



SUMMARY REPORT

on joint international accreditation of the cluster of
educational programmes in

- «Pharmacy» (33.05.01),
- «Industrial Pharmacy» (33.04.01)

delivered by I.M. Sechenov First Moscow State Medical
University of the Ministry of Healthcare of the Russian
Federation

2020

While preparing this Summary Report we used information from the Self-Evaluation Report and the Report on the External Review of the cluster of educational programmes in «Pharmacy» (33.05.01), «Industrial Pharmacy» (33.04.01) delivered by I.M. Sechenov First Moscow State Medical University of the Ministry of Healthcare of the Russian Federation.

The presentation document for the use by the National Accreditation Board.

CONTENTS

General information on educational institution	4
Information on the study programmes undergoing accreditation	5
Achievements of the study programmes	7
External review panel	10
Compliance of the external review outcomes with the standards	12
Distribution digram of the external review outcomes.....	18
Conclusion of the external review panel	19
Schedule of the site visit of the external review panel	20

GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

Full name of the educational institution	<i>Federal State Autonomous Educational Institution of Higher Education «I.M. Sechenov First Moscow State Medical University of the Ministry of Healthcare of the Russian Federation»</i>
Founders	<i>Ministry of Healthcare of the Russian Federation</i>
Year of foundation	<i>1758 r. - Moscow Imperial University 1930 r. - First Moscow Medical Institute (1st MMI) 1940 r. - First Moscow Medical Institute with an order of Lenin (1st MOLMI) 1990 r. - I.M. Sechenov Moscow Medical Academy 2010 r. - I.M. Sechenov First Moscow State Medical University</i>
Address	<i>Building 2, 8, Trubetckaia Street, Moscow, 119991</i>
Rector	<i>Petr Glybochko, member of the Russian Academy of Sciences, Professor, Doctor of Medicine</i>
License	<i>License for educational activities №2587 of 11 May 2017, series 90Л01 № 0009680, permanent</i>
State accreditation	<i>Certificate of State Accreditation №2636 of 04 July 2017, series 90A01 №0002764, valid till 23 March, 2022</i>
Number of students	<i>18509 of whom: 18509 are full-time students</i>

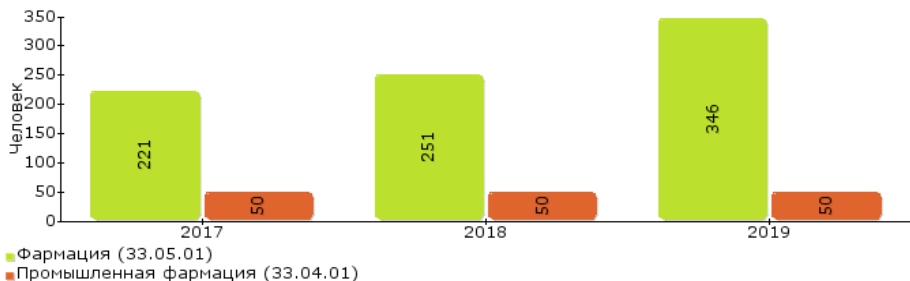
INFORMATION ON THE STUDY PROGRAMMES UNDERGOING ACCREDITATION

Educational programmes	<i>«Pharmacy» (33.05.01), «Industrial Pharmacy» (33.04.01)</i>
Level of training / Standard period of training	<i>Specialist's Degree Programme / 5 years Master's Degree Programme / 2 years</i>
Structural subdivision (Head)	<i>Neliubin Institute of Pharmacy (Galina Ramenskaia, Doctor of Pharmacy, Professor) Master Programmes Centre (Yulia Fedorova)</i>
Graduate departments (and their respective heads)	<i>Arzamastcev Department of Pharmaceutical and Toxicological Chemistry (Galina Ramenskaia, Doctor of Pharmacy, Professor) Department of Pharmaceutical Technology (Ivan Krasniuk, Doctor of Pharmacy, Professor) Department of Pharmaceutical Organization and Economics (Oksana Zakharova, Candidate of Pharmacy, Associate Professor) Department of Pharmaceutical Science (Aleksandr Luferov, Candidate of Biology, Associate Professor) Department of Industrial Pharmacy (Natalia Piatigorskaia)</i>
Dates of Review	<i>October 13-15, 2020</i>
Person responsible for accreditation from the HEI	<i>Chingiz Alaberdov, Chief Specialist of the Department for Strategic Development and Internationalization</i>

SAMPLING RESULTS OF THE PROJECT "THE BEST STUDY PROGRAMMES OF INNOVATIVE RUSSIA"

Indicators	2020
Cluster of educational programmes «Pharmacy» (33.05.01), «Industrial Pharmacy» (33.04.01)	
Number of the given programmes in the RF	71
Number of higher educational institutions to offer the given programmes	69
Number of programmes – winners of the project (% from total number of these programmes offered in the RF)	29 (41%)
Moscow	
Number of the given programmes offered in the region	6
Number of programmes – winners of the project (% from total number of these programmes offered in the region)	4 (67%)
Number of higher educational institutions and branches in the region	180
Total number of programmes offered in the region	4090
Total number of programmes – winners of the project (% from total number of these programmes offered in the region)	815 (20%)

REFERENCE DATA ON STUDENT ENROLLMENT FOR PROGRAMME



ACHIEVEMENTS OF THE STUDY PROGRAMMES

Quality of implementing the study programmes

The quality of training is supervised at the levels of the Departments, Institute, and University (Department for Monitoring of the Education Quality, Career Guidance Centre, Research Department, Educational and Methodological Department). Heads of the Departments and Heads of Academic Affairs are responsible for the quality of the educational programmes at the level of the Departments. The representatives of students and employers are involved in annual updating of the educational programmes. The Institute Director and Head of the Educational Department are responsible for the quality of the educational programmes at the level of the Institute. The control over the quality of education at the level of the University is carried out by the Training Department and the Department for Monitoring of the Education Quality.

Provision of up-to-date education

The up-to-date content of the educational programmes is ensured by annual adjustment of the content with the account of global achievements of science, technologies, culture and economics. The educational programmes receive positive reviews from leading pharmaceutical HEIs and organizations (Kazan State Medical University, Saratov State Medical University, AO Pharmstandard, LLC M EGA PHARM, PAO «Aptechnaia Set 36,6», LLC Medical League of Russia).

Teaching staff

The percentage of the teachers having education that corresponds to the disciplines they teach is 97% of all teachers delivering the educational programme 33.05.01 Pharmacy. The teaching staff comprises foreign teachers. 76% of teachers delivering the educational programme 33.05.01 Pharmacy have academic degrees (Candidates of Sciences, Doctors of Sciences, PhD), 87% of teachers deliver professional disciplines of the programme. 6% of teachers are Heads or employees of pharmaceutical organizations.

Independent assessment of student learning outcomes

All stakeholders, external experts in education, representatives of ministries and institutions, partner organizations, social partners and employers are involved in the educational process through questionnaires, independent external review of learning outcomes, participation of employers in commissions of the state final examinations, initial accreditation of graduates.

Research activity

The percentage of students, who participated in competitions for research scholarships for the last 3 years is 11%. The students win grants to do research; 4 students of the Institute of Pharmacy currently do research as part of the grants.

The teachers do research in various fields: making of medications, methods and methodologies of analysis; learning of medications; improvement of educational technologies, etc. 3 teachers of the Institute of Pharmacy do research as part of the grants. 10 patents have been received this year.

Publication activities have increased. In 2019 the teachers of the Institute of Pharmacy published 156 articles in the journals of the Higher Attestation Commission and 192 articles in the journals of Scopus (48% articles Q1-Q2).

Educational resources

There is a unified research centre at the University for fundamental and applied research aimed at solving issues of medical, biological and pharmaceutical sciences and healthcare. It comprises 2 research institutes, 6 institutes of development, 33 research laboratories, 25 research centres. The University has two libraries: Central research medical library (CRML) and Fundamental scholarly library (FSL). The students can get academic and research books for free, use all departments of the library, catalogues, reference room, Internet gallery, get help from reference librarians. The library stock is 3 978 328 units of national and foreign medical books.

Academic mobility of students

Every year the University sends and receives a visit from more than 30 students in 33.05.01 Pharmacy. The students serve internships at the universities in the Netherlands, France, Sweden, USA, Hungary, etc. The educational institution signs agreements with foreign partner universities to do research at the laboratories of these universities. More than 100 students from other Russian educational institutions and HEIs from CIS countries took part in the conference and Olympiads held by Sechenov University in 2018-2020. The students from Kazakhstan, Belarus, Azerbaijan, Uzbekistan, Iraq, Syrian Arab Republic master the programme 33.04.01 «Industrial Pharmacy».

Employability of graduates

The employability of graduates of the educational programme 33.05.01 Pharmacy is 100%. In 2019 more than 85% of the graduates of the programme 33.05.01 Pharmacy found jobs in field; 12% continued their studies. Since 2016 the graduates undergo the procedure of initial accreditation in 33.05.01 Pharmacy, and 95% of the graduates successfully confirm their preparedness for professional activities.

International projects

The Institute of Pharmacy delivers an international Master programme «Innovative Medications» together with the University of Franche-Comté (France). The graduates of the programme receive a state-recognized diploma of Russia and France. The teachers participate in the academic mobility programmes and international internships (10–20 people annually).

EXTERNAL REVIEW PANEL



Zhang Xuemei (Shanghai, China)

Review Chair, foreign expert

PhD, Professor, School of Pharmacy, Deputy Dean of Teaching, Fudan University, Deputy Secretary-General of the Teaching Committee of International Students (Medical) of the Chinese Pharmacological Society, Director of the Shanghai Pharmacological Society

A nominee of the Higher Education Evaluation Centre (HEEC)



Natalia Durnova (Saratov, Russia)

Deputy Review Chair, Russian expert

PhD in Biology, Associate Professor, Dean of the Pharmaceutical Faculty, Head of the Department of General Biology, Pharmacology and Botanic, Saratov State Medical University named after V. I. Razumovsky, member of the Russian Society of Geneticists and Plant Breeders

A nominee of the Guild of Experts in Higher Education



Sun Jianping (Harbin, China)

Panel member, foreign expert

PhD, Professor, Party Secretary of School of Pharmacy, Harbin Medical University

A nominee of the Higher Education Evaluation Centre (HEEC)



Anna Rodovnichenko (Moscow, Russia)

Panel member, representative of professional community

Head of the Department for Methodological and Information Support "Pharmstandard"

A nominee of the «Pharmstandard»



Anna Abramova (Moscow, Russia)

Panel member, representative of students

4th year student of the Medical Institute, Peoples' Friendship University of Russia

A nominee of Peoples' Friendship University of Russia

INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMMES

Galina Ramenskaia

Doctor of Pharmacy, Professor, Director of the Neliubin Institute of Pharmacy, Head of the Arzamastcev Department of Pharmaceutical and Toxicological Chemistry, Emeritus Professor of the South Kazakhstan Medical Academy

Irina Samylina

Doctor of Pharmacy, Professor, corresponding member of the Russian Academy of Sciences, Head of the Department of Pharmacognosy, member of the Council of the Ministry of Healthcare of the Russian Federation in State Pharmacopoeia, member of the Expert Board of the Higher Attestation Commission in medical, biological and pharmaceutical sciences, Deputy Chair of the Russian Research Society of Pharmacists

Ivan Krasniuk

Doctor of Pharmacy, Professor, Head of the Department of Pharmaceutical Technology, Chair of the Expert Group in Pharmacy of the Central Attestation Commission of the Ministry of Healthcare of the Russian Federation, member of the editorial board of the following journals: «Vestnik VSMU», «Pharmacy», «Vestnik Farmacii» (Vitebsk SMU), award winner of the international competition PROFESSIONAL STARS – 2018

Vera Prokofieva

Doctor of Pharmacy, Professor, Arzamastcev Department of Pharmaceutical and Toxicological Chemistry, member of the Council of the Ministry of Healthcare of the Russian Federation in State Pharmacopoeia, member of the editorial board of the journal «News of the Research Centre for Examination of Medical Facilities»

Olga Nesterova

Doctor of Pharmacy, Professor, Head of the Department of Chemistry, Honoured Healthcare Worker of the Russian Federation, member of the editorial board of the journal «Puls»

Vladimir Chubarev

Candidate of Biology, Professor, Department of Pharmacology, observer of the United States Pharmacopeia (USP), officer and expert of the Foundation for Innovations Support

Natalia Piatigorskaia

Doctor of Pharmacy, Professor, Deputy Director for Research of the Institute of Translational Medicine and Biotechnologies, head of the Department of Industrial Pharmacy

Valerii Beregovykh

Doctor of Engineering, Professor, member of the Russian Academy of Sciences, Head of the Department of Medical Sciences at the Russian Academy of Sciences, Deputy Academic Secretary of the Russian Academy of Sciences, member of the Russian Academy of Engineering and Russian Academy of Medical and Engineering Sciences

COMPLIANCE OF THE EXTERNAL REVIEW OUTCOMES WITH THE STANDARDS

STANDARD 1. Policy (goals, development strategy) and quality assurance procedures of a study programme

Compliance with the standard: **full compliance**

Good practice:

A well established University management contributes to the fulfillment of innovative development strategies and quality assurance of the educational process. A well established quality management system is in place: the internal quality assurance system is documented; all stakeholders are involved in improvement of the quality assurance policy of the educational process.

On the one side, all procedures of the internal quality assurance system are comprehensively documented; on the other side, there is a high level of digitization of all processes of cooperation between a student and the HEI in training and solution of organizational and personal issues.

Areas for improvement:

Cooperation between employers and the Institute should be enhanced concerning the issues of defining market requirements and areas for improvement of the educational programmes.

STANDARD 2. Design and approval of programmes

Compliance with the standard: **full compliance**

Good practice:

The goals of the educational programmes comply with the University mission. Stakeholders' opinions and requirements of professional standards are taken into account when reviewing the educational programmes.

The educational programmes are regularly improved with the account of modern achievements of science and technology.

The development and delivery of the educational programme «Industrial Pharmacy» is an important step in the development of pharmaceutical education in the country. Currently, experts in this field are in high demand on Russian and international markets.

Areas for improvement:

All stakeholders should be more involved in the development of the educational programmes; a mechanism of employers' involvement should be improved concerning adjustment of not only further education programmes (workshops, etc.) but the main educational programme. It will contribute to faster and better improvement of the educational programme in compliance with the changing requirements of the market.

Facilities for work placement and for research work should be extended in order to improve practical skills of students.

Applicants entering Mater studies should also include working specialists willing to improve their professional knowledge; the work on improvement of remote technologies in Master students' training should be improved.

STANDARD 3. Student-centred learning and assessment

Compliance with the standard: **full compliance**

Good practice:

The students have great opportunities to choose an individual learning path; for example, this opportunity helps to increase education diversification and focus on the chosen area of work. There is a Centre for Research Career for talented students willing to build a career in research.

The Departments hold workshops, which help to diversify the educational process and motivate students to get deeper knowledge in certain areas.

Due to digitization of process the students get necessary knowledge in an easier and more interesting way. Presentation of the information in English makes training easier for foreign students.

Publication activities of the students are high; their involvement in research gave an opportunity to gain very high results – 61 articles in the top-rated international journals in 2019.

Areas for improvement:

The University should motivate students to participate in different procedures of external review of training quality (olympiads, competitions, etc.). Students should be more involved in research beginning from the 2nd year of study.

When designing timetables of the educational process, opinions of students should be taken into account for work placement and professional internships of junior students.

STANDARD 4. Student admission, support of academic achievements and graduation

Compliance with the standard: **full compliance**

Good practice:

The career guidance system is well established and is oriented at an applicant, which helps to make an individual learning path for a future professional. The Centre of International Education, Faculty of Preparatory Training, Resource Centre "Medical Sechenov Pre-University" successfully work at the University as part of the project «A School - a HEI».

The University information environment provides full and available information on fields of study, educational programmes, admission; the website is colourful and branded; there are many extracurricular activities at the University.

Students' academic mobility is carried out in different areas in cooperation with many large HEIs in different countries. The Institute of Pharmacy is planning to extend cooperation with 20 foreign universities and research centers from China, France, Germany, etc.

Areas for improvement:

Availability of preparatory training for foreign school leavers and nonresidents should be enhanced.

The opportunities for students to serve internships abroad should be extended.

The number of foreign partners for recognition of degrees should be increased.

STANDARD 5. Teaching staff

Compliance with the standard: **full compliance**

Good practice:

The teachers are highly qualified.

The incentives system for the teachers is developed and is successfully carried out; the ranking scores of teachers correlate with the key indicators of their performance.

The requirements for hiring teachers are high; they have to be published in the top-rated professional journals and have grants; when applying for the job, teachers' experience and performance are assessed.

The research work of teachers is on a high level, which is approved by the ranking of their publications in leading research journals over the last years.

Innovative teaching methods are developed; simulation classes are introduced in the educational process.

Areas for improvement:

New educational technologies should be continuously used, including the digital ones, thus providing a multifaceted approach and diversification of teaching methods.

When delivering the educational programme «Industrial Pharmacy», more foreign lecturers and University subdivisions (Departments, laboratories) should be involved in order to provide the best compliance with the disciplines/practices.

Young teachers should be more motivated to gain and improve competences and receive academic degrees.

STANDARD 6. Learning resources and student support

Compliance with the standard: **full compliance**

Good practice:

Material and technical resources of the University are the basis for the quality and practice-oriented training.

Establishment of the Multifunctional Centre at Sechenov University helped to structure and maximally automate all processes of information, consulting and document flow.

A national platform of electronic medical education Sechenov.pro is developed at the University; educational courses are published on the international online resources Coursera, Stepik, Universarium, etc.; currently, 110 various courses are published in different Internet resources.

The multifunctional Centre provides students with a possibility to receive all necessary educational materials and to cooperate with the HEI in any issues.

There is an online laboratory at the University for a remote access to practical laboratory skills, which is very important in the context of the pandemics today and in the future, for example, when working with dangerous chemicals.

Areas for improvement:

The University should pay more attention to the development of programmes of the Simulation Centre for Pharmacy students; the number of simulation classrooms and laboratories for the students should be increased.

The students should have more access to expensive equipment for better analysis when they do research.

The number of places for recreation and communication of students should be increased.

STANDARD 7. Collection, analysis and use of information for managing the study programme

Compliance with the standard: **full compliance**

Good practice:

The unified environment of digital services is developed and includes: digital educational technologies, individual learning paths, competences, digital economy.

The system «University – Student» helps to manage the educational process: online timetable, including notifications about changes, monitoring of academic failure, independent choice of elective disciplines, order of documents with their tracking, etc.

Areas for improvement:

Digital competences of all participants of the educational process should be continuously improved.

The students should be more involved in the development of the educational programme.

STANDARD 8. Public information

Compliance with the standard: **substantial compliance**

Good practice:

The University website has a branded interface; it is informative, interesting and convenient. The information system «University-Student», which was shown during the meeting with the HEI administration, is impressive.

The Institute of Pharmacy closely cooperates with pharmaceutical and medical organizations (National Pharmaceutical Chamber, Russian Association of Pharmacy Networks, Association of Russian Pharmaceutical Manufacturers); specialists from these organizations and leading HR experts hold free seminars for the graduates.

The public organizations of Sechenov University have a great impact on the educational institution and support its development in all areas of activity.

Areas for improvement:

A more complete version of the website in English should be developed in order to provide access to the information on the educational programmes. New version of the website should be developed, including the website in Chinese.

More complete information on employability and demand for the graduates should be published on the website.

Ways of cooperation with professional organizations should be extended in order to improve the educational programmes.

STANDARD 9. On-going monitoring and periodic review of programmes

Compliance with the standard: **full compliance**

Good practice:

An effective mechanism of feedback from the teachers and students is used at the University.

The monitoring of the educational programme' performance is carried out; the quality of educational, research, innovative and medical activities is annually carried out with the help of stakeholders' survey.

The Association of Graduates actively cooperates with the educational institution.

The graduates achieved high results in professional accreditation (100%).

Areas for improvement:

Employers should be more involved in the development of the educational programmes concerning not only elective elements and additional courses but analysis and review of the programme in whole.

STANDARD 10. Cyclical external quality assurance of study programmes

Compliance with the standard: **full compliance**

Good practice:

The University was accredited by the German accreditation agency «evalag».

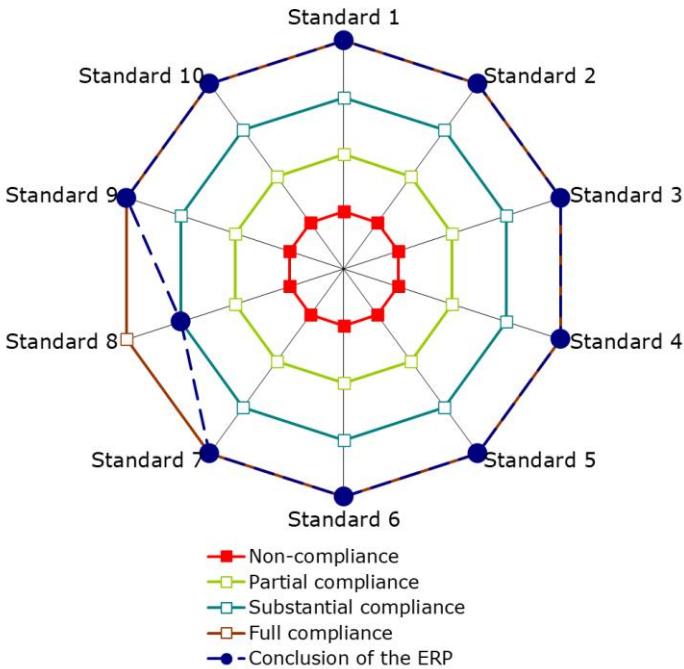
Many students are winners of international Olympiads, championships and competitions such as WorldSkills, national olympiad «I am a Professional», which is an indicative of a high level of professional competences.

High scores for an annual state final academic assessment are received (an average score in the field of study "Pharmacy" is 4,5); the assessment is carried out with the participation of employers (not less than 50% of the Commission).

Areas for improvement:

External review of the educational programmes should be carried out more for an objective analysis of their content and further improvement of the training quality.

DISTRIBUTION DIGRAM OF THE EXTERNAL REVIEW OUTCOMES



- Standard 1. Policy (goals, development strategy) and quality assurance procedures of a study programme
- Standard 2. Design and approval of programmes
- Standard 3. Student-centered learning and assessment
- Standard 4. Student admission, support of academic achievements and graduation
- Standard 5. Teaching staff
- Standard 6. Learning resources and student support
- Standard 7. Collection, analysis and use of information for managing the study programme
- Standard 8. Public information
- Standard 9. On-going monitoring and periodic review of programmes
- Standard 10. Cyclical external quality assurance of study programmes

CONCLUSION OF THE EXTERNAL REVIEW PANEL

Based on the self-evaluation report analysis, documents and data submitted the External Review Panel has come to the conclusion that the cluster of educational programmes in «Pharmacy» (33.05.01), «Industrial Pharmacy» (33.04.01) delivered by I.M. Sechenov First Moscow State Medical University of the Ministry of Healthcare of the Russian Federation **fully** complies with the standards and criteria of public accreditation of the National Centre for Public Accreditation.

The External Review Panel recommends that the National Accreditation Board accredit the cluster of educational programmes in «Pharmacy» (33.05.01), «Industrial Pharmacy» (33.04.01) delivered by I.M. Sechenov First Moscow State Medical University of the Ministry of Healthcare of the Russian Federation for the period of **six** years.

SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

Time	Activity
October 13, Tuesday	
09.00 - 09.20	First meeting of the Panel
09.20 - 09.30	<i>Break</i>
09.30 - 11.00	Meeting of the ERP with the University administration and people responsible for accreditation
11.00 - 11.10	<i>Break</i>
11.10 - 12.40	Meeting with the representatives of University's subdivisions, video-presentation of the material and technical resources, library
12.40 - 13.30	LUNCH
13.40 - 14.50	Meeting with Institute Directors
14.50 - 15.00	<i>Break</i>
15.00 - 16.10	Meeting with Heads of Departments
16.10 - 17.00	Internal meeting of the Panel, summing up the first day, filling in individual assessment forms

Time	Activity
14 October, Wednesday	
09.30 – 09.50	Internal meeting of the Panel
09.50 – 10.00	<i>Break</i>
10.00 – 11.10	Meeting with graduates
11.10 – 11.30	<i>Break</i>
11.30 – 12.40	Meeting with teachers
12.40 – 13.30	LUNCH
13.30 – 13.40	<i>Break</i>
13.40 – 14.50	Meeting with students
14.50 – 15.00	<i>Break</i>
15.00 – 16.10	Meeting with employers
16.10 – 17.00	Work with the individual assessment forms, summing up the second day
15 October, Thursday	
09.00 – 11.30	Internal meeting of the Panel: discussion of preliminary results of the site visit, preparation of the oral report of the panel
11.30 – 12.00	<i>Break</i>
12.00 – 13.00	Closing meeting of ERP with the representatives of the University