

State Engineering University of Armenia (Polytechnic)



Reform of Education THru INternational
Knowledge exchange (RETHINKE)

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State Engineering University of Armenia is the legal successor of Yerevan Polytechnic Institute: one of the leading engineering schools of the former Soviet Union

- SEUA (former Yerevan Polytechnic Institute) is the incontestable leader in technical education of RA
- During 80 years since its establishment SEUA has given more than 117,000 graduates
- The graduates have formed RA's
 - main engineering manpower
 - scientific technical community
 - industrial leadership



The University at a glance - 1

Yerevan Polytechnic Institute (YPI) was founded in 1933 having only 2 departments and 107 students.

In 1980-1985 reached its peak with about 25000 students and more than 66 majors, becoming the largest higher education institution in Armenia.

On November 29, 1991, the Yerevan Polytechnic Institute was reorganized and renamed State Engineering University of Armenia (SEUA).

In 2005, by the Resolution of the RA Government the traditional name “Polytechnic” was returned to the University as an acronym.

The University at a glance - 2

The Central Campus of the University is located in Yerevan and the Branch Campuses - in Gyumri, Vanadzor and Kapan.

The University has affiliated high schools in Yerevan and Regional Campuses, aimed at recruiting future gifted students from schools.

4 study programs of vocational, higher and post-higher professional education, conferring the qualification degrees of junior diploma specialist, bachelor, master and researcher (PhD).

The University also offers extended education courses by means of its faculties and a network of continuing education structures.

45 Bachelor's and more than 36 Master's majors in Engineering, Industrial Economics and Management, Applied Mathematics and Industrial Sociology.

The University at a glance - 3

At present over 10 thousand students following 4 degree programs, more than 100 foreign students studying in English and Armenian language groups.

In addition, over 800 learners at the SEUA central and regional affiliated high schools.

The academic staff of the University exceeds 900, most of them with Degrees of Candidate or Doctor of Science.

With its developed research system and infrastructure the University is nationally recognized as the leading center in technical sciences and technologies.

The University at a glance - 4

The University is a member of:

- **European Universities Association,**
- **Black Sea Universities Network,**
- **Technical Universities Association of RF,**
- **Network University of CIS countries,**

was and is involved in:

many European and other international research and educational programs (TACIS, Tempus, Erasmus-Mundus, DAAD, NISCUPP, OSF, INTAS, USAID, NATO Science, NATO Networking, FP- 6,7, etc.).

Central Campus in Yerevan

- Chemical Technologies and Environmental Engineering
- Electrical Engineering
- Machine Building
- Mining and Metallurgy
- Cybernetics
- Power Engineering
- Radio Engineering and Communication Systems
- Computer Systems and Informatics
- Transportation Systems
- Applied Mathematics
- Mechanics and Machine Study
- Correspondence Education

The faculties of State Engineering University of Armenia



Dean of faculty Prof. Ph.D. Artashes Tadevosyan,
chemdep@seua.am

The faculty of Chemical Technologies and Environmental Engineering

The chair of Ecology and Biotechnology

- Head of chair, Prof. D.Sc. Serjik Sargsyan,

Specialization

- Environmental Engineering
- Biotechnology
- Food Technologies

Degree / Duration / ECTS

1st Cycle Degree , Bachelor Degree/ 8 semesters / 240 ECTS

Degree / Duration / ECTS

2th Cycle Degree, Master Degree / 4 semesters / 120 ECTS

Degree / Duration / ECTS

3th Cycle Degree, PhD / 6 semesters / ECTS

Chair of Ecology and Biotechnology

Analysis		Internal origin		External origin	
		STRENGTHS Helpful to achieving the objective	WEAKNESSES Harmful to achieve the objective	OPPORTUNITIES Helpful to achieving the objective	THREATS Harmful to achieve the objective
Course content	Master degree	The competencies correspond with a competencies of curricula of European Higher Education Institutions	The training programs are not correspond with employers' requirements	The possibility of accreditation of educational programs at the national and international level	The limited possibility for inviting leading and foreign experts
	PhD degree	Mandatory peer review of curricula and subject programs	Insufficiently equipped laboratory facilities for curriculum	Expansion of international relations	Leakage of highly qualified young staff
Duration, months	Master degree	The learning process duration for masters correspond with a learning process duration of European Higher Education Institutions	Lack of practice during the learning process	Expansion of international relations using the inter-university agreements	Not enough interest and participation in the implementation and improvement of educational programs by employers
	PhD degree	The optimal period of study	Insufficiently equipped laboratory facilities which can be the cause of prolongation of the thesis defense	Increased demand of occupations in the labor market	The brain drain. The young specialists go away after the thesis defense
Number of credits, ECTS	Master degree	The same ETCS between SEUA and other European Higher Education Institutions	Shortage of some items in the curriculum	Continuous improvement of the conditions for education and training in line with the Bologna requirements	Lack of knowledge of students on Second Language, that may hinder their participation in the International exchange programs
	PhD degree	Years of experience in the educational process by ETCS	The ETCS for PhD are not match with ETCS for PhD in European Higher Education Institutions	The possibility of cooperation with employers on the basis of the signed contracts	Instability of the current labor market negatively affects the demand of training programs

The SWOT analysis of the Curricula in specialization of Environmental Engineering

Accreditation on the national level***

Name of institution responsible for the accreditation	National Centre for Professional Education Quality Assurance Foundation (ANQA)
Requested documents for the accreditation	<p>The TLIs intending to apply for institutional audits and/or to submit their programmes to ANQA for validation are advised to submit details of their quality assurance policy and procedures, in advance of their first submission for institutional audit/programme validation. The application should address all matters referred to in Internal Quality Assurance part of this document. It should include a quality assurance manual and such documentation as is required to demonstrate compliance with ANQA requirements, in particular in relation to the experience of the operation of the quality assurance procedures.</p> <p>While evaluating institutional and academic programme effectiveness the expert panel will take the following main documents as a point of departure:</p> <ul style="list-style-type: none">• Licensing criteria and standards set by the Ministry of Education and Science• Institutional charter• Institutional strategic plan approved by the Governing Board• The self-assessment• Stakeholder feedback
Procedure for the accreditation	<p>According to international good practices, external QA procedures are evolving in three phases:</p> <ul style="list-style-type: none">• Self-evaluation by the unit undergoing an external QA procedure• On site visit by a group of trained external experts• Decisions based on the results of the first two phases and publication of results
Expected duration for the accreditation process to be completed	The period of accreditation is according with set deadline.

***The HEIRs of RA can have accreditation on national level without Joint Degree

Accreditation on the national level

What are SEUA tasks within this project

- SEUA will act in a close cooperation with its partners ensuring professional approach to the project academic tasks solution.
 - SEUA will also actively participate in all trainings, workshops and conferences foreseen within the project.
 - Being well experienced in TEMPUS projects, SEUA will fully contribute to needs assessments, as well as to the project management and disseminating the project results.
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Thank you for attention
