

**EDUCATION GUIDELINES
FACULTY OF ENGINEERING**



URBAN AND REGIONAL PLANNING

**FACULTY OF ENGINEERING
UNIVERSITAS BRAWIJAYA**

Academic Year 2022-2023

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PREFACE

To achieve the goals of higher education based on the national standards of higher education established by the Ministry of Education, Culture, Research, and Technology within the Faculty of Engineering at Universitas Brawijaya, the Education Guidelines for the academic year 2022-2023 have been issued.

These Education Guidelines serve as a detailed implementation of Law Number 12 of 2012 concerning Higher Education, Minister of Research, Technology and Higher Education Regulation Number 44 of 2015 concerning National Standards for Higher Education, and the Regulation of Minister of Research, Technology and Higher Education Number 50 of 2018 concerning Amendments to the Regulation of Minister of Research, Technology and Higher Education Number 44 of 2015 concerning National Standards for Higher Education, as well as the Regulation of the Ministry of Education and Culture Number 3 of 2020 concerning National Standards for Higher Education.

The Education Guidelines are expected to provide transparent information and guidance to leaders, students, lecturers, and all stakeholders regarding the fundamentals of the teaching and learning process at the Faculty of Engineering, Universitas Brawijaya. Considering the evolving nature of educational issues and government regulations, the education guidelines are enforced per academic year; thus, adjustments and updates to the education guidelines will always be made according to the needs and developments that occur.

Therefore, we hope that these education guidelines can fulfill their function as a reference in the implementation of the teaching and learning process, and are used in accordance with applicable rules and procedures.

Faculty of Engineering, Universitas Brawijaya
Dean,

Sgn.

**Prof. Ir. Hadi Suyono, S.T., MT., Ph.D., IPU., ASEAN Eng
NIP. 19730520 200801 1 013**

**EDUCATION GUIDELINES OF THE FACULTY OF ENGINEERING UNIVERSITAS
BRAWIJAYA
2022 – 2023**



**VISION, MISSION, OBJECTIVES OF THE FACULTY OF ENGINEERING
UNIVERSITAS BRAWIJAYA**

VISION

Serving as an innovative, collaborative, and internationally competitive Faculty of Engineering in implementing the three pillars of higher education for the welfare of society

MISSION

1. Conducting and enhancing the quality of education that is internationally competitive to produce outstanding graduates who demonstrate entrepreneurial quality and noble character.
2. Conducting innovative and collaborative research and community service to support sustainable development for societal welfare.
3. Establishing institutional governance that is independent, fair, transparent, accountable, responsible, and credible.

OBJECTIVES

1. Achieving a quality education process and cultivating graduates in engineering capable of global competition, professionalism, and possessing an entrepreneurial mindset.
2. Fostering collaboration to generate innovative technological endeavors that support sustainable development rooted in local wisdom.
3. Establishing an institutional governance system and resource management characterized by integrity and optimal performance.

**DEAN'S DECREE OF THE FACULTY OF ENGINEERING UNIVERSITAS
BRAWIJAYA
Number: 1219 Year 2022**

Concerning

**Education Guidelines of the Faculty of Engineering Universitas Brawijaya
Academic Year 2022-2023**

Considering :	<ol style="list-style-type: none">1. That the Education Guidelines of the Faculty of Engineering, Universitas Brawijaya for the Academic Year 2021-2022 need to be refined and adjusted to the evolving needs of the community for Bachelor's, Diploma, Master's, Doctoral, and Engineering professionals, as well as with regulations issued by both the Ministry of Education, Culture, Research, and Technology and Universitas Brawijaya and the Faculty of Engineering itself;2. That in order to regulate the implementation of education based on a credit system aligned with the Indonesian National Qualifications Framework (KKNI) and the National Standards of Higher Education, it is deemed necessary to refine the Education Guidelines of the Faculty of Engineering, Universitas Brawijaya, and issue them in the form of the Education Guidelines of the Faculty of Engineering, Universitas Brawijaya for the Academic Year 2022-2023.
Taking into account :	<ol style="list-style-type: none">1. Law Number 20 of 2003 of the Republic of Indonesia concerning National Education System;2. Law Number 12 of 2012 of the Republic of Indonesia concerning Higher Education;3. Government Regulation Number 4 of 2014 of the Republic of Indonesia concerning Establishment of Higher Education and the Management of University;4. Decree of the Minister of National Education of the Republic of Indonesia Number 232/U/2000 concerning the Guidelines of Curriculum Drafting for

	<p>Higher Education and Student Academic Performance Assessment;</p> <ol style="list-style-type: none"> 5. Regulation of the Minister of Research, Technology, and Higher Education of the Republic of Indonesia Number 4 of 2016 concerning Organization and work Scheme of Universitas Brawijaya, as amended to Regulation of the Minister of Research, Technology, and Higher Education of the Republic of Indonesia Number 34 of 2016 concerning Amendment to Regulation of the Minister of Research, Technology, and Higher Education of the Republic of Indonesia Number 4 of 2016 concerning Organization and Work Scheme of Universitas Brawijaya; 6. Regulation of the Minister of Research, Technology, and Higher Education of the Republic of Indonesia Number 58 of 2018 concerning the Statute of Universitas Brawijaya; 7. Regulation of Minister of Education and Culture of the Republic of Indonesia Number 3 of 2020 concerning the National Standards of Higher Education; 8. Decree of the Minister of Education and Culture of the Republic of Indonesia Number 74/P/2021 concerning Credit Adjustment; 9. Regulation of Universitas Brawijaya Number 1 of 2017 concerning Quality Standards; 10. Rector's Regulation of Universitas Brawijaya Number 52 of 2018 concerning Scientific Publication as Academic Final Project in Master's and Doctoral Program; 11. Rector's Regulation of Universitas Brawijaya Number 25 of 2020 concerning Organizational Structure and Work Scheme; 12. Rector's Regulation of Universitas Brawijaya Number 34 of 2020 concerning Curriculum of the Study Program of <i>Merdeka Belajar-Kampus Merdeka</i>; 13. Rector's Regulation of Universitas Brawijaya Number 64 of 2022 concerning
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	Establishment of Education at Universitas Brawijaya of Academic Year 2022-2023;
In View of :	<ol style="list-style-type: none"> 1. Meeting Outcomes involving the team of Education Guidelines of the Faculty of Engineering Universitas Brawijaya of Academic Year 2022 – 2023 within the period of July – August 2022; 2. The notion contributed by the Director of the Faculty of Engineering in the meeting within the period of January – August 2022; 3. Education Guidelines of Universitas Brawijaya of Academic Year 2022-2023;
HAS DECIDED:	
To enact :	<ol style="list-style-type: none"> 1. Education Guidelines of the Faculty of Engineering Universitas Brwaijaya of Academic Year 2022-2023, as attached, serves as the primary reference for all units responsible for performing academic agenda at the Faculty of Engineering Universitas Brawijaya. 2. The Education Guidelines of the Faculty of Engineering, Universitas Brawijaya for the Academic Year 2022-2023 are intended for students starting from the Odd Semester of the Academic Year 2022-2023. Regarding the determination of credit acquisition for students from previous cohorts, a transition will be made according to the Transitional Regulations in each Department/Study Program. 3. This decision shall take effect as of the date of its enactment and shall be subject to necessary amendments in case of any errors in its determination

Stipulated in Malang
1 September 2022
Dean,

Sgn

Prof. Ir. Hadi Suyono, ST., MT., Ph.D., IPU., ASEANEng.
NIP. 19730520 200801 1 013

**EDUCATION GUIDELINES FACULTY OF ENGINEERING
UNIVERSITAS BRAWIJAYA OF ACADEMIC YEAR 2022-2023**

CHAPTER I GENERAL PROVISIONS

Article 1

In these guidelines, the following terms are defined:

1. Semester Credit System (SKS) represents a measure of student workload, workload of a Study Program, and teaching workload of lecturers.
2. Credit is a unit or measure that quantitatively represents the content of a course.
3. Credit value represents the effort required to complete tasks expressed in course activities, practical work, fieldwork, or other assignments.
4. Semester system is an educational program management system that uses the smallest unit of time to indicate the duration of an educational activity in a specific level/program of education.
5. One regular semester is equivalent to 16 working weeks, including effective teaching weeks, final exams, or up to 19 working weeks including re-evaluation period and silent weeks.
6. One interim semester is equivalent to 16 effective teaching sessions, including final exams.
7. Education in one semester consists of teaching activities, seminars, practical work, fieldwork, in face-to-face format, as well as structured and independent academic activities, or independent learning activities.
8. Indonesian National Qualifications Framework (KKNI) serves as a reference for grading competency qualifications that compare, equate, and integrate between vocational training fields and work experiences to recognize work competence according to the job structure in various sectors.
9. Curriculum is a set of plans and arrangements regarding objectives, content, and teaching materials, as well as methods used as guidelines for conducting learning activities to achieve Higher Education goals.
10. Outcome Based Education (OBE) is an education process that focuses on specific achievement outcomes oriented towards knowledge, skills, and behaviors. The OBE process includes curriculum structure, assessment, and reporting in the educational process to reflect lifelong learning abilities.
11. *Merdeka Belajar Kampus Merdeka* (MBKM) is a policy of the minister of Education and Culture through the Regulation of the Ministry of Education and Culture No. 3 of 2020 concerning National Standards for Higher Education, which grants students the right to study for 3 semesters outside their Study Program.
12. Competence is a set of intelligent, responsible actions possessed by an individual as a requirement to be considered capable by society in performing tasks in a specific job field.
13. Graduate competency standards are the qualifications of graduates that encompass attitudes, knowledge, and skills.

14. Lecture is a learning activity conducted between lecturers and students according to a schedule in class or at a designated location.
15. Structured assignment is a learning activity involving the deepening of materials for students, designed by lecturers to achieve competencies, with assignment completion time determined by lecturers.
16. Independent assignment (unstructured) is a learning activity involving the deepening of material for students, designed by lecturers to achieve competencies. The assignment completion time is determined by students.
17. Seminar is a scholarly meeting related to a course organized by students under the guidance of lecturers.
18. Laboratory/studio activities are structured academic activities conducted in laboratories/studios or at designated locations.
19. Community Service (PKM) is a student activity under the guidance of a lecturer aimed at utilizing science and technology to advance community welfare and enhance national development.
20. *Merdeka Belajar* (Independent Learning) is a policy that grants undergraduate students the right of study for 3 semesters outside their Study Program.
21. Field Work Practice (PKL) is a structured academic activity carried out in companies, projects, and/or institutions approved by the Head of Department/Study Program.
22. Mid-Semester examination is an evaluation activity conducted during the middle of the semester.
23. End-Semester examination is an evaluation activity conducted at the end of the semester.
24. Grade Point Average (GPA) is a number indicating a student's performance in the courses taken in one semester, calculated by the sum of credits for each course multiplied by the grade weight obtained, divided by the total credits taken.
25. Grade Point Average (GPA) is a number indicating a student's performance in all courses taken, calculated by the sum of credits for each course multiplied by the grade weight obtained, divided by the total credit taken.
26. Undergraduate Final Examination is the Final Project/Thesis Examination.
27. Master's Final Examination is the Thesis Defense.
28. Doctoral Final Examination consists of a Closed Examination and an Open Examination.
29. Study Plan Card (KRS) is a record of a student's academic program plan for a semester.
30. Transcript of Academic Records (KHS) is a record of a student's academic achievements issued at the end of each semester.
31. Matriculation is a learning activity conducted before entering the learning program according to the needs of the Master's or Doctoral Program in terms of Students' competencies and readiness.
32. University refers to Universitas Brawijaya.
33. Rector refers to the Rector of Universitas Brawijaya.
34. Faculty refers to the Faculty of Engineering at Universitas Brawijaya.
35. Department refers to the Departments within the Faculty of Engineering at Universitas Brawijaya.
36. Study Program refers to the Programs of Study within the Faculty of Engineering at Universitas Brawijaya.

37. Dean refers to the Dean of the Faculty of Engineering at Universitas Brawijaya.
38. The Head of Department/Study Program Chair refers to the Chair of the Departments/Programs of Study within the Faculty of Engineering at Universitas Brawijaya.
39. Lecturers refers to lecturers at the faculty of Engineering at Universitas Brawijaya. Lecturers are professional educators and researchers with the main task of transforming, developing, and disseminating knowledge and technology through education, research, and community service.
40. Academic staff refers to the staff of the Faculty of Engineering at Universitas Brawijaya. Academic staff are members of the community who dedicate themselves and are appointed to assist in higher education.
41. Student refers to students at the Faculty of Engineering at Universitas Brawijaya.

CHAPTER II

OBJECTIVES OF ENGINEERING EDUCATION

Article 2

1. The educational objectives of the Faculty of Engineering are to
 - a. Develop students' potential to become individuals who are faithful and devoted to the Almighty God, morally upright, healthy, knowledgeable, skilled, creative, independent, competent, and cultured for the benefit of the nation;
 - b. Produce graduates who master branches of Science and/or Technology to meet national needs and enhance the nation's competitiveness;
 - c. Generate science and technology through research that considers and applies humanistic values for the benefit of national progress, as well as the advancement of civilization and the welfare of humanity; and
 - d. Realize community service based on reasoning and beneficial research work to advance public welfare and develop the nation's intellectual life.
2. The specific objectives of undergraduate education comprise the following criteria:
 - 2.1 Attitude
 - a. Devotion to the Almighty God and the ability to demonstrate religious attitudes.
 - b. Upholding the value of humanity in carrying out duties based on religion, morality, and ethics.
 - c. Contributing to the improvement of community life, nation, state, and civilization based on Pancasila.
 - d. Acting as proud citizens with love for the homeland, possessing nationalism, and a sense of responsibility towards the state and nation.
 - e. Respecting cultural diversity, views, religions, beliefs, as well as the opinions or novel discoveries of others.
 - f. Collaborating and possessing social sensitivity and concern for society and the environment.
 - g. Observing the law and discipline in social and national life.
 - h. Internalizing academic values, norms, and ethics.

- i. Demonstrating responsibility for work in their field of expertise independently.
- j. Internalizing the spirit of independence, struggle, and entrepreneurship

2.2 General Skills

- a. Capability to apply logical, critical, systematic, and innovative thinking in the context of developing or implementing science and technology while considering and applying humanitarian values relevant to their field of expertise.
- b. Capability to demonstrate independent, high-quality, and measurable performance.
- c. Capability to examine the implications of the development or implementation of science and technology while considering and applying humanitarian values according to their expertise, based on scientific principles, procedures, and ethics in order to generate solutions, ideas, designs, or art critiques, and compose a scientific description of their study results in the form of a thesis or final project report, and uploading it to the university's website.
- d. Capability to compile a scientific description of the above study results in the form of a thesis or final project report and upload it to the university's website.
- e. Capability to make accurate decisions in the context of problem-solving in their field of expertise based on the analysis of information and data.
- f. Capability to maintain and develop a network of work relationships with mentors, colleagues, peers both within and outside their institution.
- g. Capability to take responsibility for achieving the group's work results and to supervise and evaluate the completion of tasks assigned to subordinates.
- h. Capability to conduct self-evaluation processes for workgroups under their responsibility, and manage learning independently.
- i. Capability to document, store, secure, and retrieve data to ensure validity and prevent plagiarism.

3. Specific Objectives of Engineer Professional Education (levels 7 and 8 of KKNI) cover the following criteria:

- a. Capable to work in the core area of expertise for specific job types and possess work competencies equivalent to the standards of their profession's work competence.
- b. Capability to make independent decisions in carrying out their professional work based on logical, critical, systematic, and creative thinking.
- c. Capability to communicate thoughts/arguments or innovative work beneficial for the development of the profession and entrepreneurship, which can be scientifically and ethically accounted for, to the community, especially their professional community.
- d. Capability to critically evaluate the work results and decisions made in performing their duties by themselves and by their peers.
- e. Capability to enhance their professional skills in specialized fields through training and work experience.
- f. Capability to enhance the quality of resources for the development of strategic organizational programs.
- g. Capability to lead a team to solve problems in their professional field.
- h. Capability to collaborate with other professions in solving job-related problems in their professional field.

- i. Capability to develop and maintain work networks with professional communities and clients.
 - j. Capability to take responsibility for work in their professional field in accordance with their professional code of ethics.
 - k. Capability to enhance self-learning capacity.
 - l. Capability to contribute to the evaluation or development of national policies aimed at improving the quality of professional education or developing national policies in their professional field.
 - m. Capability to document, store, audit, secure, and retrieve data and information for the purpose of developing their professional work results.
4. Specific Objectives of Master's Education comprise the following criteria:
- a. Capability to develop logical, critical, systematic, and creative thinking through scientific research, creation of designs or works of art in the field of science and technology that consider and apply humanistic values according to their field of expertise, formulate scientific concepts and study results based on scientific principles, procedures, and ethics in the form of a thesis or equivalent form, and upload them to the university's website, as well as papers published in accredited scientific journals or accepted in international journals.
 - b. Capability to conduct academic validation or studies relevant to their field of expertise in addressing problems in society or relevant industries through the development of knowledge and expertise.
 - c. Capability to formulate ideas, thoughts, and scientific arguments responsibly and based on academic ethics, and communicating them through media to the academic community and the general public.
 - d. Capability to identify the scientific fields as the object of their research and position them on a research map developed through interdisciplinary or multidisciplinary approaches.
 - e. Capability to make decisions in the context of solving problems in the development of science and technology that consider and apply humanistic values based on analytical or experimental studies of information and data.
 - f. Capability to manage, develop, and maintain a network of colleagues, peers within the institution, and the broader research community.
 - g. Capability to enhance self-learning capacity.
 - h. Capability to document, store, secure, and retrieve research data to ensure authenticity and prevent plagiarism.
5. The Specific Objectives of Doctoral Education comprise the following criteria:
- a. Capability to discover or develop new scientific theories/concepts/ideas, contribute to the development and application of science and/or technology that considers and applies humanistic values in their field of expertise by producing scientific research based on scientific methodology, logical, critical, systematic, and creative thinking.
 - b. Capability to develop interdisciplinary, multidisciplinary, or transdisciplinary research, including theoretical and/or experimental studies in scientific, technological,

- artistic, and innovative fields embodied in the form of a dissertation, and papers published in reputable international journals.
- c. Capability to select appropriate, current, advanced research, and provide benefits to humanity through interdisciplinary, multidisciplinary, or transdisciplinary approaches in order to develop and/or produce solutions to problems in scientific, technological, artistic, or societal fields, based on studies of the availability of internal and external resources.
 - d. Capability to develop a research roadmap with an interdisciplinary, multidisciplinary, or transdisciplinary approach based on studies of the main research targets and their constellations in broader targets.
 - e. Capability to formulate arguments and solutions in science, technology, or art based on critical views of facts, concepts, principles, or theories that can be scientifically and academically justified, and communicate them through mass media or directly to the public.
 - f. Capability to demonstrate academic leadership in the management, development, and nurturing of resources and organizations under their responsibility.
 - g. Capability to manage, store, audit, secure, and retrieve data and information from research under their responsibility.
 - h. Capability to develop and maintain collegial and peer relationships within their own environment or through collaboration networks with research communities outside the institution.
6. The Objectives of Specific Education for each Department/Study Program are regulated under Department curriculum in this Education Guidelines.

CHAPTER III EDUCATION SYSTEM

Article 3

The Objectives and Document of Curriculum

1. The faculty implements the Outcome-Based Education (OBE) curriculum with a Semester Credit System that produces learning outcomes in accordance with the qualifications specified in the KKNi and SNPT.
2. The objectives of implementing the OBE curriculum with the Semester Credit System are as follows:
 - a. Providing opportunities for capable and diligent students to complete their studies in the shortest possible time.
 - b. Allowing students to take courses that match their interests, talents, and abilities.
 - c. Allowing for the implementation of an educational system with diverse inputs and outputs.
 - d. Facilitating curriculum adjustments over time to keep up with the rapidly evolving fields of science and technology.
 - e. Ensuring that the system for evaluating students' learning progress can be conducted optimally.

- f. Allowing for the transfer of credits between study programs or faculties within the university or between universities.
 - g. Enabling student transfers from one university to another or from one study program to another within a specific university.
 - h. The Semester Credit Unit (SKS) is the measure of the time allocated to student learning activities per week per semester in the learning process through various forms of learning or the recognition of student efforts in participating in curricular activities in a study program.
 - i. Each course or other academic activity offered in each semester has a Semester Credit Unit (SKS) indicating the weight or workload of the activities in that course.
3. The objectives of implementing the KKNi are to align the abilities of graduates with those of other countries in various professional sectors and fields of expertise with minimum standard learning outcomes.
 4. The process of curriculum development for study programs, especially Bachelor and Applied Bachelor programs, refers to the Regulations of the Rector of Universitas Brawijaya Number 34 of 2020 concerning the Curriculum of *Merdeka Belajar – Kampus Merdeka*.

Semester Credit Unit

1. The student workload, lecturer workload, and the organization of Departments/Study Programs are expressed in Semester Credit Units (sks).
2. One (1) credit in learning encompasses three forms of activities as follows:
 - a. Learning processes such as lectures, review sessions, or tutorials consist of:
 - Face-to-face learning activities 50 (fifty) minutes per week per semester;
 - Structured assignment activities 60 (sixty) minutes per week per semester; and
 - Independent activities 60 (sixty) minutes per week per semester.
 - b. Learning processes such as seminars or similar forms consist of:
 - Learning process activities 100 (one hundred) minutes per week per semester; and
 - Independent activities 70 (seventy) minutes per week per semester.
 - c. Learning processes such as laboratory work, field studies, internships, research, and similar activities include:
 - Value of 1 (one) credit for laboratory workshops/studios within the campus equivalent to 170 minutes per week for one semester.
 - Value of 1 (one) credit for field trips equivalent to 170 minutes per week for one semester.
 - Value of 1 (one) credit for internships/entrepreneurship/independent research/teaching assistance/independent projects/community service/humanitarian projects equivalent to 170 minutes per week for one semester.
 - Thesis as a research activity in the Master's program equivalent to a minimum of 9 credits (9 x 170 minutes) per week, per semester.

- Dissertation as a research activity in the Doctoral program equivalent to a minimum of 28 credits (28 x 170 minutes) per week, per semester.

Article 5

Study Load and Study Duration

1. The student workload for the Bachelor's education program as a prerequisite for completing their studies at the Faculty comprises a minimum of 144 credits and a maximum of 160 credits, with the following composition of courses:
 - a. General Compulsory Courses: 8 credits, consisting of:
 - i. Religion: 2 credits
 - Islam (MPK60001)
 - Catholicism (MPK60002)
 - Protestantism (MPK60003)
 - Hinduism (MPK60004)
 - Buddhism (MPK60005)
 - ii. Civics: 2 credits (MPK60006)
 - iii. Bahasa Indonesia: 2 credits (MPK60007)
 - iv. Pancasila: 2 credits (MPK60008)
 - b. University Compulsory Courses: 14 credits, consisting of:
 - i. Final Project/Thesis: 6 credits (UBU60001)
 - ii. Community Service: 4 credits (UBU60005)
 - iii. Entrepreneurship: 2 credits (UBU60003)
 - iv. English: 2 credits (UBU60004)
 - c. Professional Courses: minimum of 122 credits - 138 credits, consisting of compulsory and elective courses from the Study Program.
 - d. Faculty Compulsory Courses: 6 credits, consisting of:
 - i. Professional Ethics: 2 credits (FTA60001)
 - ii. Fieldwork Practice: 4 credits (FTA60002)
 - e. Cross-Faculty Courses can be taken up to a maximum of 20 credits per student.
 - f. Curriculum actualization is conducted considering the needs of the Study Program while adhering to the rule of a total of 144-160 credits.
2. The duration of study for students of undergraduate education program can be completed in less than 4 years (8 semesters), and a maximum of 7 years (14 semesters), which is aligned with UB's internal quality assurance system. There is no extension of study duration for the students of undergraduate education program.
3. The student workload for the Master's education program as a prerequisite for completing their studies at the Faculty comprises a minimum of 36 credits, with the following course composition:
 - a. University Compulsory Courses: 12 - 18 credits, consisting of:

- i. Research Methods and Scientific Writing (3 credits).
 - ii. Thesis (9 - 15 credits)
- b. Study Program Compulsory Courses, according to each Study Program, requires 9 -12 credits.
- c. Elective Courses: 9 - 15 credits.
- d. Total workload for coursework: 24 - 40 credits.
- e. Maximum workload per semester: 18 credits.
- f. Producing published scientific publications (according to Rector's Regulation Number 52 of 2018) minimum:
 - i. 1 (one) scientific article in international journals indexed by Scopus or Web of Science Core Collection (Thomson Reuters); or
 - ii. 1 (one) scientific article in national journals accredited at least Sinta 2; or
 - iii. 1 (one) scientific article in UB journals designated by the Rector; or
 - iv. 1 (one) scientific article in Scopus-indexed proceedings. Before graduation, the publication status must be "published." Scientific article publications are subject to approval from the supervisor and must use Universitas Brawijaya affiliation. Further regulations regarding scientific publications are determined by each Study Program.
- 4. Matriculation can be done before entering formal learning programs according to the needs of the Study Program for student competencies and readiness. The maximum credit load for matriculation is 12 credits, in addition to the 36 credits for the Master's program.
- 5. The duration of study for Master's education program students can be completed in less than 2 years (4 semesters), and a maximum of 4 years (8 semesters), aligned with UB's internal quality assurance system. There is no extension of study duration for the students of Master's education program.
- 6. The student workload for the Doctoral education program as a prerequisite for completing their studies at the Faculty comprises a minimum of 42 credits for students with a related Master's degree, or a maximum of 52 credits for students with a non-related Master's degree, with the following course composition:
 - a. University Compulsory Courses include:
 - i. Research Methods and Scientific Writing (3 - 4 credits)
 - ii. Dissertation (28 - 32 credits)
 - b. Study Program Compulsory Courses (according to each Study Program) 9 - 12 credits.
 - c. Supporting Dissertation Elective Courses: 0 - 12 credits
 - d. Total workload for coursework: 16 - 28 credits
 - e. Maximum workload per semester: 18 credits.
 - f. Producing published scientific publications (according to Rector's Regulation Number 52 of 2018) minimum:
 - i. 2 (two) scientific articles in international journals indexed by Scopus or Web of Science Core Collection (Thomson Reuters) with a minimum Impact Factor of 0.1 or indexed by Microsoft Academic Research; or
 - ii. 1 (one) scientific article in journals as referred to in point (i) and 1 (one) article in proceedings according to Rector's Regulation No. 52 of 2018. In the 2 published scientific articles, the student must be the first author at least once and the corresponding author

once, subject to approval from the supervisor. Scientific article publications must use Universitas Brawijaya affiliation. Further regulations regarding scientific publications are determined by each Study Program.

7. Matriculation can be carried out before entering the formal learning program according to the Study Program's needs for student competencies and readiness.
8. The student workload for the Engineer Professional Program (PPI) as a prerequisite for completing their studies at the Faculty takes a minimum of 24 credits, with the course composition regulated by the PPI Study Program. The maximum duration of study for the students attending PPI Study Program takes 1 semester for the Recognition of Prior Learning (RPL) system or 2 semesters for the regular program.
9. The workload for the first year of new undergraduate students in the education program is determined by each Department/Study Program, ranging from 12 - 24 credits per semester based on course packages. The workload for the first semester of new Master's and doctoral education program students is determined by each Study Program, ranging from 12 - 18 credits per semester based on course packages.
10. The workload for the first and second semesters is determined equally for each student, then the workload for subsequent semesters is determined based on the GPA achieved in the previous semester. The workload that a student can take starting from the third semester is determined based on the Semester Grade Point Average (GPA) from one semester prior, with the following provisions:

Grade of Previous Semester	Maximum Study Load in the Following Semester	
	Bachelor's Program (Sarjana)	Master's Program (Magister)/Doctoral Program
$IP \geq 3.50$	24 credits	24 credits
$3.00 \leq IP < 3.50$	24 credits	18 credits
$2.50 \leq IP < 3.00$	21 credits	15 credits
$2.00 \leq IP < 2.50$	18 credits	12 credits
$1.50 \leq IP < 2.00$	15 credits	-
$IP < 1.50$	≤ 12 credits	-

Article 6

Learning Implementation

1. Learning implementation refers to the Semester Learning Plan (RPS) prepared by lecturers in a team, approved by the Department/Study Program, and communicated openly to students at the beginning of the course.

2. The RPS must include at least: (a) the name of the Study Program, name and code of the course, semester, credit units, and the name of the lecturer; (b) the learning outcomes assigned to the course; (c) the final skills planned at each learning stage to meet the learning outcomes; (d) related study materials associated with the skills to be achieved; (e) forms and methods of learning; (f) time allocated to achieve skills at each learning stage; (g) student learning experiences manifested in task descriptions to be completed by students during one semester; (h) assessment criteria, indicators, and weights; and (i) a list of references used.
3. Learning implementation focuses on efforts to enhance students' willingness and ability to seek, acquire, and process knowledge and technology.
4. Learning implementation can take various forms such as lectures, quizzes and tutorials, seminars, laboratory/studio/workshop/field practices, internships, research/design/development, military training, student exchanges, internships, entrepreneurship, and/or other forms of community service.
5. Learning can be conducted within and outside the Study Program, including:
 - a. Learning in other Study Programs at the same university;
 - b. Learning in the same Study Program at different universities;
 - c. Learning in other Study Programs at different universities; and
 - d. Learning in non-university institutions. Learning processes outside the Study Program are only implemented for Bachelor's and Applied Bachelor's education programs, following the program of *Merdeka Belajar-Kampus Merdeka* (MBKM) policy at the Ministry of Education, Culture, Research, and Technology.
6. Learning can be conducted through a combination of synchronous, asynchronous, online, and offline methods in accordance with university and faculty regulations.
7. To improve the quality of learning implementation, at the Faculty level, it is assisted by the Quality Assurance Cluster (GJM), and at the Department/Program Study level, it is assisted by the Quality Assurance Unit (UJM).

Article 7

Student Academic Performance Assessment

1. The assessment of student academic success aims to evaluate their attitudes, understanding, and mastery of the material presented in a course.
2. The assessment of student academic success is conducted by obtaining information about the extent to which students have achieved the objectives formulated in the curriculum through structured assignments, quizzes, mid-semester examinations, end-semester examinations, laboratory work assessments, and others. In certain courses, assessment may be supplemented by practical activities.
3. Mid-semester and end-semester exams are conducted according to the schedule specified in the academic calendar.
4. Assessment through structured assignments, quizzes, mid-semester examinations, end-semester examinations, laboratory work exams, and others is intended to determine the Final

- Grade (NA) with specific weighting. NA is determined with a minimum of 3 assessment components, one of which is the mid-semester examinations and end-semester examinations.
- Lecturers are required to transparently communicate evaluation details to students.
 - Assessment in the implementation of Merdeka *Belajar-Kampus Merdeka* (MBKM) is separately regulated in the Guidelines for the Implementation of MBKM at Universitas Brawijaya.

Article 8

Assessment Guidelines

- The assessment of student academic success for each course is based on Reference Benchmark Assessment (PAP), which involves determining the passing threshold.
- The calculation of the Final Grade (NA) is performed by assigning weights to each academic activity in that semester using the following formula:

$$NA = \frac{\sum_{i=1}^n Bt_i \cdot Nt_i + Bq_i \cdot Nq_i + Bm \cdot Nm + Ba \cdot Na + Bp \cdot Np}{\sum_{i=1}^n Bt_i + bq_i + Bm + Ba + Bp}$$

Where,

Bt_i : mark obtained from structured assignment of i

Bq_i : mark obtained from a quiz of i

Bm : mark obtained from mid-semester exam

Ba : mark obtained from end-semester exam

Bp : mark obtained from laboratory work/practical work

Nt_i, Nq_i, Nm, Na, Np : mark of each academic activity

- The weight of an assessment activity for a course is determined by balancing the content of the activity with the overall course content for one semester.
- The NA in point 2, which is in numerical value, is then converted into a Letter representing a grade (HM) and a number representing Quality Points (AM) according to the following equivalence:

Grade	Symbol	Category	
		Bachelor's Program (<i>Sarjana</i>)	Master's (<i>Magister</i>)/Doctoral Program
$80 < NA \leq 100$	A	Very Good	Very Good
$75 < NA \leq 80$	B+	Very Good - Good	Very Good - Good

$69 < NA \leq 75$	B	Good	Good
$60 < NA \leq 69$	C+	Good – Pass	Fail
$55 < NA \leq 60$	C	Pass	Fail
$50 < NA \leq 55$	D+	Pass – Fail	Fail
$44 < NA \leq 50$	D	Fail	Fail
$0 < NA \leq 44$	E	Fail	Fail

5. The Final Grade of the Course is considered valid if the student:
- Is officially registered as a student for the current semester.
 - Has fulfilled the specified academic administrative requirements.
 - Has attended a minimum of 80% of the scheduled meetings.
 - Has the internship permission recognized as a course with a duration corresponding to the Internship permission and participates in activities for which there is a permission letter issued by at least the Head of the Department/Study Program (particularly for the students of the Bachelor's program attending internships).

Article 9

Grading

- Students' academic success is represented by grades. Grading criteria entail semester grade and Grade Point Average.
- In grading, both symbols and numeric values represent students' marks.

Symbol	Grade
A	4
B+	3.5
B	3
C+	2.5
C	2
D+	1.5
D	1
E	0

Grading refers to the following formula:

$$IP = \frac{\sum_{i=1}^n K_i \times AM_i}{\sum_{i=1}^n K_i}$$

Where,

IP : grade (semester grade or GPA)

K : total credits of each course

AM : grade of each course

n : the total courses taken

3. If a student has dropped a course, then that course will not be considered in calculating the Grade Point Average.
4. In calculating the Grade Point Average (GPA), each course from all semesters ever taken by the student is counted only once, and the best grade obtained in that course is taken into account, including the grades earned in the Interim Semester for undergraduate students.

Article 10

Evaluation of Academic Performance and Judicium in Bachelor's Education Program

1. Evaluation of academic performance for undergraduate students is conducted:
 - a. At the end of the first year (two semesters)
 - b. At the end of the second year (four semesters)
 - c. At the end of the third year (six semesters)
 - d. At the end of the fourth year (eight semesters)
 - e. At the end of the Bachelor's Program (after accomplishing 144 credits)
 - f. At the end of the study time limit (fourteen semesters).
2. Evaluation of academic success for undergraduate students at the end of the first year is an evaluation conducted after the student has completed two cumulative semesters (excluding academic leave). Students are allowed to continue their studies if they:
 - a. Have accumulated at least 20 credits.
 - b. Have achieved a grade point average (GPA) of at least 2.00 calculated from the best 20 credits of courses.
3. Evaluation of academic performance for undergraduate students at the end of the second year is conducted after the student has completed four cumulative semesters (excluding academic leave). Students are still allowed to continue their studies after the second year if they:
 - a. Have accumulated at least 48 credits.
 - b. Have achieved a GPA of at least 2.00 calculated from the best 48 credits of courses.
4. Evaluation of academic success for undergraduate students at the end of the third year is an evaluation conducted after the student has completed six cumulative semesters (excluding academic leave). Students are still allowed to continue their studies after the third year if they:

- a. Have completed at least 72 credits.
- b. Have achieved a GPA of at least 2.00 calculated from the best 72 credits of courses.
5. Evaluation of academic performance for undergraduate students at the end of the fourth year is conducted after the student has completed eight cumulative semesters (excluding academic leave). Students are still allowed to continue their studies after the fourth year if they:
 - a. Have accumulated at least 96 credits.
 - b. Have achieved a GPA of at least 2.00 calculated from the best 96 credits of courses.
 - c. For the final project/thesis, evaluation will be conducted every semester through mechanisms set by each Study Program.
6. Students of bachelor's education program is considered to have completed the coursework in a Department/Study Program if they have accumulated a total credit value of 144-160 credits, subject to the following conditions:
 - a. Grade Point Average (GPA) of at least 2.00.
 - b. Grades of D/D+ do not exceed 10% of the total credit load, except for certain courses that are not allowed to receive D/D+ grades as stipulated in the Faculty/Study Program Education Guidelines.
 - c. No grade of E.
 - d. Passing the final project/thesis and upload the final project/thesis to the university repository integrated into the student final project/thesis repository portal (rama.kemdikbud.go.id), unless published in a journal.
 - e. Fulfilling other requirements determined by the Faculty.
 - f. If the GPA achieved is less than 2.00, the student must improve the course grades as long as the study period limit has not been exceeded. Improvements must be made in the next semester when the courses to be improved are offered. The highest grade achieved will be used for evaluation for each course improved.
7. Students are allowed to participate in the graduation examination (*judicium*) if they are free from obligations (financial, academic, library, etc.), have a certificate of completion of the *PK2 Maba* (freshman orientation) program, have a certificate of English proficiency test from an institution recognized by the Faculty, and other documents according to the graduation examination procedure determined by the Faculty. Detailed graduation examination procedures can be accessed on the Faculty's website.
8. Graduation honors are awarded based on Grade Point Average (GPA). The determination of honors also considers a maximum study period of 4 years, never being subjected to disciplinary or academic sanctions, and no grade of C+ (minimum B). The graduation honors are specified as follows:
 - GPA > 3.50 = High Distinction
 - GPA 3.01 – 3.50 = Distinction
 - GPA 2.76 – 3.00 = Merit
 - GPA 2.00 – 2.75 = -
9. The Department or Program Study periodically evaluates the academic status of students in accordance with the provisions of this Article. For students who are at the drop-out limit and/or the end of the study period, a warning letter will be issued by the relevant Department Head.

Article 11

Evaluation of Academic Performance and Judicium for Master's Education program

1. Evaluation of academic performance for graduate students in the education program is conducted:
 - a. At the end of the first semester
 - b. At the end of the third semester
 - c. At the end of the study period (eight semesters).
2. Students who, at the end of the first semester, fail to achieve a GPA of 3.0 for the best eight credits will receive a warning from the Department/Study Program.
3. Students who, at the end of the third semester, have not achieved a GPA of 3.0 for the best 16 credits, will be deemed to have failed and will not be allowed to continue their studies.
4. Repeating a course is only allowed once.
5. For students who have completed a minimum of 14 credits with a minimum GPA of 3.0 and have passed the Research Methodology course, they may formally propose thesis research.
6. Thesis research proposals must be approved by supervisors and defended and passed in front of the Research Proposal Evaluation Team (comprising the supervisory committee plus two examiners appointed by the Head of Department based on the proposal of the Study Program Chair).
7. The graduation examination (*judicium*) is conducted after the student has completed all academic and administrative requirements:
 - a. Completing coursework, thesis, and other academic tasks with a GPA > 3.0 during the study period.
 - b. Achieving at least B as the minimum grade for all courses.
 - c. Fulfilling other requirements determined by the Program Study.
8. Students who pass will be declared graduating with the following criteria:
 - a. Graduating with High Distinction (Cumlaude), with the following requirements:
 - i. GPA > 3.75;
 - ii. Publishing the thesis research results > 1 article in scientific publications in the form of proceedings indexed in Scopus and/or international scientific journals indexed in Scopus or Web of Science Core Collection (Thomson Reuter), the lowest accredited national journal Sinta 2, or UB journals designated by the Rector in accordance with the Rector's Circular Letter No. 1131/UN10/AK/2017;
 - iii. Maximum study period of five semesters.
 - b. Graduating with Distinction, with the following requirements:
 - i. failing to meet other requirements in item (a);
 - ii. GPA > 3.5.
 - c. Graduating with Merit, with the following requirements:
 - i. $3.0 < \text{GPA} < 3.5$;
9. Graduation honors are determined by the Examination Team and validated by the Dean, and announced at the time of *Judicium*.
10. Students are considered to have failed if at least one of the following occurs:
 - a. GPA < 3.0 for the best 16 credits as stipulated in the evaluation of academic success; or

- b. Failure to pass the thesis proposal examination on the second attempt; or
 - c. Failure to pass the thesis examination on the second attempt; or
 - d. Exceeding the study period without completing the required coursework.
11. The Department or Study Program periodically evaluates the academic status of students in accordance with the provisions of this Article. For students who are at the drop-out limit and/or the end of the study period, a warning letter will be issued by the relevant Department Head.

Article 12

Evaluation of Academic Performance and *Judicium* for Doctoral Education Program

1. Evaluation of academic success for doctoral students in the education program is conducted:
 - a. At the end of the first semester
 - b. With Qualifying Examination
 - c. At the end of the study period (14 semesters).
2. Students who, at the end of the first semester, fail to achieve a minimum GPA of 3.0 for the best 12 credits will be warned by the Department/Program Study.
3. Students who, at the end of the first semester, achieve a GPA of 3.00 for the best 12 credits and have no grades below B, may apply for the qualifying examination in the second semester.
4. Courses that receive grades below A may be repeated and conducted in the following semester. A course may only be repeated twice.
5. The qualifying examination is conducted to assess the academic abilities of doctoral students in the education program. The qualifying examination is conducted orally and/or in writing, and the assessment is carried out by the Qualifying Examination Faculty Examining Committee.
6. The Chair of the qualifying examination committee must hold at least the rank of Associate Professor and have a doctoral degree, while committee members must hold at least the rank of Assistant Professor and have a doctoral degree. The examining committee for each student consists of 3 - 5 faculty members. One of the examining faculty members may come from outside Universitas Brawijaya and must meet the requirements as an examiner.
7. The minimum passing standard for the qualifying examination is 70 or equivalent to a grade of B. Students who fail the qualifying examination are given the opportunity to retake it once.
8. Graduation is conducted after students fulfill all academic and administrative requirements:
 - a. Having fulfilled all academic (courses and academic assignments) and administrative requirements and passed the final examination.
 - b. Having uploaded a scientific publication article according to Rector's Regulation Number 52 of 2018 (proven by at least acceptance letter for publication).
 - c. Having GPA > 3.0 throughout their study period.
 - d. Having completed other requirements specified by the Study Program.
9. Students who graduate receive the following graduation honors:
 - a. Graduating with High Distinction with the following conditions:
 - i. GPA > 3.75;
 - ii. Having published the results of their dissertation research > 1 article in internationally reputable scientific journals indexed in Scopus or Web of Science Core Collection

- (Thomson Reuters) with a minimum impact factor of 0.1 or Microsoft Academic Search as per Rector's Regulation Number 52 of 2018;
- iii. Having achieved maximum study period of eight semesters.
 - b. Graduating with distinction, with the following conditions:
 - i. Not meeting the other requirements in point (a);
 - ii. Having GPA between 3.50-3.75 (overall for courses and dissertation).
 - c. Graduating with Merit with the following conditions:
 - i. Having GPA between 3.00-3.50 (overall for courses and dissertation).
10. The graduation honor is determined by the Examining Committee and endorsed by the Dean, and announced at the time of graduation.
11. Students are considered to have failed their study if:
- a. They fail the qualifying examination on the second attempt, or
 - b. They fail the dissertation proposal defense on the second attempt, or
 - c. They fail the dissertation defense on the second attempt, or
 - d. Their study period expires (more than 14 semesters) and they have not completed the study load according to the applicable provisions, or
 - e. They fail to re-register for three consecutive semesters.
12. The Department or Study Program conducts periodic evaluations of students' academic status in accordance with the provisions of this Article. For students who are at the dropout or end-of-study limit, a warning letter will be issued by the relevant Department Head.

Article 13

Remedial and Special Examinations

1. Remedial examinations are intended for courses with a highest grade of B, while the final grade taken is the best and maximum of B+. Bachelor's program students can take remedial examinations with the condition of having participated in all academic activities related to the course during the semester in which the course was taken. The implementation is regulated by the Department/Study Program with the approval of the Faculty.
2. Special examinations with special assignments are for Bachelor's program students in the final semester who have completed 144-160 credits and have completed their final project/thesis, but have obtained a GPA of less than 2.00 or grades of D/D+ > 10%. Special examinations are limited to a maximum of 9 credits and only once during the study period. The final result of the special examination is given a maximum grade of C. The implementation is performed by the Department/Study Program with the approval of the Faculty.
3. For Master's and Doctoral programs, the implementation of remedial examinations and their requirements are determined by each respective Study Program.

Article 14

Interim Semester Program

1. The Interim Semester Program aims to improve students' GPA, shorten the study period, and prevent dropouts. The Interim Semester provides an opportunity for students to improve grades for courses they have previously taken.

2. The Interim Semester Program is a lecture program for undergraduate education programs held between even and odd semesters (semester breaks) whose implementation is regulated at the Faculty level.
3. The implementation of the Interim Semester includes face-to-face activities, structured assignments, independent assignments, mid-semester examinations, and end-semester examinations equivalent to the workload of regular lectures.
4. The Interim Semester is held for a minimum of 8 weeks and consists of 16 face-to-face meetings including mid-semester and end-semester examinations. The timing of the Interim Semester is regulated by the Faculty.
5. The maximum credit load for courses taken during the Interim Semester is 9 credits.
6. The Interim Semester is not included in the calculation of the study period.
7. Courses that can be included in the program are those that have been previously taken. The maximum grade for repeated courses is an A.

Article 15

Merdeka Belajar Kampus Merdeka (MBKM)

1. *Merdeka Belajar – Kampus Merdeka (MBKM)* is an undergraduate education program that grants students the right to study for 3 semesters outside of their Study Program. Through this program, students will have extensive opportunities to enrich and enhance their insights and competencies in the real world according to their passions and aspirations.
2. The faculty implements the MBKM program through the Study Program curriculum, especially at the undergraduate level.
3. There are 8 options for learning forms outside of higher education institutions, including:
 - a. student exchange,
 - b. internships/work placements,
 - c. teaching assistantships in educational units,
 - d. research,
 - e. humanitarian projects,
 - f. entrepreneurship activities,
 - g. independent studies/projects, and
 - h. rural development/community service program for students
4. Study Programs within the Faculty offering the MBKM Program include:
 - a. Bachelor's Program in Civil Engineering,
 - b. Bachelor's Program in Mechanical Engineering,
 - c. Bachelor's Program in Irrigation Engineering,
 - d. Bachelor's Program in Electrical Engineering,
 - e. Bachelor's Program in Architecture,
 - f. Bachelor's Program in Urban and regional planning,
 - g. Bachelor's Program in Industrial Engineering,
 - h. Bachelor's Program in Chemical Engineering.
5. The implementation of MBKM activities is regulated as follows:

- a. The implementation of 1 semester of MBKM outside of the Study Program within the University can be done gradually over several semesters,
 - b. The implementation of 1 semester of MBKM outside the University can be done after the 5th semester,
 - c. The implementation of 2 semesters of MBKM outside the University can be done after the 5th semester,
 - d. The implementation of 2 semesters of MBKM, consisting of 1 semester outside the Study Program within the University, can be done gradually over several semesters and 1 semester outside the University can be done after the 5th semester,
 - e. The implementation of 3 semesters of MBKM, consisting of 1 semester outside the Study Program within the University, can be done gradually over several semesters and 2 semesters outside the University can be done after the 5th semester.
6. The implementation of this program follows the Education Guidelines of Universitas Brawijaya for the Academic Year 2022-2023, Chapter V and the Guidelines for Implementing MBKM at Universitas Brawijaya in 2022.

Article 16

Fast Track Program

1. The Fast Track Program is an acceleration program from Bachelor's degree to Master's degree education, completed within 5 (five) years.
2. Study Programs within the Faculty offering the Fast Track Program are:
 - a. Bachelor's Program in Civil Engineering –Master's Program in Civil Engineering
 - b. Bachelor's Program in Mechanical Engineering –Master's Program in Mechanical Engineering
 - c. Bachelor's Program in Irrigation Engineering – Master's Program in Irrigation Engineering
 - d. Bachelor's Program in Electrical Engineering – Master's Program in Electrical Engineering
 - e. Bachelor's Program in Architecture – Master's Program in Architecture
 - f. Bachelor's Program in Urban and regional planning – Master's Program in Urban and regional planning.
3. The implementation of the Fast Track Program follows Rector's Regulation of Universitas Brawijaya Number 19 of 2020 concerning the Acceleration Program from Bachelor's to Master's Degree and the Education Guidelines of Universitas Brawijaya for the Academic Year 2022-2023 Chapter XIII.

Article 17

Acceleration Program for Doctor of Excellence Universitas Brawijaya (PPDU-UB) and Master's Program on the Pathway to Doctoral Program for Bachelor of Excellence (PMDSU)

1. The PPDU-UB and PMDSU programs are accelerated education programs offered to graduates holding Bachelor's degree who qualify to become Doctors, with a study period of

- 4 (four) years (8 Semesters) under the guidance of experienced Promoters within Universitas Brawijaya.
2. Participants who pass the PPDU-UB program can proceed with self-funding or scholarships. Participants who pass the PMDSU program will receive funding from Directorate General of Higher Education.
 3. The Study Programs within the Faculty offering PPDU-UB are:
 - a. Doctoral Program in Civil Engineering
 - b. Doctoral Program in Mechanical Engineering
 - c. Doctoral Program in Water Resources Engineering.
 4. The implementation of PPDU-UB follows the Rector's Regulation of Universitas Brawijaya Number 4 of 2021 concerning the Implementation of the Acceleration Program for Doctor of Excellence and the Education Guidelines of Universitas Brawijaya for the Academic Year 2022-2023 Chapter XIII.

Article 18

Dual Degree

1. The dual degree program awards graduation degrees from 2 (two) different Study Programs at the university, designated for students who have met the requirements.
2. Students eligible for the dual degree program are active students in 2 (two) different Study Programs within the University.
3. Prospective students must meet administrative and academic requirements and pass the entrance exams/selections of each Study Program.
4. Degrees from 2 (two) different Study Programs are awarded to students after they have completed the entire curriculum of the dual degree program in a lawful manner and in accordance with regulations.
5. All academic administrative consequences resulting from participation in the dual degree program are entirely the responsibility of the students.
6. The implementation of this program follows agreements between the relevant Faculties/Departments/Study Programs.

Article 19

Double Degree

1. The double degree program awards graduation degrees from 2 (two) Study Programs, from the University and a partner university abroad (partner institution); this program is for students who have met the requirements.
2. The implementation of this program must be based on a cooperation agreement between the University and the partner institution, and is conducted in regular classes.
3. The Study Programs within the Faculty that offer the double degree program are:
 - a. Master's Program in Civil Engineering
 - b. Master's Program in Mechanical Engineering
 - c. Master's Program in Water Resources Engineering
 - d. Master's Program in Electrical Engineering.

4. The implementation of the Double Degree Program follows the Rector's Regulation of Universitas Brawijaya Number 334/PER/2012 concerning the Implementation of the Double Degree Education Program at Universitas Brawijaya and the Education Guidelines of Universitas Brawijaya for the Academic Year 2022-2023 Chapter XII.
5. Students eligible for the double degree program are active master's students, with the registration period determined by the Department/Study Program with the approval of the Faculty.
6. Prospective students must pass the selection process to become participants in the double degree program. The selection system, which includes requirements, procedures, qualification criteria, and the list of partner institutions, is determined by the Rector.
7. During their academic activities at Universitas Brawijaya or the partner institution in the double degree program, students must be registered as active students in the chosen Study Program and comply with all academic administrative consequences resulting from participation in the double degree program.
8. To obtain 2 (two) diplomas and transcripts, students must pass all academic obligations and complete administrative requirements in the chosen Study Program at both Universitas Brawijaya and the partner institution. The diploma consists of 2 (two) sheets, one from the Study Program at Universitas Brawijaya and one from the partner institution. The transcript contains a combination of courses taken at Universitas Brawijaya and the partner institution.
9. The degree title from the partner institution follows the naming conventions enforced by that institution.

CHAPTER IV

ACADEMIC ADMINISTRATION

Article 20

Student Admission

1. The selection for new students is centrally managed by the University through <https://selma.ub.ac.id>
2. General Admission Requirements for Master's and Doctoral Programs:
 - a. Possession of a diploma and academic transcript.
 - b. A bachelor's degree or its equivalent for prospective Master's program students.
 - c. A Master's degree or its equivalent for prospective Doctoral program students.
 - d. GPA requirements:
 - Minimum 3.0 for the Master's program.
 - Minimum 3.5 for the Doctoral program.
 - e. TOEFL scores:
 - Minimum 475 for the Master's program.
 - Minimum 500 for the Doctoral program.
 - f. Academic Potential Test scores:
 - Minimum 475 for the Master's program.
 - Minimum 500 for the Doctoral program.

- g. Additional provisions or requirements are set by each Study Program and can be found at <https://selma.ub.ac.id>.
 - h. Provisions and requirements for international students are announced at <http://io.ub.ac.id>.
3. Fast Track Program Admission Requirements:
- a. The student must be an active student at the University.
 - b. The student must be in the 6th semester of the undergraduate program and have completed at least 110 credits with a GPA of (1) ≥ 3.50 , or (2) ≥ 3.25 with a minimum grade of B.
 - c. TOEFL score > 450 .
 - d. A recommendation from a doctoral-level lecturer with at least the academic rank of Assistant Professor.
 - e. Approval and financial support commitment from parents/guardians and/or other parties
4. PPDU-UB Program Admission Requirements:
- a. A promoter is required to:
 1. Have clear research track record
 2. Have minimum Scopus h-index of 3 in the fields of science and technology and have been a first author/corresponding author in the past five years.
 3. Have minimum academic rank of Associate Professor and holds a Doctorate.
 4. Be no older than 65 for Professors and 61 for Doctors.
 5. Have supervised at least three doctoral students who have produced reputable international publications (either as promoter or co-promoter).
 6. Have international networking that supports the success of PPDU implementation.
 - b. A student is required to:
 - Possess a bachelor's degree with the following GPA requirements:
 - For A-accredited universities and A-accredited study programs, GPA > 3.25 .
 - For B-accredited universities and A-accredited study programs, GPA > 3.5 .
 - For A-accredited universities and B-accredited study programs, GPA > 3.5 .
 - For B-accredited universities and B-accredited study programs, GPA > 3.75 .
 - For universities and study programs with accreditation below B, GPA > 3.8 .
 - Be no older 24 years for non-professional graduates and 27 years for professional graduates at the time of application.
 - Obtain academic recommendations from the final project/thesis supervisor and/or experts in the relevant field.
 - Not receive PMDSU scholarships.
 - Be physically and mentally healthy, and free from drugs.
 - Be willing to participate in the PPDU education program for a maximum of four years.

Article 21

Academic Status

The academic status of students will change according to the administrative processes completed. They types of academic status for students include:

1. Not Registered: students have not completed administrative registration.
2. Registered: students have completed administrative registration.
3. Active: students have completed both administrative and academic registration.
4. Academic Leave and/or Terminated Study: it represents a postponement of student registration for a period of one semester with the Rector's permission, not counted as study time, and can be taken starting from the first semester.
5. Study Evaluation: This academic status indicates that students do not meet the academic requirements to continue their studies in the following semester.
6. Failed Studies/Drop Out: This status indicates that students who do not meet the success evaluation requirements are not registered on account of not completing registration for more than 2 (two) cumulative/consecutive semesters and violate the rules or other applicable regulations set by the university. Students with failed studies are proposed by the Department Head to the Faculty to be forwarded to the Rector, and a Rector's Decree related to Failed Studies will be issued.
7. Withdrawal/Transfer to Another University: This status indicates that students apply for withdrawal/transfer to another university. The application for withdrawal/transfer is addressed to the Rector and done online.
8. Deceased: The Department Head reports to the Faculty, which then forwards the report to the Rector if a student has passed away, attaching the supporting documents.

Article 22

Student Enrollment

1. Administrative registration involves the process to obtain registered student status at the University.
 - a. Requirements for new student administrative registration: After officially being accepted as prospective students, they must fulfill the requirements and conditions pursuant to the announcement of prospective student registration to be designated as registered students.
 - b. Requirements for returning student administrative registration: The requirements for returning student administrative registration are announced through the official University and Faculty websites at the end of each semester and must meet other academic requirements stipulated by each Faculty/Study Program.
2. Academic registration involves the process to obtain active status at the Faculty and the right to participate in academic activities for a particular semester. These activities include:
 - a. Programming Study Plan Card (KRS) through the Student Academic Information System (SIAM): The determination of the current semester's study plan is carried out under the guidance of the appointed Academic Advisor (PA). For new students, the first and second semesters' study loads are required to follow the predetermined study load (package system). For returning students, the study load for the next semester is determined based on the GPA achieved in the previous semester.

- b. Consultation on the study plan and approval of KRS by the Academic Advisor (PA): The semester study plan approved by the PA lecturer is then validated through the Lecturer Information System (SIADO) and then recapitulated by the Department's teaching section.
 - c. Filling out the Study Plan Change Card (KPRS) as regulated by the Department: Changing the study plan means replacing a course with another course in the same semester. Changes to the study plan must be made no later than the end of the first week and must be approved by the PA lecturer.
 - d. Filling out the Course Cancellation Card (KPM) as regulated by the Department: Cancelling a course means cancelling the plan to take a course that will therefore not be examined in the relevant semester. Students who wish to cancel a course must do so no later than the second week. This cancellation must be approved by the PA lecturer and immediately reported to the Department's teaching section.
 - e. Receiving the Transcript of Academic Records (KHS) through the Student Academic Information System (SIAM): the KHS represent the grades obtained by students for all courses programmed in the KRS and listed in the KHS. Each semester's KHS is made in four copies, intended for the PA lecturer, the student, the student's parents/guardians, and the Department's teaching section (recording).
3. Sanctions:
- a. Prospective students who do not meet the requirements and procedures in the acceptance announcement are declared to have withdrawn as prospective students for the relevant academic year.
 - b. Returning students who do not complete administrative registration in a particular semester without the Rector's approval are declared non-students for that semester, which is counted as part of their study period.
 - c. Returning students who are late in administrative registration for any reason are declared not registered as active students for that semester.
 - d. Returning students who are not registered as stated in point (c) can apply for academic leave to the Rector no later than 1 (one) month after the administrative registration closes.
 - e. Returning students who are not registered for more than 2 (two) cumulative/consecutive semesters are declared to have failed their studies as students

Article 23

Tuition Fee Payments

1. Student tuition fees are regulated under the Rector's Regulation.
2. Every new student must pay the tuition fees according to the stipulated provisions at the time of administrative registration as a new student.
3. Tuition fee payments are made each semester during administrative registration.
4. For returning students who do not re-register without the Rector's permission, they are still required to pay tuition fees during the period they are inactive. Payment is made at the time of re-registration when they apply to reactivate their active status as students with an official letter from the Faculty addressed to the Rector.

5. If students (new/returning) obtain the Rector's permission for academic leave, they are exempt from the obligation to pay tuition fees during the academic leave period. They can obtain a tuition fee waiver at the central finance department by showing the academic leave approval letter.
6. If students (new/returning) obtain the Rector's permission for Terminated Study, they are still required to pay tuition fees during the Terminated Study period.

Article 25

Student Identification Card

1. The Student Identification Card (KTM) serves as proof of registered student status.
2. The KTM is issued when new students have completed the registration process.
3. The KTM can be collected at the Faculty's Academic Section.
4. The KTM is valid as long as the student is registered.
5. Exchange or collaboration students at the University will receive a special student card valid for the duration of their exchange or collaboration at the University.
6. If the KTM is lost, damaged, or contains data errors, students can request a reprint of the KTM in accordance with the University's existing provisions and procedures.

Article 25

Student Transfers

1. Student transfers within the University or from other State Universities (PTN) to the University must be within the same level of education and meet the established requirements.
2. The requirements and procedures for student transfers follow the Education Guidelines of Universitas Brawijaya for the Academic Year 2022/2023, Subchapter 14.5.

Article 26

Academic Agenda

Students are required to attend lectures, seminars, laboratory work, and similar academic activities in accordance with their study plan in an orderly and regular manner according to the applicable regulations. The schedule for lectures and laboratory work is arranged by the Study Program and may be conducted from 06:00 to 09:00.

Article 27

Academic Advisors (PA) and Student Counsellors (BK)

1. An Academic Advisor (PA) is a lecturer who provides academic advice to students according to their Study Program to enhance their academic abilities, ensuring that their Study Program is completed successfully.
2. The duties of a PA include:
 - a. Providing information on the use of facilities and infrastructure supporting academic and non-academic activities.
 - b. Assisting students in surmounting academic problems.
 - c. Helping students develop good study habits and attitudes (learning skills) to foster independent learning for their success as experts.
 - d. Recommending the level of students' academic success for specific purposes.
 - e. Assisting students in developing a well-rounded personality in line with religious, national, cultural, and other positive values.
 - f. Helping students develop lifelong independent learning perspectives.
 - g. Warning students who are subject to academic evaluations in accordance with student success evaluation regulations.
 - h. Guiding students interested in MBKM programs, fast track, PPDU-UB, dual degree, and double degree programs.
3. A PA is responsible for:
 - a. Processing the completion of the Study Plan Card (KRS) and being accountable for its accuracy.
 - b. Determining the correct number of credits students may take in the relevant semester, considering applicable regulations.
 - c. Reviewing and approving the student's study plan each semester as outlined in the KRS.
 - d. Explaining the decisions regarding the study load to ensure students understand and accept the responsibilities related to the number of credits and courses taken.
4. Other provisions related to the duties of a PA involve the following:
 - a. Each semester, PAs must consider the individual or group learning outcomes of their advisees.
 - b. PAs may seek assistance from other work units (such as BK) for advisement.
 - c. Academic guidance is coordinated by the Vice Dean I, while non-academic issues are coordinated by the Vice Dean III.
 - d. Every PA must always adhere to the Campus Life Code of Ethics.
 - e. The administration of advisement is managed by the Study Program.
 - f. Each PA must report their duties regularly to the Department leadership.
 - g. The Department leadership must consider the rights of PAs.
5. Guidance and Counseling (BK) is a systematic and intensive assistance process provided by specialists to students for personal, social, and learning skills development (learning skills) for their future careers, conducted by a team at the Faculty and University levels specifically designated for this purpose.
6. BK services at the Faculty are coordinated by the Vice Dean III, with further information available through the Faculty Student Affairs Department.

Article 28

Mid-Semester and End-Semester Examinations

1. Course examinations include the Mid-Semester examinations (UTS) and End-Semester Examinations (UAS), conducted according to the academic calendar and announced to the academic community of the Faculty. The schedule for UTS and UAS for the regular program must be announced at least one week before the examinations begin.
2. UTS and UAS for the regular program are organized by a committee appointed by the Dean.
3. Students can take examinations if they have attended at least 80% of the semester's lectures and fulfilled other requirements. Students who do not meet the requirements in point (3) cannot take the examinations, and all grades obtained for that course are nullified and the course credits are calculated in the GPA.
4. The lecturer of the course must submit the Final Grades to the Head of the Study Program within the specified deadline and no later than one week after the UAS is conducted. If the course instructor does not submit the grades within the specified deadline, the Final Grades will be determined by the Head of Department/Study Program.
5. If a student cannot take UAS due to a verifiable reason, the Department may hold a makeup examination within a deadline set by the Head of Department/Study Program.
6. Remedial and special examinations are intended to improve the final grade of a previously taken course. To be eligible for remedial examinations, students must participate in all academic activities related to the course in the semester the course is taken. Remedial examinations are available for courses with a maximum grade of B, and the final grade taken will be the best one, up to a maximum of B+.

Article 29

Application for Academic Leave and/or Terminated Study

1. Academic leave must be applied for no later than 1 (one) month after the end of the re-registration period and is not subject to tuition fees for the semester applied for.
2. Terminated study must be applied for when it exceeds 1 (one) month after the end of the re-registration period and is subject to tuition fees for the semester applied for.
3. Applications for academic leave and/or terminated study are submitted online by the student concerned. Academic leave must receive written approval from the Rector. To resume academic activities, the student must submit a letter of application to the Rector to become active and re-register in accordance with applicable academic regulations.
4. Applications for academic leave and/or terminated study can be made for a maximum of 4 (four) semesters for vocational and undergraduate programs; a maximum of 2 (two) semesters for postgraduate programs. Students in fast track, PPDU-UB, or double degree programs are not allowed to apply for academic leave.
5. Applications for academic leave and/or terminated study are made per semester, and students are entitled to apply starting from the first semester.
6. Academic leave and/or terminated study can be taken by students with Active, Registered, Academic Leave, and Terminated Study (from the previous semester) status and who are still within their study period.

7. During the period of academic leave and/or terminated study, students are not permitted to undertake registered academic activities.
8. Retroactive academic leave and/or terminated study (for previous semesters) is not allowed.
9. The academic status of students on academic leave and/or terminated study in the system is referred to as terminated study (adjusting to the academic status in *PD Dikti*).

Article 30

Evaluation of Academic Performance

1. The Department or Study Program conducts periodic evaluations of students' academic status in accordance with the provisions set out in Article 10 for Undergraduate Programs, Article 11 for Master's Programs, and Article 12 for Doctoral Programs.
2. Academic performance evaluation is conducted at the end of each semester, covering the courses taken by students during that semester. This evaluation result is primarily used to determine the study load that may be taken in the next semester based on the provisions of the semester GPA.
3. Students who do not meet the evaluation requirements will be given a notification letter and will not be able to continue their studies in the next semester, and their guardians will be informed.
4. Students approaching one semester before the drop-out limit and/or the end of their study period will receive a warning letter issued by the Head of the relevant Department to both the student and their guardian.
5. The actualization of study evaluations is carried out according to the needs of the Study Program while still considering the applicable regulations.

Article 31

Application for Withdrawal/Transfer to Another University

1. Students submit a withdrawal application online by uploading a withdrawal letter acknowledged by their parents/guardians.
2. The application is validated by the Department and Faculty by uploading the withdrawal approval letter from the authorized leaders in the Department and Faculty if the withdrawal requirements have been met (cleared financial obligations, library, etc.).
3. The application is validated by the University by uploading the withdrawal approval letter from the Rector if the withdrawal requirements have been met (cleared financial obligations, library, etc.).
4. The original withdrawal certificate from the Rector can be collected directly by the student at the University and the original student ID card (KTM) must be submitted.
5. Withdrawal cannot be undone.

Article 32

Graduation Ceremony

1. Students can participate in the graduation ceremony if they have undergone the graduation assessment (*judicium*) and been declared to have passed a specific educational program and have met the graduation requirements.
2. Students who have completed their educational program are required to attend the graduation ceremony as a condition for receiving their diploma, which will be awarded during the ceremony.
3. Graduates who cannot attend the graduation ceremony can collect their diploma from the Faculty or re-register to participate in a future graduation ceremony.
4. If a graduate does not attend the graduation ceremony within one year of their graduation date, the University is not responsible for any loss or damage to the diploma.
5. Diplomas required before the graduation ceremony can be borrowed by submitting a request according to the applicable regulations.
6. Diplomas that have been awarded to alumni cannot be reissued.
7. If a diploma is damaged, lost, or destroyed, as evidenced by a written statement from the police, a Replacement Certificate can be issued according to the provisions of the Regulation of the Minister of Research, Technology, and Higher Education (Permenristekdikti) No. 59 of 2018.

Article 33

Rules and Code of Conduct for Students

Rules and Code of Conduct for Students is pursuant to the Education Guidelines of Universitas Brawijaya the Academic emic ear 2022-2023 Chapter XV.

Article 34

Academic Sanctions

1. Academic sanctions are imposed on students who violate the prevailing student rules and code of conduct. Determination of misconduct is documented in an official report at the time of the incident.
2. Students who attend less than 80% of total face-to-face sessions (14 sessions) are not allowed to take the End-Semester Examination (UAS) due to their own negligence.
3. Students who engage in academic misconduct during exams are subject to the cancellation of the course in which the misconduct occurred.
4. Students who withdraw from a course outside the designated period are given a grade of E for that course.
5. Students who take exams on behalf of others and/or students whose exams are taken by others are subject to the cancellation of all examinations for all courses in the relevant semester.
6. Students who make unauthorized changes to their Study Plan Card (KRS) are subject to the cancellation of their entire study plan for the relevant semester.

7. Students who commit administrative fraud (falsifying formal documents, data, and signatures) are subject to the cancellation of their entire study plan for the relevant semester and other sanctions in accordance with applicable regulations.
8. Students who engage in violent acts, such as fighting and other criminal activities, are subject to the cancellation of their entire study plan for the relevant semester and other sanctions in accordance with applicable regulations.
9. Students who make unauthorized grade changes will be suspended for a minimum of two semesters, which will not be counted as terminated study period.
10. Students who commit plagiarism in their final project/thesis/dissertation will have their end-semester examination grade cancelled.
11. Students who commit the aforementioned violations (points 2 - 10) accompanied by threats of violence, promises, or deceit, will be expelled from the University.

CHAPTER V CURRICULUM, SYLLABI, AND SPECIFIC RULES

Article 35

1. The vision, mission, objectives, curriculum, syllabi, and specific regulations of the Department/Study Program are established by each respective Department/Study Program and are presented in Section B of the Department's Education Guidelines in this Education Guidelines.
2. The Department/Study Program conducts the learning process based on learning outcomes (Outcome Based Education).
3. The Department/Study Program implements the MBKM curriculum, which may adopt the six educational pathways and eight forms of independent learning activities as determined by the University.
4. The equivalence of courses with learning activities outside the Study Program or outside the University is regulated by each respective Department/Study Program.

CHAPTER VI FINAL PROJECT/BACHELOR'S THESIS

Article 36

General Provisions Concerning Final Project/Bachelor's Thesis

1. To undertake the Undergraduate Final Examination, a student is required to complete a final project/thesis, which is a scholarly work in their field of study, written based on research and literature review as stipulated by the Study Program.
2. The requirements for taking the final project/thesis involve the following:
 - a. Active enrollment as a student in the relevant academic year and having included the final project/thesis in the study plan.
 - b. Completion and passing of all compulsory courses and accumulation of a certain number of credits as determined by the Study Program.
 - c. A minimum GPA of 2.00.
 - d. Fulfillment of other requirements specified by the Study Program.

3. The procedures and methods for completing the final project/thesis are regulated in the Faculty's Guidelines for Writing Final Projects/Theses, Theses, and Dissertations.

Article 37

Study Load and Time Frame for Final Project/Bachelor's Thesis

1. The final project/thesis carries a study load of 6 (six) credits.
2. The final project/thesis must be completed within 6 (six) months from the issuance date of the Final Project/Thesis Supervisor Assignment Letter.
3. The evaluation of the final project/thesis is conducted within the timeframe specified in paragraph (2) according to the procedures determined by each Study Program.
4. An extension for the completion of the Final Project/Thesis requires the Dean's approval in the form of an extension of the Final Project/Thesis Supervisor Assignment Letter or a replacement of the supervisor upon the Department's request, and must be included in the Study Plan for the subsequent semester according to the procedures established by each Study Program.

Article 38

Qualification and Determination of Rights and Obligations of Lecturers Designated as Supervisors of Final Projects/Theses

1. In preparing the Final Project/Thesis, a student must be supervised by 1 (one) or 2 (two) lecturers, serving as a Main Supervisor and a Co-Supervisor. Other provisions regarding the composition of the Final Project/Thesis supervisors may be determined by the Dean upon the recommendation of the Head of the Department/Program Coordinator.
2. The Main Supervisor and the Co-Supervisor are appointed by the Dean upon the recommendation of the Head of the Department/Program Coordinator.
3. A Main Supervisor must be a lecturer with at least the functional position of an Assistant Professor and hold at least a Master's degree or equivalent, or hold the functional position of an Instructor and have a Doctorate or equivalent. A Co-Supervisor must be a lecturer with at least the functional position of an Instructor and hold at least a Master's degree or equivalent. The determination of qualifications for supervisors outside these requirements will be set by the Dean upon the recommendation of the Head of the Department/Program Coordinator.
4. Adjunct lecturers or guest lecturers can be proposed as Main Supervisors or Co-Supervisors and are appointed by the Dean upon the recommendation of the Head of the Department/Program Coordinator.
5. The duties and responsibilities of the Main Supervisor are:
 - a. Assisting and directing students in identifying issues to form the basis of the final project/thesis.
 - b. Supervising students in the execution of their final project/thesis.
 - c. Guiding students in writing their final project/thesis.
 - d. Coordinating with the Co-Supervisor in guiding students to complete their final project/thesis.

6. The duties and responsibilities of the Co-Supervisor are to assist the Main Supervisor in guiding students on their final project/thesis.

Article 39

Nature and Objectives of Bachelor's Final Project Examinations

1. A Bachelor's Final Project Examination is the final examination must be undertaken by students as a requirement for obtaining a Bachelor's degree.
2. The Bachelor's Final Project Examination is comprehensive and conducted orally.
3. The purpose of the Bachelor's Final Project Examination is to evaluate students' mastery of knowledge and application of technology in accordance with their field of expertise.
4. The Bachelor's Final Project Examination also aims to address areas of weakness, thereby enhancing students' competencies.
5. Bachelor's Final Project Examinations may include theses, nationally/internationally recognized scientific achievements, reputable publications, or design or development reports.

Article 40

Requirements to Accomplish Bachelor's Final Project Examinations

1. Students are registered in the relevant academic year.
2. Students have complete all coursework except for the Final Project/Thesis.
3. Students have achieved a minimum GPA of 2.00.
4. Students have no final grade of E in any courses taken.
5. Grades of D/D+ must not exceed 10% of the total credits taken by students.
6. Students have completed and passed the Final Project/Thesis Proposal Seminar and/or Final Project/Thesis Results Seminar.
7. Students have fulfilled the academic and administrative requirements specified by each Study Program.
8. The decision to conduct the Bachelor's Final Project Examination is determined by the Dean upon the recommendation of the Head of the Department/Program Coordinator, accompanied by the necessary requirements.

Article 41

Bachelor's Final Project Examinations

1. The time and administration of the Bachelor's Final Project Examination are determined by the Department/Study Program.
2. The Examination Committee for the Bachelor's Final Project Examination is appointed by the Dean upon the recommendation of the Head of the Department/Program Coordinator, consisting of a Chair, a Secretary, and at least three Examiners (including Supervisors and Non-Supervising Lecturers). The Chair and Secretary of the Examination Committee are the

- Head and Secretary of the Department/Study Program or other lecturers designated by the Dean upon the recommendation of the Head of the Department/Study Program.
3. The Examination Committee for the Bachelor's Final Project Examination must meet the following qualifications:
 - a. The Chair and Secretary must at least hold the rank of Associate Professor or Assistant Professor with a Master's degree, or Instructor with a Doctorate degree. The determination of the Examination Committee outside these qualifications can be made by the Dean upon the recommendation of the Head of the Department/Program Coordinator.
 - b. Witness Examiners must at least hold the rank of Assistant Professor with a Master's degree, or Instructor with a Doctorate degree.
 - c. Non-Supervising Examiners must hold at least the rank of Instructor with a minimum of a Master's degree.
 - d. Examiners may be proposed from other institutions whose field of expertise aligns with the student's final project/thesis and are appointed by the Dean upon the recommendation of the Head of the Department/Program Coordinator.
 4. Duties of the Examination Committee:
 - a. Chair:
 - i. Leading the Examination Committee sessions.
 - ii. Being responsible to the Dean for the administration of the Bachelor's Final Project Examination and signing the examination minutes.
 - b. Secretary:
 - i. Organizing and recording necessary details during the conduct of the Bachelor's Final Project Examination.
 - ii. Preparing and signing the examination minutes.
 - c. Witness Examiners:
 - i. Observing the examination process.
 - ii. Providing input during the determination of the examination results.
 - d. Examiners:
 - i. Posing questions relevant to their field.
 - ii. Evaluating the answers to the questions posed.
 - e. Supervising Lecturers:
 - i. Assisting and/or examining their supervisees during the Bachelor's Final Project Examination process.
 5. The duration allocated for the Bachelor's Final Project Examination is a maximum of 120 minutes per student.
 6. Students may be accompanied by at least one supervising lecturer during the Bachelor's Final Project Examination process.
 7. The elements evaluated in the Bachelor's Final Project Examination include:

- a. The quality of the scientific work (final project/thesis), including academic substance and scientific writing conventions.
 - b. Mastery of the subject matter as demonstrated in answering the Examination Committee's questions.
 - c. Attitude and response during the examination process.
8. The Chair of the Examination Committee leads the deliberation to determine the Bachelor's Final Project Examination grade, represented by A, B+, B, C+, C, D+, D, or E.
 9. To pass the Bachelor's Final Project Examination, a student must obtain at least a C grade.
 10. Students who do not pass the Bachelor's Final Project Examination must comply with the Examination Committee's decision and must retake the Bachelor's Final Project Examination at a time determined by the Department/Study Program, provided that the student's study period has not exceeded.
 11. The Bachelor's Final Project Examination grade also includes the evaluation of the final project/thesis by the Supervising Lecturers and/or the Proposal Seminar grade and/or the Results Seminar grade and/or the Bachelor's Final Project Examination grade, with the weight determined by each Study Program.
 12. The *judicium* for the undergraduate degree must be conducted no later than six months from the date of passing the Bachelor's Final Project Examination, as further regulated in the Academic Regulations of the Study Program.

CHAPTER VII THESIS

Article 42

General provisions Concerning Thesis

1. To undertake the Master's Final Examination, a student is required to complete a thesis as a scientific work in their field of study, written based on independent research under the supervision and guidance of thesis supervisors in accordance with the regulations set by the Study Program.
2. The thesis must contribute to the development of knowledge and technology in the relevant field and must align with the scope of the study program in which the student is enrolled. Data or facts used as the basis for the thesis must come from research activities and/or literature studies. The data must be obtained honestly, validly, and free from any elements of plagiarism.
3. The requirements for undertaking a thesis are as follows:
 - a. Completion of at least 14 credits with a minimum GPA of 3.00;
 - b. Successful completion of the Research Methods course with a minimum grade of B;
 - c. Establishment of a thesis supervisory committee;
 - d. Fulfillment of all administrative requirements in accordance with applicable regulations.
4. The procedures and methods for writing the thesis are governed by the Faculty's Guidelines for Writing Final Projects/Bachelor's Theses, Master's Theses, and Doctoral Dissertations.

Article 43

Study Load and Study Depth

1. The thesis carries a study load of 9 to 15 credits.
2. The study load of the thesis is determined by the Head of the Department based on the recommendation of the Head of the Study Program, considering the nature of the activities, the depth of the study, and the timeline for its completion.
3. Thesis research is supervised by a Supervisory Committee, which is appointed by a Dean's Decree, taking into account the recommendations from the Head of the Department.
4. The academic activities of the thesis consist of several stages:
 - a. Preparation of the Thesis Proposal;
 - b. Thesis Proposal Examination/Seminar;
 - c. Implementation of Thesis Research;
 - d. Writing and Publication of the Thesis in a Scientific Journal or Proceeding;
 - e. Preparation of the Thesis Manuscript;
 - f. Thesis Results Seminar; and
 - g. Master's Final Examination
5. Further provisions regarding the requirements, implementation, procedures, and assessment methods for the stages mentioned in points (4.a) to (4.g) are regulated by the Study Program, with reference to the Universitas Brawijaya Education Guidelines for the Academic Year 2022-2023.

Article 44

Qualification and Determination of Rights and Obligations of Lecturers Designated as Master's Thesis Supervisors

1. The preparation of the thesis is supervised by two or more Thesis Supervisors, who hold doctoral degrees in a relevant field of study or a related sub-discipline within the Study Program where the student is enrolled, and who have at least the academic rank of Assistant Professor. The second supervisor may be from outside the University.
2. Thesis Supervisors are appointed by the Dean based on the recommendation of the Head of the Study Program.
3. Further provisions regarding the qualifications, procedures for appointment, rights, and responsibilities of the Thesis Supervisors are regulated by the Study Program.

Article 45

Thesis Proposal Examination

1. The thesis proposal examination is conducted by the Department to assess the scientific merit of the thesis research proposal submitted by the student. The material for this examination includes the thesis proposal manuscript, which consists of an Introduction, Literature Review, and Research Methods.

2. The requirements for conducting the Thesis Proposal Examination include:
 - a. Completing at least 14 credits with a minimum GPA of 3.00.
 - b. Passing the Research Methods course with a minimum grade of B.
 - c. Having a Thesis Advisory Committee.
 - d. Fulfilling all administrative requirements as stipulated by the regulations.
- e. The proposal examination can be conducted for approximately 90 to 120 minutes and must be attended by at least 3 out of 4 members of the examination committee. If the main supervisor is unable to attend the seminar/proposal examination, the co-supervisor must represent them. The Thesis Proposal Examination cannot be conducted outside of an official forum.
- f. The assessment of the Thesis Proposal Examination is carried out by all attending members of the examination committee. The final grade for the Thesis Proposal Examination is the average of the grades given by all examiners. A student is considered to have passed the Thesis Proposal Examination if the average grade obtained is at least a B. If the student does not achieve the minimum passing grade, a repeat examination will be conducted. The technical provisions and procedures for the repeat Thesis Proposal Examination are regulated by the Study Program.

Article 46

Thesis Results Seminar

1. The Thesis Results Seminar must be conducted by Master's program students who have completed their research, have a thesis manuscript approved by the Supervisory Committee, possess at least a draft of a scientific publication, and have met all administrative requirements as stipulated by the applicable regulations.
2. Requirements for conducting the Thesis Results Seminar include:
 - a. Completion of the Thesis Proposal Examination.
 - b. Completion of the research and possession of a thesis draft approved and signed by the supervisory committee.
 - c. Submission of a draft journal article to the supervisory committee. The student has participated in or attended a minimum number of Thesis Results Seminars as specified by their respective Study Program.
 - d. Fulfillment of all administrative requirements as stipulated by the applicable regulations.
3. The Thesis Results Seminar is attended by the Supervisory Committee, Master's program students, and other interested parties (those intending to attend the Thesis Results Seminar, or special invitees invited by the presenter to provide suggestions for improving the thesis manuscript).
4. The Thesis Results Seminar is conducted for approximately 90 to 120 minutes and can only be held if at least one advisor is present. The Thesis Results Seminar cannot be conducted outside of an official forum.

5. A student can be declared to have passed the Thesis Results Seminar if the average grade obtained is at least a B. If the student does not achieve the minimum passing grade for the Thesis Results Seminar, a repeat examination will be conducted. The technical provisions and procedures for retaking Thesis Results Seminar are regulated by the Study Program.

Article 47

Master's Final Examination

1. The Master's Thesis Defense can be conducted if the student has completed the Thesis Results Seminar, the thesis manuscript has been approved by the Supervisory Committee, and all administrative requirements have been fulfilled as stipulated by the applicable regulations.
2. The thesis manuscript submitted for the Master's Thesis Defense must meet the following criteria:
 - a. The thesis is declared free from plagiarism with a maximum similarity index (from the Introduction to the Conclusion and Recommendations chapters) of 20% by the Department's plagiarism detection team.
 - b. A minimum of one scientific article has been published in a Scopus-indexed proceeding, or an international journal indexed by Scopus or the Web of Science Core Collection, or published research in a nationally accredited Sinta 2 journal, or UB journal designated by the Rector based on Rector's Regulation Number 52 of 2018.
3. Registration for the Master's Thesis Defense must be completed at least 7 days before the scheduled examination date.
4. The Master's Thesis Defense is conducted based on the recommendation of the Chair of the Supervisory Committee to the Head of the Study Program, with a copy submitted to the Head of the Department. Based on this recommendation, the Head of the Study Program appoints two additional examiners outside the Supervisory Committee. The Head of the Study Program then processes the examination arrangements and invites the Examination Team, including the schedule, venue, and thesis manuscript.
5. The Master's Thesis Defense forum is chaired by the Chair of the Supervisory Committee. If the Chair is unable to attend, the Chair can assign a Committee Member to lead the examination. The examination can be conducted if at least 3 out of 4 members of the examination team are present.
6. The Master's Thesis Defense lasts for approximately 90 minutes, focusing on the thesis manuscript. The examination cannot be conducted outside the official examination forum.
7. The assessment of the Master's Thesis Defense includes the student's mastery of the thesis material, comprehensive ability in presenting and defending the thesis content, and other components determined by the Study Program. The assessment is provided by all advisors and examiners according to the Master's Thesis Final Examination assessment format.
8. The six components of the thesis assessment with their respective weightings are as follows:

Thesis Assessment Component	Weight
a. Research proposal	15%
b. Research conducted	20%
c. Thesis writing	15%
d. Journal article writing	20%
e. Research results seminar	10%
f. Master's final examination	20%

9. The minimum passing grade for the Master's Thesis Defense is a B. If the student receives a grade below this, they must retake the Master's Thesis Defense and are allowed one opportunity for a retake. If the student does not pass the first retake, they will be given a special assignment (with the approval of the Supervisory Committee) and will proceed to a second retake of the thesis examination (within a maximum of one semester). If the student does not pass the second retake, they will be declared to have failed the program (Drop Out).
10. Revisions to the thesis (based on suggestions and revisions from the Examination Committee) must be completed within a maximum of 2 (two) months after the thesis defense. If the student does not complete the revisions and submit the thesis to the academic section of the Master's Program within the maximum period (2 months), they must retake the Master's Final Examination, taking into account the maximum study duration for the Master's Program (for students nearing the maximum study period required by the Master's Program).
11. Students who have passed the Master's Final Examination and completed the revisions with the approval of the Supervisory Committee may duplicate the thesis (for the Supervisory Committee, Department, University Library, and other necessary parties). The thesis is then validated by the signatures of the Supervisory Committee and the Head of the Study Program.
12. In special cases, Master's program students with outstanding achievements in international publications, as determined by the Rector, may be recommended by the Examination Committee to the Dean to be awarded a grade of A for the thesis without the Master's Thesis Defense. Outstanding achievements are proven by:
 - a. Having scientific publications:
 - at least 2 (two) scientific articles published or accepted for publication in a journal accredited at least Sinta 2; or
 - at least 1 (one) article published or accepted for publication in a Scopus-indexed proceeding; or
 - at least 1 (one) article published or accepted for publication in an international journal indexed by Scopus or the Web of Science Core Collection (Thomson Reuters).
 - b. Having an average grade of A in all thesis examination/seminar stages.
 - c. The thesis having been evaluated by the Examination Committee, and corrections based on the committee's suggestions having been reviewed and approved by the Supervisory

Committee. Even for students with outstanding achievements, the thesis must still be written and submitted to the Academic Section of the Master's Program.

Article 48

Scientific Research Publication

1. The research publication is a part of the graduation requirements for master's degree students, as referred to in Rector's Regulation of Universitas Brawijaya No. 52 of 2018 concerning the Publication of Scientific Work as Part of the Final Assignment for Master's and Doctoral Programs.
2. The scientific publications set forth in Rector's Regulation No. 52 of 2018 can be produced in the form of:
 - a. Publications in International Scientific Journals indexed by Scopus or the Web of Science Core Collection (Thomson Reuters), or
 - b. Publications in International Scientific Seminars that publish Scopus-indexed proceedings, or
 - c. Accredited National Scientific Journals (SINTA) by the Ministry of Education, Culture, Research, and Technology (Kemdikbudristek), or
 - d. UB Journals as determined by the Rector.
- e. The publication of scientific work is a collaborative written work between the student and the academic supervisor, thereby making both the content and quality of the scientific publication a shared responsibility.
- f. The scientific publication may comprise a part or the entirety of the student's thesis material, provided it is deemed publishable by the Thesis Supervisory Committee.
- g. Students are required to consult with their supervisors regarding the format and substance of the draft journal article to ensure the quality of the draft article to be submitted. The draft journal article must be approved by the Thesis Supervisory Committee before being submitted to the intended journal's editorial board.
- h. The submission period for the journal manuscript to the respective journal publisher does not necessarily have to be after the student has completed the Final Master's defense, but can be done during the thesis preparation period, in accordance with consultations with the supervisor.
- i. In writing journal articles for scientific publications, students are required to list Universitas Brawijaya as their primary affiliation. If students need to include their original institution as an affiliation, it may be listed as a secondary affiliation following Universitas Brawijaya.

Consider equivalency of numerical grades, graduate titles, study duration, and graduation assessment, including academic failure (referencing the UB Academic Guidelines: <http://bak.ub.ac.id/wp-content/uploads/>

2015/03/Buku-Pedoman-Pendidikan-UB-2020-2021.pdf)

CHAPTER VIII DISSERTATION

Article 49

General Provisions Concerning Dissertation

1. To undertake the Doctoral Final Examination, a student is required to prepare a dissertation, an academic work resulting from thorough and independent research. The dissertation must contain new contributions to the advancement of science and technology and is conducted under the supervision of supervisors, as regulated by the Study Program.
2. Fundamentally, the dissertation can be evaluated based on:
 - a. The originality and scientific value of the contributions to the field of study relevant to the dissertation topic and/or in the application of its theories.
 - b. The currency of the theory and methodology used, the appropriateness of the research approach, and the depth of reasoning and analysis.
 - c. The systematic organization of thoughts, the accuracy in formulating problems, the discussion of research results, and the conclusions.
3. The requirements for undertaking a dissertation are:
 - a. Having passed a minimum of 12 credits with a minimum GPA of 3.00;
 - b. Having passed the qualifying examination; and
 - c. Having fulfilled all administrative requirements in accordance with the prevailing regulations.
4. The procedures and methods for preparing the dissertation are governed by the Faculty's Composition Guidelines for Final Assignments/Bachelor's and Master's Theses and Dissertations.

Article 50

Dissertation Load and Depth

1. The dissertation carries a minimum study load of 28 (twenty-eight) credits.
2. The dissertation load is determined by the Department Head upon the recommendation of the Head of the Study Program based on the nature of the activities, the depth of the study, and the time devoted to its completion
3. Dissertation research is supervised by a Supervisory Committee, as regulated in the Dean's Decree.
4. The academic activities of the dissertation consist of the following stages:
 - a. Preparation of the dissertation proposal;
 - b. Supervisory Committee session to discuss the dissertation proposal;
 - c. Dissertation proposal examination;
 - d. Implementation of dissertation research;
 - e. Dissertation composition and publication through journals and proceeding
 - f. Preparation of the dissertation manuscript;
 - g. Supervisory Committee session to discuss the dissertation manuscript;

- h. Dissertation results seminar;
 - i. Supervisory Committee session for the preparation of the Dissertation Feasibility Examination;
 - j. Closed Dissertation Examination;
 - k. Supervisory Committee meeting for the preparation of the Open Dissertation Examination;
 - l. Open Dissertation Examination.
5. Further provisions regarding the requirements, implementation, procedures, and evaluation methods for the various dissertation stages are regulated by the Study Program with reference to the Educational Guidelines of Universitas Brawijaya for the Academic Year 2022-2023.

Article 51

Qualification and Determination of Rights and Obligations of Lecturers Designated as Dissertation Supervisors

1. The dissertation is independently prepared by the student under the guidance of a Supervisory Committee, chaired by a Promoter, and assisted by two (2) or more Co-promoters from various fields of expertise necessary to achieve the learning outcomes of the Doctoral education program.
2. The Promoter must hold a functional position as a Professor or at least an Associate Professor and possess a Doctorate in a field of study or a sub-discipline relevant to the Study Program in which the student is enrolled.
3. The Promoter must have produced at least two (2) scientific articles published in indexed/reputable international journals with an impact factor of at least 0.1 or equivalent, either as the first author or corresponding author.
4. Co-promoters from within the University must hold a functional position of at least an Assistant Professor and possess a Doctorate in a field of study or a sub-discipline relevant to the Study Program in which the student is enrolled.
5. Co-promoters from outside the University must hold a functional position as a Professor or at least an Associate Professor and possess a Doctorate in a field of study or a sub-discipline relevant to the Study Program in which the student is enrolled.
6. Co-promoters from outside the University must have produced at least two (2) scientific articles published in indexed/reputable international journals with an SJR of at least 0.1, either as the first author or corresponding author.
7. The Supervisory Committee is appointed by the Dean upon the recommendation of the Head of the Study Program.
8. Further provisions regarding the qualifications, appointment procedures, rights, and obligations of the Supervisory Committee are regulated by the Study Program.

Article 52

Dissertation Proposal Examination

1. The Dissertation Proposal Examination is conducted by the Department to evaluate the scientific merit of the dissertation research proposal submitted by the student, which has been approved by the Supervisory Committee.
2. The Dissertation Proposal Examination must be conducted no later than the 8th semester.
3. The Dissertation Proposal Examination is arranged based on the Promoter's recommendation to the Head of the Study Program and a copy is made to be submitted to the Head of the Department. Based on this recommendation, the Head of the Study Program appoints two (2) additional examiners outside of the Supervisory Committee. The Head of the Study Program then organizes the examination, including scheduling, venue, and the dissertation proposal document.
4. The Dissertation Proposal Examination is chaired by the Promoter. If the Promoter is unable to attend, the Promoter may delegate one of the Co-promoters to chair the examination. The examination can be conducted if attended by at least two (2) members of the Supervisory Committee and two (2) additional examiners.
5. The Dissertation Proposal Examination lasts 90–120 minutes and involves the presentation of the dissertation proposal document. The examination cannot be conducted outside the official examination forum.
6. The evaluation of the Dissertation Proposal Examination includes the research background, research problem, concepts to address the research problem, research methodology, literature analysis, and the student's comprehensive ability to present and defend the research proposal. The evaluation is recorded on an assessment form with weights as stipulated by the Study Program.
7. The passing grade for the Dissertation Proposal Examination is a minimum of B. If the grade is below this threshold, the student must retake the Dissertation Proposal Examination within a maximum of 2 months after the first examination. If the student fails again, the Supervisory Committee assigns special tasks to improve the research proposal and the student's academic abilities. The student is then given the opportunity to retake the Dissertation Proposal Examination in the following semester.
8. Students who pass the Dissertation Proposal Examination are required to promptly revise their research proposal according to the suggestions from the Examination Committee while consulting with the Supervisory Committee. The revised dissertation proposal, once approved by the Supervisory Committee, is validated by the Head of the Study Program as the official dissertation proposal. The student can then proceed with the research and subsequent activities towards the completion of their dissertation.

Article 53

Conducting Research for Dissertation

1. The implementation of research constitutes the execution of the activities planned in the dissertation proposal, which has been approved in the Dissertation Proposal Examination and validated by the Dean.
2. Research may be conducted in regions/areas selected according to the research objectives and approved by the Supervisory Committee. The research implementation must be supervised by the Chair of the Supervisory Committee or their representative, following the procedures stipulated in the Dean's Decree on Research Supervision by the Supervisory Committee.
3. Students are required to use and fill out the Research Control Card (KKP) and/or the Dissertation Research Logbook, as well as the Dissertation Research Progress Report (LKP), to document their research process/activities, monitor research progress, and serve as a communication tool with the Supervisory Committee. The minimum content requirements for the KKP and LKP are outlined in the Universitas Brawijaya Educational Guidelines for the Academic Year 2022-2023.
4. Students who have completed their research are subsequently required to prepare the dissertation manuscript and a draft of the scientific publication in accordance with Rector Regulation Number 52 of 2018. Both documents must then be reviewed in a Supervisory Committee Meeting before the Dissertation Results Seminar is conducted.

Article 54

Dissertation Results Seminar

1. The Dissertation Results Seminar is a mandatory academic activity for Doctoral program students who have completed their research, have a dissertation manuscript approved by the Supervisory Committee, and have at least a draft of a scientific publication, as well as have fulfilled all administrative requirements according to the applicable regulations.
2. The Dissertation Results Seminar is conducted based on a proposal by the Promoter to the Head of the Study Program, with a copy submitted to the Head of the Department. Based on this proposal, the Head of the Study Program appoints three additional examiners from outside the Supervisory Committee. The Head of the Study Program then processes the seminar organization and invites the Examination Committee, including the schedule, venue for the seminar, the dissertation manuscript, and the draft scientific publication.
3. The Dissertation Results Seminar is chaired by the Promoter; if the Promoter is unable to attend for any reason, the Promoter may assign one of the Co-promoters to chair the seminar. The seminar can be conducted if attended by at least two members of the Supervisory Committee and two examiners.

4. The Dissertation Results Seminar is held for 90-120 minutes, focusing on the dissertation manuscript and the draft scientific publication. The seminar cannot be conducted outside the official seminar forum.
5. The assessment components include the dissertation manuscript, the draft scientific publication, the presentation during the seminar, and the discussion throughout the seminar. The assessment is recorded on an evaluation form with weightings as determined by the Study Program.
6. The passing grade for the Dissertation Results Seminar is a minimum of B. If the grade is below this, the student must repeat the Dissertation Results Seminar within a maximum of two months after the first seminar. If the student fails again in this repeat seminar, the Supervisory Committee will assign special tasks to improve the research proposal and the student's academic abilities. The student will still have the opportunity to conduct the Dissertation Results Seminar in the following semester.
7. Students who have passed the Dissertation Results Seminar must immediately revise their research according to the suggestions from the Examination Committee while consulting with the Supervisory Committee. The dissertation manuscript approved by the Supervisory Committee is validated by the Head of the Study Program as the final dissertation manuscript. Subsequently, the student can proceed with the next steps towards completing their dissertation.

Article 55

Closed Dissertation Defense

1. The Closed Dissertation Defense is a mandatory examination for Doctoral program students who have completed their research, revised their dissertation manuscript based on the suggestions from the Dissertation Results Seminar Examination Committee, and obtained approval from the Supervisory Committee. Additionally, the students must have at least two scientific publications from their dissertation research that have been published or accepted for publication in accordance with Rector's Regulation No. 52 of 2018.
2. The Closed Dissertation Defense is conducted based on a proposal by the Promoter to the Head of the Study Program, with a copy to the Head of the Department. The Dean, based on the proposal from the Head of the Department, appoints the Closed Dissertation defense Committee, which consists of the Supervisory Committee, two examiners, and one reviewer. The Head of the Study Program coordinates the examination arrangements and invites the Closed Dissertation Examination Committee according to the established schedule and venue.
3. The Closed Dissertation Defense can be held if attended by at least the Promoter, one Co-promoter, two examiners, and one reviewer.
4. The Closed Dissertation Defense lasts 90-120 minutes and focuses on the dissertation manuscript. The examination cannot be conducted outside the official examination forum.
5. The assessment components of the Closed Dissertation Defense include:

- a. The contribution of the research results to the advancement of science and technology and development,
 - b. Mastery of research methods,
 - c. Mastery of the subject matter,
 - d. The candidate's ability to present scientific arguments,
 - e. The quality of the dissertation manuscript as an academic scientific doctoral work.
6. The Final Grade of the Closed Dissertation Defense is determined through deliberation based on the assessments provided by all members of the Closed Dissertation Defense Committee. The results are then announced directly to the student after the deliberation. The Final Grade of the Closed Dissertation Defense includes various assessment components from previous activities:
- a. The assessment results of the Dissertation Proposal,
 - b. The assessment of the dissertation research implementation,
 - c. Journal articles and the dissertation results seminar,
 - d. The assessment results of the Closed Dissertation Defense.
7. The passing grade for the Closed Dissertation Examination is a minimum of B. If the grade is below this, the student must retake the Closed Dissertation Defense within a maximum of two months after the first examination. If the student fails again in the retake, the Supervisory Committee assigns special tasks to improve the dissertation manuscript and the student's academic abilities before proposing another retake. If the student fails again in the second retake, they are deemed unfit to complete the Doctoral program and are declared to have dropped out.
8. Students who have passed the Closed Dissertation Examination must immediately revise their dissertation manuscript according to the suggestions from the Closed Dissertation Examination Committee. The revised manuscript, approved by all examiners and the Supervisory Committee, is then duplicated as needed. After manuscript validation by the Head of the Study Program/Department, the student is eligible to propose taking the Open Dissertation Defense.
9. The Promoter may propose to the Dean that the student be awarded an A grade for the dissertation without a Closed Dissertation Defense if the following conditions are met:
- a. At least two scientific articles have been published or accepted for publication in international scientific journals indexed by Scopus or Web of Science Core Collection (Thomson Reuters) with a minimum quality of Q3, and/or with a minimum impact factor of 0.1;
 - b. An average grade of A in all stages of the dissertation examinations/seminars; and
 - c. The dissertation manuscript has been evaluated and approved by the Supervisory Committee and disseminated in an academic forum at the Faculty.

Article 56

Open Dissertation Defense

1. The Open Dissertation Defense is a mandatory examination for Doctoral program students who have completed their research, passed the Closed Dissertation Defense, been declared free of plagiarism for their dissertation manuscript, and fulfilled all applicable administrative requirements. The Open Dissertation Examination is organized by the Department to comprehensively and publicly assess the candidate's abilities in the presence of academic peers and other invited parties.
2. The Open Dissertation Defense is conducted no sooner than one month and no later than six months after the Closed Dissertation Defense.
3. The purpose of the Open Dissertation Defense is to provide an overview of the Doctoral program's quality at the Faculty in terms of academic quality, graduate quality, assessment objectivity, and the contribution of dissertation research to the advancement of science and technology, societal development, the nation, and the Republic of Indonesia, as well as humanity universally.
4. The Open Dissertation Defense is conducted based on a proposal by the Promoter to the Head of the Study Program, with a copy addressed to the Head of the Department. The Dean, based on the proposal from the Head of the Department, appoints the Open Dissertation Defense Committee, which consists of the Chairperson (Dean or appointed faculty member); Promoter (one person); Co-promoters (two persons); Examiners (two to three persons); and an External Examiner (one person), who is an expert from outside the University with expertise relevant to the dissertation content. The External Examiner is proposed by the Promoter to the Head of the Study Program and appointed by the Dean's Decree.
5. The Open Dissertation Defense can be held if attended by at least the Promoter, one Co-promoter, two Examiners, and one External Examiner.
6. The Open Dissertation Defense lasts 120-150 minutes, focusing on the dissertation manuscript. The defense cannot be conducted outside the official examination forum.
7. The assessment components of the Open Dissertation Defense emphasize evaluating the candidate's performance as a Doctor, including:
 - a. The candidate's ability to present their research findings,
 - b. The ability to communicate scientific arguments in defending the dissertation,
 - c. Mastery of research methods,
 - d. Mastery of related subject matter,
 - e. Novelty of the research,
 - f. Contribution of the research findings to the advancement of science and technology and development.
8. The Final Grade of the Open Dissertation Defense is determined through deliberation based on the assessments provided by all members of the Open Dissertation Defense Committee. The results are then announced directly to the candidate after the deliberation.
9. The passing grade for the Open Dissertation Defense is a minimum of B. If the grade is below this, the candidate must retake the Closed Dissertation Defense within a maximum of two months after the first examination. If the candidate fails again in the retake, the Supervisory Committee assigns special tasks to improve the dissertation manuscript and the candidate's

academic abilities before proposing another retake. If the candidate fails again in the second retake, they are deemed unfit to complete the Doctoral program and are declared to have dropped out.

10. Students who have passed the Open Dissertation Defense must immediately revise their dissertation manuscript according to the suggestions from the Open Dissertation Examination Committee. The revised manuscript, approved by all examiners and the Supervisory Committee, is then duplicated as needed. After being validated by the Head of the Study Program/Department, the student is eligible to propose graduation.

CHAPTER IX CLOSING

Article 57

1. The regulations set forth in this Education Guidelines are binding and must be adhered to by the academic community within the Faculty.
2. Any other regulations and provisions not included herein shall be further stipulated by the Faculty, provided they do not conflict with these Regulations.