

STUDENT HANDBOOK



UNIVERSITY OF NUSA CENDANA

2023

FOREWORD

We thank to the God Almighty for His blessings and gifts so that the Student Handbook of the Master environmental Science, Postgraduate Program, University of Nusa Cendana (UNDANA) has been completed. As the name implies, this book is structured to guide students in undergoing lectures in Master environmental Program Study.

This book also aims to introduce students to various organizations, activities, and facilities available at University of Nusa Cendana . Thus, students can develop themselves optimally when pursuing a Master environmental Program Study at Nusa Cendana Student. The study Program of environmental Science Nusa Cendana University based on the Rector's Regulation Number 5 Year 2021 of the University of Nusa Cendana. Various aspirations for the development and addition of materials have been gathered in line with changes in both internal universities and government regulations in the higher education environment.

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I. INTRODUCTION

Master Program of Environmental Science University Nusa Cendana Uni has grown rapidly over the years. This study program has been supported by lecturers, professors, administration supporting staff, one research centers. Every year, new students enrolled. Numbers of research are also conducted for understanding and solving environmental problems faced by the regional and national community. These researches ranged from the thus providing comprehensive and collaborative approaches in dealing with environmental problems. Continuous research endeavors and highly quality study programs would not have been achieved without distinguished faculty members, visionary leadership and unparalleled network of partners, funding agencies in the alumni.

Environmental Science Study Program, is one of the study programs under the management of the Postgraduate Program, The study program is oriented towards improving the quality of the academic atmosphere to produce quality graduates who are competitive in the global market. In carrying out his duties, the Head of study program is oriented towards the strategic and operational plans of study programs as well as the results of a joint agreement between Postgraduate leaders, study programs, and lecturers

1.1. Vision

Vision of Study Program is to become the organizer of tri dharma higher education with global and competitive insight in the field of natural resources and environmental management based on the semiarid islands

1.2. Mission

Missions of Study Program are to

1. Organize education with high competence and global insight in the field of natural resources and environmental management in the archipelago.
2. Conduct high-quality research in natural resources and environmental management across islands.

3. Devote the results of research in the field of natural resources and environmental management of the area to the community

1.3. Programme Education Objective

Programme Education Objective for Master's Degree of Environmental Science Study Program are:

1. Producing graduates who can design, carry out education, evaluate and make decisions in the field of natural resource management and the dryland environment of the archipelago, which is reflected through the following qualifications are:
 - a. Able to integrate science in collecting, processing and interpreting data as a basis for decision making related to strategic efforts to manage natural resources and the environment.
 - b. Able to master the basics of environmental science.
 - c. Able to master the basics of environmental planning and management.
 - d. Able to act as a planner in natural resources and environmental management.
 - e. Able to play a role as a manager of natural resources and the environment.
 - f. Able to act as an innovator, motivator, and mediator in natural resources and environmental management and solving environmental problems.
 - g. Able to design, create and apply models of planning and management of natural resources and the environment
2. Designing and carrying out research on natural resource management and the dryland environment of the archipelago and communicating it in the scientific forums.
3. Conducting community service in applying environmentally sound science and technology to support sustainable development in the dry land of the archipelago.

1.4. Qualification Profile

Qualification Profile (QP) of Master's degree in Environmental Science can be seen in Table 1

Table 1 The Qualification Profile

No.	Qualification Profile	Description
1	Environmental Educator or Instructor	Able to conduct education, management and protection in environmental activities
2	Researcher	Able to conduct research on the Environment and draw conclusions holistically to compile environmental mitigation efforts
3	Environmental Expert	Able to provide recommendations and analyze related to environmental management and protection
4	Entrepreneur	Able to apply science and technology in the use of the environment to open jobs independently
5	Environmental Consultant	Able to review and compile Environmental documents
6	Environmental Technocrat	Able to supervise, restore, make environmental instruments

1.5. Programme Learning Outcomes

Programme Learning Outcomes (PLOs) of Master degree of Environmental Science (Table 2)

Table 2. The Programme Learning Outcome (PLO)

Area	Code	Description
Attitude	PLO 1	Able to communicate complex environmental issues and research findings to a wide range of audiences, including policy makers, scientists, and the public.
	PLO 2	Able to comply with ethical and professional standards in their research and practice, and able to identify and address ethical dilemmas that may arise in their work.

Knowledge	PLO 3	Able to understand in depth the physical, chemical, and biological systems that support the environment. This includes knowledge of ecosystem dynamics, climate change, pollution, and natural resource management.
	PLO 4	Able to understand holistically about environmental laws and regulations at local, national, and international levels, and be able to apply this knowledge in their work
	PLO 5	Able to be aware of the social and cultural factors that influence environmental issues and be able to work effectively with diverse communities and stakeholders.
	PLO 6	Able to learn for life and can keep up with the latest developments in environmental science and policy
General Skills	PLO 7	Able to work independently and as part of a team, collaborating with others to achieve common goals
	PLO 8	have the necessary skills to manage data, convey information in the field of Environmental Science, and provide alternative solutions when needed
Specific skills	PLO 9	Able to design and implement environmental research projects, collect and analyze data, and interpret results to make evidence-based decisions
	PLO 10	Able to develop and implement environmental policies and strategies that address complex environmental challenges and promote sustainable development.

	PLO 11	Able to analyze and evaluate environmental problems and develop creative solutions to overcome such problems.
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II. CURRICULUM

The Study Program Curriculum is developed based on and by considering university vision and missions, vision, missions, objectives, and PLO of environmental Science Program study, the applicable laws and regulations, namely the Republic of Indonesia Presidential Regulation Number 8 Year 2012 on the Indonesian National Qualification Framework (NQF), Evaluation of the previous curriculum, relevance to the needs of stakeholders, input from lecturers, students, alumni, and alumni users.

2.1. Curriculum Structure

No	Type of Course	Total course	Credit unit	ECTS
1	Fundamental Courses	2	6	9.6
2	Compulsory Courses	7	22	35.2
3	Elective Courses	4	12	19.2
4	Final Project	2	7	15.4
Total		15	47	79.4

2.2.Course Distribution

Type of Courses	Code	Course	CU	ECTS
SEMESTER I				
Fundamental course	IPSAL61301	Statistical analysis	3	4.8
	IPSAL 61202	Environmental Science	3	4.8
Compulsory Course	IPSAL 61303	Management of Natural Resources and Environment	3	4.8
	IPSAL 61304	Management of Coastal Areas, Sea and Small Islands	3	4.8
SEMESTER II				
Compulsory Course	IPSAL 62305	Research methodology	3	4.8
	IPSAL 62206	Environmental Population and Development	3	4.8
	IPSAL 62207	Human Ecology	3	4.8
	IPSAL 62208	Environmental Planning and administration	3	4.8
Elective courses				
<i>Conservation of Natural Resources and Environment</i>	IPSAL 62309	Principles and Techniques of Inventorying Natural Resources and the Environment	3	4.8

<i>Natural Resources and Environmental Planning</i>	IPSAL62310	Regional and Spatial planning Environment	3	4.8
<i>Watershed</i>	IPSAL62311	Land use planning and management	3	4.8
<i>Climate Change and Adaptation</i>	IPSAL62312	Climate Change, Adaptation and Mitigation	3	4.8
Total				
SEMESTER III				
Compulsory Course	IPSAL 63313	Environmental Impact Analysis	3	4.8
	IPSAL 63214	Principles of Environmental Degradation and Pollution	3	4.8
Elective courses				
Conservation of Natural Resources and Environment	IPSAL 63315	Biodiversity	3	4.8
	IPSAL 63316	Conservation Management	3	4.8
Natural Resources and Environmental Planning	IPSAL 63317	Environmental Law	3	4.8
	IPSAL 63318	Environmental Economics	3	4.8
Watershed	IPSAL 63319	Remote Sensing	3	4.8
	IPSAL 63220	Natural Resources Management and Irrigation	3	4.8
Climate change and Adaptation	IPSAL 63221	Environmental Markets and Finance	3	4.8
	IPSAL 63222	Climate change policy	3	4.8

	IPSAL 63223	Community Empowerment in Environmental Management	3	4.8
SEMESTER IV				
Final Project	PPs 601	Colloquium	1	1.6
	PPs 699	Thesis	6	13.8

Note: sum of elective course taken by student is 47 CU (75.2 ECTS)

III. ACADEMIC INFORMATION

3.1. General Requirement

Applicants who can be accepted as students of the Environmental Studies Postgraduate Program are those who have a Bachelor Diploma (S1), Indonesian Citizens (WNI) or Foreign Citizens (WNA) who have obtained licenses according to applicable regulations

3.2. Selection

The policy for recruiting new prospective students, the criteria for prospective new students and the decision-making system and procedures for admitting new students refer to the Student Code of Conduct Academic Implementation Manual issued by the 2018 Nusa Cendana University Postgraduate Program. The policy for recruiting new prospective students in the Masters Program (S2)) Environmental Science is carried out through a new student selection mechanism that has been established by the Postgraduate Program of Nusa Cendana University. New student recruitment is preceded by announcements of new student admissions through print media and social media.

The selection process for new students is carried out in two stages, namely (1) administrative selection and (2) entrance exam selection. Requirements and criteria that must be met in the administrative selection process for the Study Program include:

1. Copies of undergraduate diplomas and grade transcripts approved by the dean or faculty leader, high school head, or authorized higher education official
2. The cumulative grade point average (GPA) for a bachelor's degree is at least 2.75
3. Health certificate from a government doctor
4. Certificate of good behavior from the police (especially for prospective students who have not worked)
5. Letter of ability to pay tuition fees
6. Have registered to take the test by attaching proof of registration payment from the committee
7. Color and black and white photographs measuring 3 x 4 cm, four sheets each.
8. Term of references of research which deals with the title, background of the problem, objectives and uses, literature review, methods, and references

Material used for entrancing new student selection include:

- a. Academic Potential Test (TPA)
- b. English Test

3.3.Registration

Registration system for Environmental Science student through 3 (three) ways:

1. Regular

For applicants who have their own tuition fees, who get scholarships from their own institutions.

2. International

For applicants from foreign countries whose tuition fees are paid by themselves or get scholarships from their countries

The registration time for prospective students of the Environmental Science Master program starts from June to July in odd semesters, and December to January in even semesters

3.4. Re-registration

It is compulsory for students to re-register for their courses at the beginning of the semester. The registration for the following semester will be conducted at the end of each semester. All students must re-register in July and December each year. The date of payment of tuition fees is submitted in the academic calendar on the university website. It is the student's responsibility to pay the fee and complete the registration by the set date. If the fee remains unpaid, the student will be considered an inactive student

3.5. Course Duration and System

Post Graduate Program of Master student in Environmental study Nusa Cendana University takes two years divided into four semesters. The academic year begins in July.

3.6. Semester Credit System

The credit system is the administration of education by stating the burden of student studies, the workload of teaching staff, and the burden of administering educational institutions in

the form of credit. By using this system, each student can design a way to meet the entire burden of his studies by considering his abilities, talents, and interests.

Semester is a unit of effective learning process time of 16 (sixteen) weeks excluding the final semester exam. According to the Rector's Regulation of Universitas Nusa Cendana. An academic year is held for two semesters, namely odd semester, started uly to December of the following year, and Even semester commenced January to June of the current year.

The allocation of time required to conduct educational activities of one credit per week is as follows

Learning Types	Time Allocation 1 credits in 1 week
Theory (Lecture), tutorial	50 minutes of face-to-face learning 60 minutes structured learning assignment 60 minutes of independent learning
Final Task	170 minutes (including writing of proposal and report)

3.7. Study Load

Graduate Program of Master Student is scheduled to complete within 24 months (about 2 years) or four 4 semesters. The total number of study loads is 47 SCU or 75.2 ECTS, consisting of 40 credits or 46 ECTS of lecturers and 7 credits or 11.2 ECTS of final task (colloquium and theses).

3.8. Course

a. Study Plan Card

After re-registration, the student will be given a registration sheet and Study Plan Card by Siadiknona Application. The procedures of filling Study Plan Card are as follows:

- 1). Study Plan Card is filled one week prior to each semester academic activities
- 2). Study Plan Card is declared valid if the student concerned can show proof of re-registration.

b. Final Examination

The following criteria must be met in order to take the final examination:

- a) Registered for the course
- b) Fulfilled the minimum attendance requirement (12 times)
- c) Settled the outstanding tuition fees

The final examination timetable is planned in accordance with the approved Academic Calendar. Students who are absent during the final examination without a valid reason (to be determined by university) will obtain a 'F' grade for the course(s) involved

c. Study Leave and Temporary Termination

Temporary cessation of studies (academic leave) with the permission of the UNDANA Rector based on the suggestion of the Director of the Postgraduate Program. Academic leave is only allowed for 1 (one) semester.

d. Assessment Standard

Students are assessed throughout the semesters via coursework and/or the final examinations. Coursework comprises of tests, assignments, oral presentations, projects and others as specified by the lecturer. Final examination is a written test that held at the end of the course of study.

3.9 Graduation Requirements

In order to graduate with the Master environmental Science student are required to obtain a 47 credit unit and a minimum GPA of 3.00.

IV. STAFF

No.	Name	Academic position	Expertise
1	Prof. Ir Fredrik L. Benu., MSi., PhD	Professor	Economic valuation, Socio Economics of Agriculture
2	Ir. Marthen R. Pellokila, MSi., PhD	Senior Lecturer	Agribusiness, Socio Economics of Agriculture
3	Dr. Ir. Ruslan Ramang, M.Si	Senior Lecturer	Environmental Technology and Management
4	Dr. Ir. Anthonius. S. J. Adu Tae, MP	Senior Lecturer	Soil Science
5	Dr. Ir. Ludji Michael Riwu Kaho	Senior Lecturer	Forest Protection
6	Prof. Drs. Mangadas Lumban Gaol, M.Si., Ph.D	Professor	Environmental Ecology
7	Prof. Dr. Jimmy Pello, S.H., M.S	Professor	Environmental Law
8	Ir. I N. Prijo Soetedjo, M.S., Ph.D	Senior Lecturer	Land Ecology
9	Dr. Herry Z. Kotta, S. T., M. T	Senior Lecturer	Environmental Engineering
10	Dr. Ir. Yahyah, M. Si.	Senior Lecturer	Marine Technology
11	Ir. I Wayan Mudita, M. Sc., Ph.D	Senior Lecturer	Plant Biosecurity, Crop Protection, Environmental Science
12	Dr. Jakobus J.Messakh, S.T., M.Si	Senior Lecturer	Irrigation Engineering, Water Resource Management, Water Supply
13	Dr. Ir. Blajan Konradus, M. Ec	Senior Lecturer	Sociology and Antropology
14	Dr. Suwari, S.Pd., M. Si.	Senior Lecturer	Environmental Chemistry
15	Prof. Philipi de Rozari, S.Si., M.Si., M.Sc., Ph.D	Professor	Environmental Chemistry, Water Quality Management, Wastewater Treatment, Constructed Wetlands
16	Dr. Chaterina A. Paulus, S.Pi, M.Si	Senior Lecturer	Marine Management
17	Prof. Dr. Denik Sri Krisnayanti, S.T, M.T	Professor	Water Resources

