

## Elective course

2 CREDITS EACH

Green Infrastructure Development  
Environmental GIS  
Technology and Energy Management Planning  
Population Environment and Natural Resources  
Community Development Planning  
Clean Technology  
Disaster Management  
Mass Transfer and Transformation  
Hydroclimatology  
Clean Technology  
Environmental Chemistry and Biology  
Solid and B3 Waste Management  
Hydroclimatology  
Transportation and Environment  
Coastal and Marine Environmental Management  
Eco-efficiency and Sustainable Development  
Public Decision Making  
Environmental Hazard and Risk Analysis Analisis  
Clean Water Management  
Waste Infrastructure Deveolpment  
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  
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](http://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

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### SECRETARIAT:

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

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 Profil

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 Outcome

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

Matriculation materials include:  
 - Basics of Environmental Science  
 - Environmental Dimensions Development

Test materials include:  
 - Academic Potential Test (TPA)  
 - English  
 - Basic 2 Quantitative Methods

Event	Estimation
Registration & Test	March - June
Announcement	July
Matriculation	August
Lecture	August

## 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
<b>SEMESTER I</b>	
Philosophy of Science and Research Methodology	3
Research Proposal I	3
Research Proposal II	3
Research I	5
<b>TOTAL CREDITS OF SEMESTER I</b>	<b>14</b>
<b>SEMESTER II</b>	
Research II	6
Research Publications	7
<b>TOTAL CREDITS OF SEMESTER II</b>	<b>13</b>
<b>SEMESTER III</b>	
Research Evaluation I	3
Research Evaluation II	3
Research Seminar	3
<b>TOTAL CREDITS OF SEMESTER III</b>	<b>9</b>
<b>SEMESTER IV</b>	
Thesis	6
<b>JUMLAH SKS SEMESTER IV</b>	<b>6</b>

COURSES	Credits			
	PL	RL	ML	MB
<b>SEMESTER I</b>				
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
<b>TOTAL CREDITS OF SEMESTER I</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>SEMESTER II</b>				
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
<b>Spatial Planning and Environment</b>	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
<b>TOTAL CREDITS OF SEMESTER II</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>SEMESTER III</b>				
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
<b>SEMESTER IV</b>				
Thesis	6	6	6	6
<b>TOTAL CREDITS OF SEMESTER IV</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>

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