PLO Implementation and Future Skills –Case of Georgia
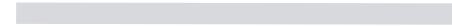
Prof. Dr. Goderdzi Buchashvili

2024

Content

- National Qualification Framework

- Sectoral Benchmarks

- Guidebook

- HEI`s practices

- Future Skills

PLOs due to NQF

Knowledge and understanding	Skills	Responsibility and autonomy
• Deepness	• Complexity	• Quality

Levels of Qualification =8

Sectoral Benchmarks

Learning Outcomes

Qualification to be awarded

Teaching, Learning and Evaluation

Stakeholders

Academic Experts for HEIs

Employers

Associations

National Center For Educational Quality Enhancement

Enter search key

FAQ

Who We Are ∨   What We Do ∨   Who We Work With   Public Information ∨   Appeal Council ∨   Contact

Home > Higher Education Sector Benchmarks

Higher Education Sector Benchmarks

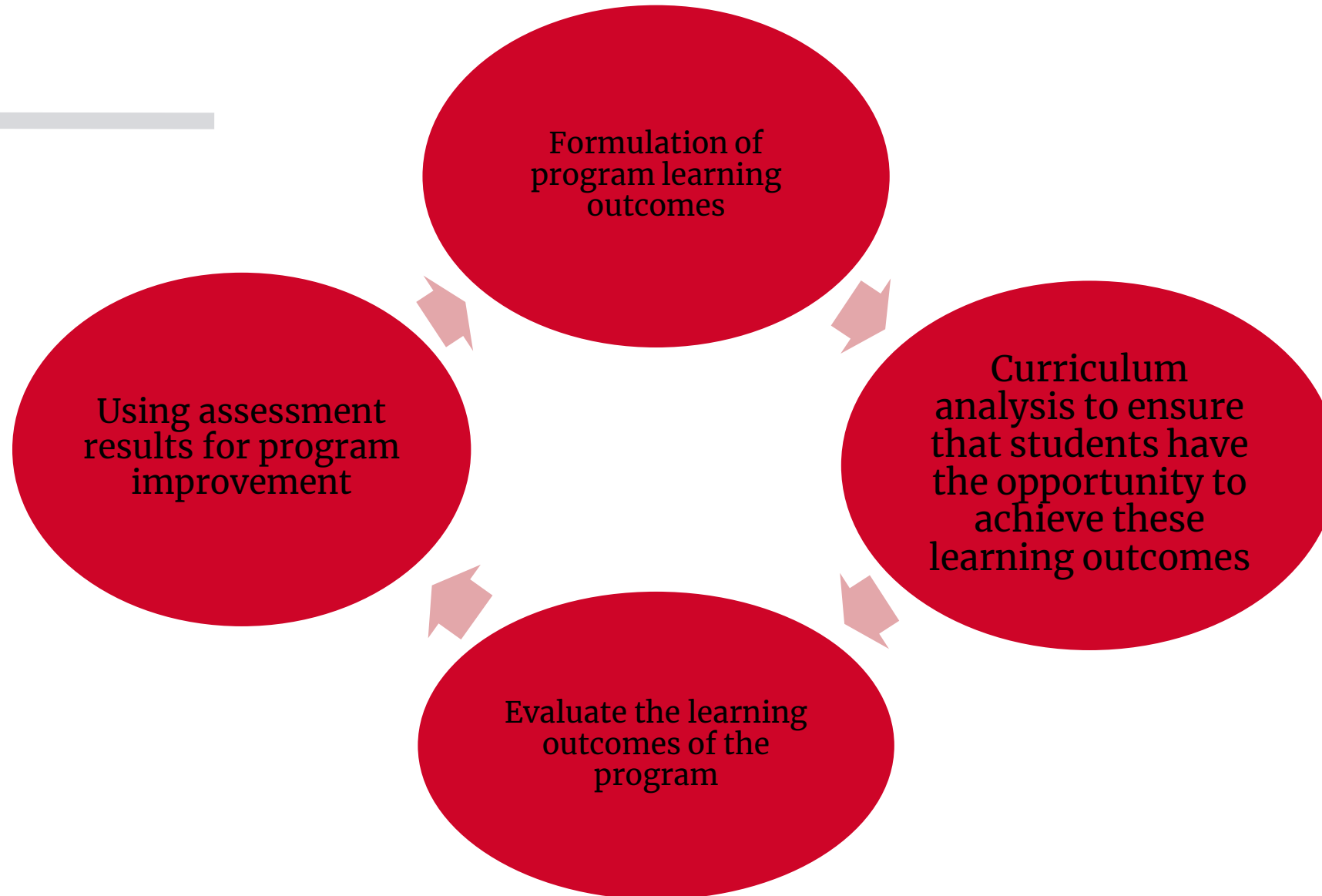| Education	Arts, Humanities	Social Sciences, Journalism and Information
Business, administration and law	Natural sciences, mathematics and statistics	Information and communication technologies
Engineering, Manufacturing and Construction	Agriculture, forestry, fishing, veterinary medicine	Health care, social welfare
services	Archive	

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Stages of Evaluating PLOs

Formulation of program learning outcomes

Curriculum analysis to ensure that students have the opportunity to achieve these learning outcomes

Evaluate the learning outcomes of the program

Using assessment results for program improvement

Programs goals and LOs

Program Goals	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
a	✓		✓		✓
b				✓	
c	✓				
d			✓		✓
e	✓				✓

Practice

Mapping program objectives and learning outcomes

PLOs	Program Objectives To give the student the opportunity to get a broad knowledge of the field of electronics and automation, which through research programs prepares a ___ for further studies in the mas___ gree and/or work with the received qualification.	The student will acquire knowledge based on the fundamental theories and principles of mathematics, electronic and computer engineering, which will enable him to plan, design and develop electronic and computer systems and devices.	To prepare high-level, competitive specialists with the broad theoretical knowledge and practice-oriented, transferable skills necessary for professional activities in the field of modern electronics and automation.
Describes the basic concepts of electronics and computer engineering. Explains the theoretical aspects of the field based on a broad theoretical knowledge of mathematics, physics and engineering.	X	X	
Describes the principles of computer system and network operation and security.		X	
Develops, selects and uses electro-technical system and software to solve complex engineering tasks.		X	X

PLO of the study course mapping to PLO to the program.

Study course	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
a	1		1		1
b					
c	2				2
d			2		2
e	3				3

1 – Introduction; 2 – deepening; 3 – Reinforcement

Practice

PLOs	Introduction to Education Studies (6 ECTS.)	Research with qualitative methods (6 ECTS.)	Research with quantitative methods (6 ECTS.)	Pedagogical practice research(6 ECTS)	Master thesis (18 ECTS)
Is familiar with current trends and positions in scientific discussions in educational sciences;	X				
Able to analyze and critically evaluate current trends and scientific discussions in the science of education.		X			X
knows the latest research methods in the science of education;					
Depending on the specificity of the research issue, can select the appropriate research method, create / find / adapt the relevant tool, carry out field work, analyze the results and develop recommendations;		X	X	X	X

Practices

Relationship Program Learning Outcomes and Courses and the levels of assessment and achievement

PLO N 1	Describes the basic concepts of electronics and computer engineering. Explains the theoretical aspects of the field based on a broad theoretical knowledge of mathematics, physics and engineering.
Assessment Indicators	• · Uses general principles of computer systems operation and programming. • · Uses knowledge about the potential capabilities of communication systems. • · Uses knowledge about semiconductor processes. • · Uses methods of electric circuit theory. • · Uses the working principles of electrical and electronic components.

The rubric of evaluation indicators

Assessment Indicators	Levels of assessment			
	Unsatisfactory (0-50 Points)	Satisfactory (51-70 Points)	Very good (71-90 Points)	Excellent (91-100 Points)
Uses general principles of computer systems operation and programming	It is difficult to apply the principles of computer network and systems operation	More or less uses the general principles of computer systems operation and programming.	Uses the general principles of computer systems operation and programming well enough	Uses general principles of computer systems operation and programming very well
Uses knowledge about the potential capabilities of communication systems	It is difficult to use the potential possibilities of communication systems.	More or less uses knowledge about the potential possibilities of communication systems	Uses knowledge about the potential capabilities of communication systems well enough	Uses knowledge about the potential capabilities of communication systems very well

Future Skills

Data Analytics and Interpretation

Transnational and Cross-Cultural Competence

Sustainability and Environmental Awareness

E-commerce and Digital Marketing

Adaptability and Resilience

Remote Collaboration

Artificial Intelligence and Machine Learning

Digital Literacy

Cybersecurity

Health and Well-being

Main Challenges

HEIs - Employers Collaboration needs to be

more intensive and on the large scale

Communication and understanding

Involve employers in the educational process
and
offering benefits and services

Employers suggestions

Ability to understand the organizational environment and perceive the specifics of the business

A systemic view of the organization

Perceiving the entire chain and understanding the connections between processes in the organization

The ability to perceive and adapt to the culture of the organization

Ability to delegate responsibilities when working in a team

Ability to manage a team and ensure the involvement of team members

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Thank You!