

DIPLOMA SUPPLEMENT

Mihály Hegyi

Budapest University
of Technology and Economics



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Number of pages of the diploma supplement: 8

Other institutional identifier: DS-BME-1408/2025

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1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1. Family name(s)

Hegyí

1.2. Give name(s)

Mihály

1.3. Place of birth, Date of birth (day/month/year)

Hungary, Budapest, 25.07.2000

1.4. Student identification number or code

72501952078

1.5. Number of registry

T133218/FI23344/4N-M2-2022

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1. Title of qualification conferred

Chemical Engineer

2.2. Main field(s) of study for the qualification

Chemical Engineering

2.3. Name and status of awarding institution

Budapest University of Technology and Economics, FI23344, state university, accredited by the Hungarian Accreditation Committee with its resolution 2023/6/IX.

2.4. Name and status of institution (if different from 2.3) administering studies

2.5 Language of instruction

Hungarian

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1. Level of qualification

Master (second cycle), Level 7.

3.2. Official length of program

4 semesters

3.3. Access requirements

Diploma with college degree or diploma with university degree.

4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1. PROGRAM REQUIREMENTS

4.1.1. Program requirements act number

The training and outcome requirements for higher education vocational training, bachelor's and master's programmes except for teacher training are determined in the Ministerial Notice issued according to Article 16/A of Act CCIV of 2011 on National Higher Education available at: <https://kormany.hu/dokumentumtar/kepzesi-es-kimeneti-kovetelmenyek-1> or <https://kormany.hu/dokumentumtar/kepzesi-es-kimeneti-kovetelmenyek-2>. The training and outcome requirements for teacher training courses are determined in EMMI Decree No 8/2013 (I. 30.) on common requirements for teacher training and on training and outcome requirements for certain teacher training courses and ITM Decree No 63/2021 (XII. 29.) on training and outcome requirements for certain teacher training courses.

4.1.2. Aim of study

Education of chemical engineers

4.1.3. Required number of credit points

120

4.1.4. System of knowledge checking

Examinations, midterm control, thesis and its defending at public final examination

4.1.5. Required professional practice, credit value

Students perform a professional practice (0 credit) outside the institution for at least 4 weeks.

4.2. PROGRAM DETAILS AND THE INDIVIDUAL GRADES / MARKS / CREDITS OBTAINED

4.2.1. Knowledge acquired during the programme of study (requirement designation, credit points, grades)

Term: 2022/23/2

Number of credits: 35

Subject	Subject Code	Lessons*	Requirement	Credit	Grade
LCA of Power Generation Systems	BMEGEENMLCA	W: 1/0/2	Mid-term mark	4	Excellent
Economic Analysis of Technology	BMEGT30MS07	W: 2/0/0	Exam	2	Excellent
Mathematics M1c - Differential Equations	BMETE90MX44	W: 2/1/0	Exam	3	Excellent
Materials science: traditional structural materials and polymers	BMEVEFAM110	W: 2/0/1	Exam	4	Excellent
Laboratory Project I	BMEVEKFM100	W: 0/0/4	Mid-term mark	3	Excellent
Chemical Process Design and Control	BMEVEKFM101	W: 2/0/2	Mid-term mark	4	Excellent
Modern Separation Technologies	BMEVEKFM104	W: 2/0/1	Mid-term mark	3	Excellent
Organic Chemistry	BMEVESZM101	W: 3/0/0	Exam	4	Excellent
Individual project 1	BMEVETOM001	S:	Mid-term mark	3	Excellent
Individual project 2	BMEVETOM002	S:	Mid-term mark	3	Excellent
Statistical Tools of Quality Improvement	BMEVEVMU632	W: 2/0/0	Mid-term mark	2	Excellent

Term: 2023/24/2

Number of credits: 32

Subject	Subject Code	Lessons*	Requirement	Credit	Grade
Social and Visual Communication	BMEGT43MS07	W: 2/0/0	Mid-term mark	2	Excellent
Laboratory Project II	BMEVEKFM200	W: 0/0/4	Mid-term mark	3	Excellent
Thesis project I.	BMEVEKFM300	W: 0/0/11	Mid-term mark	15	Excellent
Conventional and New Technologies of Energy Production	BMEVEKFM302	W: 2/0/1	Exam	4	Excellent
Chemical Production Control	BMEVEKFM303	W: 2/0/0	Exam	2	Excellent
Biology, biotechnology	BMEVEMBM301	W: 2/0/0	Mid-term mark	3	Excellent
Computational Chemistry	BMEVESAM301	W: 2/0/1	Exam	3	Good

Term: 2024/25/1

Number of credits: 31

Subject	Subject Code	Lessons*	Requirement	Credit	Grade
Technology Management	BMEGT20M005	W: 2/0/0	Mid-term mark	2	Excellent
Design of Experiments 2	BMEVEKFM209	W: 2/0/0	Mid-term mark	3	Excellent
Thesis project II.	BMEVEKFM400	W: 0/0/11	Mid-term mark	15	Excellent
Petrochemistry	BMEVEKFM402	W: 2/0/3	Exam	6	Excellent
Industrial practice project	BMEVEKFM888	S:	Signature	0	Signed
Quality Assurance	BMEVESAM206	W: 2/0/0	Mid-term mark	2	Excellent
Unit Processes of Organic Chemistry	BMEVESZM207	W: 0/2/0	Mid-term mark	3	Good

* W: Lessons per week, S: Lessons per semester

** If the number of lessons contains / marks, like in le/p/ly, its meaning is: number of lectures/class practices/laboratories.

Number of credits: 98

4.2.2. Knowledge acquired earlier and during parallel or exchange programmes of study (requirement designation, credit points, grades)

Subject	Subject Code	Recognised	Requirement	Credit	Grade	Date
Optical diagnostics in energy and process engineering	BMEVETOK118	Foreign accreditation	Vizsga	5	Excellent	29.05.2024.
Fuel cells and electrolyzers	BMEVETOK119	Foreign accreditation	Vizsga	5	Excellent	29.05.2024.
Pumps and turbines	BMEVETOK120	Foreign accreditation	Vizsga	5	Excellent	29.05.2024.
Polymer recycling	BMEVETOK121	Foreign accreditation	Vizsga	5	Excellent	29.05.2024.
Data science for engineers	BMEVETOK122	Foreign accreditation	Vizsga	5	Excellent	29.05.2024.
Recycling of electronic wastes	BMEVETOK123	Foreign accreditation	Vizsga	5	Excellent	29.05.2024.

Number of credits: 30

4.2.3. Recognised knowledge acquired informally or during work and other experience (requirement designation, credit points, grades

Subject	Subject Code	Recognised	Requirement	Credit	Eredmény	Date
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Number of credits: 0

Total number of credits: 128

4.3. GRADING SCHEME AND, IF AVAILABLE, GRADE DISTRIBUTION GUIDANCE

All grades at least pass (2).

4.4. OVERALL CLASSIFICATION OF THE QUALIFICATION

excellent with highest honours (4,98)

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1. Access to further study

To pursue PhD studies, to participate in specialized postgraduate studies

5.2. Professional status (if applicable)

6. ADDITIONAL INFORMATION

6.1. Information concerning the holder of the diploma

Student identification Neptun code: UWP3R8

In the 2024/25/1. semester he was working as teaching assistant at the Department of Chemical and Environmental Process Engineering.

Hegyí Mihály has been awarded by 1st place with the research work entitled by "Development of semi-continuous neutral hydrolytic technology for chemical recycling of PET" at the Student's Scientific Conference organized by the Budapest University of Technology and Economics in 21. november 2024. in Chemical and biotechnology Section.

6.2. Information on the Institution

The predecessor in title of the Budapest University of Technology and Economics (BME) was founded in 1782. It is a state university, presently the largest technical university in Hungary. Faculties in order of their foundation: Faculty of Civil Engineering (ÉMK) – 1782, Faculty of Mechanical Engineering (GPK) – 1871, Faculty of Architecture (ÉPK) – 1873, Faculty of Chemical Engineering and Bioengineering (VBK) – 1873, Faculty of Electrical Engineering and Informatics (VIK) – 1949, Faculty of Transportation Engineering and Vehicle Engineering (KJK) – 1951, Faculty of natural Sciences (TTK) – 1998, Faculty of Economic and Social Sciences (GTK) – 1998. Home page: www.bme.hu/

6.3. Further information sources

7. CERTIFICATION OF THE SUPPLEMENT

7.1. Date

27.02.2025.

7.4. Official stamp

7.2. Name and signature

(authenticated by electronic signature)

Erika Pál

7.3. Capacity

Director of Central Academic Office

8. INFORMATION ON THE HUNGARIAN HIGHER EDUCATION SYSTEM

(modified: 15 September, 2022)

8.1. Types of Institutions and Institutional Control

The establishment and operation of higher education institutions are regulated by Act No. 204 of 2011 (National Higher Education Act). Operating within the legal framework of the National Higher Education Act, Hungarian higher education institutions are recognized state (public) or non-state (church or private) higher education institutions. The list of recognized higher education institutions is indicated in Annex 1 of the National Higher Education Act. Higher education studies are offered at three types of higher education institutions, egyetem (university), alkalmazott tudományok egyeteme (university of applied sciences) and főiskola (college). Universities, universities of applied sciences and colleges may offer courses in all three training cycles. The programmes are identical at all types of institutions.

8.2. Types of Programmes and Degrees Awarded

The consecutive training cycles of higher education leading to a higher education degree are alapképzés (Bachelor course), mesterképzés (Master course) and doktori képzés (Doctoral course). In cases set by government decree or legislation, Master degrees can also be awarded after the completion of integrated, one-tier training.

In addition to the aforementioned, higher education institutions may conduct non-degree vocational higher education programmes and postgraduate specialist trainings and may offer adult education within the framework of lifelong learning as well.

Higher education institutions apply a credit system based on the European Credit Transfer and Accumulation System. Accordingly, one credit stands for an average of 30 hours of student workload.

8.3. Approval/Accreditation of Programmes and Degrees

In the case of each vocational higher education programme, Bachelor and Master course, the programme and outcome requirements are set in legal regulations, i.e. the level of the training, the professional qualification that can be obtained and all the competencies the acquisition of which are the preconditions for obtaining the diploma in the given programme.

Upon request of the higher education institution, the Educational Authority – after having obtained the expert opinion of the Hungarian Accreditation Committee – licenses and registers the launching of all vocational higher education programmes, Bachelor or Master courses or Doctoral schools. Also, the operating licenses of higher education institutions are revised by the Educational Authority in every 5 years, taking into account the expert opinion of the Hungarian Accreditation Committee. The above mentioned procedures apply for all recognized, state or non-state higher education institutions, except for religious studies, where only the requirements in respect of infrastructure can be examined.

8.4. Organisation of Studies

Students studying in vocational higher education programmes, Bachelor and Master courses, as well as postgraduate specialist trainings complete their studies by passing a final examination. The final examination may consist of the defense of the degree thesis or diploma project, and additional oral, written or practical examinations.

8.4.1. Vocational Higher Education Programmes

The diploma obtained on completion of a vocational higher education programme testifies a vocational higher education qualification, but it is not per se an academic degree. A vocational higher education programme requires the completion of at least 120 credits, and the duration of the programme is a minimum of 4 semesters.

8.4.2. First/Second Cycle Degree Programmes

The first higher education degree is the alapfokozat (Bachelor degree) ending in a professional qualification. A Bachelor course requires the completion of 180 to 240 credits. The length of the programme is 6-8 semesters.

The second higher education degree is the mesterfokozat (Master degree) ending in a professional qualification. Based on a Bachelor course, Master courses require the completion of 60 to 120 credits. The length of the programme is 2-4 semesters.

8.4.3. Integrated Programmes

The integrated, one-tier programmes, which are based on the secondary school leaving examination (érettségi vizsga), lead to mesterfokozat (Master degree), have the length of 10-12 semesters and require the completion of 300 to 360 credits. Besides teacher education, religious studies and some programmes of arts, e. g. the following programmes are offered as integrated programmes: veterinary medicine, architecture, dentistry, pharmaceuticals, law and medicine.

8.4.4. Specialised Graduate Studies

Higher education institutions may also offer szakirányú továbbképzés (postgraduate specialist training) for Bachelor and Master degree holders in this type of a training. Through the completion of 60 to 120 credits a specialised qualification can be obtained. The length of the programme is 2-4 semesters.

8.4.5. Doctoral Programmes

Doctoral courses that began before 1 September 2016 require the completion of at least 180 credits. The duration of the programme is 36 months.

Doctoral courses beginning after 1 September 2016 require the completion of at least 240 credits. The duration of the programme is 8 semesters. During the programme, at the end of the fourth semester a complex examination must be completed. The doctoral thesis must be submitted within three years after the completion of the examination.

Regardless the date of entering a doctoral course, either within the framework of the doctoral course or following it, through a separate degree obtaining procedure, the scientific degree “Doctor of Philosophy” (abbreviated as PhD), or in the field of art “Doctor of Liberal Arts” (abbreviated as DLA) may be obtained. The maximum duration of the degree obtaining procedure is 2 years.

8.5. Grading Scheme

The performance of students is generally assessed following a five-grade scale: excellent (5), good (4), satisfactory (3), pass (2), and fail (1) or a three-grade scale: pass with merit (5), pass (3), and unsatisfactory (1). Nevertheless, higher education institutions may also use other systems for assessment if they are comparable to those mentioned above.

8.6. Access to Higher Education Programmes

The ranking of students applying for higher education programmes is primarily based on their secondary school grades and their érettségi vizsga (secondary school leaving examination) results or based solely on the latter. The requirement for admission to vocational higher education programmes, Bachelor and integrated Master courses is the secondary school leaving examination taken – as a rule – after the completion of the 12th grade of a secondary school, certified by érettségi bizonyítvány (secondary school leaving certificate). The admission to certain programmes may also be based on health or professional requirements or aptitude tests. To Master courses students holding a Bachelor degree can be admitted. To postgraduate specialist trainings students holding a Bachelor or a Master degree may be admitted. To Doctoral courses only applicants holding a Master degree can be admitted. Higher education institutions may set additional requirements for admission to Master, postgraduate specialist and Doctoral courses.

8.7. Additional Sources of Information

Hungarian ENIC/NARIC¹, Ministry for Culture and Innovation², Educational Authority³, Hungarian Accreditation Committee⁴.

¹Web site: www.naric.hu

²Web site: www.kormany.hu/kulturalis-es-innovacios-miniszterium

³Web site: www.oktatas.hu, www.felvi.hu

⁴Web site: www.mab.hu