



UNIVERSITAS TRISAKTI

FAKULTAS TEKNOLOGI KEBUMIHAN DAN ENERGI
FACULTY OF EARTH TECHNOLOGY AND ENERGY

TRANSKRIP AKADEMIK / ACADEMIC TRANSCRIPT

Nomor / Number : 0054/AK.09.02/FTKE/S1/TG/VIII/2022

Nomor Ijazah Nasional / National Certificate Number : 342012022000542

Nama / Name : RAYHAN ALDIZAN FARRENZO

NIM / Student Number : 072001700034

Tempat Lahir : Jakarta Program : Sarjana
Birth Place : Program : Bachelor / 4-years undergraduate
Tanggal Lahir : 03 Januari 2000 Program Studi : TEKNIK GEOLOGI
Date of Birth : January 03, 2000 Study Program : GEOLOGICAL ENGINEERING
Tanggal Kelulusan : 31 Agustus 2022 Konsentrasi : -
Date of Judicium : August 31, 2022 Major In : -
IPK / sks Total : 3.79 / 149.00 Predikat Kelulusan : Sangat Memuaskan
CGPA / Total Credit Academic Distinction Very Good

Mata Kuliah Subjects	Kode Code	sks Credit	Nilai Grade
1. SEMESTER I / FIRST SEMESTER			
1. Etika dan Agama Islam / Islamic Ethics and Religion	UAG6206	2.00	A
2. Geologi Dasar / Basic Geology	MGD6301	3.00	A
3. Praktikum Geologi Dasar / Laboratory Works of Basic Geology	MGD6102	1.00	A-
4. Fisika Dasar 1 / Basic Physics 1	MGF6301	3.00	B
5. Kimia Dasar 1 / Basic Chemistry 1	MTK6301	3.00	A
6. Pengantar Teknologi Kebumihan dan Energi (PTKE) / Introduction of Earth Technology and Energy	MFU6201	2.00	B
7. Mineralogi / Mineralogy	MGN6201	2.00	A
8. Matematika 1 / Mathematics 1	MPM6301	3.00	A
9. Praktikum Mineralogi / Laboratory Work of Mineralogy	MGN6102	1.00	A
2. SEMESTER II / SECOND SEMESTER			
1. Ekskursi Teknologi Kebumihan dan Energi (PTKE) / Excursion of Earth Technology and Energy	MFU6102	1.00	A
2. Bahasa Inggris / English Language	UBA6202	2.00	A
3. Fisika Dasar 2 / Basic Physics 2	MGF6202	2.00	B+
4. Praktikum Fisika Dasar / Laboratory Works of Physics	MGF6103	1.00	B+
5. Kimia Fisika / Physical Chemistry	MTK6204	2.00	B-
6. Praktikum Kimia Dasar / Laboratory Works of Basic Chemistry	MTK6103	1.00	A-
7. Matematika 2 / Mathematics 2	MPM6302	3.00	A
8. Statistika Dasar / Basic Statistics	MPM6204	2.00	A
9. Geomorfologi / Geomorphology	MGD6203	2.00	A-
10. Praktikum Geomorfologi / Laboratory Work of Geomorphology	MGD6104	1.00	A
11. Petrologi / Petrology	MGN6203	2.00	B-
12. Praktikum Petrologi / Laboratory Works of Petrology	MGN6104	1.00	B+
3. SEMESTER III / THIRD SEMESTER			
1. Geologi Struktur / Structural Geology	MGD6205	2.00	A
2. Praktikum Geologi Struktur / Laboratory Work of Structural Geology	MGD6106	1.00	A
3. Paleontologi / Paleontology	MGS6201	2.00	A
4. Praktikum Paleontologi / Laboratory Work of Paleontology	MGS6102	1.00	A
5. Mineral Optik / Optical Mineralogy	MGN6205	2.00	A



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6. Praktikum Mineral Optik / <i>Laboratory Work of Optical Mineralogy</i>	MGN6106	1.00	A
7. Sedimentologi-Stratigrafi / <i>Sedimentology-Stratigraphy</i>	MGS6203	2.00	A
8. Praktikum Sedimentologi-Stratigrafi / <i>Laboratory Work of Sedimentology-Stratigraphy</i>	MGS6104	1.00	A
9. Matriks dan Ruang Vektor / <i>Matrices and Vector Space</i>	MPM6206	2.00	A
10. Penginderaan Jauh / <i>Remote Sensing</i>	MGD6207	2.00	A
11. Geokimia / <i>Geochemistry</i>	MGK6201	2.00	A
12. Pengukuran Geodesi / <i>Geodetic Survey</i>	MGD6208	2.00	A
4. SEMESTER IV / FOURTH SEMESTER			
1. Geofisika Eksplorasi 1 / <i>Exploration Geophysics</i>	MGG6201	2.00	B-
2. Praktikum Geofisika Eksplorasi 1 / <i>Laboratory Works of Exploration Geophysics</i>	MGG6102	1.00	B
3. Geologi Sejarah / <i>Historical Geology</i>	MGS6205	2.00	A
4. Vulkanologi / <i>Volcanology</i>	MGG6203	2.00	B
5. Mikropaleontologi / <i>Micropaleontology</i>	MGS6206	2.00	A
6. Praktikum Mikropaleontologi / <i>Laboratory Works Of Micropaleontology</i>	MGS6107	1.00	A
7. Kuliah Lapangan / <i>Field Study</i>	MGA6301	3.00	A
8. Geologi Batubara / <i>Coal Geology</i>	MGS6208	2.00	A
9. Pendidikan Pancasila / <i>State Ideology (Pancasila)</i>	UPA6201	2.00	B
10. Teknologi Informasi / <i>Information Technology</i>	MGG6204	2.00	A-
11. Bahasa Indonesia / <i>Indonesian</i>	UBA6201	2.00	A
5. SEMESTER V / FIFTH SEMESTER			
1. Geofisika Eksplorasi 2 / <i>Exploration Geophysics 2</i>	MGG6205	2.00	B
2. Praktikum Geofisika Eksplorasi 2 / <i>Laboratory Works of Exploration Geophysics 2</i>	MGG6106	1.00	B
3. Geologi Panas Bumi / <i>Geothermal Geology</i>	MGG6207	2.00	A
4. Geologi Migas / <i>Oil and Gas Geology</i>	MGS6309	3.00	A
5. Tektonika / <i>Tectonics</i>	MGD6209	2.00	A
6. Geologi Teknik / <i>Engineering Geology</i>	MGT6201	2.00	A
7. Praktikum Geologi Teknik / <i>Laboratory Works of Engineering Geology</i>	MGT6102	1.00	A
8. Endapan Mineral / <i>Mineral Deposits</i>	MGN6207	2.00	A
9. Petrografi / <i>Petrography</i>	MGN6208	2.00	B+
10. Praktikum Petrografi / <i>Laboratory Work of Petrography</i>	MGN6109	1.00	B
11. Hidrogeologi / <i>Hidrogeology</i>	MGT6303	3.00	A
6. SEMESTER VI / SIXTH SEMESTER			
1. Pemetaan Geologi / <i>Geological Mapping</i>	MGA6302	3.00	A
2. Mekanika Batuan / <i>Rock Mechanics</i>	MGT6204	2.00	A
3. Praktikum Mekanika Batuan / <i>Laboratory Work of Rock Mechanics</i>	MGT6105	1.00	A
4. Bencana Geologi / <i>Geological Hazard</i>	MGT6206	2.00	A
5. Metodologi Penelitian / <i>Research Methodology</i>	MGA6203	2.00	B
6. Sistem Informasi Geografis / <i>Geographic Information System</i>	MGD6210	2.00	A
7. Eksplorasi Mineral dan Batubara / <i>Coal and Mineral Exploration</i>	MGN6210	2.00	A-
8. Geologi Indonesia / <i>Geology of Indonesia</i>	MGD6211	2.00	A
7. SEMESTER VII / SEVENTH SEMESTER			
1. Seminar Pemetaan / <i>Seminar of Mapping</i>	MGA6304	3.00	A
2. Eksplorasi Panas Bumi / <i>Geothermal Exploration</i>	MGG6208	2.00	A
3. Geologi Tata Lingkungan / <i>Environmental Geology</i>	MGT6207	2.00	A
4. Kewirausahaan Kebumihan / <i>Entrepreneurship of Earth Science</i>	MFU6203	2.00	A
5. Etika Kerja dan Keteknikan / <i>Work Ethics and Engenering</i>	MGU6201	2.00	A-
6. Pendidikan Kewarganegaran / <i>Civil Education</i>	UKD6201	2.00	A
7. Eksplorasi Migas / <i>Oil and Gas Exploration</i>	MGG6209	2.00	A-
8. SEMESTER VIII / EIGHTH SEMESTER			
1. Skripsi / <i>Final Assignment</i>	MGA6406	4.00	A
9. MATAKULIAH PILIHAN / ELECTIVE SUBJECTS			
1. Tata Kelola Sumber Daya Geologi / <i>Geological Resources Management</i>	MGG6214	2.00	A
2. Geokimia Mineral / <i>Mineral Geochemistry</i>	MGK6202	2.00	A
3. Petrogenesis Batuan Beku-Metamorf / <i>Petrogenesis of Igneous - Metamorphic Rocks</i>	MGN6212	2.00	A



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4. Stratigrafi Terapan / <i>Applied Stratigraphy</i>	MGS6211	2.00	B
5. Geologi Kuartar / <i>Quaternary Geology</i>	MGT6208	2.00	A
6. Geologi Laut / <i>Marine Geology</i>	MGD6213	2.00	A
Jumlah sks / <i>Credit Hours Total</i>		149.00	

Judul Skripsi / <i>Title of Script</i>	MINERALOGI DAN GEOKIMIA DARI MINERALISASI URANIUM DAN LOGAM TANAH JARANG DAERAH RIRANG, KALAN, KALIMANTAN BARAT / <i>MINERALOGY AND GEOCHEMICAL OF THE URANIUM AND RARE EARTH ELEMENTS MINERALIZATION IN RIRANG AREA, KALAN, WEST KALIMANTAN</i>
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Sistem Penilaian/Grading System

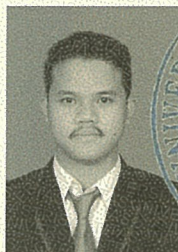
Nilai Angka Mark Range	Nilai Huruf Grade	Bobot Grade Point
80.00 - 100.00	A	4.00
77.00 - 79.99	A-	3.75
74.00 - 76.99	B+	3.50
68.00 - 73.99	B	3.00
65.00 - 67.99	B-	2.75
62.00 - 64.99	C+	2.50
56.00 - 61.99	C	2.00

IPK CGPA	Predikat Kelulusan Academic Distinction
2.00 - 2.75	-/-
2.76 - 3.00	Memuaskan/ <i>Good</i>
3.01 - 3.50	Sangat Memuaskan/ <i>Very Good</i>
3.51 - 4.00	Pujian/ <i>Cum Laude</i>

Predikat kelulusan Pujian tidak dapat diberikan kepada mahasiswa pindahan
Cum Laude academic distinction cannot be awarded to a transfer student

Dekan / *Dean*

Dr. Ir. Muhammad Burhannudinnur, M.Sc., IPM
NIK 1978/USAKTI



Diterbitkan di Jakarta pada 10 Oktober 2022

Issued in Jakarta on October 10, 2022

dan Rektor/
on behalf of Rector



Prof. K. Asri Nugrahanti, M.S., Ph.D., IPU
NIK 0479/USAKTI

TRANSCRIPT OF ACADEMIC RECORDS

1. HOLDER OF THE DOCUMENT

<u>1.1 Family name(s)</u>	<u>1.2 Given name(s)</u>
Farrenzo	Rayhan Aldizan
<u>1.3 Date of birth (day/month/year)</u>	<u>1.4 Student identification number or code (if available)</u>
03/01/2000	NE7OJ6, 74260066255

2. DATA OF TRANSCRIPT

<u>2.1 Name and status of awarding institution</u>
University of Miskolc State university, accredited by the Hungarian Accreditation Committee (HAC) with the decision of which reference number: 1999/2/II/2. (OM:FI87515)
<u>2.2 Name and status of institution administering the studies (if different from 2.1)</u>

<u>2.3 Language of instruction</u>
English

3. LEVEL OF STUDIES

<u>3.1 Level of qualification</u>	<u>3.2 Official length of program</u>
MA/MSc MSc Earth Sciences Engineering	4 semester
<u>3.3. Access requirements</u>	
At least BSc-level diploma from accepted specializations.	

4. CONTENTS AND ACADEMIC RESULTS ACHIEVED

<u>4.1 Form of study</u>
Full-time training
<u>4.2 Program requirements act number</u>
Order of Hungarian Government, 15/2006.(IV.3.) concerning the qualification requirements for the technical higher education.
<u>4.3 Aim of study</u>
To educate professionals, capable to develop and run complex tests.
<u>4.4 Required number of credit points</u>
120
<u>4.5 System of acquisition level checking</u>

Examinations, thesis and its discussion at a public final examination.

4.6 Required professional practice, credit value

The external practical training is a compulsory requirement. Duration of the training is 4 weeks at least.

4.7. Subjects/Grades/Credit points

2023/24/1 term

Subject	Subject code	Lessons per week (W) / semester (S)	Requirement	Credit points	Grade	Date
Computer Sciences for Engineers	GEMAK713MA	W: 0/2/0	Term mark	2	Excellent	16/12/2023
Data and Information Processing	MFGFT7100031	W: 2/1/0	Term mark	4	Excellent	05/01/2024
Engineering Physics	MFGFT7100011	W: 2/1/0	Exam	4	Good	21/12/2023
Geodesy, Spatial Informatics	MFGG1710002	W: 2/1/0	Exam	4	Excellent	21/12/2023
Geophysical Exploration Methods I.	MFGFT7100021	W: 2/1/0	Exam	4	Satisfactory	31/01/2024
Graduate research seminar	MFFAT720007	W: 0/1/0	Term mark	2	Excellent	04/01/2024
Mineralogy and Geochemistry	MFFAT710005	W: 2/1/0	Exam	4	Excellent	04/01/2024
Numerical and Optimization Methods	GEMAK712MA	W: 1/1/0	Term mark	2	Excellent	12/12/2023
Physical Geology	MFFT71710001	W: 2/1/0	Exam	4	Excellent	22/12/2023

	Passed credits	Average	Weighted Average
Semester	30	4,6	
Cumulative	30	4,6	

5. ADDITIONAL INFORMATION

5.1 Information concerning the holder of the document

5.2 Information on the Institution

The legal predecessor of the University of Miskolc (its former name was the Technical University of Heavy Industry) was established in Selmechánya, in 1735. It is a state university and the largest educational institution in northern-Hungary.

The university has eight faculties and one institute with the legal status of a faculty. They are listed below in order of their establishment

Faculty of Earth Science and Engineering, Faculty of Materials Science and Engineering, Faculty of Mechanical Engineering and Informatics, Faculty of Law, Faculty of Economics, Faculty of Humanities, Faculty of Comenius Teachers' Training College (Sárospatak), Bartók Béla Institute of Music, Faculty of Health Care Studies.

At the University of Miskolc education is carried out on both graduate and postgraduate levels including foreign language courses. There are several doctoral schools, which make getting academic degrees possible in all areas of science being studied here. Nearly half of the academic staff have scientific degrees.

6. CERTIFICATION OF THE TRANSCRIPT OF ACADEMIC RECORDS

6.1. Date

05/03/2024

6.3. Signatory post

dean

6.4. Official stamp

Dr. Gábor Mucsi

6.2. Name and signature



CREDIT SYSTEM

Within the framework of the Bologna Process the gradual transition from a pre - Bologna higher education system resulting in Egyetemi oklevél (university - level degree) or Főiskolai oklevél (college- level degree) to a higher education system based on three consecutive cycles started in 2004 in Hungary. At present pre-Bologna and Bologna-type programmes run parallel.

This description presents the higher education system existing before the introduction of the Bologna - type training, and was prepared for diplomas awarded within the pre-Bologna system.

Admission requirements for higher education

According to the Higher Education Act No. 80 of 1993, the basic requirement for admission to college (non - university higher education institution) and university graduate education is the Hungarian secondary school leaving certificate (Érettségi bizonyítvány) , or a foreign equivalent, or a degree obtained in higher education. The secondary school leaving certificate is conferred after eight years of primary education followed by four years of secondary education in a comprehensive/academic secondary school (gimnázium) or vocational secondary school (szakközépiskola). It must be noted that the division of the twelve years of study may vary: it may also be divided into 4 or 6 years of primary education and 8 or 6 years of secondary education.

Admission to higher education institutions - with some exceptions - is based on the applicant's secondary school achievements and on the results of the competitive entrance examinations.

Higher education institutions

The Hungarian higher education has a dual system consisting of universities (egyetem) and colleges (főiskola). Universities are such higher education institutions that are able to organise courses in more than one field of science and within a field of science in several branches; carry out scientific research activity and have accredited PhD/DLA courses. Colleges organise more than one training course in a branch of science or in a field of the arts. Hungarian higher education institutions are autonomous, state or non-state institutions recognised by the state. The appendix of the Higher Education Act No. 80 of 1993 lists all recognised higher education institutions (www.naric.hu).

Accreditation and quality assurance

The Hungarian Accreditation Committee established in 1993 is responsible for accrediting and evaluating the quality of teaching and research at higher education institutions. It assesses the standard of education and research in each higher education institution at least in every eight years (institutional accreditation) based on a detailed self-assessment of the institution and the report of a visiting committee. The Hungarian Accreditation Committee also examines the curricula, the qualification requirements as well as the quality of the academic staff and the teaching facilities (program accreditation).

Degrees and qualifications

Hungarian universities and colleges grant degrees following a binary pattern. Colleges and universities grant "Főiskolai oklevél" (college-level degree) and universities award "Egyetemi oklevél" (university-level degree). The duration of training at college level requires minimum 3 years and maximum 4 years of studies, while the length of study at university level is minimum 4 years, maximum 5 years (one of the few exceptions is the medical course where the duration of education is 6 years). Students complete their education with a final examination consisting of the preparation and defence of a dissertation, oral and/or written examinations prescribed in the qualification requirements and - in certain programs - the performance of practical work. Beyond university and college graduate education, 2 types of post-graduate programs are offered by higher education institutions. First, further specialisation degrees can be awarded after college or university graduation. These further specialisation programs lead to new qualifications. Studies may vary from one to three years' duration. Secondly, universities provide training leading to a doctoral degree, which is the only scientific degree available in Hungary at present. The condition for applying for doctoral training is a Hungarian university degree

or its foreign equivalent. Higher education institutions link admission to entrance examinations and often to additional criteria (e.g. professional experience). The duration of the training is at least 3 years, at the end of which a doctor of philosophy (PhD- doktori fokozat) or a doctor of liberal arts (DLA - mester fokozat) degree is conferred depending on the field of science.

Credit system

The obligatory use of the ECTS compatible credit system was introduced in September 2003, but several higher education institutions have already been using it since the middle of the 1990s. According to the governmental decree on the introduction of the credit system one credit corresponds to 30 hours student workload. The minimum number of credits for a college-level degree is 180, for a university-level degree is 240, for a further specialisation degree is 60 while for the doctoral degree it is 180.

System of assessment

The assessment of knowledge may occur, generally in five grades: excellent (5), good (4), satisfactory (3), pass (2), and fail (1) or with the classification: excellent (5), satisfactory (3), fail (1).

Academic year

In general, the academic year of higher education institutions consists of two semesters, namely the autumn and the spring semesters. The autumn semester lasts generally from the beginning of September until the end of January. The spring semester lasts from the beginning of February until the end of June. In general, both semesters include a 15-week period for lectures, seminars and practical work and a 6-week examinations period.