STUDENT HANDBOOK

BACHELOR DEGREE PROGRAM IN INFORMATICS

FACULTY OF ENGINEERING

HASANUDDIN UNIVERSITY

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1. OVERVIEW

1.1. A BRIEF HISTORY OF INFORMATICS STUDY PROGRAM

Bachelor Degree Program in Informatics, Faculty of Engineering Universitas Hasanuddin (ISP-UH) was established in 2008 based on SK DIKTI No. 852/D/T/2008. At the beginning of the establishment, Informatics Engineering Study Program is a Study Program under the Department of Electrical Engineering, Faculty of Engineering, Universitas Hasanuddin (Unhas). The location of Prodi at that time was on the Tamalanrea Unhas Campus, the 4th Floor Engineering Faculty building. Informatics Engineering Study Program conducted the first New Student Admission process in 2008 with a total of 60 students and graduated the first alumni in 2012. Graduates of Informatics Engineering program Unhas get S.T. (Bachelor of Engineering).

The opening of ISP-UH is based on consideration of the rapid development of information and computer technology, the needs of large industries and job markets, the prospects for the development of a very open forward department and the support of very adequate resources. The fields of informatics engineering studies are no longer limited to matters related to the field of electro, but have formed specialized fields of study such as Computing Everywhere, The Internet of Things,3D Printing, Advanced, Pervasive and Invisible Analytics, Context-Rich Systems, Smart Machines, Cloud/Client Computing, Software-Defined Applications and Infrastructure, Web-Scale IT and Risk-Based Security and Self-Protection.

1.2. VISION AND MISSION OF INFORMATICS STUDY PROGRAM

1. Vision of the Informatics Study Program

In line with Universitas Hasanuddin's vision: "The flagship center in human development, science, technology, art, and culture based on the Maritime Continent of Indonesia", the Informatics Engineering Study Program (ISP-UH) sets out the vision:

> "The leading center in the education, research and application of information technology based on computer networks and intelligent systems based on the Indonesian Maritime Continent in 2025."

2. Mission of the Informatics Study Program

1. Produce graduates who have good attitudes and values, have general skills, specialized skills, and knowledge in the field of Informatics and computers and can apply knowledge and skills owned independently, creatively, and innovatively in keeping up with technological developments.
2. Produce scientific works in the field of information technology based on computer networks and intelligent systems based on the Indonesian Maritime Continent, which are published nationally and internationally.
3. Disseminating useful technology for people who support the improvement of people's quality of life.
4. Establish and strengthen cooperation with relevant institutions, both nationally and internationally to support the improvement of the quality of relevance in teaching, research, and competence of graduates.

2. ACADEMIC ZONES

2.1. ADMISSION OF NEW STUDENTS

The admission of the programme's new students refers to the university's admission policy for a new student. This admission process takes place once each year. The admission process is conducted through 4 modes of entry. Each mode of entry has different admission requirements as described below.

1. SNMPTN (National Entry Selection for Public Universities) (https://ltmpt.ac.id/?mid=4#)

   SNMPTN is a national selection procedure to enter public universities, conducted by the General Directorate of Higher Education of the Ministry of Education and Culture of Indonesia, based on the academic records of students during their secondary school (grade 10-12 or Senior High School).

2. SBMPTN (Joint Entry Test for Public Universities) (https://ltmpt.ac.id/?mid=8)

   Like the SNMPTN, the SBMPTN is another national selection procedure to enter public universities, conducted by the General Directorate of Higher Education of the Ministry of Education and Culture of Indonesia. However, unlike the SNMPTN, the SBMPTN uses a joint test mechanism throughout the nation as the means to select the student candidates.

3. ADik-3T (Affirmative Track) (https://adik.kemdikbud.go.id/)

   To provide an equal chance for students in the far-remote area and the underdeveloped regions of Indonesia, the General Directorate of Higher Education opens ADik-3T special track for national selection procedure for public universities.

4. Jalur Mandiri (Local Admission Track)

   In addition to the national selection process as described above, the programme also implements two local admission procedures.

   1. JNS (Entry Selection for Non-Subsidized Student)

      JNS is an independent entry selection that is organized by Hasanuddin University to provide the opportunity for students who have not succeeded in the SBMPTN, but still reached the threshold score. The selection takes place after SBMPTN

results are announced.

2. POSK (Talent-based Selection Track)

   POSK is an independent entry selection that is also organized by Hasanuddin University based on the sport, art and science achievements. Assessment of POSK is based on the score of SBMPTN in the same entry year and the significance of skills/ talents proven with achievement certificates or tokens that are provided by the applicants.

All the admission processes above are coordinated centrally through the university. The information and all the procedures for the admission of domestic students can be accessed through http://regpmb.unhas.ac.id/, while the same information for foreign students can be accessed through https://foreignstudent.unhas.ac.id/.

2.2. CURRICULUM

The curriculum of Bachelor's Degree Programme of Informatics (ISP-UH) is designed to introduce the core subjects of informatics such as the theoretical informatics, algorithms and data structures, databases and information systems, operating systems, communication systems, computer architecture, programming technology, software engineering and projects with a large element of software engineering.

ISP-UH adapts the subject benchmark statements from the Document of OBE (Output Based Education)-based KKNI (National Qualification Framework of Indonesia) Curricula Development for Informatics and Computing Science that was published by the Indonesian Association of Higher Education in Informatics and Computing (APTIKOM - http://aptikom.or.id) in 2019. Moreover, ISP-UH also performs benchmarks with similar degree programmes, nationally and internationally. To enrich the curriculum's content, the programme also uses the Computer Science Curricula 2013 from the ACM and IEEE Computer Society as a subject benchmark.

The curriculum of ISP-UH, that includes the IQP (GP, PLO and ILO) is revised every five years according to the Guidelines for the Preparation of Higher Education Curriculum (Dirjen Belmawa, 2016) and the Higher Education National Standard (SN-Dikti) article 39 paragraph (2), which states that periodic monitoring and evaluation activities in order to maintain and improve the quality of the learning process are absolutely carried out by study programme and university managers. At the time of writing this Self-Assessment Report (SAR), ISP-UH was just finishing the process of revising the curriculum of 2016.

2.3. REGULATION OF BACHELOR DEGREE PROGRAM IN INFORMATICS

Referring to Universitas Hasanuddin Rector Regulation **Number: 2781 / UN4.1 / KEP / 2018** concerning

"Organizing the Universitas Hasanuddin Undergraduate Program".

A. EVALUATION OF LEARNING RESULTS

1) Courses that have a face-to-face learning process in the Undergraduate Program, evaluation is carried out with the following requirements:
   a. Students participating in the course are active students
   b. Lecturers have conducted at least 85% of the face-to-face plans at the RPS; and
   c. 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 by letters with the conversion of the number form, namely:

RANGE OF SCORE	LETTER VALUES	CONVERSION VALUE
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) Values A through D are pass values, while E values are non-pass grades.
5) Courses with a value of E must be repeated and programmed in the following semester to get a grade pass.

6) Graduation scores cannot be repeated in the following semester, except:
   a. D value; and
   b. C value, with a minimum of 114 credit points and a GPA of <3.00.
7) Repeated subjects as mentioned in paragraph (6) may only be repeated once and the final value is recognized.
8) Evaluation of learning outcomes of repeated courses as mentioned in paragraphs (5) and (6) must follow the requirements as regulated in paragraph (1).
9) K value (blank) is given to students who have resigned from the course legally and in writing with the approval of the Academic Advisor and is known by head of study program and the Dean, and determined by permission from the Chancellor.
10) M (satisfactory) or TM (unsatisfactory) grades are given by the main supervisor at the end of the current semester for the thesis programmed in study plan card and still in process.
11) M and TM scores are not included in the calculation of the semester performance index (IPS).
12) Evaluation of learning outcomes is carried out by lecturers or lecturer teams in accordance with student learning outcomes and reported to the Unhas Management Information System by the course coordinator according to the schedule on the Academic Calendar.

B. GRADE POINT AVERAGE (GPA)

1) The success of student studies is stated by the Achievement Index (IP).
2) Semester Achievement Index (IPS) is calculated from the conversion value and credit point of each course listed in KRS with the following formula:

   $$\mathbf{IPS = \Sigma\ (N_i \times K_i) / \Sigma\ K_i}$$

   K_i = the weight of credits in the first course in one semester

   N_i = quality value after being synchronized to the value of the conversion of the course *i*
3) Grade Point Average (GPA) is calculated from all course grades that have been graduated by students using the formula as referred to in point (2).
4) IPS and GPA as referred to in point (2) and (3) above are listed on the Study Result Card (KHS).

C. THESIS EXAMINATION ASSESSMENT

1) Thesis examination evaluation is based on the participants mastery of the exam material with reference to the assessment rubric.

2) Evaluation is carried out by each member of the thesis examining team present and expressed in scores.
3) Thesis examination scores are the mean scores of the testing team which are subsequently converted to letter values: A / A- / B + / B / B- / C + / C / E.
4) Values A to C are pass values, while E values are non-pass grades.

D. GRADUATION REQUIREMENTS AND PREDICATE

1) Passed all credits in accordance that has been determined in the department's curriculum with a thesis examination score of at least C and GPA after a thesis examination of at least 2.00.
2) Students have completed all administrative requirements required by the department, faculty, and Universitas Hasanuddin.
3) Students have graduated and have alumni numbers

E. GRADUATION PREDICATE

1) Graduation predicate consists of three levels which are satisfying, very satisfying, and cum laude included in academic transcripts.
2) Graduation predicate as referred to in point (1) based on the GPA is as follows:
   a. GPA 2.00 – 2.75: ordinary.
   b. GPA 2.76 – 3.00: satisfying.
   c. GPA 3.01 – 3.50: very satisfying.
   d. GPA 3.51 – 4.00: cum laude.
3) The predicate of cum laude is approved in point (2) given approval of the value of the thesis examination that A, the value of each course as low as B, never repeat the course, and the present study period with a judicium for maximum eight semesters.
4) When the point (3) is not qualified so the graduation predicate is very satisfying.

F. COMMUNITY SERVICE

1) Community Service can be in the form of regular, national, partnership, professional or thematic, field work practices, industrial work practices, or other forms determined by the Chancellor's Decision.
2) The Department can choose the type of community service as referred to in point (1) in accordance with the formulation intended learning outcomes (ILO) and the department's curriculum.

3) Community service as referred to in point (1) must have a learning objective formulated by each manager.
4) The mechanism for conducting community service will be regulated separately by Rector's Regulation.

G. RESEARCH

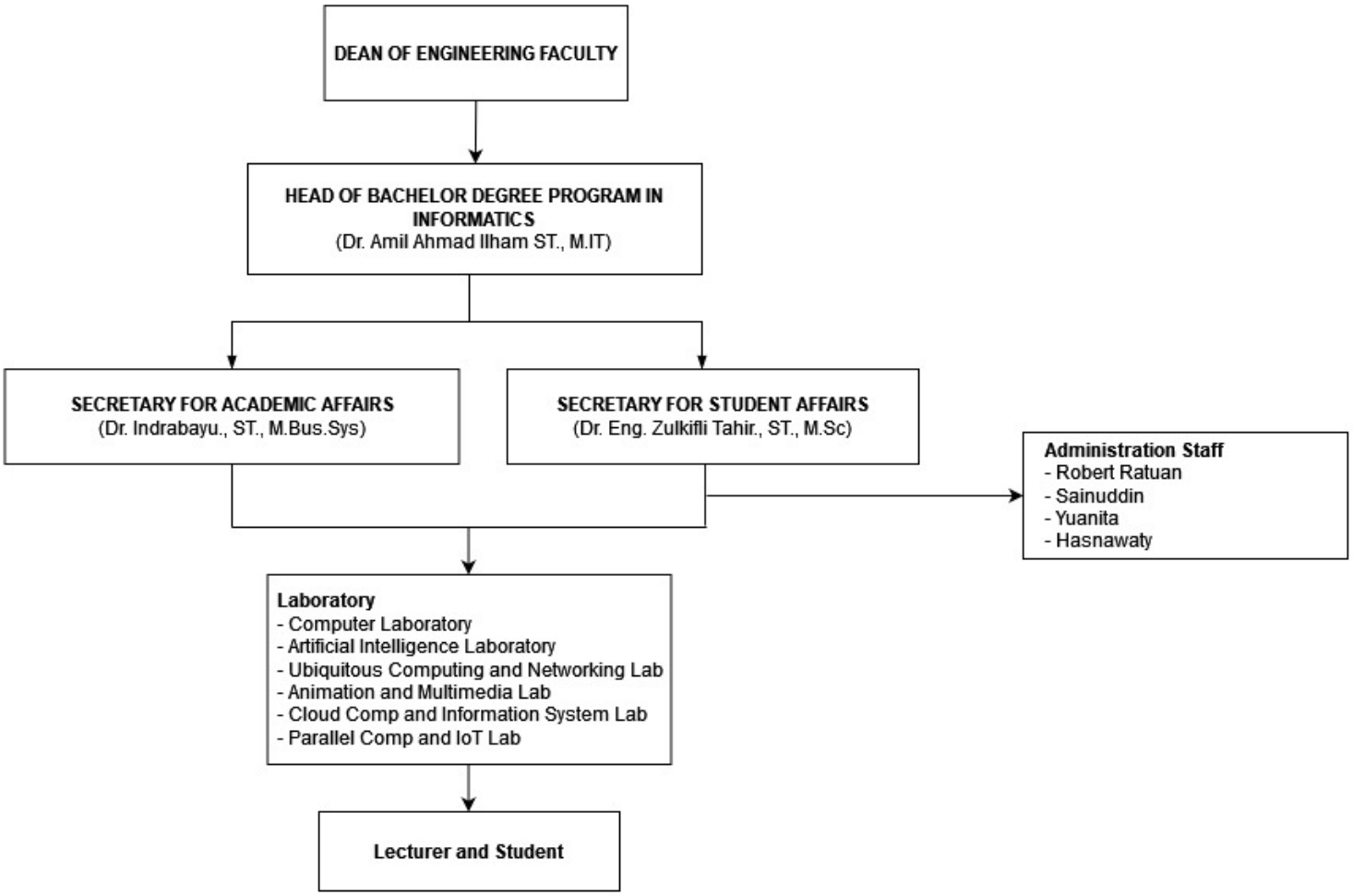
1) Undergraduate students must carry out research in the context of the preparation of the final thesis which is given a weight of 4 to 6 credits.
2) Thesis can be programmed in study plan card after students pass a course of at least 114 credits.
3) The form, scope, and depth of the study and the format of the thesis in a study program are determined by the Dean Decision.
4) The research topic must be approved by the main supervisor and co-supervisor.
5) Research can be carried out inside or outside the UNHAS Campus environment and must be under the guidance of the main supervisor and mentoring advisor.
6) The research implementation and thesis preparation must be monitored and evaluated by the main supervisor.
7) The process of guiding the implementation of research and thesis writing must be carried out in a structured manner within the Unhas campus environment, at least four times in one semester, and must be recorded in a logbook and or on the UNHAS Management Information System.

H. ACADEMIC LEAVE

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 two consecutive semesters and has never resigned from all courses.
2) Leave as referred to in point (1) cannot be carried out consecutively with the resignation of all courses.
3) Academic leave is not permitted in the first and second semester.
4) Scholarship recipients are not permitted to take academic leave.
5) Cooperation class students are not permitted to take academic leave, unless otherwise stipulated in the cooperation agreement.
6) During academic leave, students are not permitted to participate in all academic activities in any form.

7) An application for academic leave must obtain approval from the head of study program and it must be submitted in writing to the Academic Administration through the Dean no later than 1 (one) week before the inaugural lecture.
8) Academic leave periods are not included in the calculation of study period.
9) Students with academic leave status are not charged tuition fees.

2.4. ORGANIZATIONAL STRUCTURE OF INFORMATICS STUDY PROGRAM



2.5. LIST OF LECTURERS

No	Name of Lecturer	Academic Position	Formal Education (D: Doctoral, M: Magister, B: Bachelor)	Expertise
1	A.Ais Prayogi., ST., M.Eng	Assistant Professor	M: Korea University B: Institut Teknologi Bandung	Data Management. Mobile Programming
2	Adnan., ST., MT., PhD.	Associate Professor	D: Tsukuba University M: Institut Teknologi Bandung B: Universitas Hasanuddin	Parallel Programming
3	Ady Wahyudi P., ST., MT., Dr. Eng.	Assistant Professor	D: Nara Institute Technology, Japan M: Universitas Hasanuddin B: Telkom University	Cyber Security and Computer Network
4	Amil Ahmad Ilham., ST., M.IT., Dr.	Associate Professor	D: Kyushu University, Japan M: The University of Newcastle Australia B: Universitas Hasanuddin	Data Science and Cloud Computing
5	Andani Achmad., Ir., MT., Dr., Prof	Professor	D: Universitas Hasanuddin M: Universitas Hasanuddin B: Universitas Hasanuddin	Telecommunication
6	Ansar Suyuti., Ir., MT., Dr.., Prof	Professor	D: Universitas Hasanuddin M: Universitas Hasanuddin B: Universitas Hasanuddin	Sensor System
7	Anugrayani Bustamin., ST., MT	Assistant Professor	M: Universitas Hasanuddin B: Universitas Hasanuddin	Natural Language Processing

No	Name of Lecturer	Academic Position	Formal Education (D: Doctoral, M: Magister, B: Bachelor)	Expertise
8	Christoforus Yohannes., Ir., MT	Assistant Professor	M: Universitas Hasanuddin B: Universitas Hasanuddin	Robotics
9	Dewiani., Ir.., MT., Dr. Eng	Associate Professor	D: Ehime University M: Institut Teknologi Bandung B: Universitas Hasanuddin	Telecommunication
10	Elly Warni., ST., MT	Assistant Professor	M: Universitas Hasanuddin B: Universitas Hasanuddin	Data Mining
11	Indrabayu., ST., MT., Dr.	Associate Professor	D: Universitas Hasanuddin M: Institut Teknolgi Sepuluh Nopember Surabaya B: Universitas Hasanuddin	Artificial Intelligence
12	Ingrid Nurtanio., Ir., MT., Dr.	Assistant Professor	D: Institut Teknolgi Sepuluh Nopember Surabaya M: Universitas Hasanuddin B: Universitas Hasanuddin	Biomedic and Image Processing
13	Intan Sari Areni., ST., MT., Dr.Eng	Associate Professor	D: Ehime University M: Universitas Gajah Mada B: Universitas Hasanuddin	Telecommunication and Multimedia
14	Iqra Aswad., ST., MT	Assistant Professor	M: Universitas Hasanuddin B: Universitas Hasanuddin	Web Programming
15		Lecturer	M: Asia Pacific University, Malaysia	Software Engineering

No	Name of Lecturer	Academic Position	Formal Education (D: Doctoral, M: Magister, B: Bachelor)	Expertise
	Muhammad Alief Fahdal Imran Oemar., ST., M.Sc		B: Universitas Hasanuddin	
16	Muhammad Niswar., ST., M.IT., Dr.	Associate Professor	D: Nara Institute Technology, Japan M: The University of Newcastle Australia B: Universitas Hasanuddin	Computer Network & Web Programming
17	Mukarramah., B.Sc., M.Sc	Assistant Professor	M: Ochanomizu University B: Ochanomizu University	Informatics
18	Novi Nur Rahmilah Ayu M., ST., MsTM	Assistant Professor	M: HAN University of Applied Science - Belanda B: Universitas Hasanuddin	Information and Communication Technology
19	Rhiza S. Sadjad., Ir., MSEE., Dr	Associate Professor	M: University of Wisconsin, USA M: University of Wisconsin, USA B: Institut Teknologi Bandung	Electrical and Control Engineering
20	Syafaruddin., ST., M. Eng., Dr.. Eng., Prof	Professor	D: Kumamoto University, Japan M: University of Queensland, Brisbane, Australia B: Universitas Hasanuddin	Artificial Intelligence
21	Syafruddin Syarif., Ir., MT., Dr. Prof	Professor	D: Institut Teknologi Bandung M: Universitas Hasanuddin B: Universitas Hasanuddin	Telecommunication
22	Zaenab Muslimin., Ir., MT	Assistant Professor	M: Universitas Hasanuddin	Electrical Engineering

No	Name of Lecturer	Academic Position	Formal Education (D: Doctoral, M: Magister, B: Bachelor)	Expertise
			B: Universitas Hasanuddin	
23	Zahir Zainuddin, Ir. M.Sc., Dr.	Associate Professor	D: Institut Teknologi Bandung	Computer System and Artificial Intelligence
			M: Florida Institute of Technology	
			B: Universitas Hasanuddin	
24	Zulkifli Tahir., ST., M.Sc., Dr. Eng.	Assistant Professor	D: Ehime University	Distributed System and Web Programming
			M: Universiti Teknikal Malaysia Melaka	
			B: Telkom University	

2.6. LABORATORY

Laboratories in ISP-UH are:

- Computer Laboratory
- Artificial Intelligence Laboratory
- Ubiquitous Computing and Networking (UbiCON) Laboratory
- Animation and Multimedia Laboratory
- Cloud Computing and Information System Laboratory
- Parallel Computing and IoT Laboratory

Information about laboratories in the Informatics Study Program can be accessed at https://eng.unhas.ac.id/informatics/id/laboratories. Laboratory atmosphere is shown in the following pictures.

2.7. LIBRARY

At the University level, Lecturers and Students of the ISP-UH can access the UNHAS Central Library link at http://www.unhas.ac.id/ libraries. On this page can be accessed several e-journals and e-books for all disciplines including Bachelor Degree Program in Informatics. In addition there are pages to the RI central library and several other campus libraries.

At the Faculty level, journal access can be accessed through the page http://cot.unhas.ac.id/library. On this page access to engineering journals can be obtained easily. Access International Journal through Elsevier Link on the page provides a journal of Bachelor Degree Program in Informatics around 240,000 titles and there are hundreds of other related disciplinary titles.

3. SUPPORTING OF STUDENT LIFE

3.1. ADMISSION OF NEW STUDENTS

Students can visit the nearest health facility (Clinic or Hospital). Around Hasanuddin University, there are Hasanuddin University Hospital and Wahidin Sudirohusodo Hospital. For the area around the Gowa campus there are Syech Yusuf Hospital and Puskesmas.

For students who need guidance and counseling for academic issues and more personal problems, students can contact the Guidance and Counseling section at UNHAS Hospital. Students who are sick and need guidance and academic leave can contact the academic advisor to be mediated with the Faculty and be given the best solution.

3.2. STUDENT HOUSING

The Faculty is aware that the students of the Faculty of Engineering Universitas Hasanuddin come from various regions and even international students. Students who does not have a family in Makassar, around the campus; there are various types of accommodation that can be chosen, ranging from campus dormitories to boarding rooms / houses scattered in the Unhas Gowa Campus area.

Around Unhas Gowa

1. The Universitas Hasanuddin Student Dormitory is located next to the Universitas Hasanuddin Faculty of Engineering. Consists of 2 main buildings with 5 floors each. This *Rusunawa* can be said to be the most popular residence for students, especially for students who come from abroad. The rental fee per room is quite light, IDR 350,000 / month excluding electricity & water costs. For information and registration, prospective new residents can contact the building manager.
2. Kalla Dormitory Engineering Faculty Student Dormitory. Kalla Group officially handed over 10 blocks of student dormitory units with a capacity of 22 block rooms with a capacity of 810 people which will be used by new students of the Faculty of Engineering is located in front of the Gowa UNHAS campus, Kalla Group provided such assistance as a form

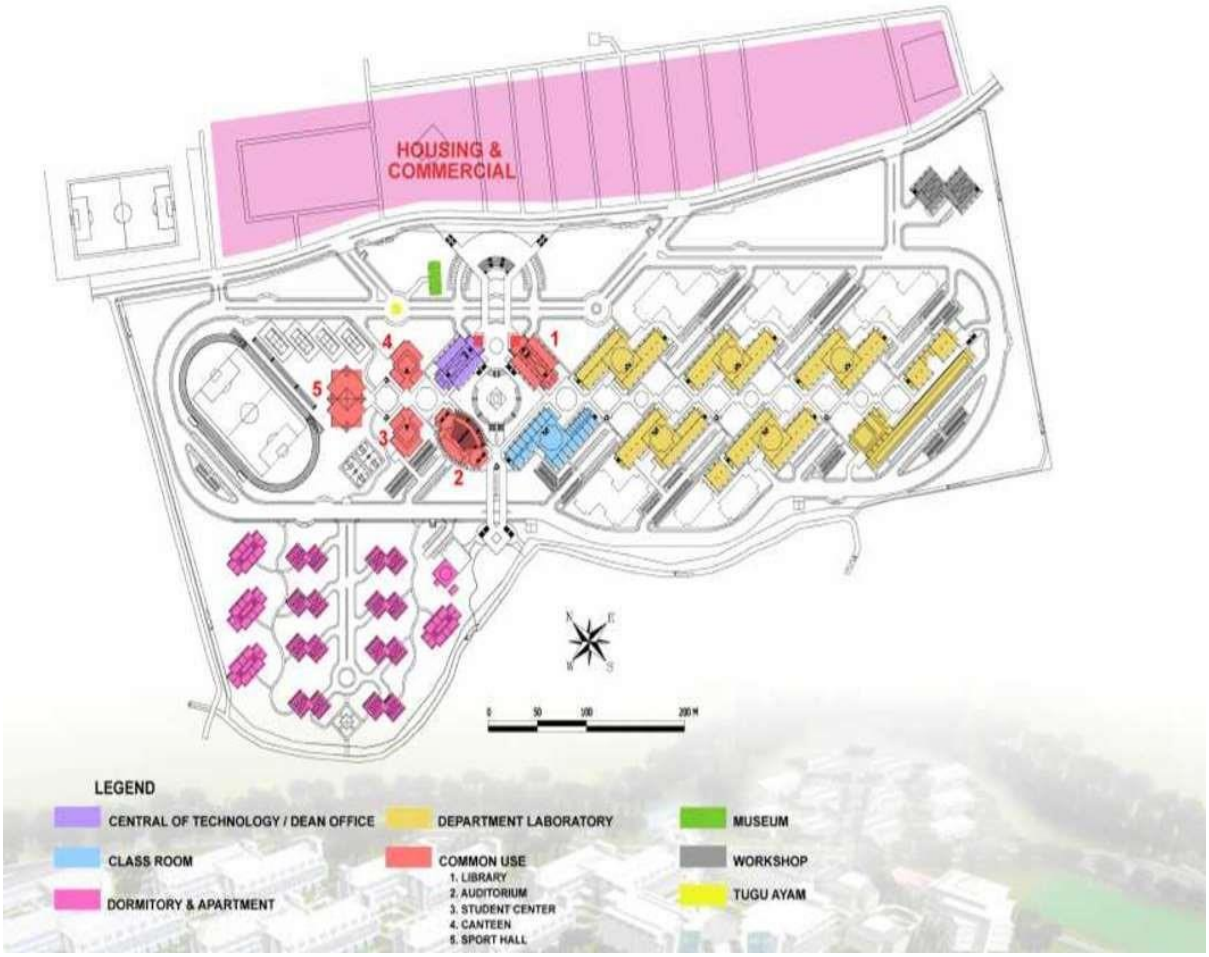
appreciation for the achievements and contributions of Unhas alumni who work smart and proud in the company.

3. Engineering Housing The location of this dwelling is just behind the area of the Hasanuddin University Faculty of Engineering. The cost of renting a house in this area can be very cheap to expensive, less than IDR 4,000,000 per year to IDR 7,000,000. per year.
4. Building of Paper Production Industry (PKG) Complex There are various boarding houses in this complex, which are spread throughout the region. Rental costs also vary from IDR 500,000 to IDR 1,500,000. For transportation in and out of the complex area, it can be by taxi or motorcycle, and on the main residential road sections, there are various food stalls and food stalls.

3.3. TRANSPORTATION

Students who do not have private vehicles, public transportation is the only easiest way to get to campus, hospitals, health centers, immigration offices, shopping centers, city centers, and others. The UNHAS Gowa Engineering Campus is passed by several public transportations which enable students to arrive right in front of the Faculty of Engineering UNHAS. One of the most common is red city transportation, then BRT transportation mode and other online transportation.

3.4. CAMPUS MAP



3.5. BIRD VIEW OF ENGINEERING FACULTY, UNIVERSITAS HASANUDDIN