



official stamp  
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Education Institution

## POLITECHNIKA KRAKOWSKA im. Tadeusza Kościuszki CRACOW UNIVERSITY OF TECHNOLOGY

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international ‘transparency’ and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, content and status of the studies that were pursued and successfully completed at home or abroad by the individual named in the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

### DIPLOMA SUPPLEMENT Valid with the Diploma no. 75170 (COPY)

#### I. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1. Surname: **GIERADA**
2. First name(s): **MACIEJ**
3. Date of birth: **November 2, 1990**
4. Student identification number or code: **87074**

#### II. INFORMATION IDENTIFYING THE QUALIFICATION

1. Number of qualification diploma: **75170**
2. Name of qualification and title conferred <sup>1)</sup>: **Graduate Engineer (inżynier)**
3. Main field of study and field of specialization for the qualification:  
**Chemical Technology**  
**Light Organic Technology**

4. Name and status of awarding institution <sup>1)</sup>:  
**Politechnika Krakowska im. Tadeusza Kościuszki**  
**Faculty of Chemical Engineering and Technology (Wydział Inżynierii i Technologii Chemicznej)**

**Politechnika Krakowska is an autonomous academic State Institution of Higher Education operating in full compliance with the Act of 27<sup>th</sup> July 2005 - Law of Higher Education. Through its faculties it is entitled to confer the degrees of *doktor* and *doktor habilitowany* and to submit petitions for bestowing the title of *profesor*.**

**Politechnika Krakowska was established in 1945 as the Faculties of Architecture, Engineering and Transport at Akademia Górnictwo-Hutnicza in Cracow. It acquired independent status by Resolution of the Council of Ministers of 21<sup>st</sup> July 1954.**

5. Name and status of institution administering studies <sup>2)</sup>:  
**The full course of study completed at Politechnika Krakowska in academic years 2009/10-2012/13.**  
**Status of institution – as described in II.4.**
6. Language(s) of instruction/ examination: **Polish**

### III. INFORMATION ON THE LEVEL OF THE QUALIFICATION

1. Level of qualification: **first-cycle study**
2. Official length of programme: **3,5 years**

3. Access requirements:

a/ **required documents:**

- **certificate of secondary school leaving examination**

b/ **admission requirements for the first year of study at Politechnika Krakowska:**

- **ranking of final grades in the secondary school leaving examination – new examination for the secondary-school certificate**

### IV. INFORMATION ON THE CONTENTS AND RESULTS GAINED <sup>3)</sup>

1. Mode of study: **full-time study**

2. Programme requirements:

**Education standards set out in the Directive of the Minister of National Education and Sport of 18<sup>th</sup> April 2002 on education standards for particular fields of study and levels of education (Journal of Laws number 116, item 1004 with further amendments).**

**Education standards specify general requirements, including number of hours of study for a subject, graduate profile, programme content of a subject in particular groups of subjects: general education, primary and specialization, as well as regulations and requirements for practical placements.**

3. Programme details and the individual achievements, grades/ marks/ ECTS credits obtained:

**Academic year 2009/10**

**Term 01**

Subject	Number of hours in term					Final grade		Credits in ECTS	
	L.	Cl.	Lab.	C.Lab.	P.	S.	Numerical grade	ECTS grade	ECTS
Physical education	0	30	0	0	0	0	5,0	A	0,0
English language	0	30	0	0	0	0	4,0	C	1,0
Philosophy	30	0	0	0	0	0	5,0	A	2,0
Mathematics	45	30	0	0	0	0	4,0	E	8,0
Physics	30	15	15	0	0	0	4,0	E	8,0
Information technology	15	0	15	0	0	0	4,5	B	3,0
Principles of chemistry	30	30	0	0	0	0	4,0	E	8,0

**Academic year 2009/10**

**Term 02**

Subject	Number of hours in term					Final grade		Credits in ECTS	
	L.	Cl.	Lab.	C.Lab.	P.	S.	Numerical grade	ECTS grade	ECTS
Physical education	0	30	0	0	0	0	5,0	A	0,0
English language	0	30	0	0	0	0	3,5	D	1,0
Methodology of studying - knowledge management	15	0	0	0	0	0	4,5	B	1,0
Preparing for the creative professional career	15	0	0	0	0	0	5,0	A	1,0
Basic law protection of intellectual and industrial properties	15	0	0	0	0	0	3,5	D	1,0

<b>Ecological hazards, occupational safety and ergonomics</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,0</b>	<b>C</b>	<b>1,0</b>
Mathematics	30	15	0	0	0	0	4,0 E	C	5,0
Using of computer programmes in chemical engineering and technology	0	0	30	0	0	0	5,0	A	3,0
Economy	30	0	0	0	0	0	3,0	E	2,0
Inorganic chemistry	15	15	30	0	0	0	4,5 E	B	6,0
Organic chemistry	30	15	0	0	0	0	5,0 E	A	5,0
Engineering graphics	0	0	45	0	0	0	3,5	D	4,0

#### Academic year 2010/11

##### Term 03

Subject	L.	Number of hours in term				Final grade		Credits in ECTS	
		Cl.	Lab.	C.Lab.	P.	S.	Numerical grade	ECTS grade	
English language	0	30	0	0	0	0	4,5	B	1,0
Electrical engineering and electronics	15	0	15	0	0	0	3,5	D	2,0
Inorganic chemistry	30	0	30	0	0	0	5,0 E	A	6,0
Organic chemistry	0	0	75	0	0	0	5,0	A	6,0
Analytical chemistry	15	0	30	0	0	0	4,0	C	3,0
Physical chemistry	15	15	0	0	0	0	3,5	D	3,0
Technical thermodynamics	15	15	0	0	0	0	3,0 E	E	3,0
Science of mechanics	15	15	0	0	15	0	3,0 E	E	4,0
Technical safety	30	0	0	0	0	0	3,0	E	2,0

#### Academic year 2010/11

##### Term 04

Subject	L.	Number of hours in term				Final grade		Credits in ECTS	
		Cl.	Lab.	C.Lab.	P.	S.	Numerical grade	ECTS grade	ECTS
English language	0	30	0	0	0	0	3,5 E	D	2,0
Analytical chemistry	15	0	30	0	0	0	4,0 E	C	3,0
Physical chemistry	15	15	60	0	0	0	4,0 E	C	6,0
Ecology and industry	30	0	0	0	0	0	3,5	D	2,0
Basis of the Chemical Technology	30	30	30	0	0	0	3,5 E	D	6,0
The basics of plastics technology	30	0	0	0	0	15	4,0	C	3,0
Engineering of Chemical Apparatus	15	0	0	0	15	0	3,5	D	3,0
Chemical engineering	15	15	0	0	0	0	4,0	C	3,0
Quality management	30	0	0	0	0	0	4,5	B	2,0

#### Academic year 2011/12

##### Term 05

Subject	L.	Number of hours in term				Final grade		Credits in ECTS	
		Cl.	Lab.	C.Lab.	P.	S.	Numerical grade	ECTS grade	
Physical methods for analysis of chemical compounds	15	0	0	0	0	0	3,5	D	1,0
Materials science and corrosion	30	0	0	0	0	0	4,0	C	2,0
Raw materials and processes of inorganic technology	45	30	0	0	0	0	4,0 E	C	5,0
Raw materials and processes of organic technology	60	15	0	0	15	0	5,0 E	A	6,0
Chemical thermodynamics	15	15	0	0	0	0	4,0	C	2,0
Chemical Engineering	15	15	30	0	15	0	4,5 E	B	5,0

<b>Automatics and measurements</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,5</b>	<b>B</b>	<b>2,0</b>
<b>Functional food additives</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>5,0</b>	<b>A</b>	<b>1,0</b>
<b>Laboratory of modern chromatographic techniques</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,5</b>	<b>B</b>	<b>2,0</b>
<b>I. Analysis of environmental pollution</b>									
<b>Technological project</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>4,0</b>	<b>C</b>	<b>4,0</b>

### Academic year 2011/12

#### Term 06

Subject	Number of hours in term						Credits in Numerical grade	ECTS grade	ECTS
	L.	Cl.	Lab.	C.Lab.	P.	S.			
<b>Physical methods for analysis of chemical compounds</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,5</b>	<b>E</b>	<b>4,0</b>
<b>English technical terminology</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,0</b>	<b>A</b>	<b>2,0</b>
<b>High purity materials and materials for special assignment</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,5</b>	<b>B</b>	<b>2,0</b>
<b>Poisonous vegetable substances</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>5,0</b>	<b>A</b>	<b>1,0</b>
<b>Technology of fragrances</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>4,5</b>	<b>B</b>	<b>2,0</b>
<b>Organic technology</b>	<b>30</b>	<b>0</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,0</b>	<b>E</b>	<b>A</b>
<b>Chemistry of cosmetic raw materials</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,5</b>	<b>B</b>	<b>2,0</b>
<b>The basics of drugs technology</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,0</b>	<b>A</b>	<b>2,0</b>
<b>The basis of cosmetics technology</b>	<b>15</b>	<b>0</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,5</b>	<b>E</b>	<b>B</b>
									<b>6,0</b>

### Academic year 2012/13

#### Term 07

Subject	Number of hours in term						Final grade Numerical grade	ECTS grade	Credits in ECTS
	L.	Cl.	Lab.	C.Lab.	P.	S.			
<b>ChemCAD in process designing</b>	<b>15</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,5</b>	<b>B</b>	<b>3,0</b>
<b>Selected Fields of Organic Technology</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,5</b>	<b>B</b>	<b>3,0</b>
<b>Surfactants</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>4,5</b>	<b>B</b>	<b>2,0</b>
<b>Fragrances</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>5,0</b>	<b>A</b>	<b>1,0</b>
<b>Enzymes</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>5,0</b>	<b>A</b>	<b>1,0</b>
<b>Oxidizing processes in the organic technology</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>5,0</b>	<b>A</b>	<b>2,0</b>
<b>Technology of renewable sources processing</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>5,0</b>	<b>A</b>	<b>1,0</b>
<b>Diploma seminary</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>5,0</b>	<b>A</b>	<b>1,0</b>
<b>Practical apprenticeship</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,0</b>	<b>A</b>	<b>1,0</b>
<b>Diploma work</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,0</b>	<b>A</b>	<b>15,0</b>

#### Abbreviations:

L. – lectures

Cl. – classes

Lab. – laboratory classes

P. – projects

S. – seminars

E – exam

Pass – requirements in relevant subject fulfilled

**Practical placements: 6 weeks**

**Topic of the diploma thesis: "The role of side reactions in the process of  $\alpha$ -pinene isomerization"**

**Grade granted for the diploma thesis: very good (bardzo dobry)**

**Diploma examination grade: very good (bardzo dobry)**

4. Grading scheme and, if available, grade distribution guidance:

In compliance with the Regulations of the Cracow University of Technology the following scale of grades applies:

		ECTS
1. bardzo dobry	(bdb)	5,0
2. ponad dobry	(pdb)	4,5
3. dobry	(db)	4,0
4. dość dobry	(ddb)	3,5
5. dostateczny	(dst)	3,0
6. niedostateczny	(nd)	2,0

**The lowest pass grade is: satisfactory (dostateczny).**

**The overall classification of the qualification is a weighted average of: grades obtained during the study, the diploma thesis grade and the diploma examination grade.**

5. Overall classification of the qualification <sup>1)</sup>: **good plus (4,5) - ponad dobry (4,5)**

## **V. INFORMATION ON THE FUNCTION OF THE QUALIFICATION**

1. Access to further study:

**The graduate is eligible to apply for second-cycle and postgraduate study.**

2. Professional status (if applicable):

**The graduate is eligible for employment in the public and private sectors (i.e. in state-owned or private enterprises, manufacture and service sectors, and public institutions).**

## **VI. ADDITIONAL INFORMATION <sup>3)</sup>**

1. Additional information, including practical placements completed, research activities undertaken, awards received:

**The graduate holds a certificate in the English language at B2 level issued by the Foreign Languages Centre at the Cracow University of Technology in 2012.**

2. Sources of further information on the qualification obtained, including institution's website:

**Faculty of Chemical Engineering and Technology of Cracow University of Technology:**

**<http://www.chemia.pk.edu.pl>**

**Cracow University of Technology: <http://www.pk.edu.pl>**

**Bureau for Academic Recognition and International Exchange: <http://www.buwiwm.edu.pl>**

## VII. CERTIFICATION OF THE SUPPLEMENT

1. Date: **February 11, 2013.**
2. Signature and name-bearing stamp of the dean or head of the organizational unit:



A handwritten signature in black ink, appearing to read "J. G." or "John G.", placed over the official stamp.

## VIII. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

### 1. Access to the higher education

The total duration of education until completion of a school which offers the possibility of taking the secondary school leaving examination (maturity examination) is 12-15 years. Having passed successfully the secondary school leaving examination (maturity examination), graduates are awarded a secondary school leaving certificate (maturity certificate) which entitles them to apply for admission to a higher education institution.

### 2. Higher education system

Higher education system In Poland and the bases for its operation are laid In the Act of 27 July 2005 – Law on Higher Education. Its provisions are applied both to State (public) and non-State (non-public) higher education institutions, in which programmes of study are offered on the same basis and upon completion of the same requirements. Higher education institutions are divided, irrespective of their status, into academic and vocational ones. An academic higher education institution is a school in which at least one of its organizational units is entitled to award the academic degree of *doctor*.

A vocational higher education institution is a school offering first or second cycle study programmes or one-tier (long-cycle) study programmes, and which is not entitled to award the academic degree of *doctor*.

Study programmes are offered as first cycle, second cycle and one-tier (long-cycle) programmes and doctoral (third cycle) programmes.

First cycle programmes leading to a *licencjat* degree last from 6 to 8 semesters, and those leading to an *inżynier* degree last seven or eight semesters.

Second cycle degree programmes last three or four semesters and one-tier (long-cycle) programmes leading to a *magister* degree last for 9 to 12 semesters.

Doctoral study programmes last no longer than 4 years and upon completion graduates are awarded a certificate. Under a separate procedure graduates are conferred the academic degree of a *doctor* or *doctor w zakresie sztuki*. Higher education programmes and doctoral programmes may be offered as full-time or part-time (extramural) programmes.

### 3. Degrees awarded to graduates of higher education institutions

- *licencjat, licencjat pielęgniarska* or *licencjat położnictwa, inżynier, inżynier pożarnictwa, inżynier architekt* and *inżynier architekt krajobrazu* – awarded to graduates of first cycle programmes;
- *magister* and equivalent degrees of *magister sztuki, magister farmacji, magister inżynier, magister inżynier architekt, magister inżynier architekt krajobrazu, magister inżynier pożarnictwa, magister pielęgniarska, magister położnictwa, lekarz, lekarz dentysta, lekarz weterynarii*.

### 4. ECTS

The number of the ECTS credits provided by the plan of studies for one semester is from 27 to 33, while it is 60 ECTS credits for an academic year. It is necessary to gather 180–240 ECTS credits to complete a first cycle programme, 90–120 ECTS credits to complete a second cycle programme, and 270–360 ECTS credits to complete a one-tier (long-cycle) programme.

### 5. Academic degrees, degrees in arts, academic title, academic title in arts

The academic degrees are the degrees of *doktor* and *doktor habilitowany* of a specific area of science in a given scientific discipline. The degrees awarded in arts are the degrees of *doctor* and *doctor habilitowany* of a specific area of arts in a given artistic discipline.

Academic degrees are conferred by organizational units of higher education institutions, Polish Academic of Sciences and research and development institutions in compliance with the powers granted under a separate procedure.

The academic title is the degree of *profesor* of a specific area of science, while the equivalent degree in arts is the degree of *professor* of a specific area of arts. The degree of *profesor* is conferred by the President of the Republic of Poland.

- 1) In original language.
- 2) Indicate the status of the higher education institution administering studies: State, non-State/State-recognised; indicate the name of the higher education institution offering the study programme jointly in original language.
- 3) If necessary, additional pages may be added to fill in information in item IV.2-4 and VI.1-2.

\*\*) Current page number,

\*\*\*) Total number of pages.