

ELECTIVE COURSES

2 CREDITS EACH

- A. CONCENTRATION OF ENVIRONMENTAL PLANNING
 - Infrastructure Development and environmental GIS
 - Technology and Energy Management Planning
 - Population Environment and Natural Resources
 - Community Development Planning
- B. CONCENTRATION OF ENVIRONMENTAL ENGINEERING
 - Clean Technology
 - Disaster Management
 - Mass Transfer and Transformation
 - Hydroclimatology
- C. CONCENTRATION OF ENVIRONMENTAL MANAGEMENT
 - Clean Technology
 - Environmental Chemistry and Biology
 - Solid and B3 Waste Management
 - Hydroclimatology

FREE CHOICE

2 CREDITS EACH

Population, Environment and Natural Resources
 Infrastructure Development and Environmental GIS
 Technology and Energy Management Planning
 Disaster Management Planning
 Transportation and Environment
 Coastal and Marine Environmental Management
 Eco-efficiency and Sustainable Development
 Public Decision Making
 Environmental Hazard and Risk Analysis Analysis
 Clean Water Management
 Waste Management Infrastructure Management
 Clean Technology
 Wastewater Management
 Hazardous Waste and Hospital Waste Management Limbah
 Noise and Vibration Control
 Environmental Sanitation and Health
 Environmental Toxicology and Epidemiology
 Community Development Planning
 Environmental Mediation and Negotiations
 Environmental Psychology
 Disaster Management
 International Standards for Disaster Management
 Community Based Disaster Risk Reduction
 Disaster Risk Analysis
 Evacuation Management
 Early Warning System
 Mass Transfer and Transformation
 Regional Planning and infrastructure
 Environmental Chemistry and Biology
 Development of Food and Environmental Technology
 Hydroclimatology

Registration Fee

- | | |
|---------------------|-----------------------------|
| 1. Registration | : IDR 750.000,- |
| 2. Attributes | : IDR 285,000,- |
| 3. Matriculation | : IDR 3,500,000,- |
| 4. Postgraduate SBP | : IDR 8,000,000 |
| 5. Tuition Fee | : IDR 9,000,000,-/ Semester |

Excluding the cost of Research/Thesis Compilation, Job Lecture Field, Improvement of English Language Skills (TOEFL), Book Fee and Graduation Fee

Participants Requirements

The Environmental Science Masters Study Program is a multi entries. Prospective students who have various Bachelor (S1) diplomas in the field of science with a minimum GPA (GPA) of 2.75 or has worked in fields related to the environment, with registration procedures as follows :

1. Submit the registration form, attached with:
 - a. Two legalized copies of S1 diploma
 - b. Two legalized sheets of academic archives
 - c. 4 pieces of 3x4 passport photos and 2 colored 4X6 sheets (red base)
 - d. Two pieces of recommendation letters (former lecturer/S1 supervisor) or direct supervisor
 - e. Written permission from the leadership for those who have worked
 - f. Certificate of study guarantee from parent/sponsor
2. Online Registration : www.pendaftaran.undip.ac.id

Manager

Dr. Eng. Maryono, S.T., M.T. (Program Head)

Teaching Staff

- | | |
|---|---|
| Prof. Drs. Sudharto P Hadi, MES, Ph.D. | Dr. Rini Budihastuti, M.Si. |
| Prof. Dr. Ir. Purwanto, DEA | Dr. Kismartini, M.Si. |
| Prof. Dr. Ir. Azis Nur Bambang, M.S. | Dr. Hartuti Purnaweni, MPA |
| Prof. Dr. Ir. Sutrisno Anggoro, M.S. | Dr. Ir. Setia Budi Sasongko, DEA. |
| Prof. Dr. Tri Retnaningsih, M.App.Sc. | Dr. Fuad Muhammad, S.Si., M.Si. |
| Prof. Ir Didi Dwi Anggoro, M.Eng., PhD | Dr. Ing. Sudarno, S.T., M.Sc. |
| Prof. Dr. rer. nat. Imam Buchori, S.T. | Dr. Jafron Wasiq Hidayat, M.Sc. |
| Prof. Dr Istadi, ST, MT | Dr. Eng. Maryono, S.T., M.T |
| Prof. Dr. Denny Nugroho, S.T., M.Si. | Dr. Budi Warsito, S.Si., M.Si.; |
| Prof Dr rer.nat Heru Susanto, ST, MM. MT | Dr. Ing. Suherman, S.T., M.T. |
| Prof. Dr. Ir. Hadiyanto, S.T., M.Sc., IPU | Mochamad Arief Budihardjo, S.T., M.Eng., |
| Prof. Dr. Dra. Sunarsih, M.Si. | Env.Eng., Ph.D |
| Dr Ir Hermawan, DEA | Dr. rer. nat. Thomas Triadi, S.T., M.Eng. |



Master

ENVIRONMENTAL SCIENCE

SCHOOL OF POSTGRADUATE

Diponegoro University

(+6224) 84 53 635 0811 2793635 mil@live.undip.ac.id www.mil.undip.ac.id

SECRETARIAT:

Building 4th Floor School of Postgraduate Undip
 5 Imam Bardjo, SH street Semarang 50241

Preliminary

Formal awareness of the need for environmental management in Indonesia has begun with the enactment of Law no. 4 of 1982 concerning Principles of Environmental Management, which was revised by Law no. 23 of 1997 concerning Environmental Management, and later with Law no. 32 of 2009 concerning Environmental Protection and Management. The environment is increasingly becoming an important issue in the era of globalization, free trade and the implementation of regional autonomy. Besides that, many disasters such as floods, landslides, droughts, make the environment a central issue in development.

To anticipate the above phenomena, education is needed that instills insight and ability in managing the environment. Since 2000, the Postgraduate School of Diponegoro University has held a Master Program (S2) in Environmental Science with a concentration on "Environmental Planning", "Environmental Engineering" and "Environmental Management". This program is accredited A (Superior) 4 times in a row in accordance with BAN-PT Decree No. 007/BAN-PT/Ak-IV/S2/VI/2005, No. 004/BAN-PT/Ak-VIII/S2/VI/2010, No. 973/SK/BAN-PT/Akred/M/IX/2015 dan No. 5245/SK/BAN-PT/Ak-PPI/M/IX/2020

Graduate Profile

The Environmental Science Masters Program at Diponegoro University aims to produce environmental practitioners (consultants, educators and policy makers) based on environmental planning, management and engineering.

Learning Achievement

1. Able to formulate environmental management theory
2. Able to formulate and carry out scientific research to solve environmental problems
3. Able to formulate environmental management policies
4. Able to formulate rules, methods and thoughts of environmental management to improve the quality of life, and save them in the form of theses, national and international journals or in the form of proceedings of reputable seminars

Graduate Degree

Graduates of the Environmental Master's degree program (M.Ling)

Environmental Science Journal

The Environmental Science Masters Study Program publishes the Environmental Science Journal (ISSN1829-8907) accredited by Dikti (2017) & indexed by DOAJ as a publication medium for lecturers, researchers and environmentalists.

<https://ejournal.undip.ac.id/index.php/ilmulingkungan>

Length of Study & Credit Load

The Environmental Science Masters Program organizes an educational program of 4 (four) semesters (24 months) with a load of min. 41 credits

Schedule Registration & Lecture

Freshment course materials include: Test materials include:
 - Basics of Environmental Science - Academic Potential Test (TPA)
 - Environmental Dimensions - English
 Development - Basic 2 Quantitative Methods

	Even semester	Odd Semester
Registration & Test	Sept - Dec	March - June
Announcement	January	July
Matriculation	February	August
Lecture	March	September

Class Time:

Lectures are held on: Monday-Friday: At 8.00 -21.00 WIB

Field of Consentration

The Environmental Science Masters Program has three areas of concentration, namely:

1. ENVIRONMENTAL PLANNING

Produce graduates who are able to analyze environmental conditions, propose alternative environmental policies and conduct environmental implementation studies and evaluations

2. ENVIRONMENTAL ENGINEERING

Produce graduates who are able to solve environmental problems with a technical engineering approach

3. ENVIRONMENTAL MANAGEMENT

Produce graduates who are able to solve problems of environmental pollution/damage with a management approach

4. DISASTER MANAGEMENT

Produce graduates who are able to analyze Migration and Disaster adaptation

Courses By Research

COURSES (REQUIRED)	R
SEMESTER I	
Philosophy of Science and Research Methodology	3
Research Proposal I	3
Research Proposal II	3
Research I	5
TOTAL CREDITS OF SEMESTER I	14
SEMESTER II	R
Research II	6
Research Publications	7
TOTAL CREDITS OF SEMESTER II	13
SEMESTER III	R
Research Evaluation I	3
Research Evaluation II	3
Research Seminar	3
TOTAL CREDITS OF SEMESTER III	9
SEMESTER IV	R
Thesis	6
JUMLAH SKS SEMESTER IV	6

Courses By Course

COURSES	Credits			
SEMESTER I	PL	RL	ML	MB
Philosophy of Science and Research Methodology	3	3	3	3
Environmental Economics and Natural Resources	3	3	3	3
Environmental Statistics	2	2	2	2
Ecology and Environmental Science	3	3	3	3
Computer Applications and Environmental Modeling	3	3	3	3
TOTAL CREDITS OF SEMESTER I	14	14	14	14
SEMESTER II	PL	RL	ML	MB
Environmental Law and Policy	2	2	2	2
Environmental Impact Analysis	3	3	3	3
Environmental and Disaster Risk				2
Environmental Planning Theories	3			
Natural Resources and Environment Conservation		3	3	
Disaster Mitigation and Adaptation				3
Spatial Planning and Environment	2			
Environmental System Analysis		2		
Environmental Pollution Control			2	
Disaster Management Strategy				2
Elective Course I	2	2	2	2
Elective Course II	2	2	2	2
TOTAL CREDITS OF SEMESTER II	14	14	14	14
SEMESTER III	PL	RL	ML	MB
Capita Selecta	2	2	2	2
Job training	1	1	1	1
Thesis proposal	2	2	2	2
Seminar and Thesis Publication	2	2	2	2
SEMESTER IV	PL	RL	ML	MB
Thesis	6	6	6	6
TOTAL CREDITS OF SEMESTER IV	6	6	6	6

*) discussion of current environmental issues

PL : ENVIRONMENTAL PLANNING ML : ENVIRONMENTAL
 RL : ENVIRONMENTAL ENGINEERING MANAGEMENT
 MB : DISASTER MANAGEMENT

Fasilitas

Educational facilities include adequate lecture halls, with supporting facilities from various laboratories:

- Basic Chemistry, Coastal Development, Radioecology
- Environmental Biology, Biotechnology
- Undip Integrated Lab UPT

Studios :

- Environmental Planning , Environmental Management
- Waste Treatment, Hydrology, Computing

Library :

- Environmental Science Study Program, Postgraduate
- Diponegoro University Central Library, PPLH