

“APPROVED”

Rector
of Lviv Polytechnic
National University

_____ Yu. Ya. Bobalo
Order No _____
« ____ » _____ 2021

Temporary Regulations on the Procedure for Planning and Estimating the Effectiveness of the Research and Educational Employees of Lviv Polytechnic National University

1. GENERAL PART

- 1.1. A Temporary regulation on the procedure for planning and estimating the effectiveness of the research and educational employees of Lviv Polytechnic National University (hereinafter referred to as Regulation) has been developed in accordance with the Laws of Ukraine “On Higher Education”, “On education”, “On scientific and scientific and technical activities”, the Regulation on rating of departments of Lviv Polytechnic National University, other regulatory legal acts of Ukraine and regulatory documents of University.
- 1.2. The aim of planning and estimating the effectiveness of activity of research and educational employees (hereinafter referred to as REE) of Lviv Polytechnic National University (hereinafter referred to as University) is a motivation of improving the effectiveness of their activity in the context of fulfilling the “Strategic Plan of the Development of Lviv Polytechnic National University by 2025” confirmed by Academic Board of University (minutes №53 on 26.03.2019) and realization of the “Concept of educational activity of Lviv Polytechnic National University” confirmed by Academic Board of University (minutes №10 on 25.02.2015), particularly in the spheres of intensifying international cooperation and integration to international educational and scientific space, increasing education quality and providing innovation direction of research.
- 1.3. Introduction of estimating the effectiveness of activity of REE and Departments of University is the integral part of internal system of providing the quality of educational activity and the quality of higher education of University, stimulation of advance training, professionalism, effectiveness of scientific and educational activity, development of creativity and initiative of REE.
- 1.4. The basis of planning and estimating is the calculation of an integral factor reflecting effectiveness of REE in following directions: staff capacity, educational activity, research activity and international academic cooperation.

2. THE ORDER OF PLANNING THE ACTIVITIES OF RESEARCH AND EDUCATIONAL EMPLOYEES

- 2.1. Planning of the work of REE of the department is realized at the beginning of the calendar year according to the order of the standard form (Annex 1).
- 2.2. Work planning is obligatory for full-time REE of University.
- 2.3. The Head of the department coordinates the process of determining the planned values of factors of REE effectiveness for the calendar year.
- 2.4. Working time includes the time of carrying out educational, methodological, research and organizational activities and other duties.
- 2.5. Planning the REE work includes considering the relative indices of effectiveness I_{jin} given in Annex 2; the total of relative indices of effectiveness for planned working activities should be not less than 100%.

3. THE ORDER OF ESTIMATION OF EFFECTIVENESS OF RESEARCH AND EDUCATIONAL EMPLOYEES

- 3.1. The methodology for estimating the effectiveness of REE activity consists in determining the Integral effectiveness index, which aggregates the indices of subject areas. The indices of subject areas are integral according to the subsystems of standard relative indicators.

Areas and totality of indicators serving for estimation correspond to “Regulation of rating the departments of Lviv Polytechnic National University”.

- 3.2. Every j -th subject area (Annex 2) is characterized by the number m_j of relative indicators, in particular:

$j = 1$ is a subject area “staff capacity”, $m_1 = 8$;

$j = 2$ is a subject area “educational activity” $m_2 = 6$;

$j = 3$ is a subject area “research activity”, $m_3 = 11$,

$j = 4$ is a subject area “International academic cooperation”, $m_4 = 4$.

Relative indicators include categories whose number for the i -th indicator is p_i .

- 3.3. *Stage 1. Determining standard values of relative indicators* K_{jin}^{cm} within each subject area is carried out by a formula:

$$K_{jin}^{cm} = \frac{K_{jin} \cdot k_{jin}}{N_{ji}^{num}}, \quad (1)$$

where K_{jin} is a value of the i -th relative indicator of the n -th category for the j -th subject area;

k_{jin} is a weight coefficient for the n -th category of the i -th relative indicator within the j -th subject area; the weight coefficients k_{jin} are given in Annex 2 and have been determined by experts;

N_{ji}^{num} is a normative specific value of i -th relative indicator for the j -th subject area.

Normative specific values of the relative indicators N_{ji}^{num} are given in Annex 2 and determined according to the tasks of Strategic Plan of University Development,

taking into account the number of scientific and/or scientific and educational employees.

The list of the relative indicators, their normative specific values and weight coefficients can be revised according to the changes in the priority aims and tasks of University.

- 3.4. *Stage 2. Determining the effectiveness indices for subject areas I_j* is carried out by determining the sum of standardized values of the relative indicators for each subject area:

$$I_j = \sum_{i=1}^{m_j} \sum_{n=1}^{p_i} K_{jin}^{cm} . \quad (2)$$

- 3.5. *Stage 3. Determining an integral effectiveness index I_{int} (in %):*

$$I_{int} = \frac{\sum_{j=1}^4 I_j}{k \cdot \sum_{j=1}^4 m_j} \cdot 100\% , \quad (3)$$

where k is a coefficient taking into account a part / the number of staff units held by the research and educational employee. For REE holding one or more staff units per academic year, the coefficient k equals 1. For other REE, the coefficient k is calculated by a formula:

$$k = \sum_{e=1}^f \frac{U_e \cdot D_e}{303} , \quad (4)$$

where C_e is a a part / the number of staff units (0,25; 0,5; 0,75; 1,0; 1,25; 1,5 etc.) held by the REE according to endorsed staff lists of educational and research departments and divisions of University;

f is the number of educational and research departments and divisions in which the employee is employed;

D_e is the number of days in academic year for which the REE is employed according to the e -th staff list (it is assumed that the REE works during the academic year from September 1st to June 30th).

- 3.6. If the REE carries out additional activities listed in Annex 3, the value of the relative effectiveness index I_{add} according to additional factors in the range from 1% to 10% is added to the integral effectiveness index I_{int} .

- 3.7. *Stage 4. Rating of the REE by the value of the integral effectiveness index.* It is realized by creating the rating list of employees according to the values of the integral effectiveness index I_{int} calculated by formula (3). In accordance with the rating estimation of REEs they are enlisted to one of three groups:

- 1) value of 100% and more determines the group of REEs with high effectiveness;
- 2) value from 50% to less than 100% determines the group of REEs with medium effectiveness;
- 3) value less than 50% determines the group of REE with low effectiveness.

- 3.8. Automation calculations of effectiveness are realized according to the scheme described in the Regulations on department rating of University.

- 3.9. Information on the effectiveness of the REE activities and department rating is discussed and approved at a department meeting and recorded in the minutes of the meeting according to the pattern given in Annex 4.
- 3.10. The technique provides determining the effectiveness of REE activities at following levels:
- the level of the department (department REEs’ rating);
 - the level of the educational and research institute (ERI REEs’ rating).
- 3.11. Public access is provided to the results of the rating evaluation. The results of the department REEs’ rating evaluation are made public on the department’s Web-page. The rating results of the first 10% of REE of the Institute are published on the Web-site of the institute.
- 3.12. The rating results are used while deciding on:
- allocation of teaching load;
 - moral and material stimulation of REEs.

Vice-Rector for Education
and Strategic Development

_____ Liliia Zhuk

The Head of Laboratory of
Higher Education Institution

_____ Ruslana Kosiv

**Work plan of research and educational employees of the department
for _____ year**

№ ¹	Personal effectiveness indicators	Planned values of personal effectiveness ³		
		Sur-name	:	Sur-name
	Number of staff units held by the full-time ² research and educational employee (REE) / research employee (units)			
1. STAFF CAPACITY				
1.1	Presence of a DSc degree or / and title of Professor			
1.2	Presence of a PhD / candidate of science degree and / or title of Associate Professor			
1.4	Membership in the period under review:			
	–in the scientific and methodical commission of the Ministry of education and science of Ukraine (MESU);			
	–in the expert council of the MESU;			
	–as the expert of the Scientific Council of the MESU;			
	–as the expert of the National Research Foundation of Ukraine;			
	–in The National Agency for Higher Education Quality Assurance (NAQA);			
	–in the NAQA Sectoral Expert Council;			
	–in the permanent specialized academic council			
1.5	Presence of the language certificate at a level not lower than B2 issued by an establishment listed in the Annex to the Regulation on awarding academic titles in Lviv Polytechnic National University			
1.6	Advanced training abroad (within professional activity or branch of knowledge) in the period under review at HEEs, enterprises, establishments along the term of ≥ 5 working days (basing on appropriate orders)			
1.7	Membership in the editorial board of a scientific journal belonging to the international scientific metric database (ISMD) Scopus or Web of Science in the period under review			
	Reviewing a scientific journal belonging to the ISMD Scopus or Web of Science in the period under review			
1.8	Defence of a PhD / Candidate of Science thesis in the period under review			
1.10	Defence of a DSc thesis in the period under review			
1.11	In the period under review being awarded by:			
	– State Prizes (in the branch of science and technology, education, architecture);			
	–grant of the President of Ukraine;			
	–scholarship of the President of Ukraine;			
	–prize of the President of Ukraine;			
	–scholarship of the Verkhovna Rada of Ukraine (VRU)			
	–prize of VRU;			
	–scholarship of the Cabinet of Ministers of Ukraine (CMU);			
	–prizes of CMU;			
–scholarship of the National Academy of Sciences of Ukraine (NASU);				
	–prizes of NASU			
2. EDUCATIONAL ACTIVITY				
2.1	The number of educational and methodological training packages located in virtual learning environment during the period under review and certified (units, considering share of co-authorship)			
2.2	The number of prize-winning places (units) won by day-time students under the guidance of research and educational employees (REE) / research employees (RE) in the period under review in:			
	–II stage of the All-Ukrainian competition among students' research works;			
	–II stage of the All-Ukrainian competition among students' diploma papers;			
	–II stage of the All-Ukrainian Student Olympiad in a discipline and / or specialty;			
	–All-Ukrainian creative competition;			
	–international creative competition;			
	–All-Ukrainian exhibition;			
	–international exhibition;			
	–international Student Olympiad;			

№ ¹	Personal effectiveness indicators	Planned values of personal effectiveness ³		
		Sur-name	:	Sur-name
	–international competition among students’ research works			
2.3	The number of publications in the period under review, recommended by the Research and Methodology Board of University (units, considering share of co-authorship):			
	–tutorials;			
	–textbooks;			
	–workshop manuals;			
	–dictionaries			
2.4	The number of academic disciplines having English-language educational and methodological support and being taught in English in the period under review (units, considering share of co-authorship)			
2.5	Value of assets raised in the period under review for the development of physical infrastructure of the department from sponsors, philanthropists, benefactors, patrons etc. (UAH, considering share of co-authorship agreed with the Head of the department)			
3. REASERCH ACTIVITY				
3.1	Amount of funds raised in the period under review for conducting scientific investigations from the general State budget fund (State Budget Research) (UAH, considering share of co-authorship agreed with the Head of the Research)			
3.2	Amount of funds raised in the period under review for conducting scientific investigations from the special State budget fund (UAH, considering share of co-authorship agreed with the Head of the Research):			
	–state-ordered R&D developments;			
	–research according to research and R&D target programs;			
	–grants of the National Research Fund of Ukraine;			
	–grants of the President of Ukraine;			
	–economic contracts;			
	–personal international grants;			
	–collective international grants;			
3.3	h-index value of the REE whose Scopus profile contains the affiliation to Lviv Polytechnic National University (units);			
3.4	The number of papers published in the period under review in professional editions of Ukraine (except ISMD Scopus and Web of Science) (units, considering share of co-authorship)			
3.5	The number of papers published in the period under review in periodicals included into ISMD Scopus or Web of Science (units, considering share of co-authorship):			
	–quartile Q1;			
	–quartile Q2;			
	–quartile Q3;			
	–quartile Q4;			
	–none of quartile			
3.6	The number of conference materials of published in the period under review in editions included into ISMD Scopus or Web of Science (units, considering share of co-authorship)			
3.7	The number of papers published in the period under review by students under the guidance of REE / RE (units, considering share of co-authorship)			
	–in professional editions;			
	in editions included into ISMD Scopus or Web of Science:			
	–quartile Q1;			
	–quartile Q2;			
	–quartile Q3;			
	–quartile Q4;			
	–none of quartile			
3.8	The number of applications for participation in the projects, registered in the Department of Scientific and Organizational Support of Research (R&D Department) (units, considering share of co-authorship):			
	–personal grants;			
	–personal international scholarships;			

№ ¹	Personal effectiveness indicators	Planned values of personal effectiveness ³		
		Sur-name	:	Sur-name
	–collective Ukrainian projects submitted for the participation in I round of the competition (for competitions conducted in two rounds, first of which taking place at Lviv Polytechnic National University);			
	–collective Ukrainian projects recommended Research and Technology Council of University for the participation in II round of the competition (for competitions conducted in two rounds) and / or submitted to the competitions within the state programs (according to a state order, to target research and technology programs etc.);			
	–collective international projects (except Horizon);			
	–projects of Horizon program			
3.9	The number of items of industrial property created by REEs / REs in the period under review whose owner is University (units, considering share of co-authorship);			
	–patents for inventions;			
	–patents for useful models;			
	–industrial models			
3.10	The number of monographs in Ukrainian and in languages of OECD countries recommended by the University Academic Board (or other HEI or research institution) or published abroad (units, considering share of co-authorship):			
	–monographs published in the period under review;			
	–chapters in collective monographs published in the period under review;			
	–monographs indexed in ISMD Scopus or Web of Science in the period under review (regardless of the year of publication);			
3.13	The number of licenses sold in the period under review for the total of ≥ 30 thousand UAH for objects of intellectual property (patents, software, objects protected by copyright) whose owner is University and the authors are full-time REE / RE (units, considering share of co-authorship)			
4. INTERNATIONAL ACADEMIC COOPERATION				
4.5	The number of applications (units, considering share of co-authorship) registered in the Center for International Education applied in the period under review for participation in:			
	–personal international educational grants and scholarship programs;			
	–collective international educational grants and scholarship programs			
4.6	Volume of funds raised in the period under review for special fund from international educational grants and projects (UAH, considering share of co-authorship, agreed with the head of the grant / project)			
4.8	Teaching in the period under review in foreign HEIs:			
	–under the program of academic mobility during the term of ≥ 5 working days;			
	–under the “Visiting professor” program ≥ 60 hours (in a face-to-face / distant mode)			
4.9	The number of syllabi at the department having obtained international accreditation in the period under review (units, considering share of co-authorship agreed with the head of the department)			
5. OTHER INDICATORS				
5.1	Conducting career-oriented and marketing events for school students (units, considering share of co-authorship agreed with the head of the department):			
	–Olympiads in general subjects;			
	–events with participation of successful graduates and / or employers;			
	–events (clubs, webinars) within activities of Career Guidance Center (CGC)			
5.2	Introduction of “Summer School” (SSc) and / or “Winter School” (WSc) programs (including those within international educational grants) (units, considering share of co-authorship agreed with the head of the department)			
5.3	Introduction of innovative syllabi for training specialists in the period under review (units, considering share of co-authorship agreed with the head of the department)			
5.4	Preparation and submission of projects for international grants considering the development of scientific infrastructure, in particular, creating the Center of scientific investigations in the period under review (units, considering share of co-authorship agreed with the head of the department)			

Footnotes:

¹ Numbers of parts 1-4 match the numbers of corresponding indicators of the Regulation on rating of the University departments

² Full-time department employees are those working at the department within the endorsed staff list according to fixed-term employment contracts, except persons working on a part-time basis

³ Planning the indicator (or showing the existing one) which does not have the unit of measure given, one should assign it a value 1

Indicators for assessing the effectiveness of research and educational employees

$N_{(j,i)}^1$	$N_{(n)}^2$	Indicators	Specifics of calculating the indicator values	Divisions responsible for insertion / verification of data in information systems	N_{ji}^{num}	k_{jin}	K_{jin}^{cm}	$I_{jin} \%$
For the results gained in co-operation, a part obtained by dividing one by the total number of authors / doers (except the results in which the share of authors / doers (in %) is determined) is taken into account.								
Staff capacity								
1.1 (1.2)		Presence of a scientific degree or / and scientific title	Input data for calculations are exported from IS «Personnel»	HR Department				
	1	DSc degree or / and the title of Professor			0,2	1,0	5,0	17,2
	2	PhD / candidate of science and / or the title of Associate Professor			0,63	1,0	1,6	5,5
1.4	1	Membership in the scientific and methodical commissions of the MESU, or as the expert of the Scientific Council of the MESU or as the expert of the National Research Foundation of Ukraine (NRFU), or membership in sectoral expert councils (SEC) or in the NAQA, or membership in permanent specialized academic councils	$K_{1.4.1} = 1,5^{n-1}$, where n is the number of boards / councils in which the REE participated Input data for calculations are exported from IS «ScienceLP»	Information about members of scientific and methodical commissions and the expert council of the MESU, experts of the Scientific Council of the MESU or experts of the NRFU is inserted by the Research and Development Department. Information about members of the NAQA and SEC of the NAQA is inserted by the Department of Education Quality Management System Support. Information about members of the permanent specialized academic councils is inserted by the Department of Doctoral and Post-graduate Studies	0,15	1,0	6,7	23,0
1.5	1	Presence of a language certificate at a level not lower than B2 issued by an establishment listed in the Annex to the Regulation on awarding academic titles in Lviv Polytechnic National University	High school diplomas in philology (in an appropriate language) and in translation (specialty “International Relation”) are equated to mentioned certificates. Input data for calculations are exported from IS «Personnel»	Information is inserted / verified by the HR department on the basis of submitted coloured copies of certificates attested by the head of the department	0,117	1,0	8,5	29,5

¹ – The number of indicator according to the Regulations on department rating of University

² – The number of the i -th relative indicator within the j -th subject area

№ (j.i)¹	№ (m)²	Indicators	Specifics of calculating the indicator values	Divisions responsible for insertion / verification of data in information systems	N_{ji}^{num}	k_{jin}	K_{jin}^{cm}	$I_{jin} \%$	
1.6	1	Advanced training abroad (within professional activity or branch of knowledge at HEEs, enterprises, establishments along the term of ≥ 5 working days (basing on business trip orders)	Input data for calculations are exported from IS «ScienceLP»	Information is inserted / verified by the Center of International Education on the basis of business trip orders and direction to advanced training	0,082	0,5	6,1	21,0	
1.7	1	Membership in editorial boards of a scientific journals belonging to the international scientific metric database (ISMD) Scopus or Web of Science	Membership of a full-time employee of the department in mentioned editorial boards and paper reviewing is considered as a unit regardless of the number of boards / journals. Input data for calculations are exported from IS «ScienceLP»	Information is inserted / verified by the Research and Development Department on the basis of references from heads of the departments with noting the titles of journals and REEs' surnames	0,15	1,0	6,7	23,0	
1.8.		Defence of the PhD (Candidate of Science) thesis:	Input data for calculations are exported from IS «ScienceLP» according to the date of defence	Information on defense is inserted by Department of Doctoral and Post-graduate Studies	0,044				
	1	within set time-lines				1,0	22,7	78,4	
	2	after set time-lines				0,5	11,4	39,2	
1.10	1	Defence of a DSc thesis	Input data for calculations are exported from IS «ScienceLP» according to the date of defence	Information on defense is inserted by Department of Doctoral and Post-graduate Studies	0,014	1,0	71,4	246,3	
1.11		Being awarded by:	Input data for calculations are exported from IS «ScienceLP»	Information is inserted by the Research and Development Department	0,015				
	1	State Prizes (in the branch of science and technology, education, architecture), prizes of the President of Ukraine				1,0	66,7	229,9	
	2	grants of the President of Ukraine, scholarships of the Verkchovna Rada of Ukraine and the Cabinet of Ministers of Ukraine, scholarships and prizes of the National Academy of Sciences of Ukraine				0,015	0,7	46,7	160,9
	3	scholarships of the President of Ukraine and Cabinet of Ministers of Ukraine				0,015	0,2	13,3	46,0
Educational activity									
2.1	1	Part of academic disciplines of a current academic year whose educational and methodological training packages are located in virtual learning environment, are used by students and certified in the total number of academic disciplines being an academic workload of REE in the current academic year		Input data for calculations is inserted by the Department of Organizational Support of Distance Education	1,0	1,0	1,0	3,4	
2.2	1	The number of prize-winning places won by day-time students under the guidance of REE / RE in the II stage of All-Ukrainian competitions among students' research works; II stage of All-Ukrainian competitions among students'	Input data for calculations are exported from IS «ScienceLP»	Information on prize-winning places won by students-prizewinners and winners of All-Ukrainian competitions among students' research works, All-Ukrainian	0,14	1,0	7,1	24,6	

$N_{(j.i)}^1$	$N_{(n)}^2$	Indicators	Specifics of calculating the indicator values	Divisions responsible for insertion / verification of data in information systems	N_{ji}^{num}	k_{jin}	K_{jin}^{cm}	$I_{jin}, \%$
		diploma papers; II stage of All-Ukrainian Student Olympiads in disciplines and / or specialties; All-Ukrainian and international creative competitions and exhibitions; international Student Olympiads and international competitions among students' research works		competitions among students' diploma papers conducted or acknowledged by The Ministry of Education and Science (MES) of Ukraine, as well as international competitions among students' research works, All-Ukrainian and international creative competitions and exhibitions is registered, inserted and verified by the Scientific and Organizational Support of Research Department of the Research and Development Department on the basis of the copies of winners' diplomas (certificates). Information on prize-winning places won by students-prizewinners and winners of All-Ukrainian Student Olympiads conducted or acknowledged by MES of Ukraine, as well as international Olympiads is registered, inserted and verified by the Department of Education Quality Management System Support on the basis of orders of the MES of Ukraine and copies of winners' diplomas (certificates). Information on gaining scholarships of the President of Ukraine, VRU, CMU, awards of the NAS of Ukraine is inserted by Students Department on the basis of appropriate orders				
2.3	1	The number of published tutorials; textbooks, workshop manuals, dictionaries recommended by the Research and Methodology Board of University (units, considering share of co-authorship)	Input data are exported from IS «ScienceLP»	Information is inserted by REEs. Only tutorials, textbooks, workshop manuals and dictionaries confirmed by the library are taken into account.	0,072	1,0	13,9	47,9
2.4	1	The number of academic disciplines having English-language educational and methodological support and being taught in English in the current academic year (units, considering share of co-authorship)	Only those academic disciplines which were taught according to the Regulations on the organization of teaching academic disciplines in foreign languages	Input data are inserted by the Educational and Methodical Department	0,04	1,0	25,0	86,2

$N_{(j.i)}^1$	$N_{(m)}^2$	Indicators	Specifics of calculating the indicator values	Divisions responsible for insertion / verification of data in information systems	N_{ji}^{num}	k_{jin}	K_{jin}^{cm}	$I_{jin}, \%$
2.5	1	Обсяг вартості активів, залучених у звітному році на розвиток матеріально-технічної бази кафедри від спонсорів, меценатів, благодійників, донорів тощо Value of assets raised in the period under review for the development of physical infrastructure of the department from sponsors, philanthropists, benefactors, patrons etc.		Collecting and inserting the data for calculations is performed by Accounting Department on the basis of the applications of the head of the department, in which the amount of raised funds, the list of the surnames of REEs' having raised funds, with the shares of funds raised, and sponsoring institutions are noted	5 thou UAH	1,0	1,0	3,4
2.10	1	Part of academic load of the REE in a current academic year in the average academic load of the REE in a current academic year at University ³		Input data for calculations are inserted by the HR department	1,0	3,0	3,0	10,3
Research Activity								
3.1	1	Amount of funds raised in the period under review for conducting scientific investigations from the general State budget fund (State Budget Research) (thds of UAH, considering share of co-authorship agreed with the Head of the Research)	Amount of funds raised is allocated proportionally to the yearly amount of REE's salary	Input data for calculations are inserted by the Research and Development Department	18,7 thou UAH	1,0	1,0	3,4
3.2	1	Amount of funds raised in the period under review for conducting scientific investigations from the special State budget fund (state-ordered R&D developments, research according to research and R&D target programs, grants of the National Research Fund of Ukraine, grants of the President of Ukraine, economic contracts, personal and collective international grants) (thds of UAH, considering share of co-authorship agreed with the Head of the Research)	Amount of funds raised is allocated proportionally to the yearly amount of REE's salary	Input data for calculations are inserted by the Research and Development Department	23,3 thou UAH	1,0	1,0	3,4
3.3	1	h-index value of the REE whose Scopus profile contains the affiliation to Lviv Polytechnic National University	Input data for calculations are exported from rating R1		1,0	2,0	2,0	6,9
3.4	1	The number of papers published in the period under review in professional editions of Ukraine (except ISMD Scopus and Web of Science) (units, considering share of co-authorship)		Information is inserted by REEs. Only papers confirmed by the library and affiliated to University are taken into account	1,0	1,0	1,0	3,4
3.5		The number of papers published in the period under review in periodicals included into international scientific metrical databases Scopus or Web of Science (units, considering share of co-authorship):	Input data for calculations are exported from IS «ScienceLP»	Information is inserted by REEs. Only papers confirmed by the library and affiliated to University are taken into account on condition of their indexing by Scopus and / or Web of	0,5			
	1	in journals "Nature" or "Science"				35	70,0	241,4

$N_{(j.i)}^1$	$N_{(m)}^2$	Indicators	Specifics of calculating the indicator values	Divisions responsible for insertion / verification of data in information systems	N_{ji}^{num}	k_{jin}	K_{jin}^{cm}	$I_{jin}, \%$
	2	quartile Q1		Science international abstraction and citation databases		7	14,0	48,3
	3	quartile Q2				4	8,0	27,6
	4	quartile Q3				2	4,0	13,8
	4	quartile Q4				1,5	3,0	10,3
	5	none of quartiles				1,5	3,0	10,3
3.6	1	Number of conference abstracts published in period under review belonging to Scopus or Web of Science international abstraction and citation databases (units, considering share of co-authorship)	Input data for calculations are exported from IS «ScienceLP»	Information is inserted by REEs. Only publications confirmed by the library and affiliated to University are taken into account on condition of their indexing by Scopus and / or Web of Science international abstraction and citation databases	0,5	1,0	2,0	6,9
3.7	1	The number of scientific papers published in the period under review by students under the guidance of REE (units, considering share of co-authorship)	The indicator is taken into account by the share of the student in the number of co-authors of the publication. Input data for calculations are exported from IS «ScienceLP»	Information is inserted by REEs. Only papers confirmed by the library and affiliated to University are taken into account. If the paper is published in editions included to international abstraction and citation databases, the papers indexed in Scopus and / or Web of Science confirmed by the library and affiliated to University are taken into account.	0,1	0,1	1,0	3,4
3.8		The number of applications in period under review for participation in the international and Ukrainian projects (units, considering share of co-authorship) registered in the Department of Scientific and Organizational Support of Research (R&D Department):	Input data for calculations are exported from IS «ScienceLP»	Information is inserted by Research and Development Department on the application of persons mentioned in the application as heads of projects from University. In applications, the contribution of the REE in forming the application is noted.	0,12			
	1	for personal grants				0,05	0,4	1,4
	2	for personal international scholarships				0,1	0,8	2,9
	3	for collective Ukrainian projects submitted for the participation in I round of the competition (for competitions conducted in two rounds, first of which taking place at Lviv Polytechnic National University)				0,5	4,2	14,4
4	for collective Ukrainian projects recommended Research and Technology Council of University for the participation in II round of the	1,0	8,3	28,7				

№ (j.i)¹	№ (m)²	Indicators	Specifics of calculating the indicator values	Divisions responsible for insertion / verification of data in information systems	N_{ji}^{num}	k_{jin}	K_{jin}^{cm}	$I_{jin}, \%$
		competition (for competitions conducted in two rounds) and / or submitted to the competitions within the state programs (according to a state order, to target research and technology programs etc.)						
	5	collective international projects (except Horizon)				1,5	12,5	43,1
	6	projects of Horizon program				2,0	16,7	57,5
3.9		The number of items of industrial property created by REEs in the period under review whose owner is University (units, considering share of co-authorship):	Input data for calculations are exported from IS «ScienceLP»		0,042			
	1	patents for inventions				1,0	23,8	82,1
	2	patents for useful models and industrial models				0,5	11,9	41,1
3.10		The number of monographs in Ukrainian and in languages of OECD countries recommended by the University Academic Board (or other HEI or research institution) or published abroad (units, considering share of co-authorship):	Input data for calculations are exported from IS «ScienceLP»	Only monographs / chapters of monographs confirmed by the library and affiliated to University are taken into account.	0,037			
	1	monographs indexed in ISMD Scopus or Web of Science in the period under review (regardless the year of publication)				1,0	27,0	93,2
	2	monographs published in the period under review				0,4	10,8	37,3
	3	chapters in collective monographs published in the period under review				0,05	1,4	4,7
3.13	1	The number of licenses sold in the period under review for the total of ≥ 30 thousand UAH for objects of intellectual property (patents, software, objects protected by copyright) whose owner is University and the authors are full-time REE / RE (units, considering share of co-authorship)		Collection and insert of input data for calculations is performed by the Research and Development Department	0,0047	0,03	6,4	22,0
International academic cooperation								
4.5		The number of applications (units, considering share of co-authorship) registered in the Center for International Education or a project office applied in the period under review for participation in:	Input data for calculations are exported from IS «ScienceLP»	Information is inserted by the Center for International Education according to the application of the head of the department and the information for application registration	0,12			
	1	personal international educational grants and scholarship programs				0,2	1,7	5,7

№ (j.i)¹	№ (m)²	Indicators	Specifics of calculating the indicator values	Divisions responsible for insertion / verification of data in information systems	N_{ji}^{num}	k_{jin}	K_{jin}^{cm}	$I_{jin} \%$
	2	collective international educational grants and scholarship programs				1,0	8,3	28,7
4.6	1	Volume of funds raised in the period under review for special fund from collective international educational grants and projects (thds of UAH, considering share of co-authorship, agreed with the head of the grant / project)		Information on the volume of funds raised from collective international educational grants and projects is inserted by the accounting department. Information on the share of each REE participating in the grant / project (in %) is inserted by the Center for International Education / Project office on the basis of the application of the head of grant / project	3 thou UAH	1,0	1,0	3,4
4.8		Teaching of REEs in the period under review in foreign HEIs:	Input data for calculations are exported from IS «ScienceLP»	Information is inserted by the Center for International Education on the basis of the order letter of referral for going abroad, application of the head of the department and relevant confirmative documents from foreign HEI	0,009			
	1	under the program of academic mobility during the term of ≥ 5 working days				0,06	6,7	23,0
	2	teaching under the “Visiting professor” program ≥ 60 hours (in a face-to-face / distant mode)				0,1	11,1	38,3
4.9		The number of syllabi at the department having obtained international accreditation in the period under review (units, considering share of co-authorship agreed with the head of the department):		Input data for calculations are inserted by the Center for International Education on the basis of the application of the Head of the department	0,001			
	1	accreditation was conducted by the agency from the list of foreign accreditation agencies or agencies responsible for providing quality of higher education issuing accreditation certificates being recognized in Ukraine				0,1	100	344,8
	2	accreditation was conducted by the other foreign accreditation agency				0,05	50	172,4

¹ In 2021, teaching in distant form is also taken into account

Additional indicators taken into account at calculating the effectiveness index

№	Additional indicators	Specifics of calculating the indicator values	Divisions responsible for insertion / verification of data in information systems	<i>I_{доп}</i> %
1	Conducting career-oriented and marketing events for school students (Olympiads in general subjects, events with participation of successful graduates and / or employers, events (clubs, webinars) within activities of Career Guidance Center (CGC)) in the period under review	Determines the Head of the department	Gathering and inserting the initial data for calculations is made by the Head of the department	1-10 %³
2	Introduction of “Summer School” (SSc) and / or “Winter School” (WSc) programs (including those within international educational grants) in the period under review			
3	Introduction of innovative syllabi for training specialists in the period under review			
4	Preparation and submission of projects for international grants considering the development of scientific infrastructure, in particular, creating the Center of scientific investigations in the period under review			

³ is added to the integral effectiveness index of REE

**Estimation results of
research and educational employees
of the Department _____
for the calendar year 20__**

No according to rating	Surname, initials	Post	Integral index of effectiveness, I_{int} , %	Level of effectiveness
1				
2				
3				
4				
5				
...				

Head of the department _____ *signature* (*Surname and initials*)