



*National Mining
University: QA experience*

*National Mining University:
Structure and Functionality of
Internal QA*

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2016



National Mining University

■ Students	5795
■ Teachers	771
■ Graduation specialties	53
■ Institutes	4
■ Faculties	9
■ Departments	52
■ Scientific councils	7
■ International partners	118



Education Quality Assurance Framework at the University Level

**DEVELOPMENT STRATEGY FOR
STATE HIGHER EDUCATIONAL INSTITUTION
“NATIONAL MINING UNIVERSITY”
(2015-2025)**

<http://www.nmu.org.ua/ru/content/activity/programaroz/>

**PROGRAMME
For the Development of State Higher Educational Institution
“National Mining University”
Up to 2025**

<http://www.nmu.org.ua/ru/content/activity/programaroz/>



Strategic Directions

1. **Formation of a socio-cultural motivational university environment that promotes the professional growth of employees, provides high quality education, acquires new knowledge and transmits it to students, and encourages the dynamic development of research and innovation.**
2. **Development of the legal and regulatory framework of the university for implementing the Law of Ukraine “About Higher Education,” achieving academic, organizational and financial autonomy, democratizing the governance systems, and improving social protection of students, teachers and employees.**
3. **Formation of a model for university activities based on a combination of education, science and innovation while ensuring integration with the international scientific and educational community.**
4. **Development of the logistic, financial and resource support for science and education in the university.**



Regulatory Support for the Quality of Education

- *Quality assurance policy of State Higher Educational Institution “NMU.”*
- *Activities on modernization of the internal quality assurance in Higher Educational Institution “NMU,” approved by the Rectorate (Minutes No. 3 dated 26/01/2015) and enacted by the Rector’s order dated 27/01/2016 No. 4.*
- *The regulation on recognizing and monitoring the ability of the department to initiate and carry out educational activities in accordance with license conditions approved by the Academic Council of SHEI “NMU” dated 05/04/2016, Minutes No. 4 and enacted by the Rector’s order dated 24/05/2016 No. 32.*
- *Standard “Designing the Educational Process” of SHEI “NMU.”*
- *Regulations about the organization of educational process.*



University Standard

“Designing Educational Process”

- **education programme;**
- **work programmes of various disciplines including practical classes and individual tasks;**
- **training and methodology is supported by different types of learning activities engaged in by the applicants;**
- **timetabling and scheduling;**
- **synopsis of the curriculum;**
- **applicant's individual study plan;**
- **staffing plan to facilitate the educational process.**



Regulations regarding the Organization of the Educational Process

Governs:

- various forms of education;
- the system to ensure quality educational activities;
- students' academic rights as well as the rights and duties of researchers and teachers;
- activities of the supervisory institute;
- planning timetables and scheduling for the teaching staff.



Quality Assurance Policy of State Higher Educational Institution “NMU”

- **Teaching and learning**
- **Research**
- **Society services**
- **Services to assist students**
- **Management and administrative services of the
institution**
- **Quality dynamics**

Quality Assurance in Teaching and Learning

First Vice Rector

Deans

- Evaluation of the content of the subjects programs with the requirements
- The structure and scope of specialists training by specialties
- Awareness of students:
 - evaluation strategy applied to curriculum;
 - examinations or other assessment methods to be applied to them;
 - criteria used in the assessment of their performance.

Department of Education

- University standards, specifying the planning, organization and implementation of the educational process
 - Report on the availability and sufficiency of learning resources
 - Report on the implementation of procedures:
 - approval of educational programs;
 - monitoring achievements of students;
 - review of programs (involving external experts);
 - interaction with the labor market;
 - student participation in quality assurance.

Humanitarian Council

- Report on the participation of students and other stakeholders in the provision of educational services
- Assessment of the availability of educational resources for students
- Availability of student support services

Centre for Sociological audit

- Promulgation of information about:
- students achievements and their success rates;
 - graduates opportunities to get a job;
 - students satisfaction of the training programs;
 - effectiveness of teachers work;
 - the type of student contingent;
 - available learning resources and their cost;
 - key indicators of the educational institution activities;
 - feedback from former students about their employment;
 - the results of monitoring student satisfaction with the quality of education being received

Heads of Department

Science and Research Department

Information and Computer Complex

Human Resources Department

Officials at the authority

Approval, Monitoring and Periodic Reviews of Education Programmes

	Academic staff	Administrative staff	Leadership, institutional level	Leadership, faculty/department level	Students	External stakeholders	Graduates
Through formal participation in governance bodies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Through formal participation in consultation bodies.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Through formal involvement in self-evaluations or other evaluation activities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
By informally providing information on the issues at stake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
By responding to the surveys on a regular basis (e.g. at the end of each course, academic year...)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
They are not involved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Approval, Monitoring and Periodic Reviews of Education Programmes

Structural and logical scheme to design the educational process

Document title	Project features of the document	Developers
I. Higher education standard at a certain level and specialization	<ul style="list-style-type: none"> ○ regulation of the subject area of study (objects of study, learning objectives, methods, techniques and technologies, tools and equipment); ○ regulation of normative learning outcomes; ○ regulation of the amount of educational program; ○ regulation of candidates certification form 	Subcommissions of Scientific and Methodical commissions of Scientific and Methodological Council of MES of Ukraine
II Educational program	<ul style="list-style-type: none"> ○ formation of learning normative part through sharing program learning outcomes across disciplines, practices, individual tasks; ○ formation of learning selective part; ○ title substantiation of disciplines, practices, individual tasks; ○ volume normalization of disciplines, practices, individual tasks; ○ regulation of the forms of subjects final control; ○ distribution of disciplines among departments; ○ construction of structural and logic scheme of educational process implementation 	Methodical commission on specialty



Structural and logical scheme to design the educational process

Document title	Project features of the document	Developers
III Learning program of disciplines, practices, individual tasks	<ul style="list-style-type: none"> ○ decomposition of educational program learning outcomes in disciplinary learning outcomes; ○ discipline content selection by the criterion of "disciplinary learning outcomes"; ○ distribution of discipline volume by types of classes; ○ definition of the information database to create diagnostic tools; ○ requirements for complex of the educational and methodological discipline support; ○ regulation of methods and criteria for evaluation of applicants educational achievements in the discipline 	Departments
IV Complex of the educational and methodological support of applicants learning activities	<ul style="list-style-type: none"> ○ implementation of technological requirements of applicable license terms 	Departments

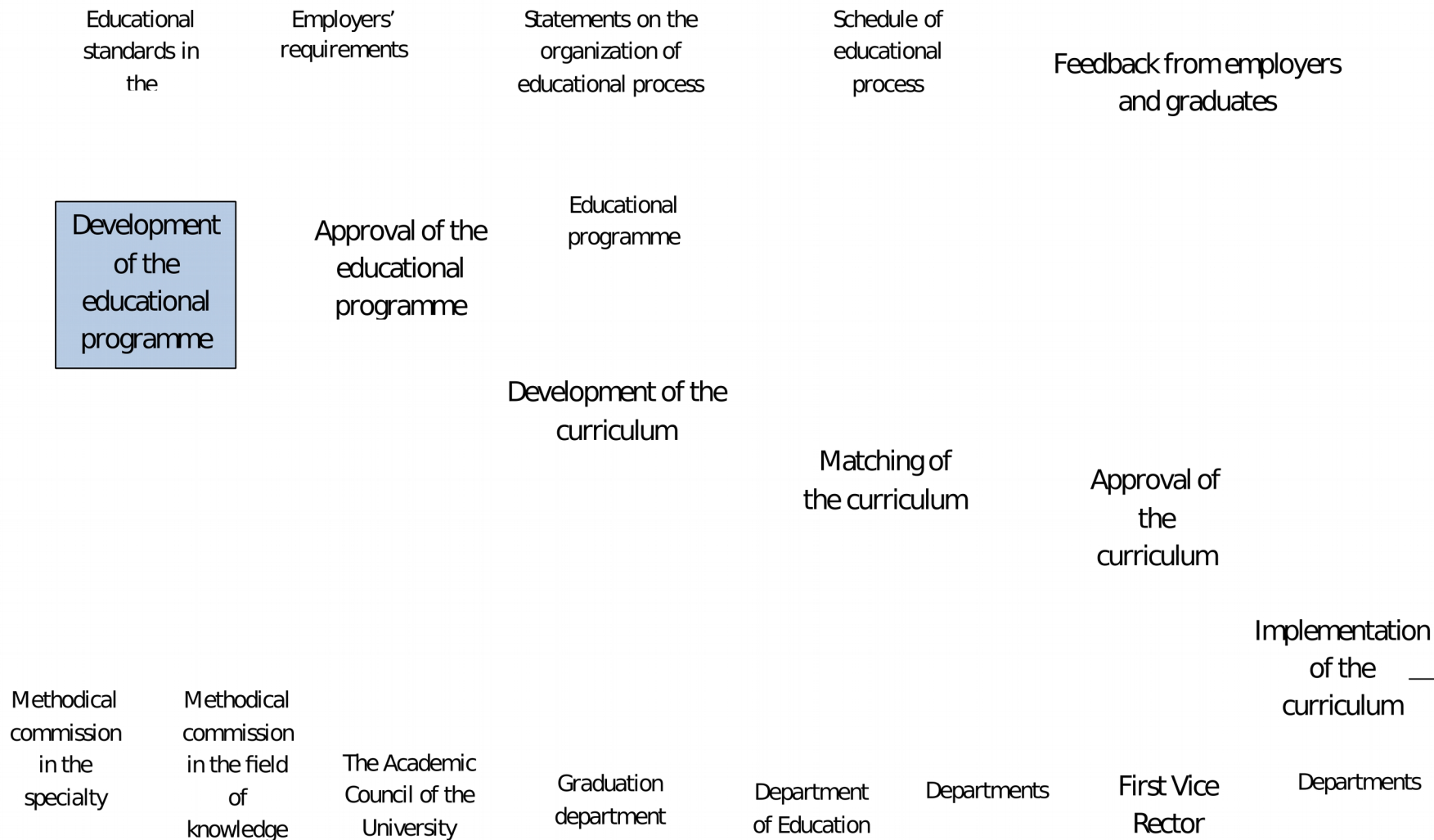


Structural and logical scheme to design the educational process

Document title	Project features of the document	Developers
V Schedule of educational process	<ul style="list-style-type: none">○ sharing all applicant learning activities on the calendar	Educational Department
VI Curriculum	<ul style="list-style-type: none">○ centralized distribution of training sessions, independent work, practices, control measures applicants on schedule of the educational process;○ centralized standardization of titles and scope of general field courses of related specialties	Laboratory for planning and organization of educational process
VII Individual applicant curriculum	<ul style="list-style-type: none">○ reflection of the applicant free choice of specialization and certain academic disciplines (selective part of the educational program)	Deanery



Approval, Monitoring and Periodic Reviews of Education Programmes





Student Assessment

Evaluation criteria is the level of student achievement in mastering the material of the lecture module.

$$P_i = a / m$$

where a is the number of correct answers; m is the total number of questions.

The following ratio (%) is based on determining the integral level of performance achieved in the laboratory modules:

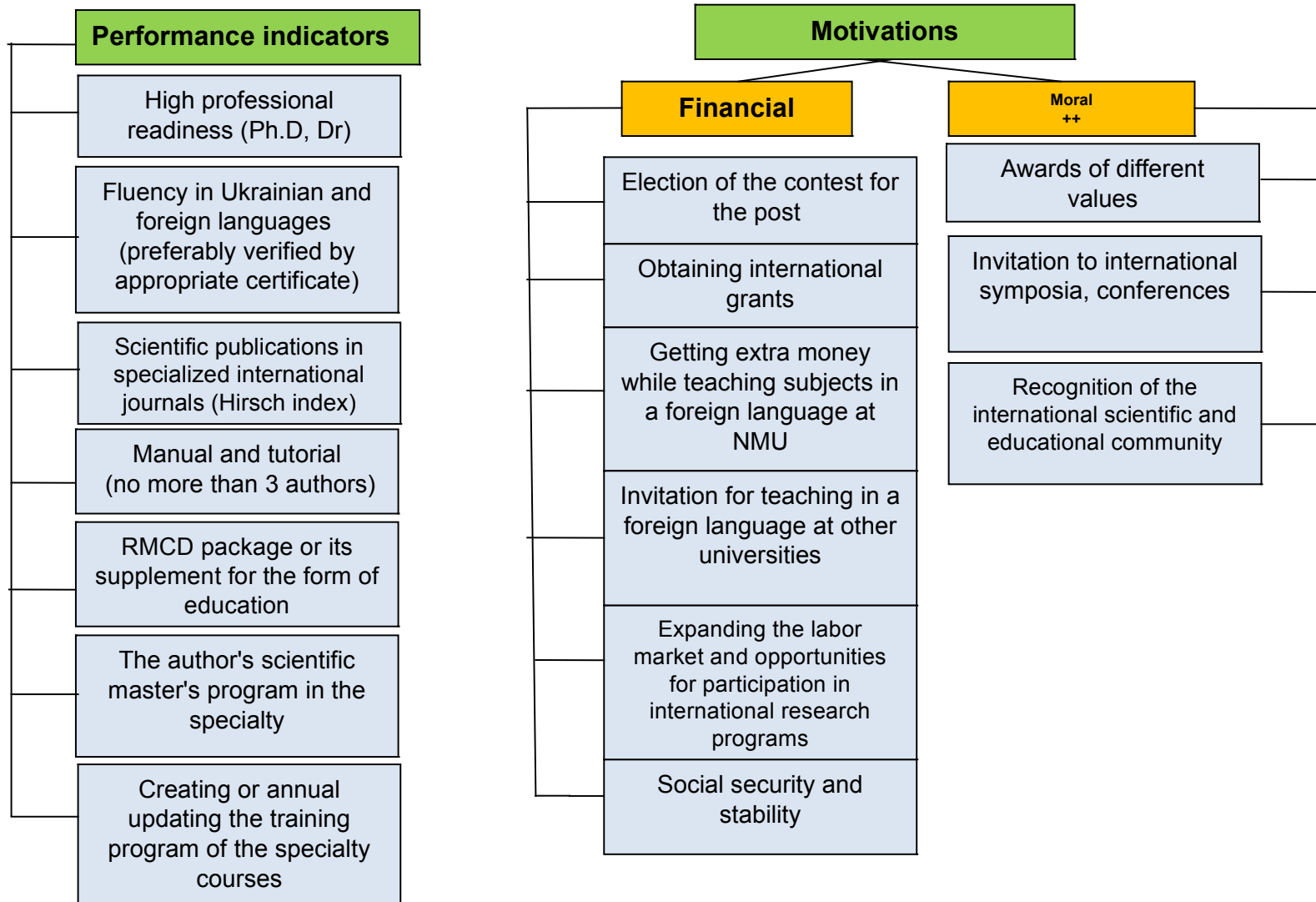
$$IP = \sum_{i=1}^n (P_i \times T_i) / T$$

where n is the number of laboratory classes which form the module; P_i is the level of achievements for the lab i , %; T_i is workload of the lab i ; T is the total workload for the laboratory module.

Guidelines for creating the level of educational competencies and examples of their diagnostic tools, criteria and evaluation procedures are presented in the "Regulation on the Creation of a Complex for Training and Information Resources about Disciplines," which was approved and enacted by the Rector's order.

Quality Assurance of Teaching Staff

Components of employee's «Career lift»





Learning Resources and Student Support

Academic Student Support

- *Number of computer workplaces* **1,697**
- *Number of computer workplaces with Internet access:* **1,697**
- *The total book collection:* **1,199,698**
- *E-catalogue of the library 600,000 records (80 % of traditional catalogue)* **600,000 records (80 % of traditional catalogue)**
- *E-reading room articles* **2,184 items**
- *Online publications* **623**



Learning Resources and Student Support

Non-academic Student Support

- *Total square meters of educational and laboratory facilities* 7,1393 m2
- *Number of students who need (use) dormitory places* 2,584 (2,584)
- *Number of places in canteens at the university* 652
- *Number of places in canteens at the dormitories* 82
- *Number of places in retreat houses for relaxation* 75
- *The Centre of Healthy Lifestyle*
- *The Centre of Social and Psychological Support*
- *The Centre of Legal Support.*

Information System





Information System

- student progress and success rates;
- ratio of teachers and students at the faculty (department);
- information about students (age, gender, education, social and cultural level, etc.);
- training programmes in individual specialities;
- annual curriculums;
- individual educational plan for each student;
- distribution of students and teachers to their various disciplines.

Information System

КРЕДИТНО-МОДУЛЬНА ОРГАНІЗАЦІЯ НАВЧАЛЬНОГО ПРОЦЕСУ. СТВОРЕННЯ НАВЧАЛЬНОГО ПЛАНУ

Спеціальність 6.124 Системний аналіз 124-16-1 Рік створення плану 2016 Навчальний рік 2016-2017

Форма виводу: загальна за курсом 1

Каф. Системного аналізу та управління

Вибір: ОСНОВА РОЗРАХУНКУ ПЛАНІВ - ЗАЛКОВИЙ КРЕДИТ
 Національний - 54 акад. год. ECTS 30 акад. год.
 Бакалавріє Спеціалістіє Магістріє

Форма навчання: звичайна скорочена

Графік учебного процесу Формування навчального плану План за курсами Робочий(річний) план (можливий) Контрольні заходи

Дисципліни: Нормативні За вибором ВНЗ За вибором студента

Оберіть цілкі дисципліни Цикл гуманітарної та соціальної підготовки

Дисципліни, за якими не введ. показати не пог. Перевірка планів 2016-2017 н.р.

УВАГА! Дисципліна "Додаткове навчання" ("Військова підготовка") планується як позакредитна (вар. №2)

НАВЧАЛЬНИЙ ПЛАН

Підписано Не підписано

Дата підпису 15.07.2016 дра

Змінити кафедру Змінити заліки на диференційовані

Дисципліна	Обсяг дисципліни (час на засвоєння)				Контроль підсумк. чверть	Аудиторне н.	Навчальні заняття						Контрольні заходи		KLUCH
	години		кредити				всього	разом	лекції	лабораторні	практичні/сеінарні	всього	частка		
	загальні	річні	ECTS	національні											
Історія та політичної теорії	90	90	2.50	1.67	3:	21	18	12		6	3	69	0.76		
Історія та політичної теорії	90	90	2.50	1.67	1:	21	18			18	3	69	0.76		
Іноземних мов	180	180	5.00	3.33	4:	87	75			75	12	93	0.51		
Всього:	450	450	12.50	8.33		171	147	12	0	135	24	279			

Курс	семестр	Номер чверті	Кількість тижнів у чверті	Час на чверть	Дисципліна	годин на тиждень				у відомостях		Кількість контрольних заходів						KLUCH	
						Лекції	Лабораторні	практич./сеінарні	Контрольні зах.	Вид контролю	Форма контролю	КМР	РФ	РГ	ЛР	КП	ПП		РЗ
1	1	1	6		Історія українського суспільства													3047	
		2	6															3047	
	2	3	6	90		2		1	3		0	1	1					3047	
		4	7															3047	
				90															

Додати Копіювання Відмінити Вилучити ЕКСПОРТ В ЕХСЛ Розподілити час на засвоєння за роками Роки створення річних планів за курсами Вихід



Issues

1. **The absence of a unified structure to implement procedures that would ensure quality education;**
2. **Poor motivation of students in the improvement of the educational process;**
3. **Lack of communication with employers and alumni.**