

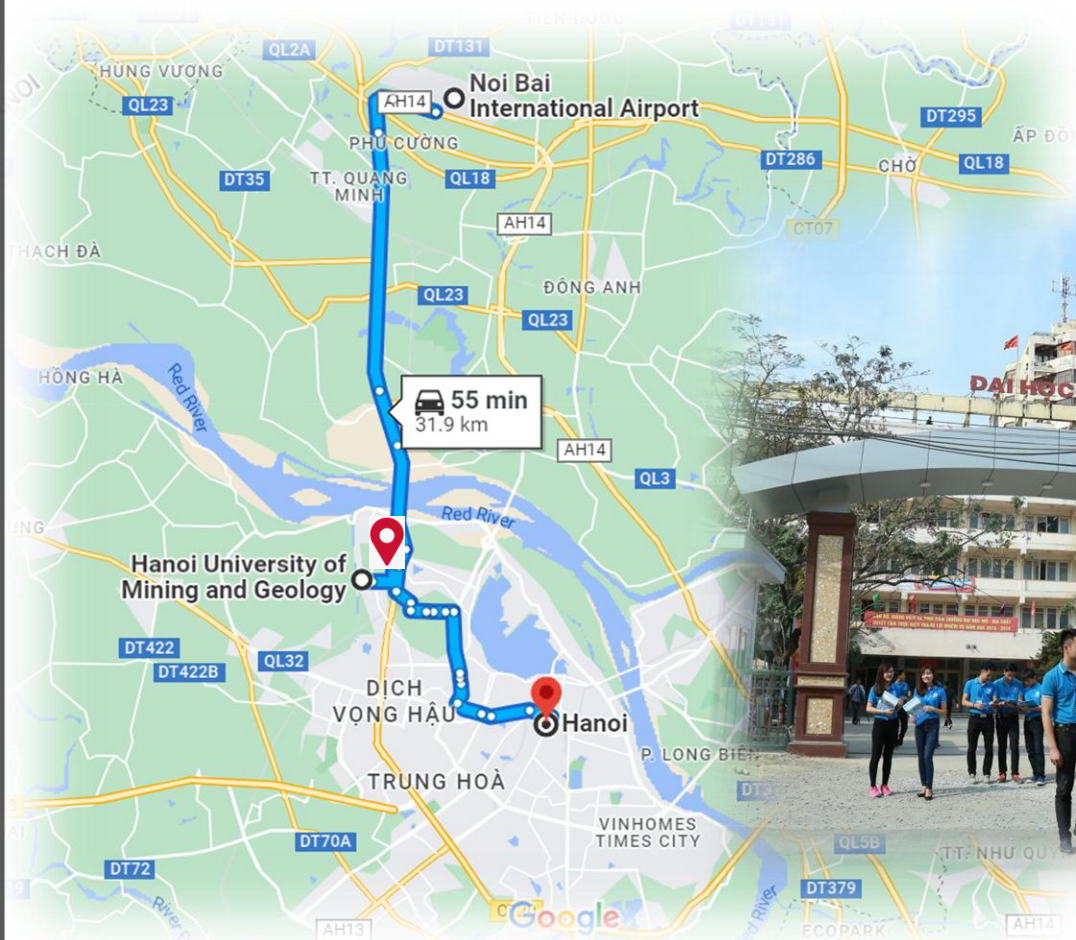
HANOI UNIVERSITY OF MINING AND GEOLOGY (HUMG)



**PROUD TO BE THE FORERUNNER UNIVERSITY IN VIET NAM IN
MINING, GEOSCIENCES, AND OTHER RELEVANT DISCIPLINES**



LOCATION AND CAMPUS



 **No. 18 Vien street, Duc Thang, Bac Tu Liem district,
Hanoi 11910, VIETNAM**





UNIVERSITY DEVELOPMENT



University
foundation

1966



Establishment of
campus in Hanoi

1981



Nationally
accredited

2018

1st graduation of
PhD students



1977

1st international
program



2009

Nationally
accredited

2018

2021

- 4-star rating in the University Performance Metrics (UPM) system
- Top 12 Urap rankings by academic achievement
- Top 20 universities in Viet Nam regarding international publications
- Member of group of the 7 most prestigious technical universities of Vietnam

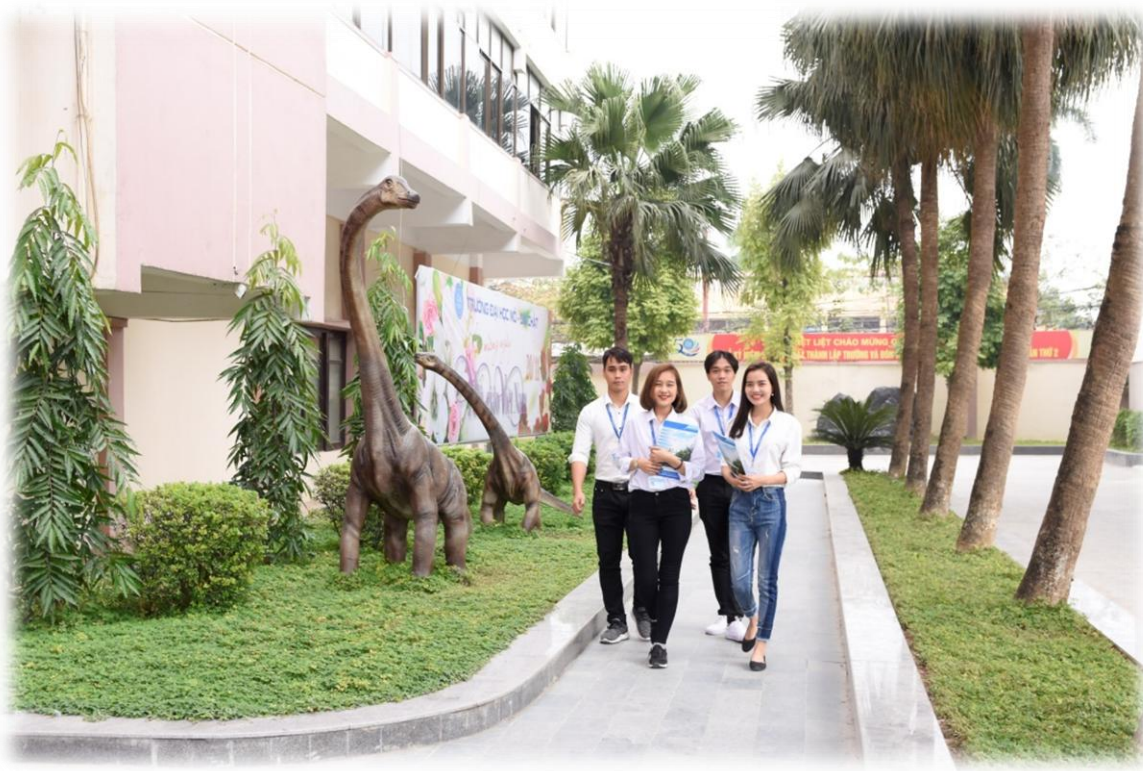
- 15,000 students at different educational levels
- 19 research groups
- on the way to be a research-oriented comprehensive university
- 2nd batch of national accreditation

2024



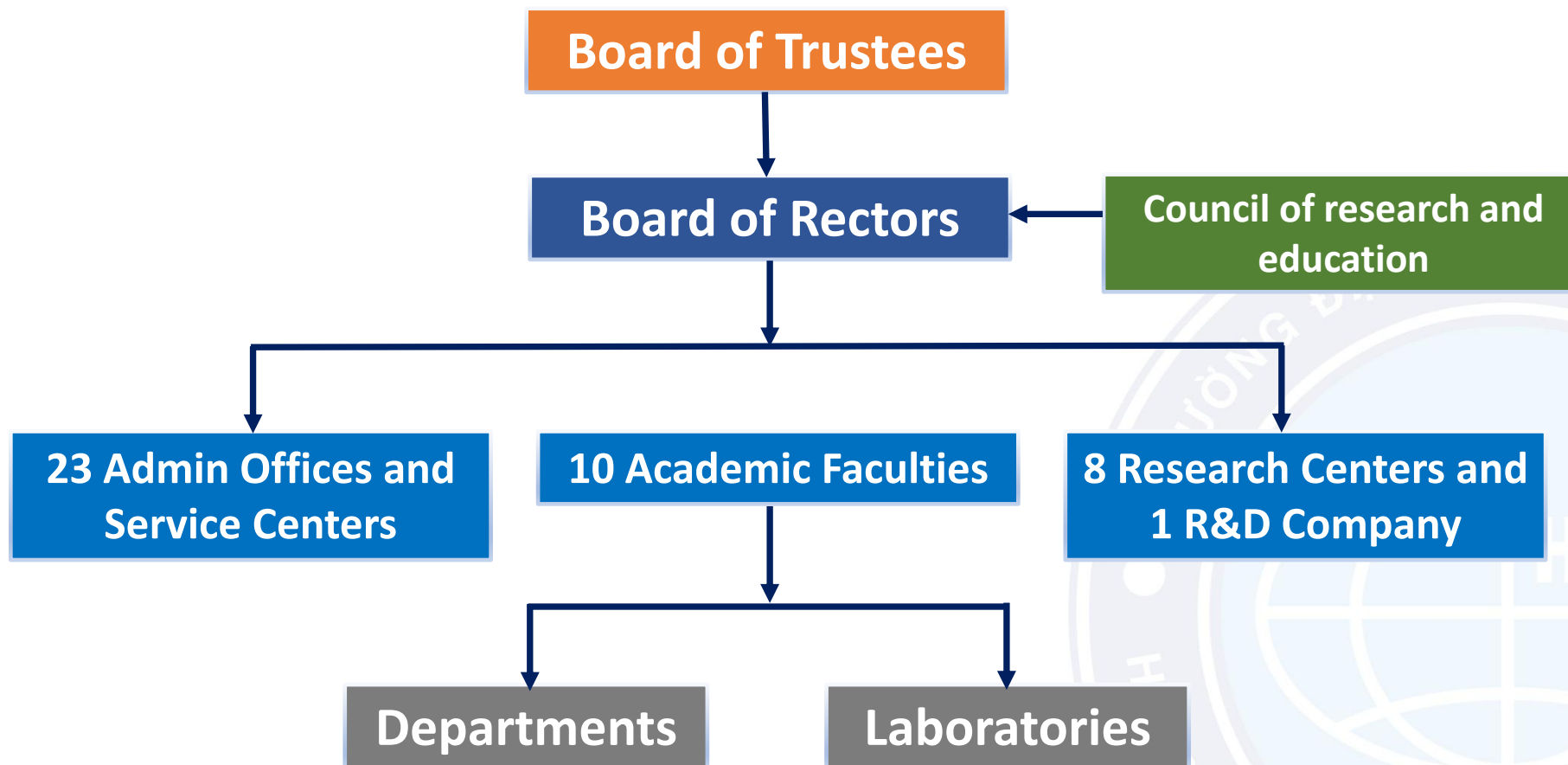
MISSION AND VISION

- **Mission:** Training high-quality human resources, doing scientific research and transferring knowledge - technology to meet the needs of society and international integration.
- **Vision:** By 2030, to become a research-oriented, multidisciplinary university with national and international prestige.



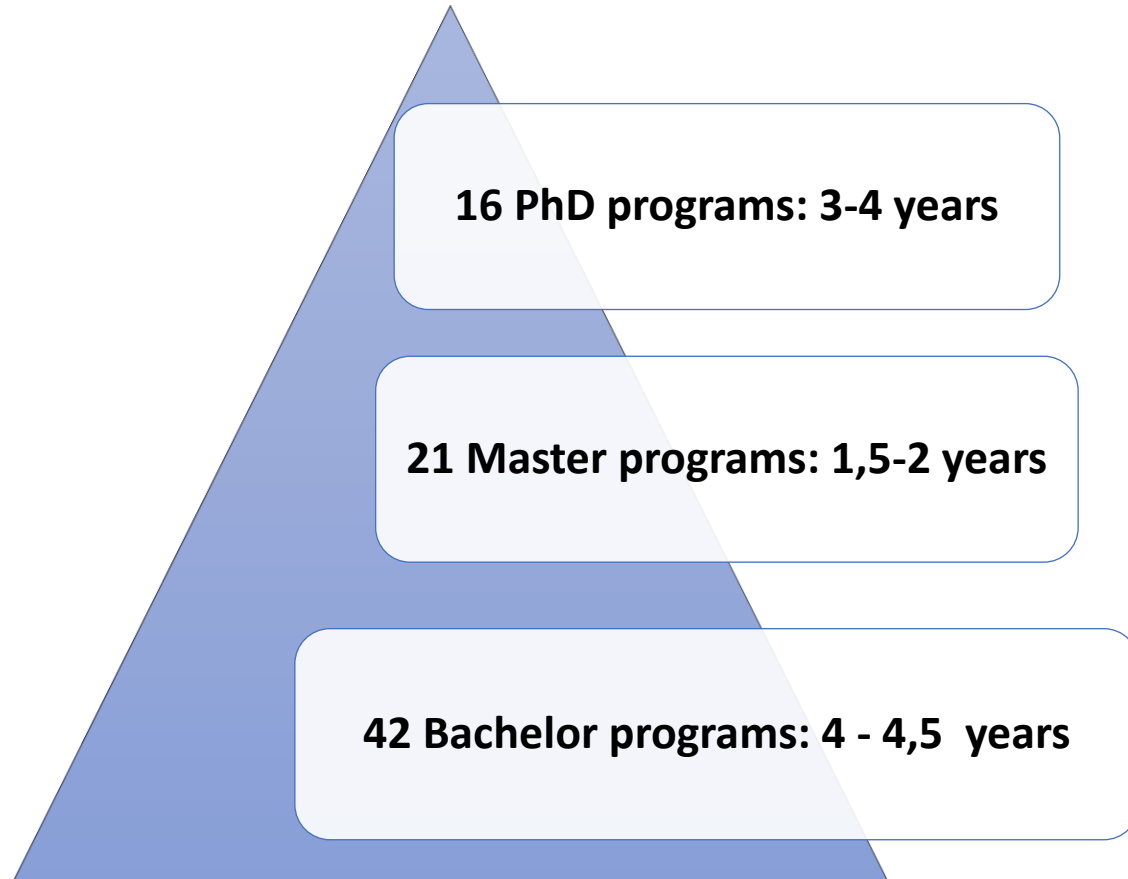


UNIVERSITY STRUCTURE





EDUCATION AND TRAINING



- **15K students of all levels**
- **~100 international students**





EDUCATION AND TRAINING

Bachelor's Degree

No	Major code	Bachelor Programs
1	7340101	Business Management
2	7340201	Finance and Banking
3	7340301	Accounting
4	7440201	Geoscience
5	7480201	Information Technology
6	7480206	Geomatics
7	7510401	Chemical Technology
8	7520103	Mechanical Engineering
9	7520201	Electrical Engineering
10	7520216	Control Engineering and Automation
11	7520301	Chemical Engineering
12	7520320	Environmental Engineering
13	7520501	Geology Engineering
14	7520502	Geophysics
15	7520503	Engineering of Surveying and Mapping
16	7520601	Mining Engineering
17	7520604	Petroleum Engineering
18	7520607	Mineral Processing
19	7580201	Civil Engineering
20	7580211	Geo-engineering in Construction
21	7850103	Land Administration
22	7510601	Industrial Management

23	7520116	Mechanical Dynamics Engineering
24	7480206	Data Science
25	7810105	Tourism Geology
26	7520114	Mechatronic Engineering
27	7580205	Traffic Engineering
28	7850101	Management of Natural Resources and Environment
29	7850204	Underground Construction and Subway System
30	7720203	Pharmaceutical Chemistry
31	7580302	Management of Construction
32	7580212	Water Resources Engineering
33	7520606	Digital Technology in Exploration and Exploitation of Natural Resources
34	7520605	Natural Gas Engineering
35	7520130	Automotive Engineering
36	7510301	Electrical/Electronic Engineering Technology
37	7500502	Management of Earth Science Data
38	7480201_CLC	High quality program of Information Technology
39		Gemstone - Fine Art Stone
40		Occupational Safety
41	7520218	Robot and AI
42		Management of Urban Development and Real Estate



EDUCATION AND TRAINING

PhD Degree

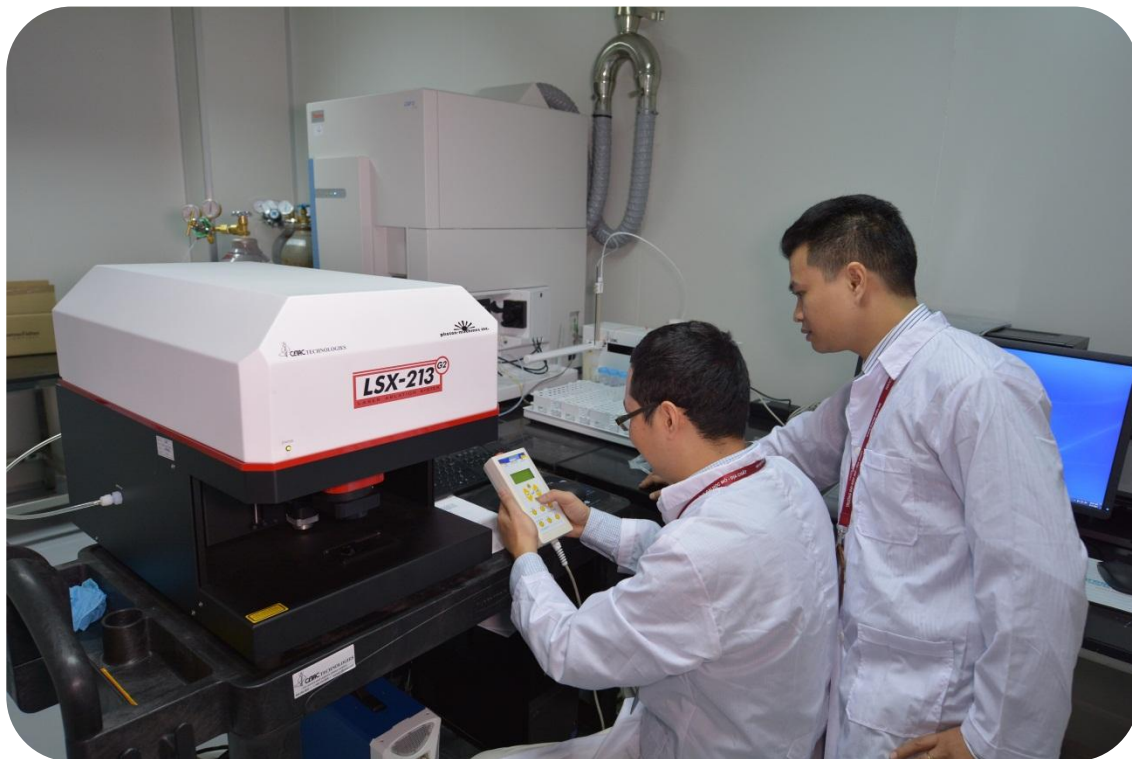
No.	Code	Doctoral Programs
1	9520501	Geology Engineering
2	9440201	Geoscience
3	9440205	Mineralogy and Geochemistry
4	9520604	Petroleum Engineering
5	9520502	Geophysics Engineering
6	9520116	Mechanical Dynamics Engineering
7	9520503	Engineering of Surveying and Mapping
8	9520603	Mining
9	9520201	Electrical Engineering
10	9580204	Underground Construction Engineering
11	9310110	Economic Management
12	9520216	Control Engineering and Automation
13	9520607	Mineral Processing Engineering
14	9520301	Chemical Engineering
15	9520320	Environmental Engineering
16	9440214	Photogrammetry, Remote Sensing and Geography Information System

Master's Degree

No.	Code	Master Programs
1	8520501	Engineering Geology
2	8440201	Geoscience
3	8440205	Mineralogy and Geochemistry
4	8520603	Mining
5	8520607	Mineral Processing Engineering
6	8520201	Electrical Engineering
7	8520216	Control Engineering and Automation
8	8520116	Mechanical Dynamics Engineering
9	8520103	Mechanical Engineering
10	8580204	Underground Construction Engineering
11	8520503	Engineering of Surveying and Mapping
12	8440214	Photogrammetry, Remote Sensing and GIS
13	8520502	Geophysics Engineering
14	8520604	Petroleum Engineering
15	8520301	Chemical Engineering
16	8310110	Economic Management
17		Geomatics
18	8520320	Environmental Engineering
19	8850103	Land Administration
20	8580201	Civil Engineering
21	8520501	Geology of Mineral Resources and Exploration



SCIENTIFIC RESEARCH



- Well known research center that carries out research projects and contracts in research areas: Geology, Geodetics, Mineral Resources, Environmental Geology, Surveying and Mapping, Mining, Electrical-Electronic, Mechanics, etc.
- 200+ State projects (2018 – 2025)
- 550+ Ministry projects
- 1350+ University projects
- 19 key research groups
- Top 20 VN universities in international publications
- Contracts with industry
- Organizing annual national/international conferences



RESEARCH GROUPS

No.	Group Name and Research Fields	Date of establishment	Leader	Scientific secretary
1	Geotechnics, Materials and Sustainable Development (GECS)	23/05/2022	PGS.TS Trần Tuấn Minh trantuanminh@humg.edu.vn	TS Bùi Văn Đức buivanduc@humg.edu.vn
2	Advanced Technologies in Mineral Processing and Recycling (MinPro)	14/06/2021	PGS.TS Nhữ Thị Kim Dung nhuthikimdung@humg.edu.vn	PGS.TS Phạm Văn Luận phamvanluan@humg.edu.vn
3	Basic Science and Application for Sustainable Development (BSASD)	14/11/2023	TS Công Tiến Dũng congtiendung@humg.edu.vn	TS Đào Việt Thắng daovietthang@humg.edu.vn
4	Sustainable Development of Mining Science, Technology and Environment (SDM)	14/06/2021	TS Nguyễn Cao Khải nguyencaochai@humg.edu.vn	TS Lê Tiến Dũng letiendung@humg.edu.vn
5	Innovation for Sustainable and Responsible Mining (ISRM)	14/06/2021	TS. Nguyễn Hoàng nguyenhoang@humg.edu.vn	PGS.TS Nguyễn Hoài Nga nguyenthioainga@humg.edu.vn
6	Tectonics and Geodynamics for Geo-resources, Environment and Sustainable Development (TGREEN)	11/05/2022	GS.TS Trần Thanh Hải tranthanhhai@humg.edu.vn	TS. Nguyễn Hữu Hiệp nguyenhuuhiep@humg.edu.vn
7	Research and Advanced Technology Applications in Environmental, Material and Earth Sciences (Hitech-CEAE)	11/05/2022	PGS.TS Bùi Hoàng Bắc buihoangbac@humg.edu.vn	TS Lê Thị Duyên lethiduyen@humg.edu.vn
8	Geodesy and Environment (GAE)	11/05/2022	TS. Nguyễn Gia Trọng nguyengiatrong@humg.edu.vn	Th.S Phạm Ngọc Quang phamngocquang@humg.edu.vn
9	Data Processing for Advanced Geomatics (DPAG)	11/05/2022	GS.TS Hoàng Ngọc Hà hoangngocha@humg.edu.vn	Th.S Hoàng Anh Tuấn hoanganhtuan@humg.edu.vn
10	Research and Development of Geospatial Data Management and Analysis Techniques (GMA)	11/05/2022	TS Đỗ Thị Phương Thảo dothiphuongthao@humg.edu.vn	ThS Dương Anh Quân duonganhquan@humg.edu.vn



RESEARCH GROUPS

No.	Group Name and Research Fields	Date of establishment	Leader	Scientific secretary
11	Basin, Stratigraphy and Sedimentary Processes (BSSP)	11/05/2022	PGS.TS. Lê Ngọc Ánh lengocanh@humg.edu.vn	TS. Nguyễn Minh Hòa nguyenminhhoa@humg.edu.vn
12	Engineering and Geoenvironment (EEG)	11/05/2022	PGS.TS Bùi Trường Sơn buitruongson@humg.edu.vn	PGS. TS Nguyễn Thị Nụ nguyenthinu@humg.edu.vn
13	Integrated Petroleum Engineering (IPR)	11/05/2022	TS Lê Quang Duyến lequangduyen@humg.edu.vn	TS Nguyễn Tiến Hùng nguyentienhung@humg.edu.vn
14	Advanced Materials for Catalyst and Absorption (AMCA)	11/05/2022	TS Nguyễn Thị Linh nguyenthilinh@humg.edu.vn	TS Ngô Hà Sơn ngohason@humg.edu.vn
15	Investigation on green chemical processes (HUMG-GCP)	11/05/2022	PGS.TS Bùi Thị Lệ Thủy buihilethuy@humg.edu.vn	TS Nguyễn Thị Linh nguyenthilinh@humg.edu.vn
16	Geomatics in Earth Sciences (GES)	08/05/2023	PGS.TS Nguyễn Văn Trung nguyenvantrung@humg.edu.vn	TS Trần Thanh Hà tranthanhha@humg.edu.vn
17	Land Management and Cadastral Technology for Sustainable Development (MTS)	08/05/2023	PGS.TS Nguyễn Quang Minh nguyenquangminh@humg.edu.vn	TS Đinh Hải Nam dinhhainam@humg.edu.vn
18	Construction, Industrial Machinery and Equipment (CIME)	08/05/2023	PGS.TS Triệu Hùng Trường trieuhungtruong@humg.edu.vn	PGS.TS Nguyễn Văn Xô nguyenvanxo@humg.edu.vn
19	Natural Resources and Environmental Management (NREM)	23/06/2023	TS Nguyễn Quốc Phi nguyenquocphi@humg.edu.vn	TS Vũ Thị Phương Thảo vuthiphuongthao@humg.edu.vn



SCIENTIFIC RESEARCH

<https://jmes.humg.edu.vn/en/>

Journal of Mining and Earth Sciences (JMES)

- ISSN: 1859 – 1469
- Organization: Hanoi University of Mining and Geology, Vietnam
- Field: a multi-disciplinary journal
- The editorial board of JMES: 60 prestigious scientists from Vietnam, USA, Germany, France, Russia, Norway, Poland, Romania, Greece, Australia, Japan, South Korea, Malaysia and Thailand

The screenshot displays the official website of the Journal of Mining and Earth Sciences (JMES), published by Hanoi University of Mining and Geology. The header includes the university's logo, name, and the journal's title in both English and Vietnamese. The ISSN 1859-1469 is prominently displayed. A navigation bar offers links to Home, About, Archives, Early View, Special Issue, Document, Paper Submission, Register, and Contact. The main content area features a 'Tuyển tập Báo cáo Hội nghị Toàn quốc' (National Conference Report Collection) for ERSO 2024, held from November 14-11, 2024. Below this, a 'Highlights articles - 2024' section lists five research articles with their titles, authors, and ratings. The right sidebar contains a 'New Vols' section for Volume 65, Issue 4 (2024), and a 'Top Key Words' section listing terms like 'Forecasting system', 'Logistic growth model', '3D model', 'Stress', 'Quang Ninh', 'Digital Elevation Model', 'Mathematical model', and 'History matching process'.

Hanoi University of Mining and Geology
Journal of Mining and Earth Sciences
ISSN: 1859 – 1469

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TUYỂN TẬP BÁO CÁO HỘI NGHỊ TOÀN QUỐC
KHOA HỌC TRÁI ĐẤT VÀ TÀI NGUYÊN
VỚI PHÁT TRIỂN BỀN VỮNG (ERSO 2024)
HÀ NỘI 14 - 11 - 2024
ERSO 2024

Highlights articles - 2024

- Research on the application of Breiman's algorithm integrated with the Random Forest in determining the importance of input factors to landslide formation in Son La province
Vol 65, Issue 1 [02 - 2024] 2510
1.0 ★ (152 Ratings)
- Geological setting of the Phu Khanh Basin based on updated geological-geophysical data
Vol 65, Issue 1 [02 - 2024] 2366
1.0 ★ (67 Ratings)
- Studying the theoretical basis and advantages and disadvantages of Logistic methods of the total horizontal Gradient
Vol 65, Issue 1 [02 - 2024] 2128
1.0 ★ (48 Ratings)
- Future climate projections for Vietnam: temperature and precipitation changes under SSP2-

JOURNAL OF MINING AND EARTH SCIENCES
VOL 65, ISSUE 6, [12 - 2024]
DOI:10.46326/JMES.2024.65(6)

01. Solutions to improving the efficiency of production organization at semi-mechanized longwall face I-6-2, Bac Quang Loi coal mine
DOI:10.46326/JMES.2024.65(6).01
Dung Tien Thai Vu *, Khai Cao Nguyen, Phuc Quang Le, Luong Xuan Nguyen
110

02. Evaluate the influence of steel fiber on the propagation time of ultrasonic waves in high-strength concrete
DOI:10.46326/JMES.2024.65(6).02
Nhan Thi Pham *, Nghia Viet Nguyen
99

03. A study on identifying and analyzing road traffic incident hotspots on National Highway 1A, Thanh Hoa province, Vietnam, employing Statistical and GIS Techniques
DOI:10.46326/JMES.2024.65(6).03
Ha Thi Le, Thao Phuong Thi Vu *, Thao Phuong Thi Do
115 5.0 ★ (1 Ratings)

04. Research on the application of wellbore strengthening methodology and managed pressure drilling for HTHP wells in highly depleted reservoirs at the Nam Con Son basin
DOI:10.46326/JMES.2024.65(6).04
Tai Trong Nguyen *, Charles Dunne, Vinh The Nguyen, Thinh Van Nguyen, Tu Van Truong
100

05. Prediction of Poisson's ratio for hydraulic fracturing operations in the

New Vols
Vol 65, Issue 4, [08 - 2024]
Full papers
JOURNAL OF MINING AND EARTH SCIENCES
Hanoi University of Mining and Geology

Top Key Words
Forecasting system
Logistic growth model
3D model
Stress
Quang Ninh
Digital Elevation Model
Mathematical model
History matching process



STUDENT RESEARCH

Annual students research contest in May

- Research groups of students under the supervision of a professor
- Funding from the university and the industry (Rosneft, Schlumberger, ...)
- Best researches are selected to enter higher level competitions (city, national, international)





INTERNATIONAL COOPERATION



- 88 international partners in 25 countries
- A member of international networks and alliances in mining, geology, and environment (AUN, VN-UK HEP, AMEE, WEUN, SPE,...)

Activities:

- Joint research and publication
- Joint training programs, joint lectures
- Participation of international scholars and scientists in HUMG's research groups
- International projects (research, CBHE)
- Staff mobility
- Student exchange (course taking program and research exchange)
- Recruiting full-time international students



INTERNATIONAL NETWORKS



ASEAN
University
Network



VN-UK HEP

INTERNATIONAL TUNNELLING
AND UNDERGROUND SPACE
ASSOCIATION

ITA



issa | mining | pro





STUDENT EXCHANGE PROGRAMS AT HUMG

Course-taking Program



- Taking courses in English of the Undergraduate Advanced training program in Chemical Engineering (in collaboration with the University of California, Davis)
- Autumn semester: September – January, apply before June 30
- Spring semester: February – June, apply before November 30

Research Exchange Program



- For 3rd year bachelor students or higherlevel students who have basic / good knowledge to conduct research work independently
- Joining research project led by HUMG's professors
- Duration: from 2 weeks to 5 months, apply 3 months before the exchange period

Internship



- For students of all levels
- Project based-learning approaches, Industry visit
- Duration: from 2 weeks to 5 months, apply 3 months before the exchange period



STUDENT EXCHANGE PROGRAMS AT HUMG

HUMG SUPPORT TO INTERN/EXCHANGE STUDENTS

- Admission Procedure
- Visa application
- Room reservation at dormitory for international students
- Airport pickup
- Mentors supporting during the exchange period

CONVEIENT LOCATION

- ✓ Between Noi Bai international airport and city center
- ✓ (16km from Noi Bai airport and 10 km to city center)
- ✓ International hospital 100 m from the campus
- ✓ Bus station at at the main gate (Price: 0.4 euro/ticket)



Phuong Dong International hospital

MEALS

- ❖ University restaurant at a distance of 50m from Dormitory
- ❖ Many local restaurants placed around residence
- ❖ Price: $\approx$ 2 euros per meal

SAFE AND FRIENDLY ENVIRONMENT



Dormitory for international students

DORMITORY FOR INTERNATIONAL STUDENTS

- 42 single/twin/triple rooms
- Equipped with toilet and shower, air conditioner
- Free wifi connection
- Reasonable fee ($\sim$ 100 Euro/month)





OUR VISION FOR FUTURE INTERNATIONAL COOPERATION



Aims: International Standard and Harmonization

Partners: all partners around the globe

Prioritization:

- Mining and mineral productions
- Oil and gas exploration, production and processing
- New energy, green energy and carbon transformation/storage
- Civil Engineering
- Earth Sciences: critical minerals
- Geo-hazard monitoring and mitigation
- Remote Sensing and Geo-spatial Technology
- Environmental Management, Pollution and Risks Monitoring
- AI and Big data
- Electro-Mechanics, Electrical Engineering



HANOI UNIVERSITY OF MINING AND GEOLOGY



THANK YOU!



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