



2023

STUDY GUIDE



**DEPARTMENT OF MINING ENGINEERING
FACULTY OF ENGINEERING
HASANUDDIN UNIVERSITY**

PREFACE

Welcome to the Department of Mining Engineering, Faculty of Engineering, Universitas Hasanuddin.

Mining Engineering Study Program Universitas Hasanuddin (Unhas) was established on March 9, 2004, and is currently accredited grade "A" by the Indonesian Accreditation Agency for Higher Education in Engineering in 2020 and International Accreditation Agency of ASIIN in 2021. Since the first year, students admission in the Mining Engineering Study Program Unhas has had a high-level competition with a wide distribution of alumni that covers up to foreign countries.

The Mining Engineering Department has five laboratories for practicum, research, and service for students and lecturers, namely the Mineral Exploration, Mine Planning and Valuation, Geomechanics, Mineral Processing and Analysis, and Mine Environment Laboratories, with the Student-Centered Learning (SCL) system and the Laboratory-Based Education (LBE) method.

With the availability of complete facilities and the support of qualified lecturers as a result of collaboration with Japan Bank Co-International Cooperation (JBIC), the lecture process at the Mining Engineering Department is very conducive.

Hopefully, this book will be useful for students as a guide for conducting lectures at Mining Engineering Unhas.

Head of Mining Engineering Degree Program

Dr. Aryanti Virtanti Anas, S.T., M.T.



GENERAL DESCRIPTION

History

Department of Mining Engineering is one of the departments in the Faculty of Engineering at Hasanuddin University, and it supervises the Bachelor of Mining Engineering degree program. Department of Mining Engineering currently has 13 academic staff of which have 9 with doctorate qualifications and 4 with master qualifications.

Department of Mining Engineering was originally a Mining Engineering undergraduate Study Program in the Geological Engineering Department, which has officially established on March 09, 2004, with the Decree number of Study Program: No.1116/D/T/2004. Furthermore, Mining Engineering gets permission for the education implementation on June 02, 2010, with decree number: 2380/D/T/K-N/2010. On August 02, 2017, Mining Engineering Study Program changed to the Mining Engineering Department based on the Rector's Decree number 21492/UN4.1/KL.06/2017 concerning the Establishment Mining Engineering Department that manages the bachelor of mining engineering degree program.

Mining Engineering degree program gets a rank accreditation C from BAN-PT in 2011 with number 002/BAN-PT./Ak-XIV/S1/V/2011. In 2014, the degree program applied for re-accreditation and succeeded in obtaining an accreditation rating of B on April 10, 2015, according to Decree number applicable 251/SK/BAN-PT/S/IV/2015 until April 10, 2020. The degree programme has the last accreditation Rating "A" based on the Indonesian Accreditation Agency for Higher Education (BAN-PT) No. 10451/SK/BAN-PT/SURV-BDG/S/VIII/2021 until September 1, 2025 and International Accreditation Agency of ASIIN until September 30, 2027.

Since its establishment until now, the degree program has been managed by six Head of Study Program: Dr. Sufriadin, S.T., M.T (2004-2008 & 2014-2018); Dr. Eng. Ir. Muhammad Ramli, M.T (2009-2010); Dr. Eng. Purwanto, S.T., M.T (2010-2011 & 2018-2022); Dr. phil.nat. Sri Widodo, S.T., M.T (2011-2014); Asran Ilyas, S.T., M.T., Ph.D (2022-2022); Dr. Aryanti Virtanti Anas, S.T., M.T. (2023-now).

Vision & Missions

The degree program has set its vision;

Modern higher education institution in development of sustainable mining technology innovation based on Benua Maritim.

Accordingly, the missions of the degree program are:

1. Providing education that can enrich professional skills and creative attitudes in managing activities related to the mining industry.
2. Conducting innovative research activities in accordance with the development of science and technology.
3. Actively involving in community service activities related to the field of mining engineering and be responsive towards challenges and global development.

These vision and missions are accessible through the degree program's website in <http://eng.unhas.ac.id/pertambangan> .

Based on the vision and missions, the program learning objectives of the Bachelor Degree of Engineering in Mining are to be able:

1. To develop technical design of mining.
2. To design and analyze mineral resources management and policy.
3. To gather knowledge of mine entrepreneurship.
4. To communicate effectively writing and oral.





Academic Zone

Admission of New Student

The academic year at Hasanuddin University takes place in August-June which is divided into two semesters, namely Odd Semester (August-December) and Even Semester (February-June). Acceptance of new students for Bachelor, Master, and Doctoral Programs is regulated in Hasanuddin University the Rector's Regulation Number: 36621/UN4.1/PP.37/2017 concerning New Student Admissions at Hasanuddin University. The new student admission process can be seen at the link <https://unhas.ac.id/pmb/>.

Admission of new undergraduate students at Universitas Hasanuddin, as a public university, refers to the provisions of the Indonesian government. The admission process is held with the following principles;

- a) Fair, namely not discriminating against religion, ethnicity, race, gender, age, social position, physical condition, and level of economic ability of prospective students, while still taking into account the potential and academic achievements of prospective students and the specificity of the bachelor degree program at the concerned university;
- b) Accountable, which is carried out in accordance with clear procedures and criteria;
- c) Flexible, namely the implementation of admission test is held several times and each prospective student can take more than one test;
- d) Efficient, namely administering university entrance tests using information and communication technology, involving human resources, and time flexibility; and
- e) Transparent, namely the implementation of new university admissions is carried out openly and the results of the implementation can be accessed easily.

The selection process is carried out at the national and university levels through five admission systems. The student admission system at Universitas Hasanuddin is organized by Student Admission Centre. The admission path for new undergraduate students at university is carried out through:

- a) National Selection to Enter University (SNMPTN) which is carried out based on the results of tracking academic achievements and/or portfolios of prospective students. Applicants are high school graduates or the equivalent who graduated in the same year as the year of admission. The selection process is carried out by the Government of the Republic of Indonesia nationally. The registration process includes two stages, namely a). the school recommends the best students on the website of <https://pdss.ltmpt.ac.id>, and qualified candidates register through the website of <https://snmptn.ltmpt.ac.id>
- b) Joint Selection for University Entrance (SBMPTN) is carried out based on the results of the Computer-Based Written Examination and other criteria agreed by the university. the applicant is a high school graduate maximum of the last 3 years. The selection process is carried out by the Government of the Republic of Indonesia nationally.
- c) Higher Education affirmation scholarship program (ADIK) is one of the efforts of the government of the republic of Indonesia to increase access and learning opportunities that have good academic potential but have limited access to education. One of the conditions is that they come from the Papua Province and West Papua Province, the frontier, outermost, underdeveloped areas, as well as the children of Indonesian workers from the border areas. Registration via the website <https://adik.ristekdikti.go.id>
- d) Non-Subsidized Pathway (JNS). Non-Subsidized Pathway Student Admission (PM-JNS) is one of the independent selection pathways organized by Universitas Hasanuddin to recruit prospective students who have academic achievements in addition to financial ability. Applicants are required to be registered as SBMPTN participants in the same year of admission to one of the bachelor degree programme at Universitas Hasanuddin. (<http://regpmb.unhas.ac.id>)
- e) The Sports, Arts, and Scientific Achievement Track (POSK) is one of the independent selection pathways organized by Universitas Hasanuddin to recruit prospective students who have academic/sports/arts/scientific achievements. Applicants are required to be registered as SBMPTN participants in the same year of admission to one of the bachelor degree programmes at Universitas Hasanuddin; (<http://regpmb.unhas.ac.id>)

In addition, the quota for the capacity of each bachelor degree programme provided for prospective new students participating in the SNMPTN is set at least 20% (twenty percent), and the SBMPTN is set at least 40% (forty percent) of the capacity of the bachelor degree program concerned. Meanwhile, the quota for each bachelor degree program provided for prospective new students who take part in the independent selection (university level) is set at a maximum of 30% (thirty percent) of the capacity of the bachelor degree program concerned.

Tuition Fee

Students pay tuition fees every semester which is called Single Tuition Fee (UKT). UKT system has been in effect at Hasanuddin University since the 2013 academic year. In general, tuition fees at Hasanuddin University are differentiated based on the admission path for new students.

UKT Students who pass the selection through the SNMPTN and SBMPTN consist of eight groups (Table 1). Determination of tuition fees or UKT based on the information and supporting data attached when re-registering. The determination of the UKT group refers to the economic background of the parents or the party who finances it.

Group	Tuition Fee per Semester (IDR)
I	0.-
II	1,000,000.-
III	2,000,000.-
IV	3,250,000.-
V	4,250,000.-
VI	5,500,000.-
VII	6,500,000.-
VIII	7,750,000.-

Tuition fees for students who pass the selection through the independent pathway consist of the UKT and Development Fund.

- Tuition Fees (UKT) Non-Subsidized Pathway (JNS) is set at the highest group, namely group VIII.
- Tuition Fees (UKT) for Sports, Arts and Scientific Achievement (POSK) is subject to UKT starting from group III depending on the economic capacity of the parents.
- The amount of development fund for the Undergraduate Study Program of Mining Engineering is IDR 70,000,000.-



Curriculum

Graduate Profiles

The curriculum of the Mining Engineering Undergraduate Study Program has undergone four changes, which was in 2007, 2011, 2016, and 2023. Basically, the graduate profiles are to have appropriate skills and knowledge to be able to act as:

Professional engineer	To be able to develop mine technical design.
	To implement methods and technology accordingly to the technical design.
	To design management of resources.
Researcher and educator	To do academic communication effectively both written and oral.
	To do continuous learning both independently and within team.
	To apply one of the expertise in mining.
Mining consultant and entrepreneur	To do special skill in certain mining expertise.
	To design management of resources.
	To communicate well and effectively.
	To develop mine entrepreneurship mindset.
Mining policy executive	To communicate well and effectively.
	To be able to analyze mine technical design.
	To develop managerial expertise.

The formulation of study program learning outcomes refers to the attachment of the Minister of Research, Technology and Higher Education No. 44 of 2015 concerning National Standards for Higher Education.

Attitude	To internalize academic values, norms, and ethics, also to effectively communicate in community life. (ILO-01)
Knowledge	To understand basic principles of geology, mathematics, physics, and chemistry, regarding the area of engineering. (ILO-02)
	To acquire concepts of technology of mining. (ILO-03)
Skills	To apply logic and innovative thinking in developing knowledge and technology and problem-solving within the area of expertise. (ILO-04)
Competences	To be able to apply principles of knowledge and technology in developing the technical design of mining. (ILO-05)
	To be able to apply basic principles of geology, and exploration engineering in analyzing and evaluating mineral and coal resources, including marginal deposit. (ILO-06)
	To be able to apply principles of economic, management and valuation techniques in planning and managing mineral and coal resources. (ILO-07)
	To be able to integrate principles of geomechanics in mining design. (ILO-08)
	To be able to study and take advantage of knowledge and technology in the engineering of mineral and coal processing, particularly enhancing marginal deposit, and critical and strategic minerals. (ILO- 09)
	To be able to integrate concept of ecotechnology in developing the technical design of mineral and coal mining. (ILO-10)

List of Courses

These ILOs are reflected in the courses of the degree programme.

Subject Classification	No	Courses	CP	ECTS	Semester	
National Mandatory Courses (Compulsory)	1	English Language	2	3.62	1	
	2	Civics	2	3.62	1	
	3	Religion	2	3.62	2	
	4	Indonesian Language	2	3.62	2	
	5	Pancasila	2	3.62	2	
			10			
University Mandatory Courses (Compulsory)	6	Insights of Cultural, Sciences, Technology and Arts of Indonesian Maritime Continent	2	3.62	1	
	7	Basic Physics I	3	5.43	1	
	8	Basic Physics II	3	5.43	2	
	9	Basic Mathematics I	3	5.43	1	
	10	Basic Mathematics II	3	5.43	2	
	11	Basic Chemistry I	2	3.62	1	
	12	Basic Chemistry II	2	3.62	1	
			18			
Core Courses (Compulsory)		A. Basic science in Geology				
	13	Basic Geology	2	3.62	1	
	14	Crystallography and Mineralogy	2	3.62	2	
	15	Petrology	2	3.62	3	
	16	Structural Geology	2	3.62	3	
				8		
		B. Basic Science in Engineering				
	17	Introductory to Mining Engineering	2	3.62	1	
	18	Mapping	2	3.62	2	
	19	Engineering Drawing	2	3.62	2	
	20	Engineering Mechanics	2	3.62	2	
	21	Introductory to Numerical Computation	2	3.62	3	
	22	Statistics	2	3.62	3	
	23	Mining Thermodynamics	2	3.62	3	
	24	Electric Power Engineering	2	3.62	3	
	25	Mine Equipment and Material Handling				
	26	Mining Environmental Science	2	3.62	3	
	27	Fluid Mechanics	2	3.62	3	
	28	Numeric Computation	2	3.62	4	
	29	Rock Mechanics	2	3.62	4	
	30	HSE and Mining Policy	2	3.62	4	
	31	Engineering Entrepreneurship	2	3.62	4	
	32	Exploration Techniques	2	3.62	5	
33	Scientific Communication Techniques	2	3.62	5		
			34			

Subject Classification	No	Courses	CP	ECT S	Semester
		C. Engineering Design			
		C-1. Mine exploration			
	34	Mineral Deposit Genesis	2	3.62	4
	35	Geostatistics	2	3.62	5
	36	Coal Genesis and Quality	2	3.62	4
	37	Modelling and Reserve Evaluation	2	3.62	6
		C.2. Mining Geotechnics			
	38	Blasting Technique	2	3.62	5
	39	Mine Ventilation	2	3.62	5
	40	Mine Geotechnics	2	3.62	6
		C.3. Mine Valuation & Management			
	41	Mine Management	2	3.62	4
	42	Mineral Economics	2	3.62	4
	43	Mine Investment Analysis	2	3.62	5
	44	Mine Valuation	2	3.62	6
		C.4. Material Processing			
	45	Mineral Characterization	2	3.62	3
	46	Mineral Processing	2	3.62	4
	47	Non-metallic Minerals and Rocks	2	3.62	5
		C.5. Mine Environment			
	48	Soil Mechanics	2	3.62	4
	49	Hydrogeology	2	3.62	4
	50	Mine Environmental Engineering	2	3.62	5
	51	Mine Hydrology	2	3.62	5
		C.6. Mine Design			
	52	Underground Mine	2	3.62	3
	53	Surface Mine	2	3.62	3
	54	Mine Planning	5		6
			45		
Advanced Topics Courses (Elective)	55-56	<i>Student should attend 2 courses (appendix)</i>	4		5&6
			4		
Competence Strengthening Courses (Compulsory)	57	MKPK	20		5&6
			20		
Bachelor Thesis (Compulsory)	58	<i>Seminar*</i>	2	3.62	8
	59	<i>Bachelor Thesis*</i>	4	7.24	8
			6		
			145		



Academic Rules

Organization of Academic Activities

Referring to the Regulation of the Rector of Hasanuddin University Number: 2781/UN4.1/KEP/2018 concerning "Organization of the Hasanuddin University Undergraduate Program". Stages of the evaluation of learning outcomes:

1. The learning process of the courses is conducted face-to-face in the classroom, and the evaluation is carried out with the following requirements:
 - Students participating in the course are active students.
 - Lecturers have organized at least 85% of the face-to-face plans at the RPS.
 - Students have participated in at least 80% of the learning activities.
2. Evaluation of student learning outcomes is carried out in accordance with the Semester Learning Plan.
3. The value of learning outcomes is expressed in letters by converting the form of numbers.

Number Value Range	Letter Value	Conversion Rate
85 – 100	A	4.00
80 - < 85	A-	3.75
75 - < 80	B+	3.50
70 - < 75	B	3.00
65 - < 70	B-	2.75
60 – < 65	C+	2.50
50 – < 60	C	2.00
40 – < 50	D	1.00
< 40 E	E	0.00

4. Grades A to D is grades passed, while grade E is not passed.
5. Student who gets grade of E has to retake and reprogram the course in the next semester until they get a passing grade.
6. Passing grades cannot be repeated in the next semester, except a) grade D. b) grade C provided that the student has passed a minimum of 114 credits and a temporary GPA < 3.00.
7. The courses that are repeated as mentioned in number (6) may only be repeated once and the grade recognize is the last grade.
8. Evaluation of the learning outcomes of repeated courses as mentioned in (5) and (6) must follow the requirements as stipulated in (1).
9. The value of K (blank) is given to a student who withdraws from the course legally and submits written statement with the approval of the Academic Advisor and is known by the Head of Study Program and the Dean, and is determined by a letter of permission from the Rector.
10. The value of M (satisfactory) or TM (unsatisfactory) is given by the main supervisor at the end of the current semester for the thesis that is programmed at the Course Selection Sheet and is still in progress.
11. M and TM scores are not included in the calculation of the semester achievement index (IPS).
12. Assessment of learning outcomes is carried out by lecturer or a team of lecturers following the value of student learning outcomes and reported online to <http://apps.unhas.ac.id> by the Coordinator of Lecturers of the supporting courses according to the schedule on the Academic Calendar.

Grade Point Average (GPA) & Grade Point Semester (GPS)

A standard way on measuring the academic achievement is by using the Grade Point (GP). For each semester, the Grade Point of Semester (GPS) is calculated from the conversion value and credit weight of each course registered and listed in the study plan card with the formula:

$$GPS = \frac{\sum(N_i \times K_i)}{\sum K_i}$$

Where:

K_i = the weight of the credits of the i^{th} course in one semester

N_i = the quality value after being equalized to the conversion value of the i^{th} course

The Grade Point Average (GPA) is calculated from all course scores that have been passed by students using the formula similar to the GPS. GPS and GPA are listed on the Study Results Card (KHS).

Thesis Examination Assessment

1. The assessment of the thesis appraises the student's comprehension of the exam material by referring to the assessment rubric.
2. The assessment is carried out by each member of the thesis examiner team present and is stated with a number.
3. The thesis test score is the average score of the examiner team, which is then converted to letter grades: A/A-/B+/B/B-/C+/C/E.
4. Grades A to C is passing grades, while grades E is non-passing grade.

Graduation Requirements

1. Pass all credits in accordance with what has been determined in the curriculum with a thesis test score of at least C and a GPA after the thesis exam of at least 2.00.
2. Have completed all the administrative requirements required by the Study Program, Faculties, and Hasanuddin University.
3. Has been declared graduated and has an alumni number.

Graduate Mention

1. The graduation mention consists of 3 (three) levels, which are satisfactory, very satisfactory, and cum laude. The mention is listed on the academic transcript.
2. The mention of graduation as referred to in (1) is based on GPA (Grade Point Average) as follows:
 - a. GPA 2.00 – 2.75: average
 - b. GPA 2.76 – 3.00: satisfactory.
 - c. GPA 3.01 – 3.50: highly satisfactory.
 - d. GPA 3.51 – 4.00: cum laude.
3. The mention of commendation or cum laude as referred to in (2d) is given if the thesis test score is A, the value of each course is at least B, has never repeated the course, and the study period up to the time of graduation is 8 (eight) semester.
4. If the requirements as referred to in (3) are not met, then the graduation mention is declared very satisfactory.

Community Service

1. Types of KKN are regular KKN, national KKN, Partnership KKN, professional or thematic KKN, Field Work Practice, Industrial Work Practice, or other forms as determined by the Rector's Decree.
2. The degree program may choose the type of KKN as referred to in (1) which is in accordance with the formulation of graduate learning outcomes and the degree program curriculum.
3. KKN as referred to in (1) has to have a learning objective formulated by each manager.
4. The mechanism for organizing KKN will be regulated separately by the Rector's Regulation.

Research

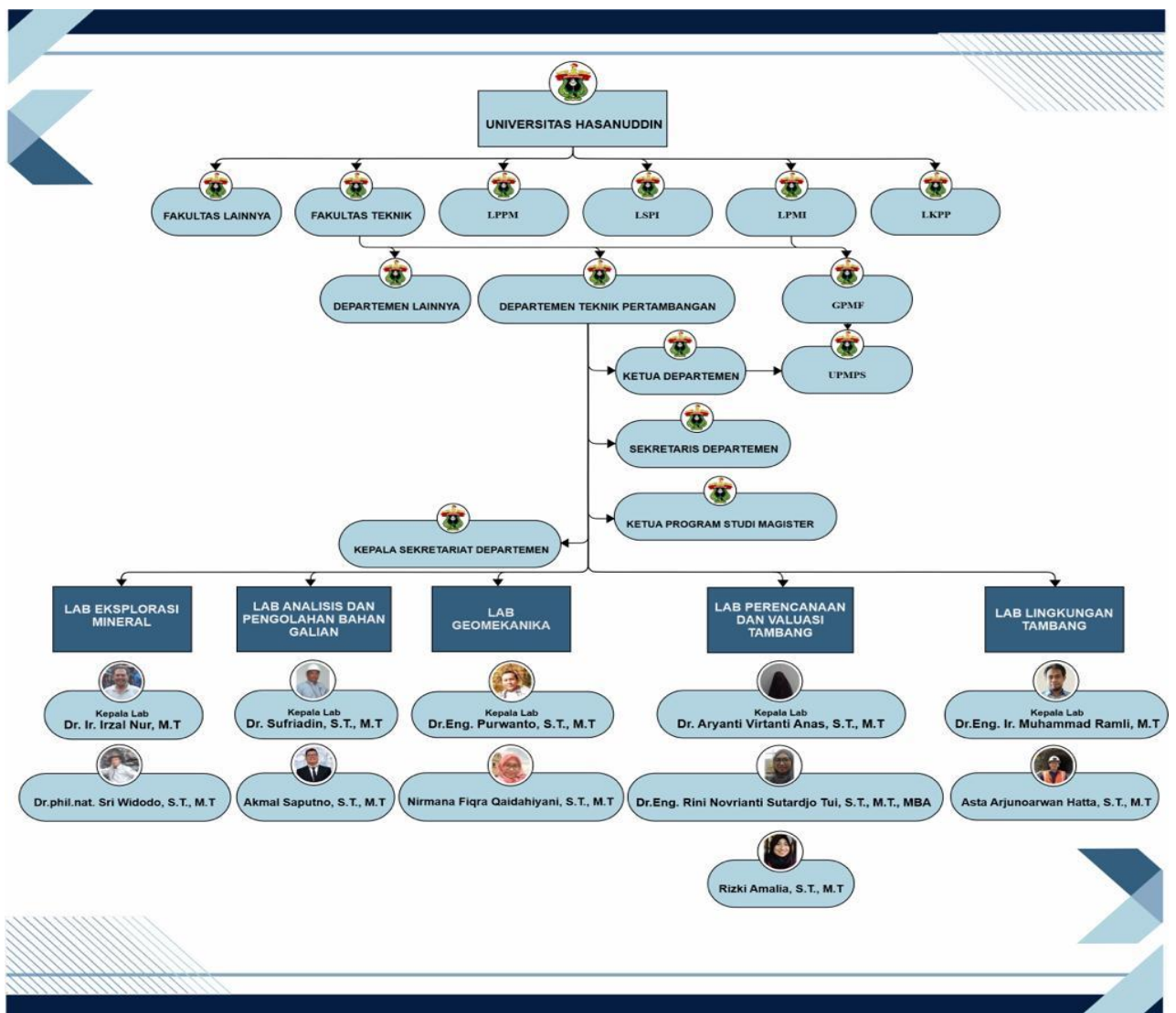
1. Bachelor students have to do individual research in the context of preparing a thesis which is given a 4 to 6 credits.
2. The bachelor thesis can be programmed on the study plan card after the student has passed a minimum of 140 credits.
3. The form, scope, and depth of research as well as the format of the thesis in the degree program are determined by the Dean's Decree.
4. The research topic must be approved by the Main Advisor and Co-Advisor.
5. Research can be carried out inside or outside the Hasanuddin University Campus and have to be under the guidance of the Main Advisor and Co-Advisor.
6. The implementation of research and preparation of the thesis have to be monitored and evaluated by the Main Advisor.
7. The process of supervising the implementation of research and thesis writing has to be carried out in a structured manner within the Hasanuddin University campus environment, at least 4 (four) times in one semester, and must be recorded in a logbook and or on <http://apps.unhas.ac.id>.

1. Academic leave for 1 (one) semester is only given to students a maximum of 2 (two) times during the study period and is not allowed for two consecutive semesters, and has never resigned from all courses.
2. The leave as referred to in (1) cannot be carried out consecutively with resignation from all courses.
3. Academic leave is not permitted in the first and second semesters.
4. Scholarship recipients are not allowed to take academic leave.
5. Cooperation class students are not allowed to take academic leave unless otherwise stipulated in the cooperation agreement.
6. During academic leave, students are not allowed to participate in all academic activities in any form.
7. Applications for academic leave have to obtain approval from the Head of Study Program and be submitted in writing to the Academic Administration Bureau through the Dean no later than 1 (one) week before the inaugural lecture.
8. The period of academic leave is not included in the calculation of the study period.
9. Students with academic leave status are not subject to tuition fees.



Program Structure

Organization Structure



Lecturer & Educational Staff

Lecturer Staff

No	Name	Degree	Graduated from	Position	Affiliating Laboratory
1	Dr. Eng. Ir. Muhammad Ramli, M.T.	Doctor of Engineering	Japan	Associate Professor	Mine Environment
2	Dr. Ir. Irzal Nur, M.T.	Doctor of Engineering	Indonesia	Associate Professor	Mineral Exploration
3	Dr. Sufriadin, S.T., M.T.	Doctor of Engineering	Indonesia	Associate Professor	Mineral Processing and Analysis
4	Dr. Eng. Purwanto, S.T., M.T.	Doctor of Engineering	Japan	Assistant Professor	Geomechanics
5	Dr. Aryanti Virianti Anas, S.T., M.T.	Doctor of Engineering	Indonesia	Assistant Professor	Mine Planning and Valuation
6	Dr.phil.nat. Sri Widodo, S.T., M.T.	Doctor of Engineering	Germany	Assistant Professor	Mineral Exploration
7	Dr.Eng. Rini Novrianti Sutardjo Tui, S.T., M.BA.,M.T.	Doctor of Engineering	Japan	Assistant Professor	Mine Planning and Valuation
8	Nirmana Fiqra Qaidahiyani, S.T., M.T.	Master of Engineering	Indonesia	Assistant Professor	Geomechanics
9	Rizki Amalia, S.T., M.T.	Master of Engineering	Indonesia	Lecturer	Mine Planning and Valuation
10	Asta Arjunoarwan Hatta, S.T., M.T.	Master of Engineering	Indonesia	Lecturer	Mine Environment
11	Akmal Saputno, S.T., M.T.	Master of Engineering	Indonesia	Lecturer	Mineral Processing and Analysis

Educational staffs

No	Name of Educational Staff	Position
1.	Surianti	Head of Department Secretariat
2.	Sri Sugiastuti, ST.	Administration Staff
3.	Fia Kurnia Halim, S. Hum.	Administration Staff



Laboratory

MINERAL PROCESSING AND ANALYSIS LABORATORY

Research Topics:

Metal Mineral Characterization, Non-metallic Mineral Characterization, Coal Characterization, Coal Processing, Ore Processing, Non-metal Mineral Processing



Room



Equipments

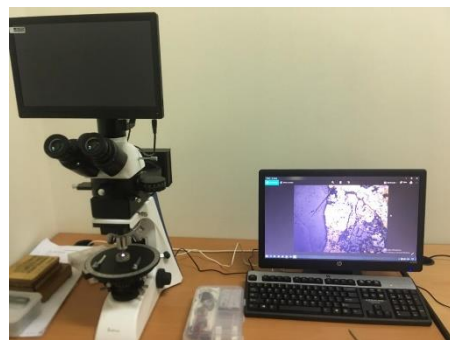
MINERAL EXPLORATION LABORATORY

Research Topics:

- Mineral Exploration
- Coal Exploration
- Geochemical Exploration
- Geophysical Exploration
- Reserve Modeling and Evaluation



Rooms



Equipments

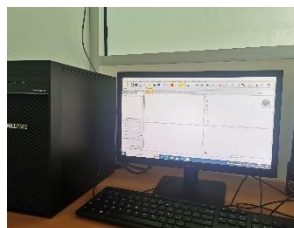
GEOMECHANICS LABORATORY

Research Topics:

- Geotechnical and Geomechanical Analysis
- Pit Slope Stability and Disposal
- Blasting Design
- Rocscience Software
- Underground Mining Stability Analysis



Room



Equipments

MINE ENVIRONMENT LABORATORY

Research Topics:

- Groundwater Hydrology
- Groundwater and Geotechnical Problems
- Mine Drainage and Drain
- Mine Waste Management
- Mine Acid Water
- Mine Ventilation
- Mine Reclamation



Room

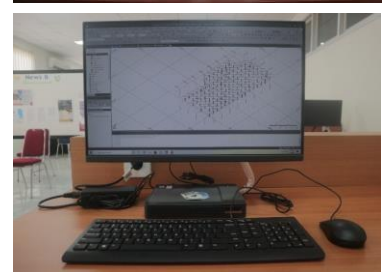


Equipments

MINE PLANNING AND VALUATION LABORATORY

Research Topics:

- Mine Planning
- Mine Management
- Mine Investment Analysis
- Mineral and Coal Economics
- Sustainable Mining Development



Room & Equipments



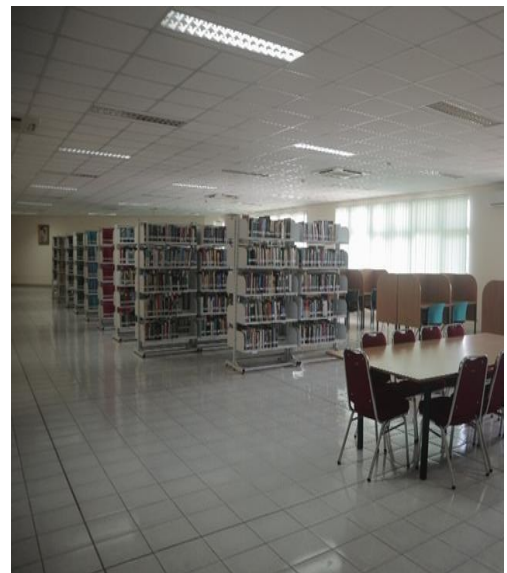


University Facilities

Library

Libraries that can be used by students consist of:

1. Hasanuddin University Central Library in Tamalanrea Building:
<http://www.unhas.ac.id/perpustakaan>.
2. Faculty of Engineering Library at Center of Student Activities (CSA):
<http://cot.unhas.ac.id/library>



Medical Facilities

Medical Facilities provided for students:

- University Hospital of Hasanuddin
- Polyclinic of Hasanuddin
- Dental Hospital of Kandeana
- Dental Clinic of Halimah Daeng Sikati.
- The Public Health Center of Bontomarannu.



Student Dormitory

1. Tamalanrea Campus ; Student Dormitories of Hasanuddin University or so-called student flats (Rusunawa) consist of two main buildings, each consisting of five floors. This Rusunawa can be the most popular residence for students especially those from abroad. The rental fee per room is IDR 350.000/month. For information and registration, prospective new residents can contact the building manager.
2. Engineering Faculty's Student Dormitory; The dormitory has a capacity of 810 people consisting of 10 blocks with a capacity of 22 rooms per block. This dormitory is dedicated to new students of the Faculty of Engineering, Hasanuddin University, and can be used for one year. For information and registration, prospective new residents can contact the building manager.



Modes of Transportation

Modes of transportation that can be used by students:

- Campus buses and BRT (Bus Rapid Transport) serve the route from the Campus to the Mall Panakukang and vice versa.
- Public transportation serves routes to and from campus and other public facilities.



Worship Facilities

Mosques on campus that can be used by students to carry out activities worship:

- Tamalanrea Campus Mosque
- Harun Al-Rashid Mosque
- IKATEK Mosque

In addition, there is also a prayer room in every building, including one prayer room in the Mining Engineering Department Building.



Bank and ATM

Several banks and automatic teller machines are located on campus, namely Bank Negara Indonesia (BNI), Bank Mandiri, and Bank Rakyat Indonesia (BRI).



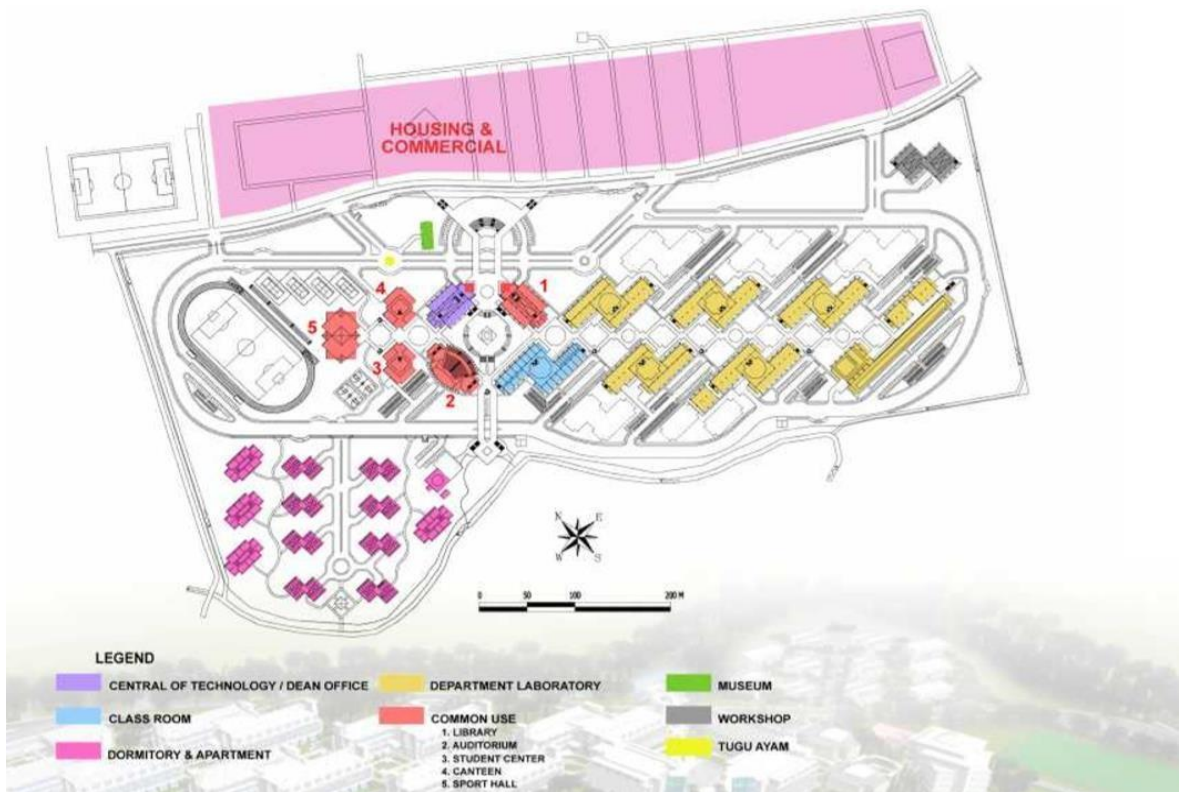
Student Activity Centers

For students who want to take part in extracurricular activities, they can take advantage of the Student Activity Center Building and the Sports Building (GOR). There is also Student Center Building in Gowa for Student Association for each departments.

The Student Activity Unit (UKM) of Hasanuddin University is divided into five groups, namely: National Service, Welfare, Reasoning, Cultural Arts, and Sports. Overall, Unhas facilitates 26 types of SMEs which include PKM UKM, Basketball UKM, Volleyball UKM, Badminton UKM, Chess UKM, Photography UKM, Hockey UKM, Karate-Do UKM, Student Cooperative UKM, Corps Nature Lovers UKM, KSR PMI UNHAS UKM, Student Film League UKM, UNHAS LDK-MPM UKM, PERBAKIN UKM, Student Press UKM, Student Choir UKM, Swimming UKM, Student Regiment UKM, Search and Rescue UKM, Football UKM, Shorinji Kempo UKM, Softball-Baseball UKM, Tae Kwon Do UKM, Campus Theater UKM, Table Tennis UKM, and Scout UKM. At the faculty level, the forum for students to carry out extracurricular activities is the UKMT (Engineering Student Activity Unit) which consists of PKM UKM, Welcome UKM, Mapala UKM, Komtek UKM, Chanel UKM, Creator, UKM TOS UKM, and Sport UKM.



Map & Campus Facilities



**Departemen Teknik Pertambangan
Fakultas Teknik, Universitas Hasanuddin
Gedung Geologi Pertambangan Lt. 2
Jalan Poros Malino Km. 6, Kabupaten Gowa, Sulawesi Selatan**