



European Network for Accreditation of
Engineering Education



European
Accreditation
of Engineering
Programmes
EUR-ACE®

Engineering Education and Accreditation in Poland

Education of Engineers

Key Task for the Successful European Future

Gdańsk, 9 October 2014



Bohdan Macukow

Warsaw University of Technology

Accreditation Commission of

Universities of Technology



Outline

- ❑ **Polish System of Higher Education**
- ❑ **Polish System of Accreditation**
 - Polish Accreditation Committee
 - Community Controlled Accreditation Committees
 - European Dimension of Polish Accreditation
- ❑ **KAUT - Accreditation Commission of Universities of Technology**
 - Structure, activities
 - Standards and Criteria of Accreditation
 - Accreditation Procedure
 - European Certificates
 - Other Actions
- ❑ **Summary**





Polish System of Higher Education

95 Public (state) HEI's

25 Technical universities

3 Universities with engineering students

296 Non-public (Non-state) HEI's)

(27 under closing down procedure)

~1550 000 students

~ **1 175 000** at state HEI's (~75%)

~ **375 000** at non-state HEI's (~25%)

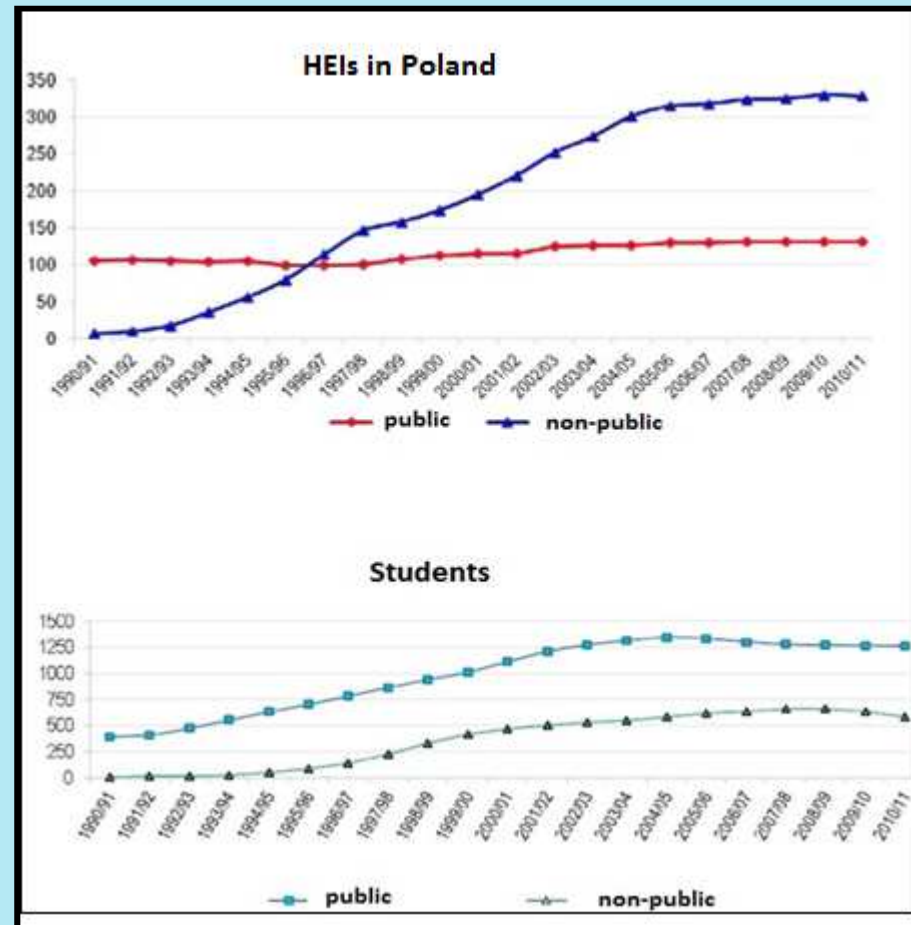
[2013 enrolment 476K (338 I cycle)]

[>40 non-public HEI's enrolment <50]





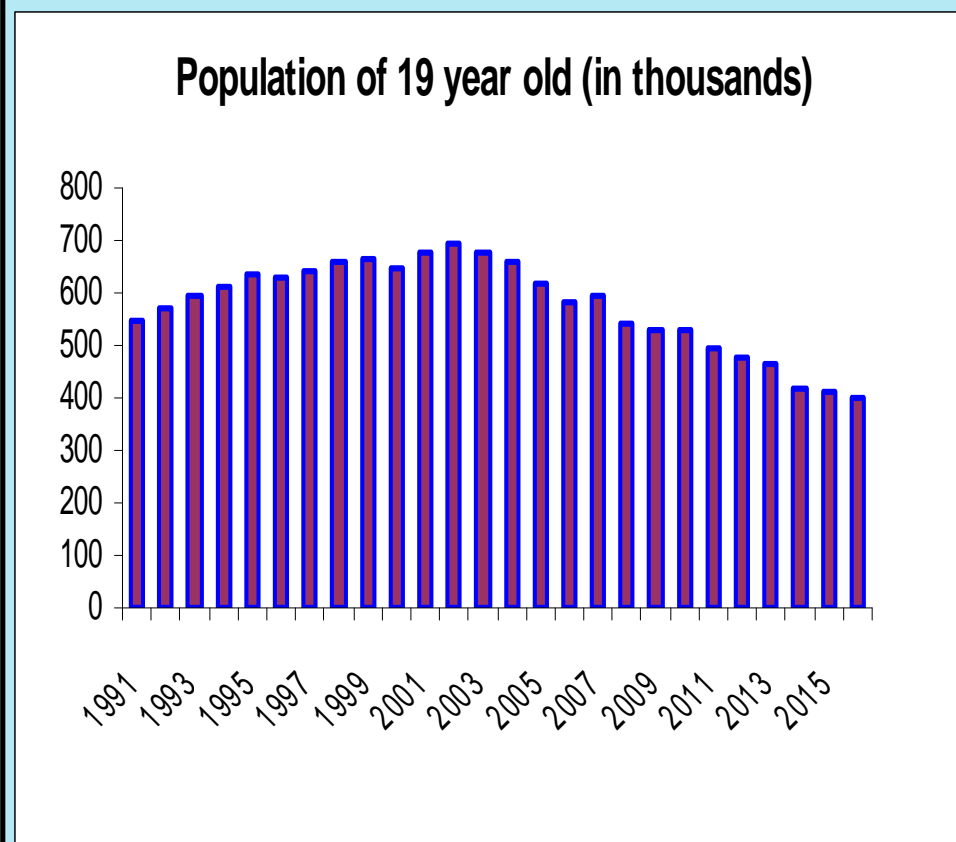
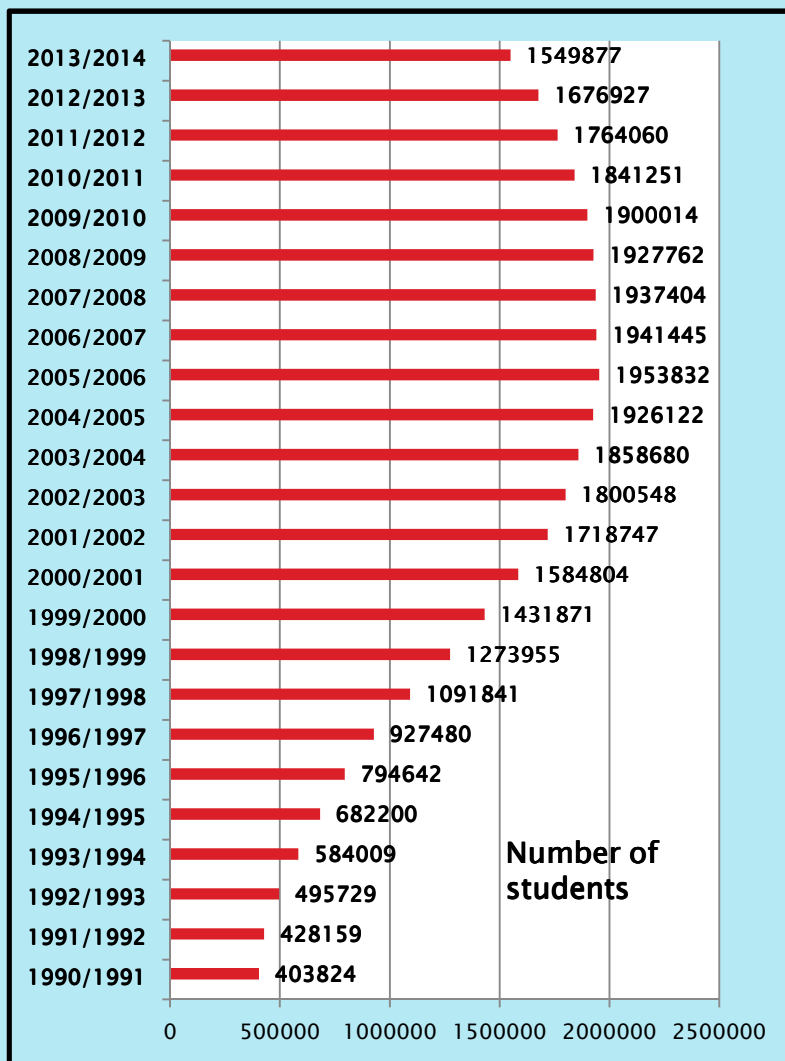
Polish System of Higher Education





Polish System of Higher Education

past and perspectives

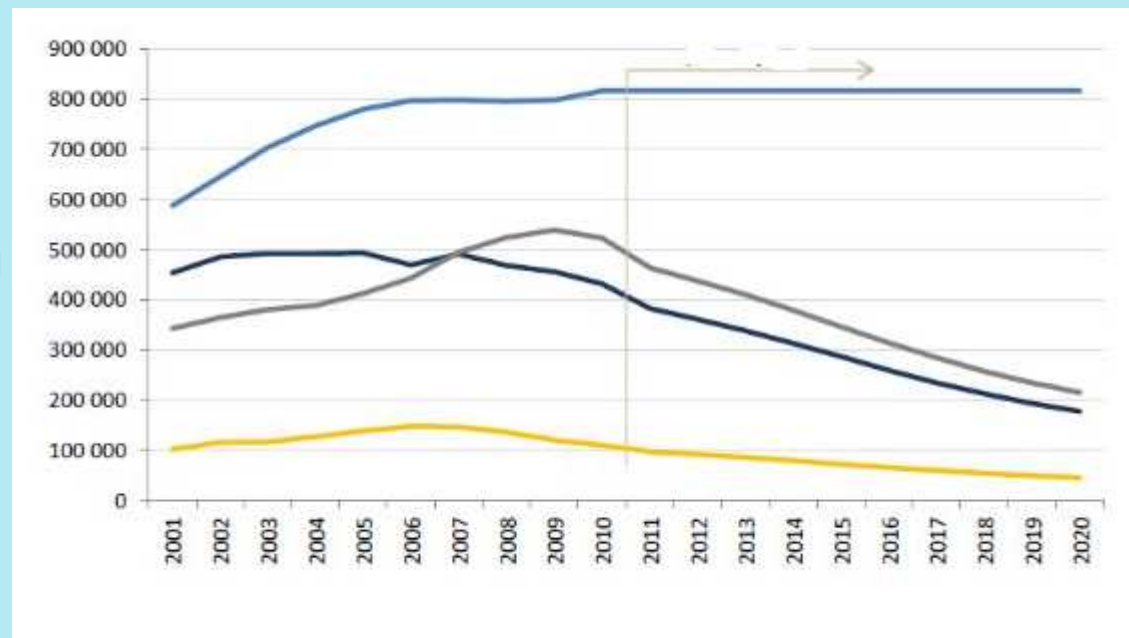




Polish System of Higher Education

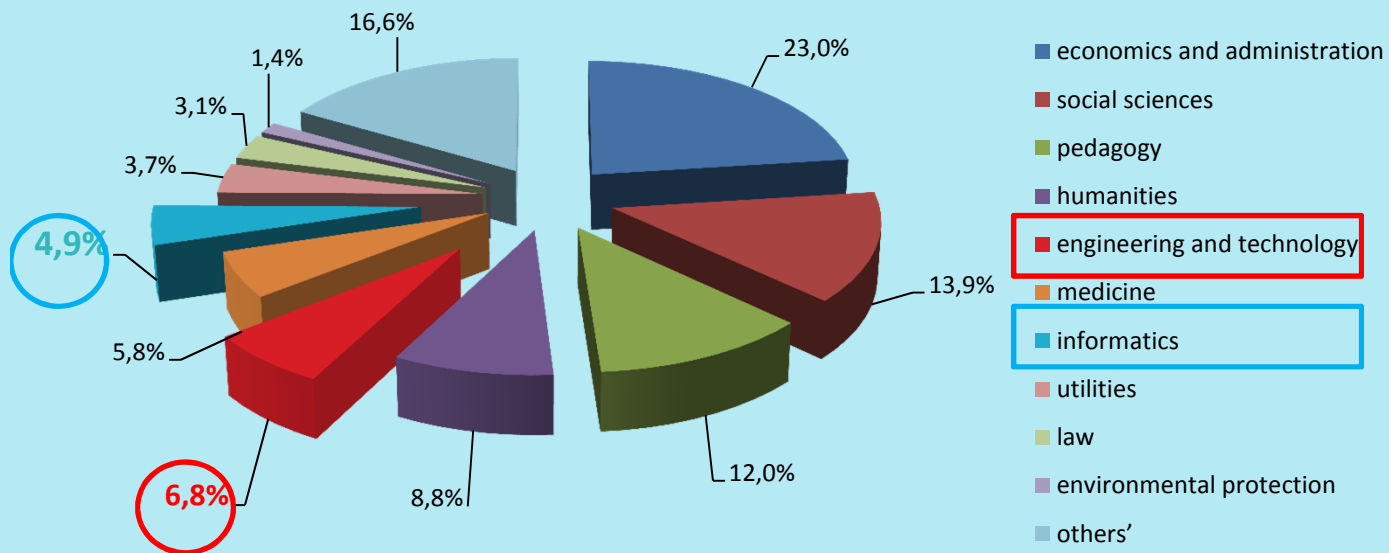
Number of Students – Forecast

public, full-time
public, extramural
non-public, extramural
non-public, full-time



Students in Engineering

Fields of study
students in %



What Is Accreditation ?



Accreditation is a process by which educational programs or institutions are reviewed to determine if they meet certain standards of quality. Accredited status is not permanent; it has to be renewed through periodic review.





Accreditation Criteria*

- 1) Student
- 2) Program educational objectives
- 3) Program outcomes and assessment
- 4) Professional components
- 5) Faculty
- 6) Facilities
- 7) Institutional support and financial resources
- 8) Program criteria.



Polish System of Accreditation



Polish System of Accreditation

Community - founded

SEM FORUM, KAUM, UKA, KAUT, FPAKE and others (since 1997)

Voluntary accreditation



State - founded

Accreditation Committee for Higher Vocational Schools (KAWSZ) (1998-2001)

Polish (State) Accreditation Committee (PKA) (since 1.01.2002)

Obligatory accreditation



Polish Accreditation Committee



MISSION STATEMENT

The Polish Accreditation Committee is an independent institution working on behalf of education quality improvement. The primary objective of the Committee is to support Polish public and non-public higher education institutions in the development of educational standards matching the best models adopted in the European and global academic area.

Legal basis

The Polish Accreditation Committee (PKA) was established on 1 January 2002. Since 2005 Committee has operated on the basis of Act of 27 July 2005 Law on Higher Education.



Polish Accreditation Committee



The Polish Accreditation Committee carries out its mission by conducting obligatory *programme and institutional* evaluations of quality of education and by giving opinions on applications for the authorisation to provide degree programmes submitted by higher education institutions.





Community - controlled Accreditation Committees

Beginning 1997 the conferences of rectors of specific types of higher education institutions in Poland established community - controlled accreditation commissions





Community - controlled Accreditation Committees

Legal Basis

Law on Higher Education

Art.55 p.1

The Rectors' Conferences shall encourage the development of higher education, science and culture, and in particular shall:

3) support, monitor and encourage the continuous enhancement of the quality of education and promote high quality providers, which tasks may be exercised through their accreditation committees.

Art.66 p.3a

The rector of a public higher education institution shall take decisions in all matters concerning the institution,....., and in particular shall oversee the **implementation and development of an internal system assuring the quality of education.**

Art.49a

The Committee (PKA) **shall co-operate with national and international institutions and organizations which are active within the higher education sector, in particular those involved in accreditation and the assessment of the quality of education**





Community - controlled Accreditation Committees

- AC for Polish University Medical Schools 1997
 - (KAAUM)
- University Accreditation Commission, 1998 (UKA)
- AC for Pedagogical Schools, 1998 (KAUP)
- AC of Schools of Arts, 2001 (AKUA)
- **AC for Universities of Technology, 2001 (KAUT)**
- AC for Schools of Economy, 2001 (KA FPAKE)
- AC for Schools of Agriculture, (KAUR) 2001
- Accreditation Committee of CRASP 2001
(coordination body)
- Academic Accreditation Committee (AKA) 2013





European Dimension of Polish Accreditation

UKA - University Accreditation Commission



- 45 programs, 30 active
- Cooperation with European Chemistry Thematic Network, is authorized to delivery of the EuroBachelor and EuroMaster Labels

KAAUM – Accreditation Committee for Polish Medical Universities



- 3 programs, 16 active
- National Committee on Foreign Medical Education and Accreditation (USA) approval of accreditation system used by KAAUM as comparable with the system used in the USA





European Dimension of Polish Accreditation

KAUT - Accreditation Commission of Universities of Technology



- 32 programs, 28 active (1st and 2nd cycle)
cooperation with *European Network for Accreditation of Engineering Education (ENAAE)*, authorized to deliver EUR-ACE Label

FPAKE - Foundation for the Promotion and Accreditation of Economic Education



FUNDACJA PROMOCJI I AKREDYTACJI
KIERUNKÓW EKONOMICZNYCH

– 7 programs, 8 active accreditations





European Dimension of Polish Accreditation

On 15th April 2009 the Polish Accreditation Committee was officially accepted to **European Quality Assurance Register for Higher Education (EQAR)**

Polish Accreditation Committee is a full member of:

- European Consortium for Accreditation (ECA) - *since December 2005.*
- International Network for Quality Assurance Agencies in Higher Education (INQAAHE) - *since May 2007.*
- European Association for Quality Assurance in Higher Education (ENQA)- *since January 2009.*



Two Channels of Accreditation of Engineering Programmes





Accreditation of Engineering Programmes

Polish Accreditation Committee (PKA)

Section 6 working within academic area of Engineering and Technology

PKA **evaluates** quality of education in a specific fields of study and at a specific level and profile of studies (programme assessment) and - within a framework of institutional evaluations - basic activities of units of higher education institutions as well as quality evaluation of third - cycle and postgraduate programmes (if offered).



Accreditation of Engineering Programmes

Accreditation Commission of Universities of Technology (KAUT)

KAUT activities:

- accreditation educational programmes in engineering and technology,
- support for the MOSTECH national exchange programme for students of technical faculties,
- assistance for higher education institutions in the implementation of internal quality assurance systems,
- promotion of "best practice" examples.



KAUT

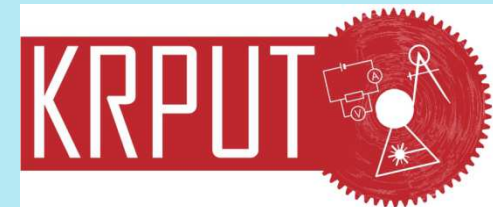
Accreditation Commission of Universities of Technology Poland



Accreditation Commission of Universities of Technology

Main documents of KAUT:

- ✓ „*Agreement to Ensure the Quality of Education*” resolved by the Rectors’ Conference on 17.02.2001, as amended
- ✓ „*Accreditation Rules and Procedures*” passed on 17.02.2001, as amended



Accreditation Commission of Universities of Technology

Activity of KAUT covers basic organisational units of Polish technical higher education institutions being the Agreement Signers

25 members

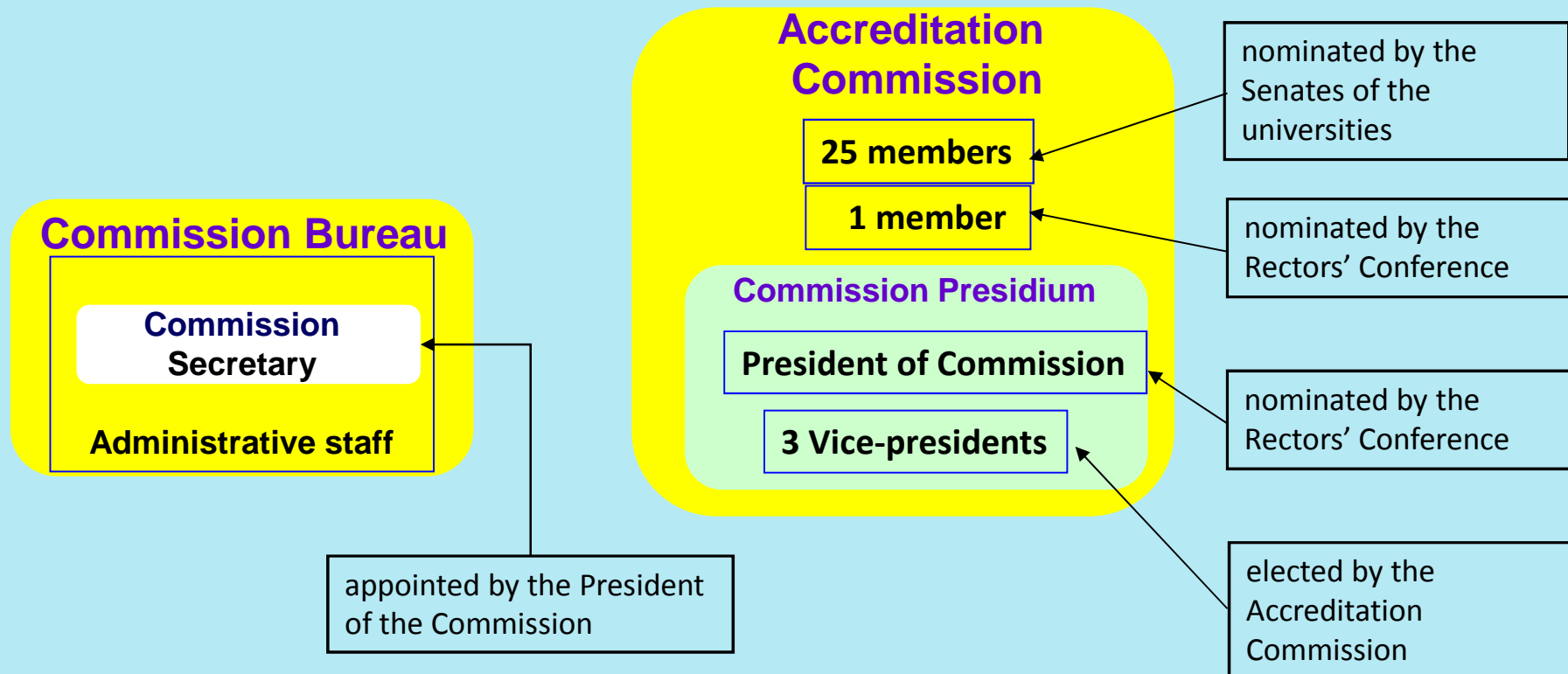
~ 220K students of engineering and technology

29 technical fields of study



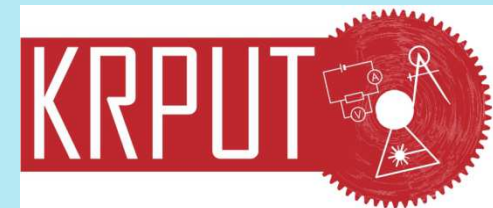
Establishment and Structure of KAUT

4 years term



Main objectives of the KRPUT (Rectors' Conference) resolution „Agreement to Ensure the Quality of Education”

- ✓ Improvement of the quality of education
- ✓ Definition of the clear and univocal procedures of evaluation of the methods and conditions of education and degree programmes
- ✓ Facilitation of the conditions of national and international students and staff mobility
- ✓ Promoting of the area of technical studies fulfilling the high education practice



KAUT Accreditation Procedure

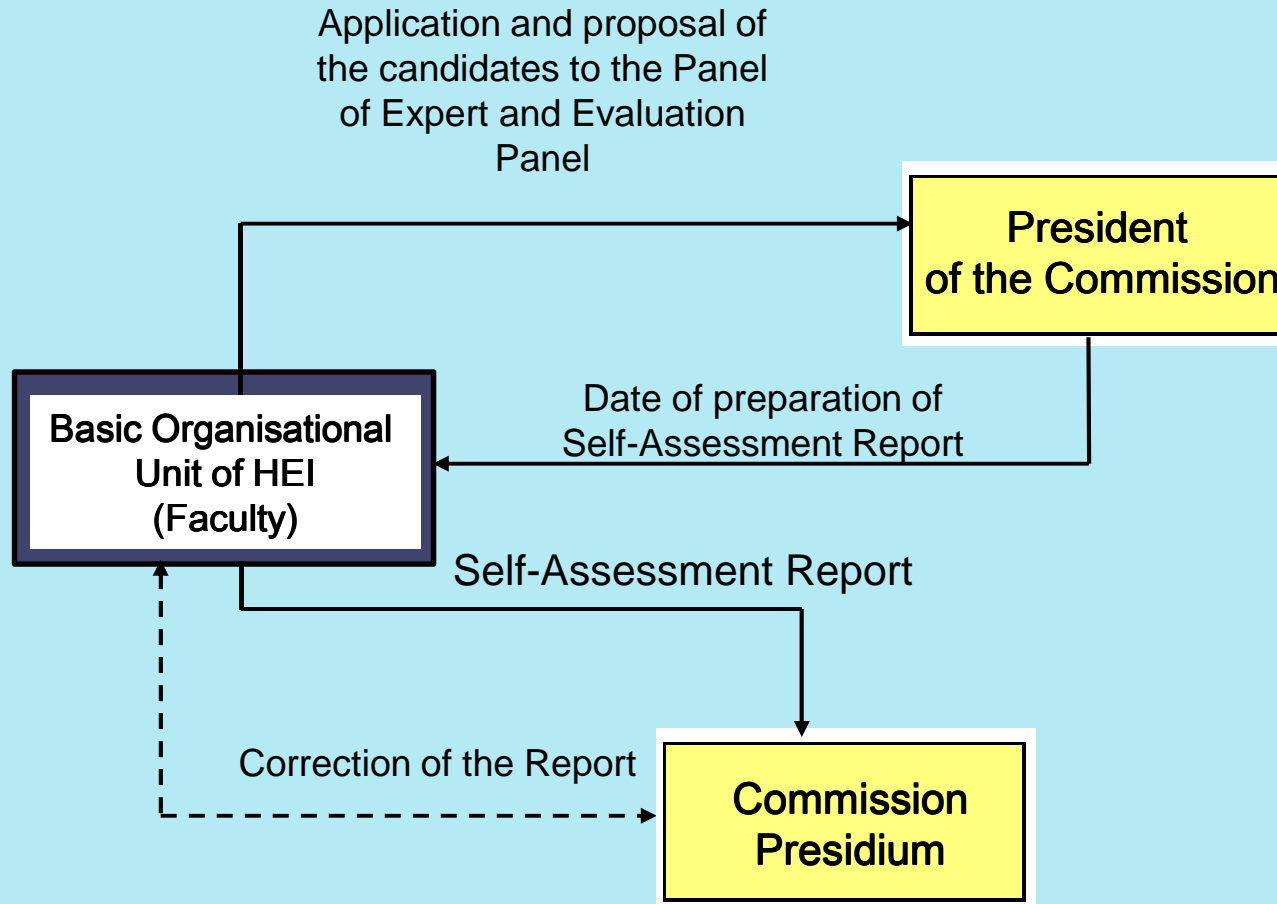


**KAUT accreditation is the
evidence of high quality of
education**

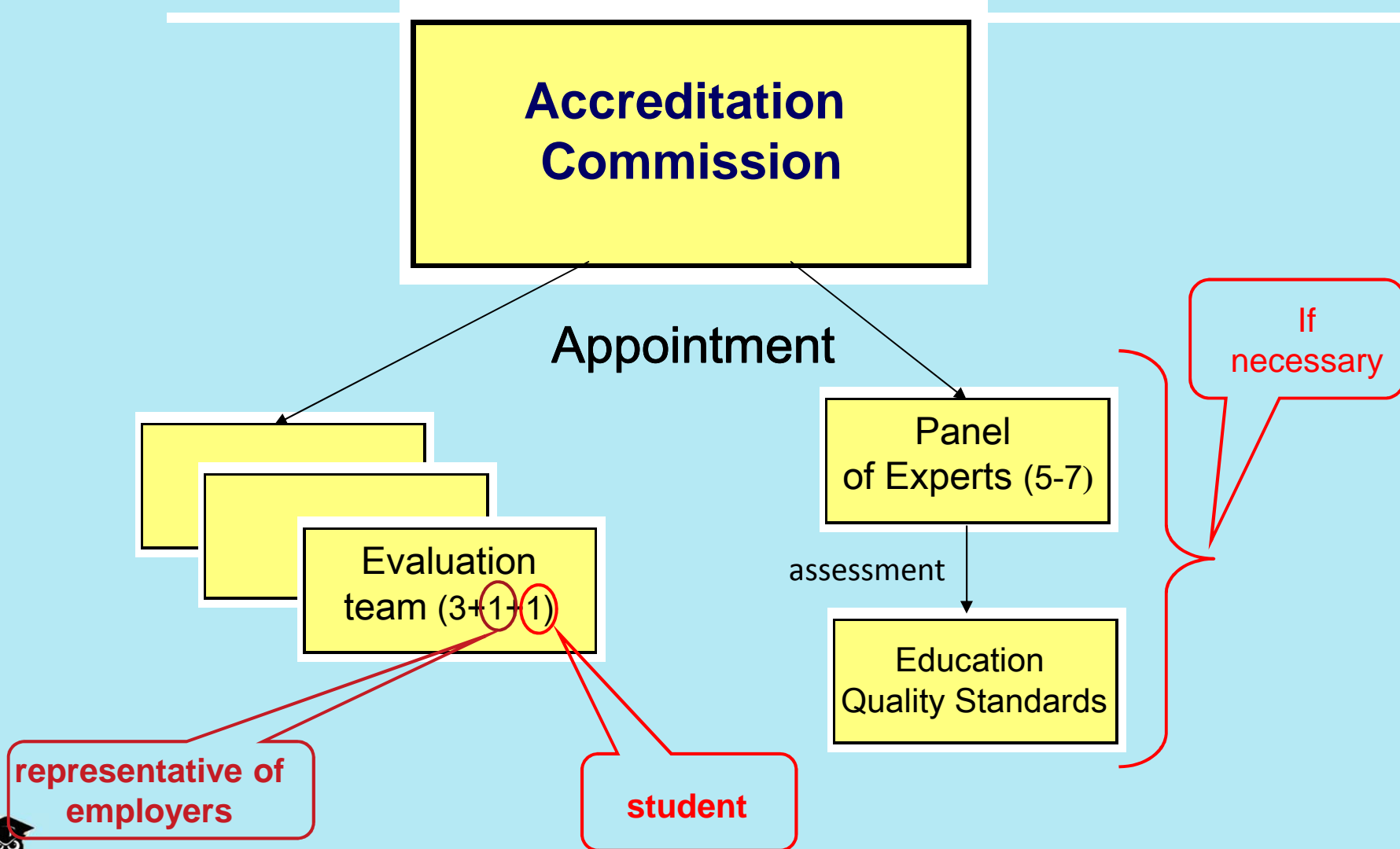
*(of a programme, of a faculty, of a
postgraduate studies....)*



Accreditation Procedure



Accreditation Procedure



Accreditation Procedure

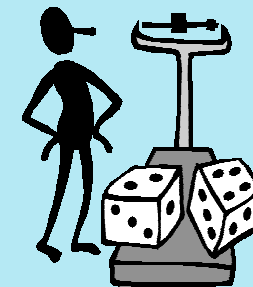
Evaluation Team (ET)

Accreditation documentation + self-assessment Report

Quality Assessment (Site visit)

Preparation of an Evaluation Team Report

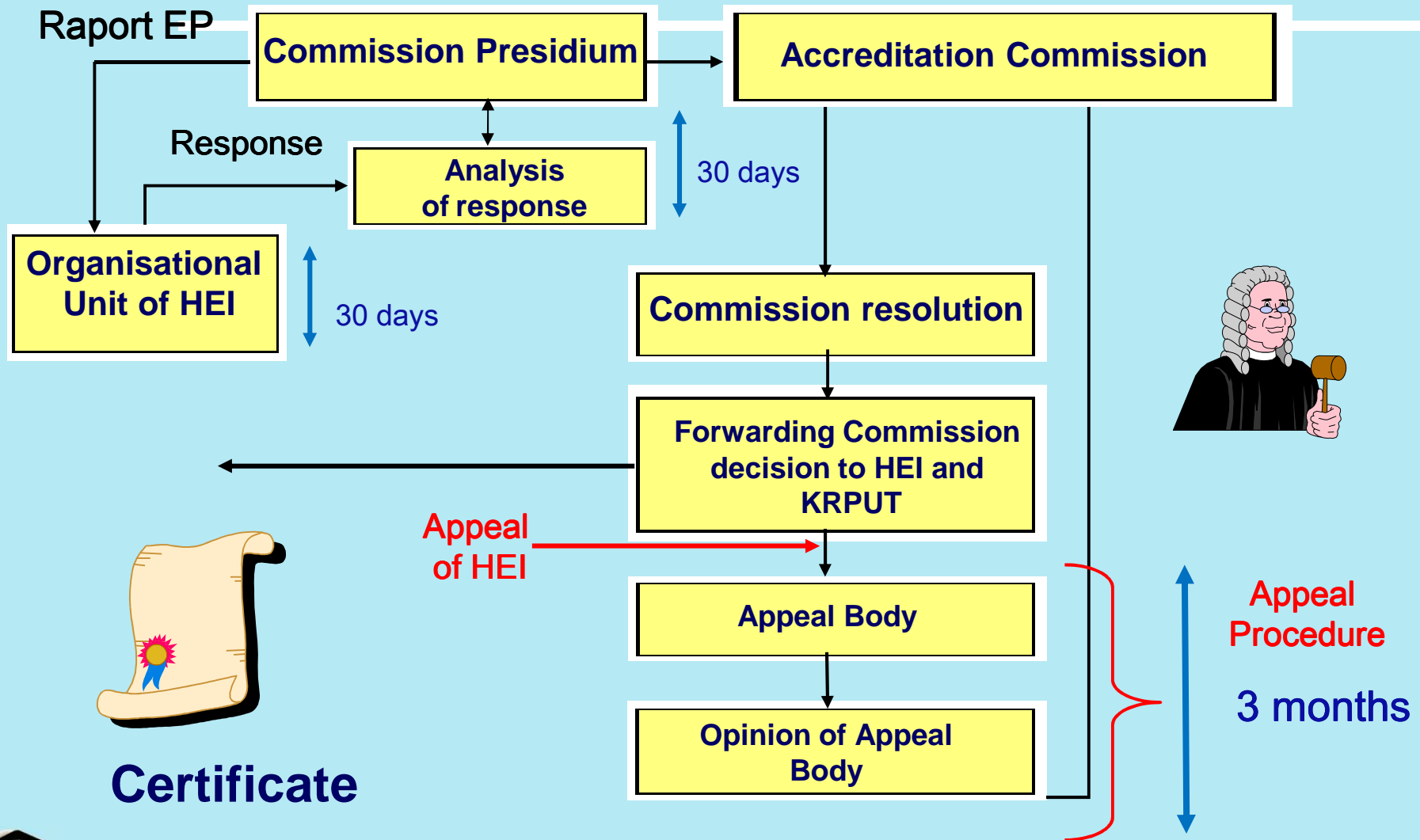
3 months



Forwarding Report to the Accreditation Commission



Accreditation Procedure

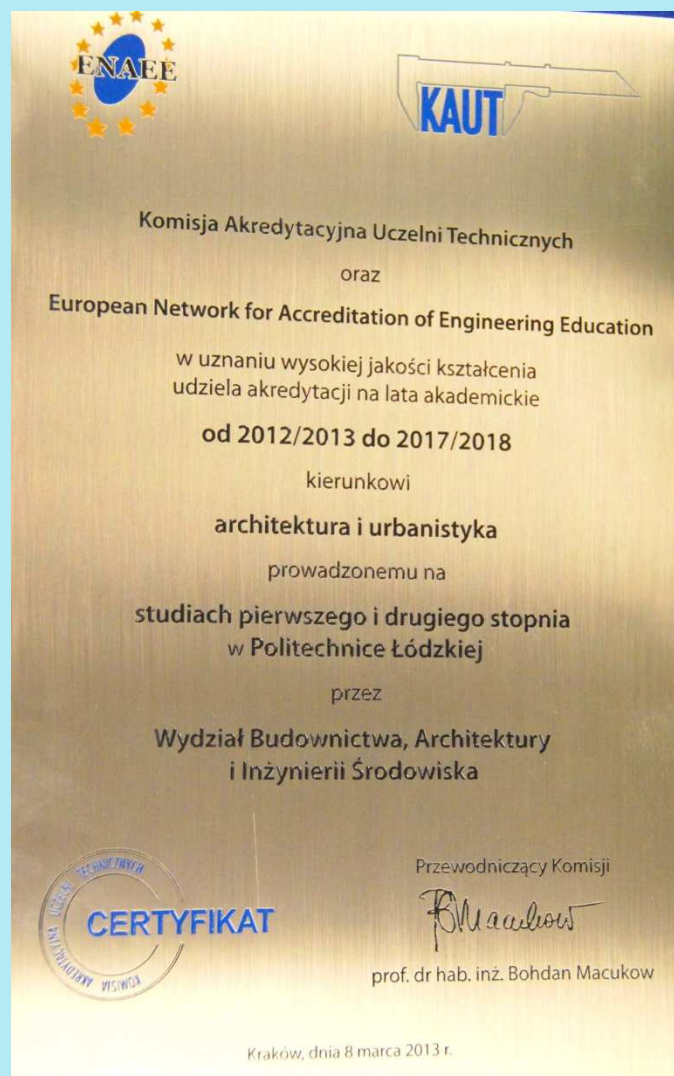


University	Awarded 1 and 2 cycle	Applications
AGH University of Science and Technology	4	
Kielce University of Technology	2	
Koszalin University of Technology	2	
Military University of Technology. Jaroslaw Dabrowski, Warsaw	1	1+(1)
Tadeusz Kosciuszko Cracow University of Technology	1	(11)
Lodz University of Technology	3	
Warsaw University of Technology	1	2 +(2)
University of Technology and Life Sciences in Bydgoszcz		2
Gdańsk University of Technology		6+(4)





KAUT Certificate



Standards and criteria of accreditation

Standards and criteria of accreditation define the attributes of the educational system analysed at the unit during the process of accreditation.

- ✓ strategy of the unit and its compatibility with the mission of the university and its alignment with regional priorities,
- ✓ compliance of the unit activities with legal provisions in force,
- ✓ competence of the teaching and research staff,
- ✓ accuracy of determining the learning outcomes and methods of verification of their achievement by the students,
- ✓ optimal completion of the educational process,
- ✓ content of the degree programmes,
- ✓ teaching and learning conditions,
- ✓ activities aimed at promoting technical sciences among students.



The attributes have been divided into two sections:

basic – meeting of all these attributes is a prerequisite for obtaining accreditation,

additional – meeting of any of these attributes is a testament to the higher quality of education than meeting only the basic attributes implies.

At least 50% of these attributes in each group have to be met



Basic Attributes (39)

1. Requirements concerning educational strategy of the unit
2. Requirements for teaching staff
3. Requirements for educational content and study programmes
4. Requirements for educational system and organization of studies
5. Requirements for teaching and learning conditions (environment)

Additional Attributes (40)

1. Requirements for teaching staff
2. Requirements for educational content and study programmes
3. Requirements for educational system and organization of studies
4. Requirements for teaching and learning conditions (environment)



Educational Strategy

Basic Attributes 1 cycle.

1. The unit has a clearly defined strategy, consistent with the strategy and mission of the parent university.
2. Educational outcomes of the degree programme are consistent with the mission of the university and strategy of the unit.
3. Learning outcomes of the degree programme are aligned with labour market needs.
4. Strategy of the unit (university) takes into account stakeholders of the educational process (students, graduate and doctoral students, employers, industry associations, government organizations, etc.).
5. The unit has a clearly defined structure of the decision-making process relating to the organization of the educational process, taking into account the scope of competence and responsibility of various bodies and decision makers.



Educational Strategy

Basic Attributes 1 cycle.

6. The unit has implemented and documented an internal system of education quality assurance, the elements of which include current documentation of modules, subjects, class inspections, assessment of teaching materials and student surveys. Results of class inspections and student questionnaires impact the evaluation results of teachers.
7. Internal quality assurance system includes a description of the procedures for verification whether the students achieve the learning outcomes defined, and control / corrective mechanisms governing the principles of conduct in all areas of instruction.



Basic Attributes 1 cycle.

1. The unit applying for accreditation meets the minimum staff requirement as defined in the Regulation issued by the minister responsible for higher education.
2. The unit applying for accreditation meets the staff : student ratio requirement, as defined in the Regulation issued by the minister responsible for higher education for the group of fields of study which includes the field of study/programme undergoing accreditation.
3. Structure of employment and qualifications of academic teachers employed by the unit, areas of knowledge represented by them, fields of science and scientific disciplines are consistent with the standards for areas of education encompassing the field of study (degree programme) being accredited.
4. The unit (university) has implemented a permanent system of support, advancement and development of both substantive and methodological qualifications of employees (seminars, scholarships, partial exemptions from teaching, national and international internships, etc.).



Educational Content and Study Programmes

Basic Attributes 1 cycle.

1. Curricula for first-cycle study programmes run by the unit both as full-time and part-time studies for the field of study undergoing accreditation meet the requirements set by the Law for compliance of the learning outcomes defined for the given degree programme with the learning outcomes set for the area of technical sciences degrees or a group of areas for programmes belonging to many areas. In the case of practical profile of studies, the unit (degree programme) has to meet the requirements defined in the Regulation issued by the minister responsible for higher education.
2. Number of ECTS credits required for graduation and duration of first-cycle studies managed by the unit both as full-time and part-time study programmes for the field of study being accredited is compliant with the Law.
3. The unit has defined the competencies of a graduate (graduate profile) for the degree programme under accreditation. Description of competencies applies to first-cycle studies ran by the unit both as full-time and part-time study programmes for the field of study being accredited. Description of competencies of a graduate determines their knowledge, skills and social competencies related to all specializations making up the given field of study.



Educational Content and Study Programmes

Basic Attributes 1 cycle.

4. Learning outcomes are the same for full-time and part-time studies.
5. Study programme for the field of study being accredited ensures achievement of all the assumed educational outcomes, and graduates do indeed achieve all the learning outcomes defined to at least a satisfactory degree.
6. One of the conditions for completion of first-cycle studies in the field of study being accredited is for the students to prepare a thesis or its equivalent engineering project.
7. The unit organizes or co-organizes student internships and apprenticeships, which together cover at least four weeks for first cycle study programmes, appoints counsellors for these internships and persons supervising their implementation. Educational outcomes of the internships/apprenticeships are closely related to the field of study undergoing accreditation.



Educational System and Organization of Studies

Basic Attributes 1 cycle.

1. The unit has sufficient financial resources to achieve the educational outcomes.
2. The unit has developed and implemented a credits system corresponding to the European Credit Transfer and Accumulation System (ECTS).
3. The university, and thereby its organizational unit, has drawn up study regulations commonly available to students, which, in accordance with the Law, determine the principles and procedures for the studies, and the rights and obligations of students.
4. At the unit, the number of full-time students of the study field being accredited is not less than the number of part-time students of the same degree programme (not applicable to non-public schools).
5. The unit (university) makes available the complete and current information about the educational offer, study programmes and plans, as well as on the rules of recruitment in printed form or electronically on the website of the unit or the parent institution.
6. The unit provides students with the opportunity to complete their studies according to individual programmes and study plans.



Educational System and Organization of Studies

Basic Attributes 1 cycle.

7. Information relating to the examination requirements and conditions for obtaining credits is available to students.
8. Information about the choice of specialisation, diploma profile and programmes is available at the unit in printed or electronic form on the website of the unit or its parent institution.
9. At least 30 percent of the subject lectures are conducted by staff of a professorial status (professors or associate professors i.e. holders of post-doctoral PhD hab. degree). Other lectures may be taught by lecturers or external experts.
10. Students have the opportunity to enlist the help of their academic teachers during the planned systematic consultation hours on a weekly basis, with at least two lesson hours (45 mins) of planned consultations per week per each teacher involved in the didactic programme.
11. Classes are held for groups with the number of students ensuring active participation of students in the educational programme.
12. All students signed up for laboratory classes complete a safety training session before the start of the said classes. Participation in the training is documented.



Teaching and Learning Conditions

Basic Attributes 1 cycle.

1. The university or unit has a smoothly functioning dean's office, offering administrative services for students of the unit (university).
2. The unit or university have implemented a system supporting job search activities of graduates and tracking their careers.
3. A student Self-government functions well within the unit, and the unit provides right conditions for its operation.
4. The unit or its parent institution ensure appropriate conditions for sports and recreation activities to be undertaken by students and academic teachers.
5. The unit has adequate infrastructure permitting the proper carrying out the teaching and learning process; this consists of university premises – auditorium classrooms, laboratory and workshops classrooms providing students with access to modern equipment. The number of places in university housing is adapted to the number of students.



Teaching and Learning Conditions

Basic Attributes 1 cycle.

6. Student laboratories meet all the conditions set in construction law, and in sanitary and safety regulations that release the classrooms for use as laboratories. Detailed requirements are listed in Annex.
7. Lecture halls are equipped with audiovisual aids.
8. The unit provides students with Internet access.
9. University or the unit have a library equipped with the literature necessary for proper carrying out the educational process for the field of study being accredited in the amount adequate for the total number of students of the unit (university). The library reading hall offers a sufficient number of places (seats).



Additional Attributes 1 cycle.

1. Among the employees included in the staff minimum and serving as a basis for the calculation of the student : staff ratio, the appropriate proportion of the number of professors and associate professors (holders of post-doctoral PhD hab. degree) to the number of doctors (PhD holders) is maintained. For a unit running first-cycle study programmes, the above ratio should be no lower than 1:2.
2. The unit has at least category B in the system of parametric evaluations determined by the minister responsible for science.
3. The unit has the right to confer academic degrees in technical sciences.
4. In the past two years, the unit participated in exchange programmes involving teaching and lecturing tasks for academic staff with other universities and research and scientific institutions.
5. In the implementation of the educational programmes, the unit is supported by experienced professionals with proven practical experience. Classes that are entrusted to experts from outside the university are purely technical, highly specialised.
6. The unit effectively obtains funds for science and research projects or services from external sources, and participates in European Union programmes.



Educational Content and Study Programmes

Additional Attributes 1 cycle.

1. The unit conducts continuing education related to the field of study undergoing accreditation (for example postgraduate studies, specialist courses).
2. In the study programme, modules related to the core subjects educational content (mathematics, physics, chemistry, biology) should correspond to a total of at least 18 ECTS credits.
3. The degree study programme prepares students to obtain professional qualifications (for studies in the fields where obtaining the appropriate qualifications/certifications is necessary to be able to work in the field).
4. Foreign language lectures are taught at the unit in subjects from both core and specialised educational content groups.
5. The unit offers first cycle degree programme in a foreign language.



Educational Content and Study Programmes

Additional Attributes 1 cycle.

6. The unit offering classes for the degree programme being accredited using the methods and techniques of distance education, meets all the requirements laid down by the Regulation issued by the minister responsible for higher education as concerns this method of teaching.
7. The unit conducts classes for the degree programme using innovative teaching methods and techniques.
8. The unit offers the opportunity of prolonging the internships/apprenticeships over the standard duration.
9. The unit is able to demonstrate that educational programmes contain current content and information, taking into account the latest research results and stimulating pro-innovative attitudes.
10. Study programmes are reviewed by employers.



Educational System and Organization of Studies

Additional Attributes 1 cycle.

1. The unit, through the process of promotion and recruitment, ensures the adequate competence level of candidates.
2. The unit has been participating in a domestic or foreign student exchange programmes for at least two years.
3. Classes are offered by the unit according to a schedule divided into semesters.
4. Studies at the unit in the field of study undergoing accreditation may be implemented by way of individual degree programmes and study plans.
5. Over 50 percent of lectures are offered by instructors of a professorial status.
6. All lectures in the field of study being accredited are conducted by teachers with at least doctoral degree or by specialists from outside the university.
7. Workshop groups number no more than 30, and laboratory groups – no more than 15 students.



Educational System and Organization of Studies

Additional Attributes 1 cycle.

8. The unit has defined the procedures for completion and submission of student graduate theses.
9. Theses are supervised only by university teachers of a professorial status.
10. Theses are reviewed.
11. Reviewers of theses supervised by a person not of a professorial status shall be academics with at least a doctoral degree.
12. Academic instructors do not, at the same time, supervise more than ten (cumulatively for the first and second cycle studies) student theses and engineering graduation projects that were started in one academic year.
13. The unit or university implements procedures for awarding mentions/distinctions to authors of best theses.
14. In the past two years, students of the degree programme under accreditation have been awarded distinctions/commendations for their theses.
15. In the past two years, students of the degree programme under accreditation have been awarded ministry awards or scholarships.



Teaching and Learning Conditions

Additional Attributes 1 cycle.

1. The unit has been, for at least two years, cooperating with companies, administrative bodies and local government entities and can document this cooperation.
2. A student research centre with open membership for students of the degree programme being accredited has functioned at the unit for at least two years.
3. In the past two years, students of the degree programme under accreditation have been awarded commendations/mentions for their activity in the student science clubs.
4. Dean's office for students in the field being accredited is equipped with an integrated information system handling both students and academics.
5. Information about the rules and hours of operation of the dean's office and the means of its communication with students is widely available, including in electronic form.



Teaching and Learning Conditions

Additional Attributes 1 cycle.

6. The unit has implemented a system of performance evaluation of administrative support offered to students and teachers, taking into account the opinions of students and instructors themselves.
7. The unit has information on the current utilisation of all didactical premises.
8. The unit or university offers students appropriate conditions for active participation in student cultural life.
9. The unit ensures that the needs of students with disabilities are met, and ensures conditions for their active participation in student cultural life.



Basic Attributes (39)

1. Requirements for teaching staff
2. Requirements for educational content and study programmes
3. Requirements for educational system and organization of studies
4. Requirements for teaching and learning conditions (environment)

Additional Attributes (46)

1. Requirements for teaching staff
2. Requirements for educational content and study programmes
3. Requirements for educational system and organization of studies
4. Requirements for teaching and learning conditions (environment)

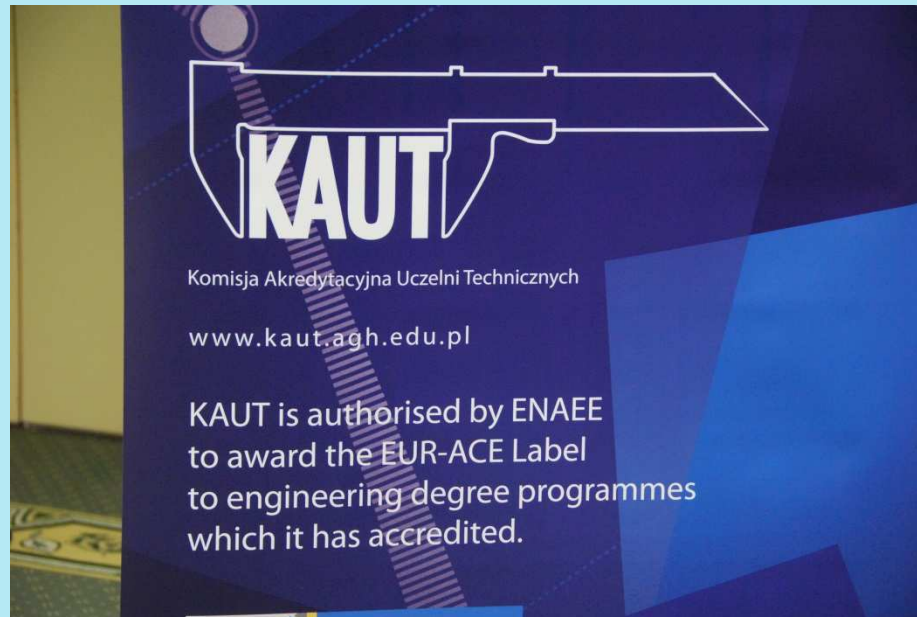


European Dimension of KAUT



European accreditation

In September 2013, the Commission has been authorised by the European Network for Accreditation of Engineering Education (ENAE) to confer, along with standard KAUT accreditation, the European EUR - ACE[®] Label certificate



Agency		Country	Level
ASIIN	Fachakkreditierungsagentur für Studiengänge der Ingenieurwissenschaften, der Informatik, der Naturwissenschaften und der Mathematik e.V	Germany	I° & II°
CTI	Commission des Titres d'Ingénieur	France	II°
EngC	Engineering Council	Great Britain	I° & II°
IE	Engineers Ireland	Ireland	I° & II°
OE	Ordem dos Engenheiros	Portugal	I° & II°
AEER	Association for Evaluation Education in Russia	Russia	I° & II°
MÜDEK	Association for Evaluation and Accreditation of Engineering Programmes	Turkey	I°
ARACIS	The Romanian Agency for Quality Assurance in Higher Education	Romania	I°
QUACING	AGENZIA PER LA Certificazione di Qualità e l'Accreditamento EUR-ACE dei Corsi di Studio in Ingegneria	Italy	I° & II°
KAUT	Komisja Akredytacyjna Uczelni Technicznych	Poland	I° & II°
OAQ	Organ für Akkreditierung und Qualitätssicherung der Schweizerischen Hochschule	Switzerland	I° & II°
ANECA	National Agency for Quality Assessment and Accreditation of Spain	Spain	I° & II°
FINEEC	Korkeakoulujen arviointineuvosto KKA	Finland	I°



European Accreditation of Engineering Programmes
EUR-ACE® Bachelor

This is to certify that the engineering degree programme

**Architektura i Urbanistyka
(Architecture and Urban Planning)**

provided by
**Politechnika Łódzka
(Lodz University of Technology)**

accredited by
**Komisja Akredytacyjna Uczelni Technicznych
(Accreditation Commission of Universities of Technology)**

on date 2013 until date 2018

satisfies the criteria for Bachelor degree programmes specified in the EUR-ACE® Framework Standards for the Accreditation of Engineering Programmes, and therefore for the above period of accreditation is designated as a

EUROPEAN-ACCREDITED ENGINEERING BACHELOR DEGREE PROGRAMME.

certificate

 For the European Network for Accreditation of Engineering Education (ENAAE)

 Komisja Akredytacyjna Uczelni Technicznych (KAUT)

The President
Dr. Iring Wassar

The president
Prof. Bohdan Maszkow





Brussels, January 2014

Kraków, January 2014

A graduate of this programme may define him/herself "EUR-ACE® Bachelor/Master" as appropriate.

European Accreditation of Engineering Programmes
EUR-ACE® Master

This is to certify that the engineering degree programme

**Inżynieria Materiałowa
(Material Engineering)**

provided by
**Akademia Górniczo-Hutnicza w Krakowie
(AGH University of Science and Technology)**

accredited by
**Komisja Akredytacyjna Uczelni Technicznych
(Accreditation Commission of Universities of Technology)**

on 2013 until 2018

satisfies the criteria for Master degree programmes specified in the EUR-ACE® Framework Standards for the Accreditation of Engineering Programmes, and therefore for the above period of accreditation is designated as a

EUROPEAN-ACCREDITED ENGINEERING MASTER DEGREE PROGRAMME.

certificate

 For the European Network for Accreditation of Engineering Education (ENAAE)

 Komisja Akredytacyjna Uczelni Technicznych (KAUT)

The President
Dr. Iring Wassar

The President
Prof. Bohdan Maszkow





Brussels, January 2014

Kraków, January 2014

A graduate of this programme may define him/herself "EUR-ACE® Bachelor/Master" as appropriate.



European Certificates



European Certificates



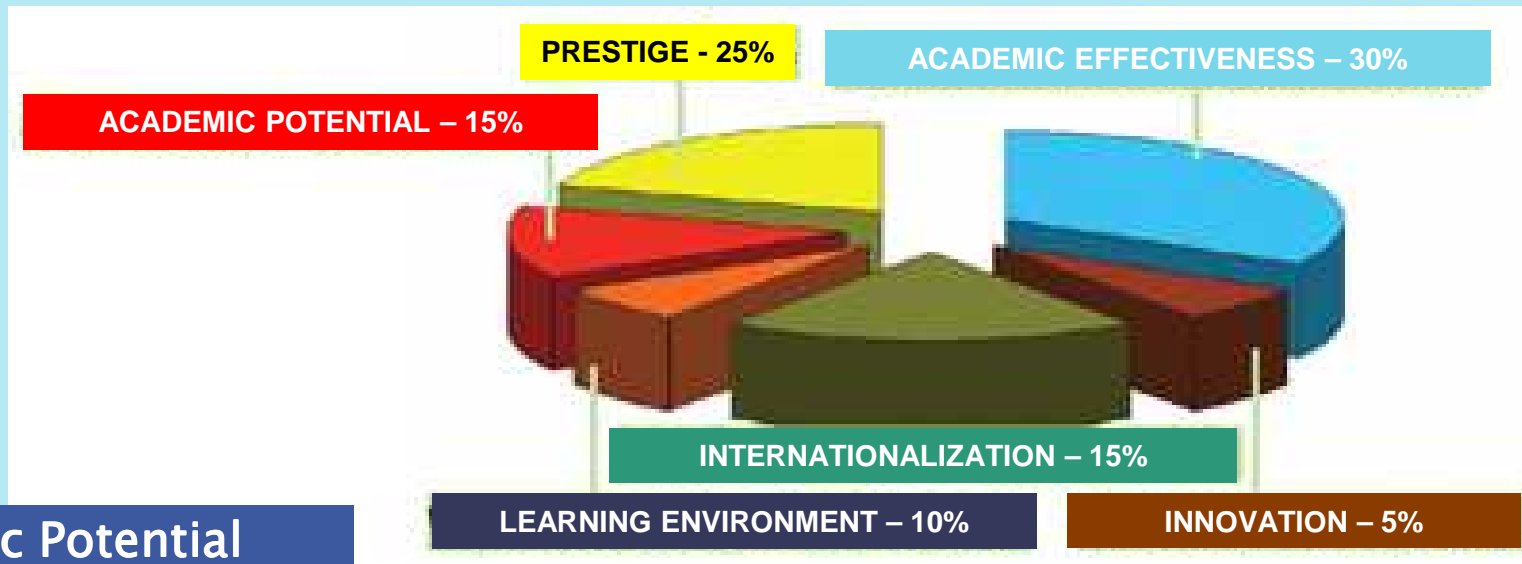
European Certificates



KAUT cooperation



„Perspektywy” Ranking 2013



Academic Potential 15%

Parametric evaluation – rating of the research capacity of HEI’s units carried by the Ministry of Science and Higher Education. **(6%)**

Right to confer PhD with habilitacja degree – measured by ratio of rights to award such degrees to the total number of rights to grant PhD degrees. **(2%)**

Rights to award PhD degrees – measured by ratio of rights to award such degrees to the total number of master degrees **(2%)**

Staff with highest qualifications – defined as the ratio of the number of professors and PhDs with habilitacja to the total number of teaching staff employed by the HEI. **(3%)**

Accreditations – measured by the number of accreditations with a distinction granted by the Polish Accreditation Committee (PKA), and **accreditations granted by national and international professional organizations.** **(2%)**



Agreement KAUT - PIIB

Agreement between KAUT and Polish Chamber of Civil Engineers was signed 18 December 2012 expressing concern of high level of the alumni of our universities in the field of Civil Engineering.



The End

