-								
GS 061	HISTORY OF MATHEMATICS	2	0	2.00	3.00	Seçmeli				
GS 061 Course Cont		2	0	2.00	3.00	Seçmeli				

Course Unit	ANALYZING THE ECONOMICAL INDICATORESE Name	T	N	Czedit	BCTS	Seçm điý pe				
Course Cont	Course Content									
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
GS 065	ENGLISH-TURKISH TRANSLATION	2	0	2.00	3.00	Secmeli				

This course follows a process consisting of material sharing that facilitates students' basic vocabulary knowledge and foreign language reading and writing skills, as well as provides guidance for translating the target language to the native language. It also includes regular assignments to practice and apply what they have learned.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 067	NEUROMARKETING	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

The basic topics in this course are; determining the methods of neuroscience methods on marketing strategies, using neuroscience data in the process of consumer protection, neuromarketing strategies and ethical side of neuromarketing.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре					
GS 069	COMMUNICATION WITH DISABLED INDIVIDUALS	2	0	2.00	3.00 Seçmeli						
Course Cont	Course Content										
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре					
GS 071	ADDICTION AND FIGHT AGAINST ADDICTION	2	0	2.00	3.00	Seçmeli					
Course Cont	ent										
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре					
GS 073	INFORMATION LITERACY	2	0	2.00	3.00	Seçmeli					

Course Content

The importance of information literacy Information literacy: Concepts, definitions Legal and ethical issues in the scientific research process The scientific research process (wonder, research, select, binding, transfer and evaluation) Information access tools (library catalogs, databases, search engines) Information Search Strategies Principles of quotation, footnote and bibliography

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM TS I	TEKNİK SEÇMELİ I	3	0	3.00	5.00	
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 321		3	0	3.00	5.00	Seçmeli

Course Content

Fuzzy Sets; Fuzzy Set Operations; Fuzzy Relations and Calculations; Fuzzy Graphs and Relationships; Fuzzy Numbers; Fuzzy Functions; Probability and Uncertainty; Fuzzy Logic; Fuzzy Inference; Fuzzy Control; Fuzzy Expert Systems; Combination of Fuzzy Systems and Artificial Neural Networks; Combination of Fuzzy System and Genetic Algorithm

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре					
BM 323	DIGITAL SIGNAL PROCESSING	3	0	3.00	5.00	Seçmeli					
Course Cont	Course Content										

Discrete-Time Signals and Systems; Discrete-Time Fourier Transform (DTFT); Discrete Fourier Transform (DFT); Discrete-Time Processing of Continuous-Time Signals; z-Transform; Frequency-Domain Analysis of Linear and Time-Invariant Systems; Digital Filter Design Techniques.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 325		3	0	3.00	5.00	Seçmeli
Course Content						

Basic Concepts in Computer Programming and Python Programming Language. Problem Formatting and Algorithm Development: Data Types and Variable Definitions. Basic Command Structures. Condition and Loop Commands. Functions. Classes and Objects. Files and Directories. Module creation. Apps

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 327	MATHEMATICAL PROGRAMMING	3	0	3.00	5.00	Seçmeli

Course Name	т	U	Credit	ECTS	Туре
General introduction to computer algebra packet such as Mathematica, Maple, Matlab, MathcadGramma	ır a	nd s	yntax in Ma	thematica	. Assigning value
to symbols. Lists. Defining functions. Plotting functions, Symbolic calculations, Loops and conditional statem	ent	s. Tl	he use of s	pecial func	tions. Findina

root by using symbolic calculation. The solution of system of linear equations. Calculation of Taylor's series. Least square method. Symbolic and numerical derivative and integration calculus by using computer algebra such as Mathematica. To find the solution of ordinary differential equations by using symbolic calculus. Solution of the system of differential equations by using packet programmes.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 329	INTRODUCTION TO DATA SCIENCE	3	0	3.00	5.00	Seçmeli

Course Content

Role of data scientist, business analyst, vertical use cases of data science and business applications. Where and how to obtain data, data sources and evaluation methods, data transformation and preparation. Statistical models and methods: prediction-definition, exploratory data analysis, communication, visualization, data preparation, data engineering; big data, coding, ethical values, asking the right question.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM GS II	GENEL SEÇMELİ II	2	0	2.00	3.00	
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 002	MEDIA AND COMMUNICATION	2	0	2.00	3.00	Seçmeli
Course Cont	aut					

Course Content

Communication concept, process and features; basic elements of the communication process; communication skills; types of communication; forms of communication; model concept; basic communication models; models used in the communication process; communication theories; the adventure of communication studies; critical media studies; feminist media studies; media and public opinion; the concept of democracy; opinion polls; media, politics and propaganda; digital media.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 004	DICTION AND EFFECTIVE SPEAKING	2	0	2.00	3.00	Seçmeli

Course Content

The content of the course includes communication, communication techniques, language usage, body language, word selection, sentence structure, improving rhythm, emphasis, tone of voice, speech tempo, stage usage, and etiquette rules.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 006	BUSINESS ETHICS	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

Course Content

The lesson contains these topics: Ethical and moral concepts - Ethical systems - Professional Concept and Professional Ethics - Ethical and Unethical Behaviors in Business Life - Professional Corruption and Ethics - Social Responsibilities of Business and Ethics etc.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре		
GS 008	PROTOCOL AND SOCIAL BEHAVIOR RULES	2	0	2.00	3.00	Seçmeli		
Course Content								
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре		
GS 010	PRODUCTION MANAGEMENT	2	0	2.00	3.00	Seçmeli		

Course Content

Basic Economic Concepts, National Income, Inflation, Unemployment, Interest Rate, Exchange Rate and Balance of Payments, Money-Making and Non-Money-Creating Financial Institutions.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 012	VOLUNTEERING STUDIES	2	0	2.00	3.00	Seçmeli
0						

Course Content

The content of the course; corporate social responsibility concept and development, social responsibility areas, social responsibility plan, business ethics and social responsibility relationship, the impact of social responsibility practices on corporate success.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 014	ACADEMIC TURKISH II	2	0	2.00	3.00	Seçmeli
Courses Court						

Course Content

Definition of language, its characteristics, relations between language-nation / language-thought and language-culture. Language in the world; the place and importance of Turkish among them and its historical development. Ataturk's language revolution, concept and works. Sounds in Turkish.

Cou tse Cou tse Code	Turkish. Spelling rules and application. Punctuation rules and application. Vocabulary. Produc Course Name Course Name	1	U U U	s of Turkish Credit Credit	ECTS ECTS	Туре Туре
GS 016	CREATIVE DRAMA AND IMPROVISATION	2	0	2.00	3.00	Seçmeli
Course Cours						

This course includes the sociological and psychological dimensions of drama, history of drama and its applications in education, drama in education, role play and improvisation, and the relationship of drama with creativity and communication concepts, drama practices and how to use drama activities in teaching different courses.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре	
GS 018	HUMAN RESOURCE MANAGEMENT	2	0	2.00	3.00	Seçmeli	
Course Content							
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре	
GS 020	FIRST AID	2	0	2.00	3.00	Seçmeli	
Course Cont	ent						
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре	
GS 022	BUSINESS LAW	2	0	2.00	3.00	Seçmeli	
Course Cont							

Course Content

This lesson; the emergence of labor law, sources of labor law, types of employment contract, termination of employment contract, working hours, Permissions and wages, etc. covers topics.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 024	POLITICAL MANAGEMENT	2	0	2.00	3.00	Seçmeli
Courses Cont						

Course Content

Definition of Political Science; Power; Legitimacy; Sovereignty; State; Democracy; Political Participation; Forms of Participation and Political Behavior; Political Parties; Bureaucracy; Pressure Groups-Public Opinion; Concept of Election.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
GS 026	SUSTAINABILITY	2	0	2.00	3.00	Seçmeli				
Course Content										
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
GS 028	PROBLEM SOLVING AND DECISION MAKING	2	0	2.00	3.00	Seçmeli				
Course Content										
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
GS 030	TECHNOLOGY ADDICTION	2	0	2.00	3.00	Seçmeli				
Course Content										
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
GS 032	BUSINESS ADMINISTRATION	2	0	2.00	3.00	Seçmeli				
Course Cont	ent									
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре				
GS 034	FACTORY ORGANIZATION	2	0	2.00	3.00	Seçmeli				
Course Cont	ent									
Production, Production Planning, Quality Control, Procurement, R&D, Marketing, Sales, Maintenance, Finance, Accounting, Human Resources, and Personnel departments' responsibilities, interrelationships, performance metrics, required competencies for staff, stress management, conflict management, motivation management, and strategic planning.										
Course Unit	Course Name	т	u	Credit	FCTS	Type				

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре

		2	0	2.00	3.00	Secmeli
Course Unit. QUALITY MANAGEMENT SYSTEMS	Course Name			Credit	ECTS	Туре
Coue						

The content of this course consists of the concept and meaning of quality, history and principles of quality management, the concept of total quality management, measurement and evaluation methods used in quality management, quality certification.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре			
GS 038	TECHNOLOGY MANAGEMENT AND R&D	2	0	2.00	3.00	Seçmeli			
Course Cont	Course Content								
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре			
GS 040	MARKETING	2	0	2.00	3.00	Seçmeli			
Course Cont	ent								
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре			
GS 042	SERVICE MARKETING	2	0	2.00	3.00	Seçmeli			
Course Cont	ent								

Content of the Service Marketing course; The concept of service and amenities, the importance of the service sector, the reasons for the growth of the service sector, the service sector in Turkey. Classification of services, Product, Service as a product, Product mixed strategies in services, Distribution, Distribution channel options for service businesses, Pricing, Pricing approaches for services, Promotion, advertising, sales promotion, Public relations, Personal sales, Direct marketing, Service marketing and Human resources, Service and customer, Service marketing and physical evidence, Capacity and demand management strategies for services, Capacity management, Revenue management, Transactional marketing, Relational marketing.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 044	E-COMMERCE	2	0	2.00	3.00	Seçmeli
Course Cont	ant					

Course Content

Historical Development Process of Electronic Commerce, Basic Concepts of Internet and Electronic Commerce, Management of Marketing over the Internet, Electronic Logistics; Electronic Commerce Applications

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 046	CURRENT ECONOMIC ISSUES	2	0	2.00	3.00	Seçmeli

Course Content

Basic Economic Concepts, National Income, Income Distribution and Poverty, Factors of Production, Inflation, Unemployment, Interest Rate, Middle Income Trap, Cryptocurrency, Structural Reforms, Sustainable Development.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 048	PUBLIC RELATIONS	2	0	2.00	3.00	Seçmeli
Courses Cont	aut					

Course Content

Concept of Public Relations; Historical Development; Methods and Techniques Used; Principles and Organization; Strategic Management in Public Relations; Public Relations in the Information Society

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 050	SOCIOLOGY	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

Course Content

Within the scope of the course, the definition of sociology, its basic concepts, its emergence as a science will be emphasized. Afterwards, some topics of sociological interest (such as modernization, globalization, social stratification, class, gender) will be discussed.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 052	GLOBALIZATION READINGS	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

The course covers the modern and its conceptual concepts, the general outlines of the modernization process and evolution from the past to the present, 20th-century modernization theories and their criticism, the post-modern period, the emergence conditions and historicity of globalization, the large-scale changes that occurred in the post-globalization period and their economic, political discusses and discusses the topics that will reveal the social and cultural consequences of these developments, and finally question the effects, results, and meanings of these developments in Turkey.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
GS 054	PHOTOGRAPHY	2	0	2.00	3.00	Seçmeli
Course Cont	ent					

CodeCourse NameCourse NameTUCreditRCTSTypeS0 66PROJECT MANAGEMENT202.003.00SegmellS0 668INTRADUCTION TO BUSINESS SCIENCE00 <td< th=""><th>Course Unite Interpretation</th><th>non of photograph, Concept of Photography, Historical Development of Photography, Types o of Photography, Golden Ratio, Exposur Courting Name Discussion Examples.</th><th>f C T</th><th>ame U</th><th>ras, Workin Credit</th><th>ng Princip ECTS</th><th>les of Camera, Type</th></td<>	Course Unite Interpretation	non of photograph, Concept of Photography, Historical Development of Photography, Types o of Photography, Golden Ratio, Exposur Courting Name Discussion Examples.	f C T	ame U	ras, Workin Credit	ng Princip ECTS	les of Camera, Type						
Same Content Course Name I U U Cerealt ECR Nyme Solids INTRODUCTION TO BUSINESS SCIENCE 2 0 2 0 2 0 2 0 2 0 2 0 3.00 Segmell Durse Concept of International basiness and business functions. 0 0 0 0 0 0 3.00 Segmell Source Code Course Name T U Q Cerealt RTS Nyme Source Code Course Name T U Q Cerealt RTS Nyme Source Code Course Name T U Q Cerealt RTS Nyme Source Code Course Name T U Q Cerealt RTS Nyme Source Code Course Name T U Q Cerealt State	Course Unit Code	Course Name	т	U	Credit	ECTS	Туре						
Course Name T U Course Name T U Course Name Course Name Course Name Course Name Nam Name Nam <td>GS 056</td> <td>PROJECT MANAGEMENT</td> <td>2</td> <td>0</td> <td>2.00</td> <td>3.00</td> <td>Seçmeli</td>	GS 056	PROJECT MANAGEMENT	2	0	2.00	3.00	Seçmeli						
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rganizations, the concept of International business and business functions. Source Unit Code Code Code Code Code Code Code Code	Course Cont	ent											
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Course Content Vision Vision <th< td=""><td>Course Unit Code</td><td>Course Name</td><td>т</td><td>U</td><td>Credit</td><td>ECTS</td><td>Туре</td></th<>	Course Unit Code	Course Name	т	U	Credit	ECTS	Туре						
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iging practices. Course Name T U Credit ECTS Type S0 052 SALES TECHNIQUES 2 0 2.00 3.00 Segmeli S0 052 SALES TECHNIQUES 2 0 2.00 3.00 Segmeli S0 052 SALES TECHNIQUES Course Name T U Q Credit RCTS Type addition to the theoretical information given in the preparation of pre-sales, performing the sales processer Following the sales services, the tuber sales through a field study. Sole Q	Course Cont	ent											
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an addition to the theoretical information given in the preparation of pre-sales, performing the sales process universe versions with the class through a field study. Tourse the knowledge with the class through a fiel	GS 062	SALES TECHNIQUES	2	0	2.00	3.00	Seçmeli						
t <table-cell>tudent shares his / her knowledge with the class through a field study.TUColines UnitCOLINE WITH COLINE NAMETUCeditECTSTypeCourse UnitDEGITAL TRANSFORMATION AND INDUSTRY 4.02000.00SegmellCourse UnitCourse NameTU0CeditECTSTypeSo 66HISTORY OF CLOTHINGCourse NameTU0CeditECTSTypeSo 66HISTORY OF CLOTHINGCourse Name2000.00SegmellCourse OntFebruary (the Cataly the Latest Situation of Clothing Culture in the 21st Century.VUCeditECTSTypeSo 66ADDICTION AND FIGHT AGAINST ADDICTIONTUVCeditECTSTypeSo 66ADDICTION AND FIGHT AGAINST ADDICTIONZV2.003.00SegmellCourse UnitCourse NameTUVCeditECTSTypeSo 67CHILD RIGHTS AND FAMILY EDUCATIONZV2.003.00SegmellCourse UnitCourse NameTUVCeditECTSTypeSo 72CHILD RIGHTS AND FAMILY EDUCATIONZVVCeditECTSTypeSo 72Child RGHTS AND FAMILY EDUCATIONZVVVCeditECTSTypeSo 72Course UnitCourse NameTVVVCeditECTSTypeSo 72Course UnitCourse Nam</table-cell>	Course Cont	ent											
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Code Course Name T U Credit ECTS Type	BM TS II	TEKNİK SEÇMELİ II	3	0	3.00	5.00							
IM 336 OPTIMIZATION TECHNIQUES 3 0 3.00 5.00 Seçmeli	Course Unit Code	Course Name	т	U	Credit	ECTS	Туре						
	BM 336	OPTIMIZATION TECHNIQUES	3	0	3.00	5.00	Seçmeli						

Static and Dynamic Optimization, Calculus of Variations, Optimal Control of Discrete-Time Systems, Optimal Control of Continuous-Time Systems,

Edursierumf Course Unit Code	LQR, Final- Time-Free and Constrained Input Control, Dynamic Programming,. Course Name Course Name		U U	Credit Credit	ECTS ECTS	Туре Туре
BM 338		3	0	3.00	5.00	Seçmeli
Course Cont	ent					

GPU for graphics, shaders and shading language, animation of objects, 3D affine transformations, koordinate transformations, perspective and orthogonal projections, texture mapping.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 340		3	0	3.00	5.00	Seçmeli
Course Conte	ant					

Course Content

İletişim güvenliği, ağ güvenliği, güvenlik yönetimi, yasal konular, siyasi konular ve teknik konular dahil olmak üzere siber güvenliğin tüm yönlerine temel bir giriş.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 342	INTERNET OF THINGS	3	0	3.00	5.00	Seçmeli
Course Cont	ant					

Course Content

Basic concepts, basic hardware, sensors, signal-image processing, data processing and compression, network and protocols, practical ready platforms, programming fundamentals, programming for data storage and communication, IoT and big data, IoT security.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 344	INTRODUCTION TO MOBILE PROGRAMMING	3	0	3.00	5.00	Seçmeli

Course Content

An Overview of Mobile Technologies ; Mobile Devices ; Mobile OS ; Introduction to Mobile Application Development ; Mobile App Components ; Application Lifecycle ; User Interface Design (Menus, Dialog boxes, etc.) ; ListView ; ViewPager ; ArrayAdapters; Databases on Smartphones and Data Management ; Sensors on Smartphones and Sensor Data Collection ; Broadcast Receivers ; Notifications, User Rights and Permissions ; Location-based Services ; Background Tasks.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM TS III	TEKNİK SEÇMELİ III	3	0	3.00	5.00	
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 421	COMPILER DESIGN	3	0	3.00	5.00	Seçmeli

Course Content

Compiler stages, lexical analysis, syntax analysis, semantic analysis, transform, code optimization, code generation

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 423	SCIENTIFIC COMPUTING	3	0	3.00	5.00	Seçmeli

Course Content

Introduction to Windows Programming; Microsoft Foundations Classes; Working with Documents and Views; Designing the Visual Interface; Concurrency and Synchronization.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 425	WIRELESS AND MOBILE NETWORKS	3	0	3.00	5.00	Seçmeli
Course Cont	ont					

Course Content

Introduction to wireless and mobile networks and network architectures, Cellular networks. Mobility and handoff management, Centralized wireless LANs and Mobile IP, Mobile transport protocols, Ad hoc wireless networks, Sensor networks, Satellite networks.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 427	CLOUD COMPUTING	3	0	3.00	5.00	Seçmeli
0						

Course Content

The objective of the course is to provide the introduction to the current practices of cloud computing. Mainly focusing on cloud computing models, techniques, and architecture, this course will provide students with the knowledge and handson experience in designing and implementing cloudbased software systems. The students will be provided information on concepts such as Software as a Service (SaaS), Platform as a Service (PaaS), Infrastructure as a Service (IaaS), Identity as a Service (IdaaS) and major providers of those in the market today.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 429	DIGITAL IMAGE PROCESING	3	0	3.00	5.00	Seçmeli

Course Unitent Code	Course Name	т	U	Credit	ECTS	Туре	
Eundomontole of digital image	the nivel ended image enhancement frequency demain image enhance	omont	im	a charpa	ing color	imago	
Fundamentals of ulgital image	e, the pixel space, image enhancement, frequency domain image enhance	ement,	IIIIc	age snarper	1000	inage	

processing, multi-resolution processing, image compression.

ourse Unit Code	Course Name	т	U	Credit	ECTS	Туре
M TS IV	TEKNİK SEÇMELİ IV	3	0	3.00	5.00	
ourse Unit Code	Course Name	т	U	Credit	ECTS	Туре
M 435		3	0	3.00	5.00	Seçmeli

Course Content

This course introduces students to human computer interaction by describing the main pillars of this interdisciplinary field – human and computer. Accordingly, this course introduces; introduction to interactive systems, interaction design basics, design rules, HCI in the software process, HCI evaluation techniques.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 437		3	0	3.00	5.00	Seçmeli
Course Cont	ont					

Distributed System definitions. Resource sharing and Network. Features that Distributed Systems are intended to provide. Distributed System Types. Layered Structure. middleware. Threads and Tasks. Clients. servers. Inter-task communication. Calling the Remote Procedure. Naming and network services. Events and process states. File system architecture.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 439		3	0	3.00	5.00	Seçmeli
Course Cont	ent					

Software and hardware of computer systems, parallel software design methodologies, parallel programming models, parallel algorithms, performance issues, practical experience with modern software/hardware systems.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 441		3	0	3.00	5.00	Seçmeli
Course Cont	ent					

TTL and CMOS Gate Characteristics, Synthesis of Boolean Functions with SSI Gate Elements, MSI Decoders and Multiplexers, Combinatorial Circuit Synthesis with SSI and MSI Elements, Synchronous Sequence Analysis, Sequence Detector, Synchronous Sequence Circuit Synthesis, Asynchronous and Synchronous Printer Counters, Design of Addition and Subtraction Circuits with SSI and MSI Elements.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 443		3	0	3.00	5.00	Seçmeli
Course Court						

Course Content

Security concepts vulnerabilities, attacks and defenses in computer systems and networks.

Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM TS V	TEKNİK SEÇMELİ V	3	0	3.00	5.00	
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 422	INTRDUCTION TO COMPUTER VISION	3	0	3.00	5.00	Seçmeli
Course Content						

Course Content

Introduction to Computer Vision, image modalities, Image representation and introduction to Matlab/Octave, Binary Images and connected component labelling algorithms, morphological operations, Region properties, gray-scale, color images, Geometric and intensity transformations. Histogram and histogram equalization, Spatial filtering: linear and non-linear filters, Edge detection, Line detection, Hough transform, Image projections, template matching, similarity, normalized cross correlation, Fourier basis, transform, and frequency domain filtering, Image pyramids, local interest points, features and matching, Visual recognition, object detection, Pattern recognition/classification

Course Unit Code	Course Name	т	r l	J	Credit	ECTS	Туре
BM 426	INTRODUCTION TO DATA MINING	3	0		3.00	5.00	Seçmeli
Course Cont	ent						
Data mining c	pronts Data proparation techniques. Statistical learnin	a theory Naive Bayes classification and	l do	cic	ion throos	Cluctorin	a mothoda

Data mining concepts, Data preparation techniques, Statistical learning theory, Naive Bayes classification and decision threes, Clustering methods, Associaition rules.

Course Unit	Course Name	т п	Credit	БСТБ	Turne
Code	Course name	1 0	Credit	ECIS	Туре

Code Course Cont	INTRODUCTION TO NATURAL LANGUAGE PROCESSING Course Name sent	3 T	0 U	3.00 Credit	5.00 ECTS	Seçmeli Type
	l Analysis; Syntax Analysis; Grammer and Languages; Regular Language; Word Processing A Information Extraction; Information Retrieval; Question Answering Systems; Collacation	lgo	rithn	ns; Machin	e Learnin	g; Text
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 428	INTRDUCTION TO GAME DESIGN	3	0	3.00	5.00	Seçmeli
Course Cont	ent					
Game design,	game testing, search trees, path finding.					
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 430	INTRODUCTION TO ROBOTICS	3	0	3.00	5.00	Seçmeli
Course Cont	ent					
	o industrial robots, rigid motions and homogeneous transformations, forward and inverse kind, , robot dynamics, feedback control and computed torque control.	em	atics	, velocity k	inematics	and Jacobian
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM TS VI	TEKNİK SEÇMELİ VI	3	0	3.00	5.00	
Course Unit Code	Course Name	т	U	Credit	ECTS	Туре
BM 434		3	0	3.00	5.00	Seçmeli
Course Cont	ent					
Introduction t Applications.	o Machine Learning, Supervised Learning and Applications, Unsupervised Learning and Applic	atio	ons,	Reinforcen	nent Lear	ning and
Course Unit	Course Name	т	U	Credit	ECTS	Туре
Code						1700
	INTRODUCTION TO BIG DATA ANALYTICS	3	0	3.00	5.00	Seçmeli
BM 436		3	0	3.00	5.00	
BM 436 Course Cont		3	0	3.00	5.00	
BM 436 Course Cont Big data algor	ent		0 U	3.00 Credit	5.00 ECTS	
BM 436 Course Cont Big data algor Course Unit	ent rithms, big data programming paradigms and platforms, big data analysis tools.	т				Seçmeli
BM 436 Course Cont Big data algor Course Unit Code	rithms, big data programming paradigms and platforms, big data analysis tools. Course Name	т	U	Credit	ECTS	Seçmeli Type
BM 436 Course Cont Big data algor Course Unit Code BM 438 Course Cont Foundations of	rithms, big data programming paradigms and platforms, big data analysis tools. Course Name ent of modern crytography, History of Cryptosystems, Basic Cryptographic Algotihms, Symmetric H hemes, Open Key Cryptosystems, Digital Signatures, Key Distributions Systems, Key Agreeme	T 3 ≪ey	U 0 Cry	Credit 3.00	ECTS 5.00	Seçmeli Type Seçmeli gorithms,
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BM 436 Course Cont Big data algor Course Unit Code BM 438 Course Cont Foundations of Encryption Sc Cryptography Course Unit Code	rithms, big data programming paradigms and platforms, big data analysis tools. Course Name rent of modern crytography, History of Cryptosystems, Basic Cryptographic Algotihms, Symmetric H hemes, Open Key Cryptosystems, Digital Signatures, Key Distributions Systems, Key Agreeme .	T 3 Key ent	U 0 Crypand	Credit 3.00 otosystems Secret Sha	ECTS 5.00 , Hash Al rring, Qua	Seçmeli Type Seçmeli gorithms, antum
BM 436 Course Cont Big data algor Course Unit Code BM 438 Course Cont Foundations of Encryption Sco Cryptography Course Unit	sent rithms, big data programming paradigms and platforms, big data analysis tools. Course Name cent of modern crytography, History of Cryptosystems, Basic Cryptographic Algotihms, Symmetric H hemes, Open Key Cryptosystems, Digital Signatures, Key Distributions Systems, Key Agreeme Course Name DATABASE DESIGN AND APPLICATIONS	T 3 Key ent	U 0 Cryp and	Credit 3.00 Dtosystems Secret Sha Credit	ECTS 5.00 ;, Hash Al rring, Qua	Seçmeli Type Seçmeli gorithms, antum
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