

Programmes/Courses Taught in ENGLISH at European Regional Educational Academy

HIGHER EDUCATION INSTITUTION	Name: European Regional Educational Academy Acronym: EREA Website: www.era.am	PROGRAMME SUPERVISOR CONTACTS
BA Course	<p>Name: Computer security Short Description: Base knowledge of digital attacks, vulnerability of computer systems. Protection of information systems from theft or damage to the hardware, the software, and to the information on them, as well as from disruption or misdirection of the services they provide. It includes controlling physical access to the hardware, as well as protecting against harm that may come via network access, data and code injection, and due to malpractice by operators, whether intentional, accidental, or due to them being tricked into deviating from secure procedures. Cryptographic algorithms, Network security applications, Transport-Level Security, wireless network security, electronic mail security, IP Security, malicious software, firewalls...</p>	<p>Name: Tigran Surname: Kostanyan Phone: +37493964300 Email: tigranko@mail.ru</p>
BA Course	<p>Name: Microprocessor systems and programming. Short Description: Understanding computer architecture and computer processor which incorporates the functions of a computer's central processing unit (CPU) on a single integrated circuit (IC), or at most a few integrated circuits. Assembly Language for x86 Processors, focused on programming microprocessors compatible with the Intel IA-32 and AMD x86 processors running under Microsoft Windows.</p>	<p>Name: Tigran Surname: Kostanyan Phone: +37493964300 Email: tigranko@mail.ru</p>
BA Course	<p>Name: The basics of algorithms and programming Short Description: The necessary phases for design algorithms. How to choose the appropriate method for each phase. Mastering the skill of designing algorithms.</p>	<p>Name: Vahram Surname: Soghomonyan Phone: +37491465334 Email: vsogomonyan@yahoo.com</p>
BA Course	<p>Name: C++ programming language Short Description: Structure of a C++ program. Functions. Arrays. Pointers. Dynamic Memory. Object-oriented Programming: Classes.</p>	<p>Name: Vahram Surname: Soghomonyan Phone: +37491465334</p>

	Pointers to classes. Overloading Operators. Static members. Relationships between classes: friend. Inheritance. Virtual Members. Abstraction. Polymorphism.	Email: vsogomonyan@yahoo.com
BA Course	Name: Advanced concepts of C++ language Short Description: Study and using of Standard Template Library. Namespaces.	Name: Vahram Surname: Soghomonyan Phone: +37491465334 Email: vsogomonyan@yahoo.com
BA Course	Name: Web programming Short Description: Teaching HTML, HTML5, CSS3, JAVASCRIPT, PHP, design sites, create connection with Mysql relation databases	Name: Susanna Surname: Harutyunyan Phone: +374 93505852 Email: susanna@mail.yerphi.am
BA Course	Name: Basis of database Short Description: Teaching some part of relation database theory, Sql programming database language, using MS SQL SERVER 2008 and T-SQL language. Particular using DML, DDL.	Name: Susanna Surname: Harutyunyan Phone: +374 93505852 Email: susanna@mail.yerphi.am
BA Course	Name: Algebra-I-I Short Description: Matrices, Operations with matrices and their properties: Permutations: Product of permutations: Transposition, Sign of a permutation; Determinant of a matrix; Minors; The inverse matrix; Gauss-Jordan's method, Systems of linear equations, Fundamental solution of a linear system of equations, Cramer's rule, Complex numbers, Algebraic and trigonometric form of complex numbers, Operations with complex numbers and their properties, De Moivre's formula.	Name: Diana Surname: Davidova Phone: +374 91 514157 Email: di.davidova@yandex.ru
BA Course	Name: Algebra-I-II Short Description: Relation of divisibility; Euclid's theorem; The greatest common divisor; Euclid's algorithm; The least common multiple; Prime and co-prime numbers; Diofant equations; Equivalences; Residue classes; Operations with residue classes and their properties; Systems of residue classes; Chinese theorem; Euler's function; Euler's, Wilson's and Fermat's theorems; Polynomials and operations on polynomials; Euclid's algorithm for polynomials; The greatest common divisor of polynomials; Roots of a polynomial;	Name: Diana Surname: Davidova Phone: +374 91 514157 Email: di.davidova@yandex.ru

	Bezout's theorem; The number of roots of a polynomial; Vieta's theorem; Factorization of a polynomial with real coefficients.	
BA Course	<p>Name: Algebra-II</p> <p>Short Description: Linear space and its properties; Linear dependence and linear independence of a system of vectors; Basis and rank of a system of vectors; Dimension of a linear space; Coordinates of a vector in a basis; Basis transformation matrix and its properties; Subspace; Sum and intersection of subspaces; Direct sum of subspaces; Dimension of a sum and direct sum subspaces; Linear forms; Conjugate space; Linear mappings and transformations, Isomorphism of linear spaces; Scalar product; Euclid's space; Caushi-Bunyakovski formula; Orthogonal system of vectors; Gramm-Schmidt algorithm; Isomorphism of Euclid's spaces.</p>	<p>Name: Diana Surname: Davidova Phone: +374 91 514157 Email: di.davidova@yandex.ru</p>
BA Course	<p>Name: Algebra-III</p> <p>Short Description: Mappings, injections, surjections, bijections, transformations; Algebraic operations; Algebras, semigroup, quasigroup, group, abelian group; Subsemigroup, subgroup; Center of a group, Isomorphism between groups; The order of an element of a group; Cyclic group; Lagrange theorem for cyclic groups, Lagrange's theorem and Fermat's theorem in finite groups; Invariant subgroup; Factor-group; Theorems about homomorphisms in a group; Ring, field; Wilson's theorem; Subring, ideal, factor-ring; Homomorphism theorems for rings, Prime and maximal ideal.</p>	<p>Name: Diana Surname: Davidova Phone: +374 91 514157 Email: di.davidova@yandex.ru</p>
BA Course	<p>Name: Analytical geometry</p> <p>Short Description: Concept of a free vector; Linear dependence and linear independence of vectors; Basis of vectors on a straight line (on a plane and in the space), Collinear and coplanar vectors, Affine coordinate system, Orthogonal projection of a vectors on a straight line, Cartesian coordinate system on a plane and in the space, Scalar product, Vector product, Mixed product, Equations of lines and surfaces, A straight line on a plane, A plane in the space, A line in the space, Ellipse, Hyperbola, Parabola, Surfaces of the second order.</p>	<p>Name: Diana Surname: Davidova Phone: +374 91 514157 Email: di.davidova@yandex.ru</p>
BA Course	<p>Name: Mathematical Logic</p> <p>Short Description: Propositional logic (alphabet, letter, word),</p>	<p>Name: Diana Surname: Davidova</p>

	<p>propositional formulas, truth tables, tautologies, equivalent formulas, formulas with closed negations, normal forms of propositional formulas, duality principle, compactness theorem, logical consequence in propositional logic, axiomatisation (formalization) of logic (system of axioms, rules of derivation, derivation), quantifiers, interpretations, models, first order logics, completeness theorem.</p>	<p>Phone: +374 91 514157 Email: di.davidova@yandex.ru</p>
BA Course	<p>Name: Calculus (Mathematical Analysis) Short Description: Three-semester course: I Semester. Elements of Set theory; Functions of one variable, Properties; Elementary Functions; Composition and Arithmetical Operations with Functions; Sequences, Limits; Continuity. II Semester. Differential Calculus with applications: Rate of functions, Approximate calculations, Taylor formula, Tangent line, L'Hopitale's rule, Local and Total Extrema, Investigation of functions; Integral calculus with applications: Area, Length of arcs, Volume. III Semester. Functions of several variables; Continuity; Differential Calculus with applications: Partial Derivatives, Partial and Total Differentials, Approximate computations, Level curve, Tangent plane, Gradient, Local and Total Extrema; Integral Calculus with applications; Number Series, Necessary and Sufficient conditions for Convergence; Functional Series: Absolute and Conditional Convergence, Domain of Convergence; Power Series: Interval and Radius of Convergence; Taylor Series.</p>	<p>Name: Victor Surname: Arzumanyan Phone: +374 93 402414 Email: vicar@instmath.sci.am</p>
BA Course	<p>Name: Numerical Analysis Short Description: One-semester course: Positional systems; Absolute and Relative errors; Arithmetic operations with approximate numbers; Rounding off; Approximate solutions of equations: Localization of roots, Bisection, Chord, Newton, Secant methods; Approximate solutions of algebraic equations: Localization of roots, Euclid algorithm, Sturm method, Horner's scheme; Interpolation problems, including Lagrange interpolation; Numerical differentiation and integration.</p>	<p>Name: Victor Surname: Arzumanyan Phone: +374 93 402414 Email: vicar@instmath.sci.am</p>
BA Course	<p>Name: Probability Theory Short Description: One-semester course: Elements of Combinatorics; Classical Probability; Discrete and Geometric Probabilities; Definitions</p>	<p>Name: Victor Surname: Arzumanyan Phone: +374 93 402414</p>

	and elementary properties; Conditional Probability, Independence; Total Probability and Bayes' rules; Bernoulli trial; Random variables; Probability Distribution, Distribution functions; Numerical characteristics of random variables (Expectation, Variance).	Email: vicar@instmath.sci.am
BA Course	<p>Name: Project Management</p> <p>Short Description: The courses of project management provide skills on the subject of the following topics: Project Scope of Management; Cost Management; Quality Management; Human Resources Management; Communications Management; Time Management; Risk Management; Contract and Procurement Management; Learning of MS project software.</p>	<p>Name: Hasmik Surname: Hakobyan Phone: +374 99 882464 Email: hakobyan_hasmik@yahoo.com</p>
BA Course	<p>Name: Basics of Management</p> <p>Short Description: The courses of Basics of Management provide skills on the subject of the following topics: The Management functions; skills; Management types; Goals in Organizations; Operational Planning; Planning for a Turbulent Environment; Planning for High Performance; The Strategic Management Process; Formulating Corporate-Level Strategy; Formulating Business-Level Strategy; Organizing the Vertical Structure; Organizing for Horizontal Coordination; Contemporary Leadership; Concept of Motivation; The Meaning of Control.</p>	<p>Name: Hasmik Surname: Hakobyan Phone: +374 99 882464 Email: hakobyan_hasmik@yahoo.com</p>
BA Course	<p>Name: Economy of EU Countries</p> <p>Short Description: The Growth and Stability Pact governs fiscal policy with the European Union. It applies to all member states, with specific rules which apply to the Eurozone members that stipulate that each state's deficit must not exceed 3% of GDP and its public debt must not exceed 60% of GDP.</p> <p>This subject is covered the following fields: Economy Motivations of EU Foundation Enlargement of EU Economy Foundation of Euro zone Statistics of EU Economy EU Agricultural Market EU Industrial Market</p>	<p>Name: Armen Surname: Jughuryan Phone: +374 95 097170 Email: Jarmen1@yandex.ru</p>

	EU Tourism Market Competitiveness of EU Economy	
BA Course	<p>Name: Foreign economic activity of enterprises</p> <p>Short Description: The market economy gives ample opportunities for development of foreign economic relations of the RA with foreign partners, implementation of all forms of foreign economic activity of the domestic enterprises. In this regard the important questions are formation of foreign economic relations, organization of foreign economic activity, it's regulation. Within this course objects of studying are managing methods in world economy. Studying subject – the theory and practice of the organization and implementation of foreign economic relations. The subject is taught as independent specialized discipline. It is closely connected with other economic disciplines and is a component of the general economic educational system.</p>	<p>Name: Lilya Surname: Avetisyan Phone: +374 91 701896 Email: likaavetisyan@yahoo.com</p>
BA Course	<p>Name: International Economic Relations</p> <p>Short Description: This course provides an introduction to economic relations among countries. The course is primarily designed for international studies majors, but is also appropriate for economics or business science majors seeking a comprehensive overview of international economics. The program studies the underlying determinants of trade in goods, services and capital among countries along with the policies that nations often use to influence such trade. It also explores the theory and practice of international macroeconomics and problems of coordinating macroeconomic policies among countries. One feature of the course includes understanding the usefulness (and limitations) of game theory for explaining international economic interactions.</p>	<p>Name: Hovhannes Surname: Yeritsyan Phone: +374 91 661 355 Email: yer.hovhannes@yahoo.com</p>
MA Course	<p>Name: Penetration testing</p> <p>Short Description: Involves simulating real attacks to assess the risk associated with potential security breaches. Footprinting and information gathering. Determine the actual risk to the confidentiality, integrity, and availability of a company's systems. Basics of using Kali Linux and Linux operating systems for testing computer system security. Using the Metasploit Framework. To identify, detect, and</p>	<p>Name: Tigran Surname: Kostanyan Phone: +37493964300 Email: tigranko@mail.ru</p>

	<p>exploit any vulnerabilities uncovered in the target network environment. Applying an appropriate testing methodology equipped with well-defined business objectives and a scheduled test plan will result in the robust penetration testing of computer network.</p>	
MA Course	<p>Name: The methods and styles of programming Short Description: Introduce modern programming styles and methods to ensure the design of effective programs and reduce the probability of software errors. Explore parallel programming techniques in symmetric multiprocessor systems.</p>	<p>Name: Vahram Surname: Soghomonyan Phone: +37491465334 Email: vsogomonyan@yahoo.com</p>
MA Course	<p>Name: Production Management Short Description: The courses of Production Management provide skills on the subject of the following topics: Objectives of Production Management. Manufacturing Operations and Service Operations. Plant location and layout. Materials handling. Materials management. Production planning and control. Aggregate planning, Master Production Schedule (MPS), Materials Requirement Planning (MRP), Principles of Scheduling.</p>	<p>Name: Hasmik Surname: Hakobyan Phone: +374 99 882464 Email: hakobyan_hasmik@yahoo.com</p>
MA Course	<p>Name: Economic Diplomacy Short Description: Economic diplomacy was present from its origin in foreign policy. It is the predominant mechanism of fruitful achievement of the trade and economic relations based on the bilateral and multilateral levels. It is an instrument for development of effective cooperation between the countries and regions at the global level. The priority of economic interests is a result of cooperation between the countries in spite of the differences existing between them, caused by various ways of economic development, effectively overcome and promote development of stronger social, economic and political mutual relations in the world. This subject is covered the following fields: the role of economical diplomacy is irreplaceable in period of globalization, the tools of implementing of economic diplomacy, the ways of assessment economic diplomacy efficient.</p>	<p>Name: Armen Surname: Jughuryan Phone: +374 95 097170 Email: Jarmen1@yandex.ru</p>

<p style="text-align: center;">MA Course</p>	<p>Name: International Commercial Negotiation Short Description: In the conditions of the market relations effective activity in the sphere of business is more caused by signing of contracts between the cooperating parties. It is undoubted that in safe signing of contracts between interested parties the essential role plays precontractual negotiation process. Negotiations are the most well-trying remedy of overcoming of disagreements and achievement of the planned purpose. The success of negotiations is also caused with observance of the international requirements represented to communications skills by negotiators. Present economic and social situation assumes a certain psychological training of specialists of the international business sphere, knowledge of the moral principles and norms of business communication, preparation and a negotiating order which it is possible to comprehend within studying the discipline “The international commercial negotiations”.</p>	<p>Name: Lilya Surname: Avetisyan Phone: +374 91 701896 Email: likaavetisyan@yahoo.com</p>
<p style="text-align: center;">MA Course</p>	<p>Name: International currency and loan relations Short Description: The discipline is about the entity of currency systems, currency convertibility, the evolution of monetary system, foreign exchange markets, exchange rates, international loan relationships, foreign exchange and loan risks, international financial, Eurocurrency and gold markets, monetary policy, the theories of exchange rates are explored in the science of international currency and loan relations.</p>	<p>Name: Misak Surname: Avagyan Phone: +374 77 499070 Email: misakav@rambler.ru</p>
<p style="text-align: center;">MA Course</p>	<p>Name: International Marketing Short description: The objective of the program is to provide an understanding of the complex environment in which international marketing takes place and the ways companies deal with these issues. The program caters for students who enjoy intellectual challenges. The course will focus on presenting the international marketing management concepts and the key elements of the marketing mix in the global marketplace. The impact of the economic, political, legal, cultural and financial environment on firms’ marketing decisions will be examined, and foreign market entry methods analyzed with a view to provide participants to take sound international marketing decisions. It</p>	<p>Name: Hovhannes Surname: Yeritsyan Phone: +374 91 661 355 Email: yer.hovhannes@yahoo.com</p>

	encourages students to cross disciplinary boundaries, engage with tough challenges, invite creativity, and lead inclusive futures.	
PhD Course	<p>Name: Research methodology and tools</p> <p>Short Description: Justification of the relevance of the chosen topic. Setting goals and specific objectives of the study. Determination of the object and subject of study. The choice of method (procedure) of the study. A description of the research process. Discussion of the results of the study. Draw conclusions and evaluation of the results.</p>	<p>Name: Vahram Surname: Soghomonyan Phone: +37491465334 Email: vsogomonyan@yahoo.com</p>