

I.SEMESTER

(T U K) (ECTS)

EGT01 To education Introduction

(2 0 2) (3)

Basic concepts related to education and teaching; the purposes and functions of education; the relationship of education with other fields and sciences; legal, social, cultural, historical, political, economic, philosophical and psychological foundations of education; method in educational sciences; school and classroom as an educational and learning environment; the teaching profession and current developments in teacher training; trends in education in the twenty-first century.

EGT03 Education Sociology

(2 0 2) (3)

Fundamentals of sociology concepts: Society, social structure, social phenomenon, social Olay et al.; pioneers of sociology (Ibn Haldun, A. Comte, K. Marx, E. Durkheim, M. Weber et al.) and views on education; education in terms of basic sociological theories (functionalism, structuralism, symbolic interactionism, conflict theory, critical theory, phenomenology and ethnomethodology); social processes (socialization, social stratification, social mobility, social change etc.) and education; social institutions (family, religion, economy, politics) and education; development of sociology and sociology of education in Turkey (Ziya Gökalp, İsmail Hakkı Baltacıoğlu, Nurettin Topçu, Mümtaz Turhan et al.); culture and education; social, cultural, moral the school as a system and a community.

AIT109 Atatürk's Principles and Revolution History 1

(2 0 2) (3)

Internal and external reasons that prepared the ground for the collapse of the Ottoman Empire; innovation movements in the Ottoman Empire in the 19th century; intellectual movements in the last period of the Ottoman Empire; the political and military situation of the Ottoman Empire at the beginning of the 20th century; World War I and the Armenian issue; the occupation of Anatolia and reactions; Mustafa Kemal Pasha's arrival in Samsun and his activities; the congress period and organization; the opening of the last Ottoman Chamber of Deputies and the acceptance of the National Pact; preparations for the National Struggle and the material and spiritual foundations of this preparation; the opening and activities of the Turkish Grand National Assembly; the Treaty of Sevres; struggles on the southern and eastern fronts; the establishment of the regular army, the Greek attack and the wars on the western front, the signing of the Mudanya Armistice, the convening of the Lausanne Conference and the signing of the Peace Treaty.

YDI107 Foreign Language 1

(2 0 2) (3)

Present tense; present tense; verbal, reading, writing and listening skills in these tenses; verbal skills (introducing oneself, describing a thing/place, giving directions, question and answer patterns for personal information); reading skills (reading lists/labels in restaurants, buses-trains etc. transportation vehicles, shopping places, asking questions etc.); writing skills (writing short messages, writing poster content, filling out forms); listening skills (directions, place/person directions etc.).

GK01 Turkish Language 1

(3 0 3) (5)

Written language and its features; spelling and punctuation; features of written and oral expression; paragraph formation and paragraph types (introduction, development, conclusion

paragraphs); ways to develop thought (explanation, argument, narration, description; describing, sampling, witness display, applications); text structure (structural features of the text, introduction-development-conclusion sections); textuality features (cohesion, consistency; purposefulness, acceptability, situationality, informativeness, intertextuality); text don't write (draft creating, writing, editing and sharing); writing informative-explanatory texts; writing narrative texts; writing descriptive texts; writing argumentative and persuasive texts.

GK02 Informatics Technologies

(3 0 3) (5)

Information technologies and computational thinking; problem solving concepts and approaches; algorithms and flow schematics; computer systems; software and hardware related basis concepts; operating systems basics, current operating systems; file management; utility programs (third party software); word processing programs; calculation/table/graphic programs; presentation programs; desktop publishing; database management systems; web design; internet use in education; communication and cooperation technologies; trustworthy internet usage; informatics ethics and copyrights; the effects of computers and the internet on children/adolescents.

MTO110 Of mathematics The Basics 1

(2 0 2) (2)

In the mathematics program, the areas of learning numbers and algebra (natural numbers, natural operations with numbers, fractions, operations with fractions, decimals notation, percentages, multipliers and multiples, sets, integers, operations with integers, rational numbers, operations with rational numbers, ratio, rate and proportion, exponential expressions, square root expressions, algebraic expressions, equality and equation, linear equations, algebraic expressions and identities, inequalities) basic concepts and their properties related to the subjects; the relationship of these concepts with each other, discussion of mathematical concepts and their transformation into each other with multiple representations and the relationship of these subjects with the purpose, principles and secondary school mathematics education program.

MTO111 Analysis 1

(2 0 2) (3)

Sets and number systems; relations, types of functions, exponential and logarithmic functions; concepts and applications of limit and continuity; derivative, applications of derivative and graph drawings.

MTO112 Maths Date

(2 0 2) (3)

The place of the history of mathematics in mathematics education; Ancient Egyptian mathematics; Ancient Greek mathematics; Far Eastern mathematics; Islamic world mathematicians; the birth of modern mathematics; historical development of mathematical concepts.

II. SEMESTER

EGT02 Education Psychology

(2 0 2) (3)

Basic concepts of psychology and educational psychology; research methods in educational psychology; developmental theories, developmental areas and developmental processes; individual differences in development; about learning basis concepts; to learn influencing factors; learning theories within the framework of education-learning processes; motivation in the learning process.

EGT04 Education Philosophy

(2 0 2) (3)

The basic subjects and problem areas of philosophy; being, knowledge, moral/values philosophy and education; basic philosophical movements (idealism, realism, naturalism, empiricism, rationalism, pragmatism, existentialism, analytical philosophy) and education; philosophy of education and educational movements: perennialism, essentialism, progressivism, existential education, critical/radical education; islam The educational views of some philosophers in the world and the West (Plato, Aristotle, Socrates, J. Dewey, Ibn-i Sina, Farabi, JJ Rousseau etc.); human nature, individual differences and education; education in terms of some political and economic ideologies; schools of thought and education effective in the modernization process in Turkey; the philosophical foundations of the Turkish education system.

AİT110 Atatürk's Principles and Revolution History 2

(2 0 2) (3)

Revolutions in the political arena (the abolition of the Sultanate, the declaration of the Republic, the abolition of the Caliphate, etc.); revolutions in the social arena (the Hat Revolution, the closure of dervish lodges and dervish lodges, the Calendar, Hours and Surname Law); revolutions in the fields of education and culture (the Tevhid-i Tedrisat Law, the Alphabet Revolution, the Turkish History and Language Revolution); revolutions in the field of law; attempts at transition to multi-party life during the Atatürk period and reactions (the establishment and closure of the Progressive Republican Party, the Sheikh Said rebellion and the assassination attempt on Atatürk); attempts at transition to multi-party political life during the Atatürk period (the establishment, closure of the Free Republican Party and the Menemen Incident); Turkey's economic resources and policy during the Republican period (the Izmir Economic Congress); Turkish foreign policy during the Atatürk period (the Population Exchange, membership in the League of Nations, the Balkan Entente and the Sadabat Pact); Turkish foreign policy during the Atatürk era (Montreux Straits Convention, Hatay Its accession to the motherland, Turkey's bilateral relations with other countries); Atatürk's thought system its definition, scope and Atatürk's principles; from Atatürk Türkiye after, the years of the Democrat Party's rule, Türkiye in the 1960s and 1970s, Turkey's foreign policy after 1960.

YDI108 Foreign Language 2

(2 0 2) (3)

Past tense; future; moods (can, could, may, must, etc.); speaking, reading, writing and listening skills in these tenses and moods; verbal skills (asking questions in restaurants and eateries, ordering food, etc.); reading skills (internet weather reports, recipes, poster/poster texts, etc.); writing skills (writing short messages, giving written directions, writing e-mails/invitations, etc.); listening skills (weather report, recipe, etc.).

GK03 Turkish Language 2**(3 0 3) (5)**

Features of academic language and writing; using definitions, concepts and terms in academic writings; objective and subjective expression; structure and types of academic texts (article, report and scientific abstract etc.); writing claims and propositions (verifying, defending or opposing an idea); formal features of scientific reports and articles; steps of report writing; explanation, discussion, establishing intertextual relationships, showing sources (making references and showing footnotes, creating a bibliography); writing titles, summarizing, writing keywords; ethical principles to be considered in scientific writings; academic text writing practices.

MTO120 Of mathematics The Basics 2**(2 0 2) (4)**

In the mathematics program, geometry, statistics and probability are included in the learning areas (basic geometric concepts and drawings, triangles and quadrilaterals, triangles, length and time measurement, area measurement, geometric objects, angles, lines and angles, circle, circle and circle, liquid measurement, transformation geometry, polygons, views of objects from different directions, congruence and similarity, data collection and evaluation of data analysis, probability of simple events) basic concepts and their properties related to the subjects, the relationship of these concepts with each other, discussion of mathematical concepts and their transformation into each other with multiple representations and the relationship of these subjects with the purpose, principles of mathematics education and secondary school mathematics program.

MTO121 Analysis 2**(2 0 2) (4)**

Trigonometric functions, trigonometric relations, solutions of trigonometric equations; complex numbers and their properties; Riemann sum, definite integral, indefinite integral, methods of integration, applications of integral, improper integrals, series and convergence tests.

MTÖ122 Abstract Mathematics**(2 0 2) (5)**

Symbolic logic and proof techniques; sets, algebra of sets, sets of sets, partitions of sets of sets, multiplication sets; relations, relations of inverse, composition of relations, equivalence relations and equivalence classes, order relations; partially ordered set, completely ordered set; functions, one-to-one and onto functions, composition of functions, inverse of functions, permutations, operations.

III. SEMESTER

EGT05 Teaching Technologies

(2 0 2) (3)

Information technologies in education; the teaching process and the classification of teaching technologies; theoretical approaches to teaching technologies; new trends in learning approaches; current literacies; teaching technologies as tools and materials; design of teaching materials; designing thematic teaching materials; creating a field-specific object warehouse, teaching material evaluation criteria.

EGT07 Teaching Principles and Methods

(2 0 2) (3)

Basic concepts related to teaching principles and methods; teaching-learning principles, models, strategies, methods and techniques; determining goals and objectives in teaching; selecting and organizing content in teaching and learning; teaching materials; planning of teaching and teaching plans; theories and approaches related to teaching; effective teaching in school, learning and success in learning; evaluation of classroom learning.

EGTS Elective 1

(2 0 2) (4)

GKS Elective 1

(2 0 2) (3)

MTOS Elective

(2 0 2) (4)

MTÖ230 Approaches to Learning and Teaching Mathematics

(2 0 2) (3)

The nature of mathematics and mathematical thinking; the meaning of learning and teaching mathematics; the purpose and basic principles of mathematics teaching; the history of mathematics teaching; reflections of learning and teaching approaches on mathematics teaching; basic skills in mathematics teaching; examples of in-class practice; current trends and problems in mathematics teaching; components of effective mathematics teaching; a social, cultural and economic perspective on mathematics teaching.

MTO231 Linear Algebra 1

(2 0 2) (3)

Matrices, operations on matrices, special types of matrices; elementary operations, echelon matrix, elementary matrices and inverse of a matrix, rank of a matrix; determinant, properties of determinant function; systems of linear equations, methods of solving systems of linear equations (Gauss elimination, Gauss-Jordan reduction, inverse matrix and Cramer's method).

MTO232 Analytical Geometry

(2 0 2) (4)

Cartesian coordinates in the plane and in space; vectors in the plane and in space; lines in the plane; lines and planes in three-dimensional space; reflections by line and plane; point-line; line-plane and relations of planes with each other; translation and rotation in the plane.

MTO233 Analysis 3

(2 0 2) (3)

Functions of several variables; topology of $\mathbb{R}^n$, limit, continuity, sequence and series of functions; derivative, directional derivative, partial derivative, geometric interpretation of partial derivative, higher order derivatives and the chain rule.

IV. Semester

EGT06 Turkish Education Date

(2 0 2) (3)

The subject, method and sources of Turkish educational history; education in the first Turkish states; education in the first Muslim Turkish states; education in the Seljuks of Turkey and the Anatolian Principalities; education in the Ottoman Empire: the educational system until the first modernization movements; education in Turkish states outside the Ottoman geography in the 13th-18th centuries; modernization movements in education in the Ottoman Empire until the Tanzimat; the establishment of the modern educational system from the Tanzimat to the Republic; the reorganization of traditional education; education in other Turkish states and communities in Eurasia in the 19th-20th centuries; education during the national struggle period; education in the Republic of Turkey: the foundations, structure, establishment and development of the Turkish educational system; the teacher training process from its beginning to the present; education in the Turkish world in the 21st century; common goals, unity of language and alphabet, common history writing efforts.

EGT08 Research Methods in Education

(2 0 2) (3)

Basic concepts and principles related to research methods; research process (recognizing the problem, determining the problem and sample) determination, data collection and analysis, results interpretation); data General characteristics of collection tools; analysis and evaluation of data; access to articles, theses and databases; research models and types; basic paradigms in scientific research; quantitative and qualitative research designs; sampling, data collection, data analysis in qualitative research; validity and security in qualitative research; article or thesis review, evaluation and presentation; preparation of a research report in accordance with research principles and ethics; action research in education.

EGTS Elective 2

(2 0 2) (4)

GKS Elective 2

(2 0 2) (3)

GK04 Community Service Practices

(1 2 2) (3)

Society, community service practices And social concepts of responsibility; social And Social responsibility projects in terms of cultural values; determining current social problems; preparing projects to solve the determined social problems; taking part in social responsibility projects as an individual or group volunteer; participating in social responsibility projects in various institutions and organizations; participating in scientific events such as panels, conferences, congresses, symposiums as a spectator, speaker or organizer; evaluating the results of social responsibility projects.

MTOS Elective 2

(2 0 2) (4)

MTÖ240 Secondary School Mathematics Curriculum

(2 0 2) (3)

Basic concepts related to curriculum; the development of middle school mathematics curriculum from past to present; the approach, content, and skills aimed to develop of the current middle school mathematics curriculum; learning and sub-learning areas; the distribution and limits of achievements according to classes, the relationship with other courses; the relationship of the middle school mathematics curriculum with primary and high

school mathematics curriculum; the methods, techniques, tools and materials used; the measurement and evaluation approach; teacher qualifications.

MTO241 Linear Algebra 2

(2 0 2) (2)

Vector spaces, subspaces, linear independence, linear combinations; span, basis and dimension; linear transformations, kernel and image of a linear transformation; isomorphisms, eigenvalues and eigenvectors; characteristic polynomials; diagonalization, inner product spaces, orthogonality of vectors, orthonormal vector sets.

MTÖ242 Algorithm and Programming

(2 0 2) (2)

Algorithm design; development of algorithms suitable for flow charts, input-output concepts, loops, decision structures, decision making and cyclical problems; applications of programs where algorithms and flow charts are used visually (such as scratch, code.org); creation of suitable solution algorithms using functions; development of suitable solution algorithms using one- and two-dimensional arrays; coding of the created algorithms in Computer Algebra Systems.

And applications.

MTO243 Probability

(2 0 2) (3)

The basic principle of counting; the concept of permutation and applications; the concept of combination and applications; the binomial theorem, the concept of probability, basic concepts of probability and probability axioms; conditional probability and Bayes' theorem; geometric probability problems; the concept of random variables; probability function, probability density function; expected value and its variance; moment generating function and moments; some discrete distributions, Bernoulli, binomial, geometric, hypergeometric, Poisson distributions; some continuous distributions, uniform distribution, exponential distribution, normal distribution and their properties.

V. Semester

EGT11 Classroom Management

(2 0 2) (3)

Basic concepts related to classroom management; physical, social and psychological dimensions of the classroom; classroom rules and discipline in the classroom; models related to classroom discipline and management; management of student behavior in the classroom, communication and interaction process in the classroom; student motivation in the classroom; time management in the classroom; teacher as an instructional leader in the classroom;

teacher-parent meetings. management; positive class And learning climate creation; school Sample events related to classroom management according to grades.

EGT12 In education Morality And Ethics

(2 0 2) (3)

Basic concepts and theories related to morality and ethics; ethical principles, ethical rules, business and profession. morality/ethics; the teaching profession with its social, cultural, moral and ethical aspects; the right to education and learning; ethical principles in the process of education, teaching, learning and evaluation; ethical principles in relations with educational stakeholders (employers/administrators, colleagues, parents, professional organizations and society); moral/ethical responsibilities of education/school administrators, parents and students; unethical behaviors in business and professional life; ethical regulations regarding public administration, education and teachers in Turkey; unethical behaviors, ethical dilemmas, problems and solutions in school and education; moral/ethical education and ethics committees in school; school principal and teacher as a moral/ethical leader.

EGTS Elective 3

(2 0 2) (4)

GKS Elective 3

(2 0 2) (3)

MTOS Elective 3

(2 0 2) (4)

MTO350 Teaching

(3 0 3) (5)

Number system setting up, natural numbers, natural operations on numbers, different bases numbers, exact numbers, factors and multiples, divisibility rules, LCM and EBOB concepts and applications; ratio, ratio concepts And applications; real numbers, exents and rooted teaching of the subjects of quantities, fractions, decimal representations, percentages; rational and irrational numbers; sets and basic concepts related to sets (organizing the course content- using appropriate teaching materials and strategies, etc.); student knowledge related to these subjects (understanding and interpreting student thinking related to concepts, knowing student difficulties, errors, misconceptions and their reasons); the relationship of these subjects with daily life and other subjects.

MTÖ351 Geometry and Measurement Teaching

(3 0 3) (4)

Van Hiele thinking levels; basic geometric concepts, geometric structures, geometric solids; congruence and similarity; transformation geometry, projection, patterns and ornaments, fractals; Pythagorean theorem; the nature of measurement, teaching the subjects of time, length, area, volume and angle measurement (organizing the course content - using appropriate teaching materials and strategies, etc.); student knowledge on these subjects (understanding and interpreting student thinking on concepts; knowing student difficulties, errors, misconceptions and their reasons); the relationship of these subjects with daily life and other subjects.

MTO352 Statistics

(2 0 2) (2)

Sampling, organizing and analyzing data; sampling distribution and estimating; confidence intervals concept; two Difference from the mass mean for range estimate, two population variance rate interval estimation for , interval estimation for the binomial parameter p; hypothesis testing, correlation and regression.

MTO353 Algebra

(2 0 2) (2)

Binary operations, definition of group and basic properties, subgroups, permutation groups,

cyclic groups, symmetry group of regular n -gon, cyclic permutations, odd and even permutations, homomorphisms, cosets and Lagrange's theorem, isomorphism theorems, action of a group on a set, rings, subrings and ideals, prime and maximal ideals, ring homomorphisms, arithmetic on rings, polynomial rings, fields; Burnside's theorem and its applications, p -groups and related theorems, simplicity of A_n for $n > 4$.

VI. Semester

EGT10 Measurement and Evaluation in Education (2 0 2) (3)

The place and importance of measurement and evaluation in education; basic concepts related to measurement and evaluation; psychometric (validity, reliability, usability) properties of measurement tools; success tests development and implementation; interpretation and feedback of test results reporting; analyzing test and item scores; evaluating and grading.

EGT09 Turkish Education System and School Management (2 0 2) (3)

The formation of education systems and the structure of the Turkish education system; the basic laws regulating the Turkish education system; the central, provincial and international organization of the Ministry of National Education; the levels of education in the Turkish education system; the human power, physical, technological and technological systems in the Turkish education system. and financial resources; Turkish education Reform in the system and innovation initiatives; organization-management theories and processes; school as a social system and organization; management of human resources; student personnel affairs; affairs related to education and teaching; affairs related to school management; school, environment, society and family relations; current discussions and trends regarding the Turkish education system and school.

EGTS Elective 4 (2 0 2) (4)

GKS Elective 4 (2 0 2) (3)

MTOS Elective 4 (2 0 2) (4)

MTO360 Algebra Teaching (3 0 3) (5)

Algebraic thinking, the role of algebraic thinking in teaching mathematics importance; pre-algebra term; arithmetic-algebra relationship; generalized arithmetic and functional thinking; basic algebra concepts; different representations in teaching algebra; teaching of variables, algebraic expressions, equality and equations, linear equations, identities and inequalities (organizing the course content, using appropriate teaching materials and strategies, etc.); student knowledge on these topics (understanding and interpreting student thinking on concepts, knowing the difficulties, mistakes, misconceptions and their reasons); the relationship of these topics with daily life and other courses.

MTÖ361 Probability and Statistics Teaching (3 0 3) (4)

Teaching the subjects of basic concepts related to probability, types of probability, probability simulations and probability distributions; data collection, organization, display and analysis of data, the concept of distribution, frequency distributions, measures of central tendency and measures of dispersion (organizing the course content, using appropriate teaching materials and strategies, etc.); student knowledge related to these subjects (understanding and interpreting student thoughts related to concepts, knowing the difficulties, mistakes,

misconceptions experienced by students and their reasons); the relationship of these subjects with daily life and other courses.

MTÖ362 Making Connections in Mathematics Teaching

(3 0 3) (4)

Relationship between concepts and operations construction; mathematical concept and rules different expressing with representational formats; relating different mathematical concepts to each other; relating mathematics to other courses; relating mathematics to daily life.

VII. Semester

EGT15 Teaching Practice 1

(2 6 5) (10)

Making observations on field-specific teaching methods and techniques; carrying out individual and group micro-teaching practices using field-specific special teaching methods and techniques; developing field-specific activities and materials; preparing teaching environments, managing the classroom, measuring, evaluating and reflecting.

EGT14 Special Education and Inclusion

(2 0 2) (3)

Basic concepts related to special education; principles and historical development of special education; legal regulations related to special education; diagnosis and evaluation in special education; individualization of education; integration and support special education services; family participation in education and cooperation with the family; different disability and ability groups features; different educational approaches and teaching strategies for groups; effective strategies in classroom management and behavior management.

EGTS Elective 5

(2 0 2) (4)

MTOS Elective5

(2 0 2) (4)

MTO470 In Mathematics Problem Solving

(2 0 2) (3)

Problem And problem solving, problem types, problem solving of teaching importance, problem related to solving last in the period emerge developments, mathematical problem solving strategies and the importance of multiple representations in problem solving; examples of problems that can be solved with different problem solving strategies, evaluation of problem solving; definition, process, characteristics and importance of problem posing, classifications of problem posing, problem posing strategies, conducting different problem posing studies; teaching middle school mathematics course Problem posing in curriculum and textbooks; evaluation of problem posing.

MTÖ471 Misconceptions in Mathematics Teaching

(2 0 2) (3)

Mathematical errors, difficulties and misconceptions; types of misconceptions, mathematical concepts and common misconceptions related to these concepts in the literature; questioning techniques to reveal the thinking processes of secondary school students; producing solutions to misconceptions according to the characteristics of the subject area and the individual differences of the students.

MTO472 Logical Mind Execution

(2 0 2) (3)

Defending the accuracy and validity of inferences; making logical generalizations and inferences; explaining and using mathematical patterns and relationships in analyzing a mathematical situation; rounding, appropriate numbers grouping, first or last steps Making predictions about the outcome of operations and measurements using strategies such as using a metric or their own developed strategies; making predictions about the measurement by taking into account a specific reference point.

VIII. Semester

EGT16 Teaching Practice 2

(2 6 5) (12)

Observation of field-specific special teaching methods and techniques; field-specific special applying micro-teaching practices using teaching methods and techniques; being able to plan a lesson independently; developing activities and materials related to the lesson; preparing teaching environments; managing, measuring, evaluating and reflecting on the class.

EGT13 In schools Guidance

(2 0 2) (3)

The place of guidance and psychological counseling (RPD) services in education; the philosophy, purpose, principles and program of the developmental guidance model (comprehensive developmental RPD program); basic services/interventions; the role and function of teachers in classroom guidance; competencies to be gained in educational, professional, personal and social areas within the scope of RPD services; cooperation between school administrators and teachers and guidance teachers and psychological counselors; preparation and implementation of classroom RPD plans and programs.

EGTS Elective 6

(2 0 2) (4)

MTOS Elective 6

(2 0 2) (4)

MTO480 Maths Philosophy

(2 0 2) (3)

Of mathematics ontology And numbers, functions etc. mathematical epistemology; clusters, concepts and propositions and mathematical meanings of expressions; foundations of mathematics, methods, and philosophical problems concerning the nature of mathematics, objectivity in mathematics and applicability to the real world; works of pioneers in the philosophy of mathematics such as Frege, Russel, Hilbert, Brouwer, and Gödel; flatness and the concept of dimension, fundamental theories in the philosophy of mathematics logicism (Logisym), formalism (Formalism) And Intuitionism, quasi-empiricists and Lakatos; the relationship of philosophy of mathematics to mathematics education; social groups in the philosophy of mathematics education.

MTÖ481 Modeling in Mathematics Teaching

(2 0 2) (4)

Mathematical modeling and problem solving; models and modeling process in mathematics teaching; modeling cycle (problem definition, manipulation, prediction and verification), model development steps; model development principles; application of modeling activities in mathematics classes and the role of the teacher; preparing mathematical modeling activities and monitoring students' mathematical thinking processes.

AREA EDUCATION ELECTIVE LESSONS

MTÖS01 Computer Aided Mathematics Teaching (2 0 2) (4)

The importance of technology in teaching mathematics; use of software such as Computer Algebra Systems (BCS) and Dynamic Geometry Systems (DGS), producing and implementing interactive activities through these software; evaluating student products.

MTOS02 Culture And Mathematics (2 0 2) (4)

The relationship between mathematics and culture; defining mathematical concepts in their cultural contexts, Mathematical aspects of cultures mindsets, basic principles of research in the field of ethnomathematics, the relationship between mathematics-anthropology-linguistics; the importance of incorporating ethnomathematics studies into classroom practices; designing classroom mathematics activities for different cultural contexts.

MTÖS03 Primary School Mathematics Teaching (2 0 2) (4)

The aims and basic principles of primary school mathematics teaching; examination of the primary school mathematics course curriculum in terms of purpose, content, philosophical approach, teaching methods, measurement and evaluation techniques; mathematical understanding, misconceptions and difficulties in primary school students; measurement and evaluation in primary school mathematics courses.

MTÖS04 Mathematics Textbook Review (2 0 2) (4)

The physical, educational, visual design and language expression features and standards that the textbook should have; the suitability of the content of the textbooks to the program; examination of some of the existing textbooks in terms of content, language, suitability to the student level, format, attractiveness, contribution to meaningful learning, ease of use in teaching, etc.

MTÖS05 Inclusive Practices in Mathematics Education (2 0 2) (4)

Definition and basic principles of inclusion; characteristics of inclusion students; social relationships and teaching situations of inclusion students with other students, advantages and disadvantages of labeling; individualized education of inclusion students in mathematics classes. programs, methods and techniques regarding inclusive education; part-time and full-time inclusive practices and evaluation.

MTÖS06 Self-regulation in Mathematics Education (2 0 2) (4)

Self-regulation and self-regulated learning processes; the purpose and importance of self-regulated learning in mathematics education; the characteristics of self-regulated learners and self-regulated learning strategies in mathematics teaching; classroom environments and teaching practices that support self-regulated learning; metacognition; self-regulation in teachers; evaluation of metacognition and self-regulated skills.

MTÖS07 Developing Activities in Mathematics Teaching (2 0 2) (4)

The purpose and importance of using activities in teaching mathematics; of events features; activity in preparation And in practice attention to be done

issues; evaluating sample activities; activity development; activity-based classes measurement and evaluation.

MTÖS08 Material Design in Mathematics Teaching (2 0 2) (4)

Using field-specific teaching technologies; types of software and their purposes; design and development principles of materials to be used in teaching the field; determining material needs; designing two- and three-dimensional teaching materials; developing teaching materials such as worksheets; slides; VCD, DVD, MP3 and MP4 files; evaluating classroom applications for different teaching materials.

MTÖS09 Out-of-School Learning Environments in Mathematics Teaching (2 0 2) (4)

The scope and importance of out-of-school learning; teaching mathematics in out-of-school environments, teaching methods and techniques appropriate for out-of-school learning environments (project-based learning, environment-based teaching, etc.); out-of-school learning environments (museums, science centers, zoos, botanical gardens, industrial parks, etc.) organizations, national parks, science fairs, science camps, natural environments, rural areas, etc.); planning, implementation and evaluation of out-of-school learning activities.

MTÖS10 Communication in Mathematics Classes (2 0 2) (4)

Realizing that mathematics is a language with its own symbols and terminology, using the symbols and terms of mathematics effectively and correctly, using mathematical language appropriately and effectively within mathematics itself, in different disciplines and in life, using concrete models, shapes, pictures, graphs, tables, symbol etc. different representation their forms expressing mathematical ideas using mathematical symbols; expressing mathematical ideas orally and in writing; relating everyday language to mathematical language and symbols; interpreting the accuracy and meaning of mathematical ideas.

MTÖS11 Teaching Mathematics to Gifted Students (2 0 2) (4)

Identification of gifted students in mathematics, advantages and disadvantages of labeling; characteristics of gifted students, development of gifted talent in mathematics, program preferences for gifted students, differentiation, enrichment, acceleration for gifted students, supporting gifted students in the classroom, social relations with gifted students; individualized education programs for gifted students.

MTÖS12 Teaching Mathematics with Games (2 0 2) (4)

Games and game types; the importance of games in teaching mathematics; theoretical approaches to games; logic, mathematics, intelligence games/puzzles; interaction between mathematics and games; some games developed by mathematicians. study of games; cultural mathematical games game theory; technology-supported mathematical games.

MTÖS13 Evaluation of Classroom Learning (2 0 2) (4)

Measurement tools and their features used in education; tools based on traditional approaches: Written exams, short Answered exams, true-false type tests, already elective tests,

Matching tests, oral exams; tools for getting to know the student in many ways: Observation, interview, performance evaluation, student portfolio, research papers, research projects, peer evaluation, self-evaluation, attitude scales; issues to be considered in evaluating student success; evaluation of learning outcomes and grading .

GENERAL CULTURE ELECTIVE LESSONS

GKS01 Addiction and Fighting Addiction

(2 0 2) (3)

Basic concepts and definitions; Types of Addiction (substance addiction, technology addiction etc.); causes of addiction; risk factors in the family, peer group and social context that prepare the person for the substance addiction process; communication skills in addicted children, adolescents and adults; the role of social work in addiction; models related to addiction; efforts to prevent addiction; consequences of addiction; national policy and strategy methods in the fight against addiction; the process of readjustment.

GKS02 Nutrition and Health

(2 0 2) (3)

Natural and healthy nutrition; fight against obesity; food additives; healthy living and exercise; growth and development; healthy sexual life; fight against addiction (tobacco, alcohol, substance addiction, etc.); traffic, disaster and first aid.

GKS03 Science Date And Philosophy

(2 0 2) (3)

Science, philosophy, scientific method; Ancient Greece, Medieval Europe, Scholastic philosophy and science; science and philosophy in Islamic cultural geography; science in Mesopotamia; science and philosophy in Renaissance Europe; science and philosophy in the age of enlightenment; classification of sciences; science, scientism, ideology, ethics and religion relations; science and paradigms; Vienna and Frankfurt schools of thought; criticisms of science in the twentieth and twenty-first centuries.

GKS04 Science And Research Ethics

(2 0 2) (3)

Science, nature of science, development and scientific research; concept of ethics and ethical theories; research and publication ethics; unethical behaviors and ethical violations in the research process; authorship and copyright. Related ethical issues; biased publication, editorship, refereeing and ethics; publication ethics and unethical practices in the publication process behaviors; on research and publication ethics legal legislation and boards; Ways to detect ethical violations; common research and publication ethics violations and methods to prevent them.

GKS05 Economy and Entrepreneurship

(2 0 2) (3)

Basic concepts of economics and economic systems; basic concepts of business and business management; establishment, objectives and legal structure of the business; management processes in businesses. and its functions; human resources and management of other resources; entrepreneur and entrepreneurship concepts, success factors in entrepreneurship; entrepreneurship culture, entrepreneurship process and types of entrepreneurship; career planning, original ideas, extraordinary examples; Turkish Patent and Trademark Office; Industrial Property Law; small and medium-sized enterprises; management in small enterprises processes And functions; work idea development, innovation And innovation, work plan don't do that, work

elements of a plan, writing and presenting it; preparing an entrepreneurial project in a specific field and subject.

GKS06 Traditional Turkish Handicrafts

(2 0 2) (3)

Terms and concepts related to traditional Turkish arts; the importance of traditional Turkish arts; their contributions to the individual, society and the country's economy; the historical development of traditional Turkish arts (Huns, Gokturks, Uyghurs, Seljuks, Principalities and the Ottoman Period); Ahilik and Guild Organization; institutions and organizations related to Turkish arts in the Republican period; classification of traditional arts according to raw materials and production techniques; traditional weaving (carpet-rug, fabric etc.), printing, knitting, felting, glass (stained glass, glassware, beads etc.) arts; metal (iron, copper, silver and gold etc.) arts; wood (kündekari, carving and mother-of-pearl inlay) arts; tile-ceramic and stone working arts; education, production and marketing of traditional Turkish arts.

GKS07 Human Rights and Democracy Education

(2 0 2) (3)

The concept of human rights and its historical development; types of human rights; understanding, principles, approaches to democracy and human rights; democracy education and democratic education; family and democracy. education; human right education as preschool education and democracy education; primary school curriculum and democracy education; democracy education in secondary education; higher education and democracy education; democratic school and classroom environment.

GKS08 Person Relationships And Contact

(2 0 2) (3)

Definition and classification of interpersonal relationships; theoretical approaches to interpersonal relationships (psychoanalytic, attachment, contemporary theories); theoretical approaches to interpersonal relationships (social, psychological, cognitive theories); interpersonal relations as a developmental process (infancy and childhood, adolescence and adulthood); factors affecting interpersonal relations; gender, gender roles and interpersonal relations; self-adaptation and self-disclosure in interpersonal relations; communication and communication errors; effective communication skills; interpersonal problems, conflict and conflict resolution approaches; human relations in terms of intercultural differences.

GKS09 Career Planning and Development

(2 0 2) (3)

The concept of career, career planning and stages; individual career development, creating a career strategy; career planning model, career options in related teaching fields; preparing a resume and resume types, CV format and samples, points to consider in CV preparation; cover letters, introductory letters, job interview, purposes, methods and types, preparation for the interview and interview stages; situations that may be encountered in interviews; question types, body language-physical signs.

GKS10 Culture And Language

(2 0 2) (3)

Basic concepts related to language and culture; sources and elements of culture; oral and written culture; material and spiritual culture; culture from individual and social perspectives; unifying and dividing aspect culture; acculturation, acculturation, cultural spread and adaptation; cognitive, symbolic, structural-functional approaches In terms of culture; symbols system aspect language; individual from the perspective language And language

acquisition; your tongue is human effect on consciousness; between culture, language, cognition and reality relationship; knowledge of language and culture, the function of establishing social relations and communication; the development and transmission of language and culture; national identity and language; culture and in the language dynamics of changes; culture and in the language discussions of the interaction of changes; national cultures; globalization, multilingualism and multiculturalism.

GKS11 Media Literacy

(2 0 2) (3)

Information literacy; conscious use of the internet and social media; the impact of social media on individuals effects; information spreading and misleading power; spreading the news power; media and perception management; legal rights and responsibilities regarding media and internet; copyright; personal rights; confidentiality of information; violation of privacy; use of language in media; value and quality analysis of news; popular culture; roles of women and men in media; consumer culture and advertisements; stereotyping in media.

GKS12 Vocational English

(2 0 2) (3)

Basic English reading-writing-listening skills; basic concepts related to child development and stages; basic concepts related to primary and secondary education; related to educational sciences basic concepts; examples of dialogue between student-parent-teacher; techniques for listening and understanding academic texts (youtube, teachertube, tedx talks etc.); verbal skills for professional development (vocabulary, patterns etc.); writing skills (writing a petition, preparing a report, creating a CV, writing a short message, creating course objectives etc.); reading skills (reading written texts using web 2.0 tools etc.); translation studies in the relevant teaching field.

GKS13 Art And Aesthetics

(2 0 2) (3)

Art, fine arts, craft and culture; art and education; art, creativity and work of art; philosophy of art and aesthetics; theories of art and aesthetics; art criticism; art history, art in pre-modern, modern and post-modern periods; art and social context; art and daily life; Turkish-Islamic art-aesthetics and works of art; the position of art and craftsman in the process of social change; development of art in Turkey; current understandings of art; construction of civilization and art; art, aesthetics and morality.

GKS14 Turkish People Games

(2 0 2) (3)

Definition of folklore; rhythm and perception studies, game and folk dance-figure studies; regional differences in folk dances, figure studies, local figures, learning bar type local figures, learning halay and spoon type local figures, learning horon and welcome type local figures, learning zeybek type local figures; studies on the learned games, attitudes and playing styles; staging of folk dances, staging types and differences.

GKS15 Turkish Sign Language

(2 0 2) (3)

Basic concepts related to sign language; Turkish sign language, its history and features; letters in Turkish sign language; phonetics; internal structure of the sign, simultaneity and sequentiality; hand alphabet in terms of phonetics; sign in your language shape knowledge, your sign structure And formation; word classes And

pronouns; syntax in sign language; word order, sentence types; interrogative sentences; semantics in sign language; meaning and reference, types of meaning, idioms; conversation in Turkish sign language .

GKS16 Turkish Culture Geography (2 0 2) (3)

Culture, people and society; Turkish culture and Turkish civilization; first ethnographic sources about Turks; Turkish states in history; state, administrative, military and social structure of Turks; folk beliefs and mythology of Turks; relationship between people and space of Turks; oral, written and material culture of Turks; family structure of Turks; demographic and cultural results of migrations in Turkish history; areas of spread of Turkish culture and its effect on neighboring geographies; tangible and intangible cultural heritage of Turkey; transfer of natural and cultural heritage to future generations.

GKS17 Turkish Music (2 0 2) (3)

Musical elements belonging to Turkish communities living in Central Asia and Anatolia, Turkish mythology (human, creation, religious rituals and holidays, etc.), mythological elements in the Turkish Folk Music repertoire, musical genres existing in Turkish States and Communities, historical the development of Turkish Folk Music and Turkish Art Music throughout the process; the mutual interaction of different traditions and styles related to music; examination of instruments, composers, performers and sample works.

GKS18 Turkish Art of Date (2 0 2) (3)

From Hun Art to the Gokturk, Uyghur, Karakhanid, Ghaznavid, Great Seljuk, Anatolian Seljuk, Principalities and Ottoman periods, art styles, examples of architecture, sculpture and painting belonging to these periods are examined comparatively; starting from the Republican Period Art to today's Turkish artworks and artists.

JOB INFORMATION ELECTIVE LESSONS

EGTS01 Open and Distance Learning (2 0 2) (4)

Basic concepts and philosophy of open and distance learning; distance education in the world development; development of distance education in Turkey; learner and guide roles in distance education; technologies used in distance education; management of open and distance education; classroom management and components in open and distance learning; open educational resources and trends in the world; massive open online courses; personalized learning environments; problems related to open and distance education and their solutions; open and distance education applications in teacher training; development of individual teaching materials and student support services in open and distance education; determination of teaching strategies for different learning situations; research and evaluation in distance education.

EGTS02 Child Psychology (2 0 2) (4)

Basic concepts, history and methods of child psychology; prenatal development; developmental areas and characteristics of infancy; developmental areas and characteristics of early childhood; developmental areas and characteristics of late childhood; child in family structure; school

Child within the system; childhood adaptation and behavior problems; children with special needs.

EGTS03 Attention Deficit Hyperactivity Disorder (2 0 2) (4)

Definition and characteristics of attention deficit and hyperactivity disorder (ADHD); basic symptoms of ADHD (attention deficit, hyperactivity and impulsivity); social, emotional and academic effects of ADHD on the child. success from the direction of effects; Causes of ADHD; Risk factors for the development of ADHD; ADHD types; approaches to children with ADHD; students with ADHD to be directed; ADHD the one which... children education; school-family collaboration ensuring.

EGTS04 Education Law (2 0 2) (4)

Basic concepts of law and administrative law; sources of administrative law; rights and duties in administration; Convention on the Rights of the Child and Declaration of Human Rights; administrative and judicial control of teachers; basic laws that establish and regulate the Turkish Education System; duties, rights and responsibilities of education stakeholders.

EGTS05 Education Anthropology (2 0 2) (4)

The subject, basic concepts, history and method of anthropology; basic approaches in social-cultural anthropology; education from an anthropological perspective and basic concepts of educational anthropology: Culture, acculturation, acculturation, adaptation, subculture, counterculture. partner culture etc.; cultural aspects of education fundamentals and functions; intercultural differentiation, education and learning; school as a living space, school cultures and ethnographies; media, mass media, popular culture and education; globalization, cultural interaction, cultural literacy and education; education in oral and written literary works in the history of Turkish culture and civilization; the roles of parents and children in the Turkish family structure.

EGTS06 Education Date (2 0 2) (4)

Education in ancient times (in ancient Egyptian, Mesopotamian, Anatolian, Indian, Chinese, ancient Greek and Roman civilizations); education in Eastern, Western and Islamic societies in the Middle Ages and the New Age; Renaissance, Reformation, Enlightenment Movements and education; education in the Industrial Age and the Modern Period; relations between Islamic culture and civilization and Western civilization; the emergence of national/nation states and the development of national education systems; post-modern society discussions and education; fundamental changes and transformations in education in the world from ancient times to the present.

EGTS07 In education Drama (2 0 2) (4)

Basic concepts of drama and creative drama (drama, creativity, creative drama, game and theater pedagogy, communication-interaction, role playing, improvisation, action, dramatic game, children's theater, puppet, pantomime etc.); stages, dimensions and elements of creative drama; role acting and improvisation; history of creative drama; relationship between social events and creative drama; application steps of drama in education; resources that can be used in drama in education; preparation and implementation of creative drama lesson plan; contribution of drama to individual and social development.

EGTS08 Extracurricular Activities in Education**(2 0 2) (4)**

Formal curriculum and extracurricular activities/hidden curriculum concepts in education; related to hidden curriculum approaches; cognitive and affective area their learning and implicit program; a ritual place school as; program at school School ceremonies as extracurricular activities; the importance and management of social, cultural, sportive and artistic activities at school; the place and importance of the hidden curriculum in values education; extracurricular activities (commemoration, celebration, meeting, graduation etc.) in terms of values education .

EGTS09 Program Development in Education**(2 0 2) (4)**

Program Basic concepts related to development; program Theoretical foundations of development; types of programs; philosophical, social, historical, psychological and economic foundations of curricula; program development and characteristics of curricula; stages of program development; basic elements of the program (objective, content, process, evaluation) and relations between the elements; classification of objectives and their relations with the elements of the program; content organization approaches; determination of educational needs; program development process and models; curriculum design approaches; program evaluation models; program literacy; duties and responsibilities of teachers in the development of curricula; characteristics of MEB curricula; implementation of curricula; new approaches and trends in program development in the world and in Turkey.

EGTS10 Project Preparation in Education**(2 0 2) (4)**

Project concept and project types; curriculum and project-based learning; project programs in schools (TÜBİTAK, EU and others); selection of topic for the project; literature review; logical structure in the project. frame; the project planning and its management; scientific in the project the method implementation; preparing and developing a project report; finalizing the project report; project evaluation and examining good examples; project presentations, poster and brochure design techniques.

EGTS11 Critical and Analytical Thinking**(2 0 2) (4)**

Basic concepts and definitions; brain as a thinking organ, ways of thinking and the grouping; involuntary thinking And features; voluntary thinking And characteristics; voluntary methods of thinking; critical and analytical thinking; critical And basic characteristics and criteria of analytical thinking, stages of critical and analytical thinking; factors affecting critical and analytical thinking; scope of critical and analytical thinking; critical and analytical reading; critical and analytical listening; critical and analytical writing.

EGTS12 Education of Hospitalized Children**(2 0 2) (4)**

Developmental characteristics, interests and needs, and psychological states of hospitalized children according to their age groups; the relationship between hospital staff, the child, and the family. interaction; preparatory education for hospitalization, diagnosis, treatment and preparation for surgery; preparation and implementation of activity plans for hospitalized children such as games, music, art, drama, mathematics, stories, etc.; interaction between hospital schools and children with terminal illnesses, their families and staff.

EGTS13 Inclusive Education**(2 0 2) (4)**

Inclusivity and the content of inclusiveness; inclusive education: definition, content and importance; legal bases of inclusive education; national and international legislation; approaches and standards in inclusive education; teacher roles in inclusive education; inclusive curriculum and materials; attitudes and values in inclusive education; inclusive school and classroom; preparing an action plan for inclusive education; inclusive education practices: characteristics that differentiate students, effective communication, language used, psycho-social support, differentiating teaching and examples, methods and techniques, planning teaching, selection of inclusiveness and inclusive activities in course materials; course design practices.

EGTS14 Character and Value Education**(2 0 2) (4)**

Conceptual framework: Character, personality, value, virtue, morality, temperament etc.; character development and education; family, environment and school in character development and education; definition and classification of values; sources of values and individual, social, cultural, religious and moral foundations; character and value education approaches and practices; intercultural differentiation and culture of living together in character and value education; character in terms of education philosophy and goals. and values education; character/value teaching in education methods and techniques; crisis of values and education in modern and multicultural societies; in the process of human-cultural development values education; examples of values education from Turkish educational and cultural history, values education practices and research in Turkey; teachers as role models in character and values education.

EGTS15 Comparative Education**(2 0 2) (4)**

Definition, scope and history of comparative education; method and research in comparative education; different countries education structure, functioning, school systems levels, human resources, education financing, privatization in education, policy in education creating, planning and Comparison of implementation aspects; gender, social justice and equality in education in different countries; reform and innovation initiatives in education in different countries; teacher and education/school administrator training systems in different countries; globalization and internationalization in education; international exams, institutions and organizations related to education.

EGTS16 Micro Teaching**(2 0 2) (4)**

Effective teaching And about learning basis concepts and principles; Professional competence, attitude and role of teachers and their behaviors; preparing lesson plans; scope, benefits and limitations of micro teaching method; appropriate to the topic active learning activities preparation; sample lesson in class teaching practices; video recording of lesson presentations; evaluating the lesson using the recordings; developing prepared activities and lesson explanations.

EGTS17 Museum Education**(2 0 2) (4)**

Definition and characteristics of museums, exhibitions in museums; museums and museum education; types of museums; Turkish the development of museums; General history of museums in the world an overview; the relationship between museum, art, culture and civilization; museum and art education; museum and society; the contribution of museums to

historical awareness; protecting historical artifacts; contemporary museum studies in the world and in Turkey.

EGTS18 Out-of-School Learning Environments**(2 0 2) (4)**

Concepts of out-of-school education and learning; the scope and importance of out-of-school learning; teaching in out-of-school environments; teaching methods, techniques (project-based learning, station technique, etc.) and teaching materials appropriate for out-of-school learning environments; out-of-school learning environments (museums, science centers, zoos, botanical gardens, planetariums, industrial establishments, national parks, science festivals, science camps, natural environments, etc.); development of out-of-school learning areas and environments; planning, implementation and evaluation of out-of-school learning activities.

EGTS19 Learning Difficulty**(2 0 2) (4)**

Definition, characteristics and classification of learning disabilities: Educational, psychological, medical factors; prevalence and incidence; causes of learning disabilities; early intervention; response model to intervention; screening/diagnosis: medical, developmental and educational screening/diagnosis; academic and non-academic characteristics; team and collaboration; educational-teaching environments; science-based practices; supporting reading, writing, and math skills; supporting non-academic skills.

EGTS20 Individualization and Adaptation of Instruction**(2 0 2) (4)**

The concept of individualization and its importance in education; what needs to be done for individualization: curriculum-based evaluation, rough evaluation, preparing a criterion-dependent measurement tool, rules to be followed in evaluation; determining long-term and short-term educational goals; arrangements that can be made in classes and schools for integration/integration; adapting education; examples of individualization and adaptation in integration/integration classes.

EGTS21 Sustainable Development and Education**(2 0 2) (4)**

The concept of sustainability and its areas of use; sustainability in terms of social sciences and science; social sustainability in the context of change; education and sustainability; the future of humanity and sustainability; migration, poverty and inequality; sustainable environment; ecology, global environmental problems and sustainability; sustainable society in harmony with nature; population, economic system and natural environment; technological developments, consumption habits and environment; social responsibility studies, sustainability in terms of tangible and intangible cultural heritage; rethinking human-nature relations on the axis of sustainability.

EGTS22 Adult Education and Lifelong Learning**(2 0 2) (4)**

Definition and scope of adult education; concepts related to adult education (continuous education, public education, non-formal education, vocational education, etc.); historical development of adult education in Turkey; approaches and models related to adult education; adults and learning; purpose, scope and historical development of lifelong learning; lifelong learning practices in the Turkish education system.