

**2021 GUIDELINES**



# Undip Scholarships Handbook

**A BRIDGE TO YOUR FUTURE**



**UNIVERSITAS  
DIPONEGORO**



**FIND OUT MORE**



# General Overview

Universitas Diponegoro (UNDIP) is one of the best, foremost and oldest universities in Indonesia. UNDIP has been home for more than 54,000 students and is ranked in the Top Ten National University. The University also gained its reputation worldwide i.e Top 400 THE World University Ranking for SDG's and Top 1000 QS World University Ranking. For the students' achievement, UNDIP is acknowledged as the Best Three for National Rank by QS World Graduate Employability and Universities in Asia by UniRank/4icu.org, respectively. UNDIP aims to become World Class University in which provides excellent education has become one of the main focuses. Undip Scholarships is offered to the international students who want to pursue the Master Program which is taught in English. Upon the study completion, Undip Scholarships Awardees are expected to play an essential role in expanding the international network as well as establishing collaborations back home with UNDIP.

We are offering 16 Master Programs. These study programs are accredited A (Excellent) by the Indonesian Ministry of Education and Culture. We value our students, both home-students and international students, by providing excellent education as well as the best services to foster the learning process. In addition, located in Semarang City has become one of the appealing points for UNDIP as the city itself is well known for its cultural and industrial diversity. This uniqueness allows our students to experience local heritage in their surroundings and also access to our industrial partners for those who want to conduct the internships.



## Why Choose UNDIP?

- Top ten best university across the nation
- Numerous study programs. Undip has 14 IUPs, 52 Undergraduate programs, 19 Master programs, and 14 Doctoral Programs.
- Qualified academic staffs
- Advanced research facilities
- Large student body creates diversity as well as international atmospheres
- Located in Semarang City which is accessible for international flights

# Message from The Rector

Universitas Diponegoro (Undip) was founded in 1957 with a vision to become a leading research university. Undip is ranked in the Best 300 Universities at 2020 QS Asia University Ranking, Best Three Indonesian University Graduate Employability at 2020 QS World Ranking, Top Five in Indonesia for 2021 THE World University Ranking, Top Ten Universities in the 2020 National University Rank and is one of the Best 1000 Universities in the world according to the 2020 QS World University Rankings.

Universitas Diponegoro as one of the best Universities in Indonesia realizes its position to be more active in the global community. In order to achieve its Vision to be World Class Research University, Undip needs to be internationally acknowledged and brings international atmospheres to the students. Starting from this thought, we welcome the best prospective students from around the world who wish to continue their master studies at Universitas Diponegoro through Undip Scholarships, the scholarship program which is designed for international students to broaden their knowledge by experiencing unique academic life here at Undip. Therefore, please be advised that all the programs offered will be delivered in English. We realize that good program will not run well if it is not supported by complete information, and on that note, we present this guidebook to all prospective students, partner universities, and those who need the information in details



Prof. Dr. Yos Johan Utama, SH, M.Hum  
Rector of Universitas Diponegoro



## Scholarship coverage and duration

Undip Scholarships Awardee will receive:

1. Round Trip International Airfare (Economy Class only) and Round Trip Domestic transport from Jakarta (CGK) to Semarang Airport (SRG) for all students. All tickets are issued by Undip
2. Settlement Allowance of IDR 2.500.000,00 paid only once upon arrival in UNDIP
3. Living Allowance IDR 2.500.000,00 per month, please be advised that this amount only sufficient to support one person living properly in Semarang and given only for those who reside in Semarang. Hence, we do not recommend our awardees to bring their family, if awardees insist to bring their family, all expenses belong to the responsibility of the awardees
4. Books Allowance IDR 2.100.000,00 will be paid per semester
5. Health Insurance is provided by Undip (if the cost of medical services exceeded coverage amount, the difference should be borne by the student)
6. Waiver of Tuition Fee
7. The Scholarship will be terminated when the student has finished their study, failed to accomplish minimum grade, or exceeded the study period

## A brief introduction to the program

Undip Scholarships is a financial support offered by UNDIP for International Students to pursue their Master Degree in which offer many programmes both in English and Bahasa Indonesia. The scholarship consists of tuition fee waiver, living allowance (for those who resides in Semarang), health insurance and internet allowance during the COVID-19 pandemic.

## Undip Scholarships Awardees' Responsibilities

Undip Scholarships Awardees Must:

1. Complying with the Indonesian laws and regulations, university's regulations, and other associated regulations;
2. Actively engaging in regular supervisory sessions and other academic-related activities all through the programme to support the study completion;
3. Being punctual and focus to pass all courses offered in their programme to enhance the academic outcome. Periodic assessments will be conducted to evaluate awardees' eligibility to continue the programme;
4. Willing to participate in the academic and non-academic events held by Universitas Diponegoro



# Returning to Home Country

Universitas Diponegoro will provide economy class airline tickets for Undip Scholarships awardees (from ASEAN countries) returning to their home country. However, the provision of the ticket must meet the following conditions:

- Return home after program completion. Awardees must return home countries no later than 30 days after the program ends. Please be advised that a program completion is not necessarily graduation or a commencement ceremony. Return Ticket will be booked by Diponegoro International Office. The student must apply for Exit Permit Only (EPO), as well as book the ticket, by submitting their passport to the International Affairs Office at least 2 weeks prior to departure.
- Return home because fail to complete the program. Awardees must return home immediately (no later than 30 days) after confirmed dropped-out or unable to finish their program due to poor academic performance, law-breaking state of affairs, Chronic or Terminal illness (based on an official diagnose prepared by a certified physician) or misdemeanor.
- Undip will arrange the travel upon the official request from the Dean and approved by Vice-Rector of Academic and Student Affairs; Return Ticket will be booked by Diponegoro International Affairs Office, Upon book a ticket, students must apply for Exit Permit Only (EPO), therefore students must submit their passport to Diponegoro International Office at least 2 weeks prior to departure.

## Temporary Return

- Return home for research or data collection purpose is subject to the university's approval (Supervisor Permission). However, it is encouraged for the awardees to collect the research data remotely or work on distinctive Indonesian research topics.
- Return home when the programme is ongoing due to emergency or personal reasons is subject to the university's approval (Dean Permission). If permitted, the awatrdees may return home for a maximum of 30 days and keep the university updated. Please be advised that failure to report to the university or exceed the permitted leaving period will be considered as resignation from the Undip Scholarships Programme, hence, the scholarship will be terminated;
- All costs related to the temporary return will be borne by the the awardees





## Resigning Policy

Dropping all courses or resigning from the Scholarship programme, students are required to refund the scholarship. If students are considering resigning from Undip Scholarships Programme due to unforeseen circumstances, contact the Diponegoro International Office (DIO) for further assistance

## Rules and Other Restrictions

- The awardees must not commit a felony;
- The awardees must obey the Indonesian Law and Regulations;
- The awardees must obey the University's Rules and Regulations;
- The awardees must not drive motorised vehicles during their stay in Indonesia without an authorized driving license. Any injuries caused by reckless driving or accident will not be covered by the Scholarship;
- Once admitted by one study programme/faculty, transfer to other study programme/faculty is strictly prohibited;
- During Covid-19 Pandemic, students are prohibited to enter Indonesian territory without Universitas Diponegoro permission
- If the awardess failed to achieve CGPA 3.00, the scholarship will be discontinued the scholarship

## Programme Structure

The Programme offers Masters Degrees which are conducted by Coursework or by Research. The scholarship covers a maximum of 4 semesters with a thesis submission and journal publication (at least one scientific article) as the final milestone. The journal publication is expected to be published in national of international reputable journals (preferably indexed by Scopus). The Master Programmes which are offered in Undip Scholarships this year are as follow:

- 1.Master of Chemical Engineering
- 2.Master of Industrial Engineering and Management
- 3.Master of Mechanical Engineering
- 4.Master of Accounting
- 5.Master of Economics
- 6.Master of Management
- 7.Master of Communication
- 8.Master of Business Administration
- 9.Master of Political Science
- 10.Master of Public Administration
- 11.Master of Law
- 12.Master of Linguistics
- 13.Master of Agribusiness
- 14.Master of Epidemiology
- 15.Master of Environmental Engineering
- 16.Master of Environmental Science



# How to apply?

## Step 1 - Choose your program

- Start your fascinating journey at Universitas Diponegoro by choosing the study program you are interested in. Each study program offers wide range of knowledge that you need to pursue your dreamed career. In order to get desired knowledge that suits you, you can visit the website page of each study program to see everything you need to know.
- Go to official website of Universitas Diponegoro's <https://www.undip.ac.id/language/en/home> and click the menu Faculty. This page lists you eleven Faculties and two Schools at Universitas Diponegoro. You can go through the faculty's website to seek the expected study programs

## Step 2 - Review Entry requirements

### General Requirements

After deciding the Study Program, candidates must prepare the documents as required. In general, the Admission Office only assesses application which meets the qualifications as follow:

1. Graduate from reputable universities or institute
2. Holding bachelor certificate (to apply master program)
3. Graduate International Diploma Program (3 years) can still apply if having sufficient credit
4. Passing international education qualifications equivalent to any of the above

### Language Requirements

Universitas Diponegoro has International Undergraduate Programs (IUP) which are taught in English, yet some undergraduate programs are delivered in Bahasa Indonesia/Indonesian (Regular Program). Whatever the program the candidates wish to apply, they must demonstrate excellent skills in English as language requirement. Applicant must have International TOEFL with minimum score of 500 (PBT); 173 (CBT); 60 (iBT); or 5.5 (IELTS). Meanwhile, If candidates wish to apply in regular program, they have to obtain certificate of BIPA level 3 (BIPA is Indonesian Language Preparatory Class for Non-Native Speakers)



### Required Documents Checklist

To apply to the undergraduate programs at Universitas Diponegoro, candidates must submit the documents as listed below:

1. Diploma/Certificate of Graduation or equivalent
2. Academic Transcript
3. Passport
4. English Proficiency Certificate. TOEFL PBT min. score 525 /IELTS min. score 6.0
5. Recent photograph
6. Letter of Recommendation from nearest Indonesian Embassy in the home country

## Step 3 - Submit Your Application

Universitas Diponegoro requires candidates who meet all qualifications to apply online and here are the steps;

1. Create an account You are required to fill the online form, at <https://admission.undip.ac.id/>. Please be informed that all correspondences will go on by email, then you must be used the active email when you create the account
2. Complete your application After you have an account, you are required to choose the study program and upload documents such as Diploma/Certificate of Graduation or equivalent, Academic Transcript, Valid Passport and Certificate of Language Proficiency. All documents must be in PDF format no more than 1000 kb each. Please indicate your scholarship status when you apply by choosing "drop down" menu to choose the scholarship schemes.
3. Submit your application Check once again before you click submit button. Click the submit button when all documents are already attached. Universitas Diponegoro charges no application fee

## Important Date

- Registration Link : **admission.undip.ac.id**
- Registration Period:  
**io.undip.ac.id/undipscholarships**
- Announcement:  
[io.undip.ac.id/undipscholarships](https://io.undip.ac.id/undipscholarships)
- Orientation Day. : to be confirmed
- Class commencement: August 2021

## Important Note

***SUCCESSFUL APPLICATION WILL BE  
ANNOUNCED IN THE EMAIL AND  
UNIVERSITY WEBSITE***





# Master Program in Chemical Engineering

<https://tekim.undip.ac.id/v1/master-of-chemical-engineering-program/>

## Program Description

Master Program of Chemical Engineering Universitas Diponegoro (MPCE-UD) was established in 2005 to prepare highly qualified and competitive graduates to comply the national and international standards. This program was accredited as “A” by the Indonesian National Accreditation Board for Higher Education (BAN-PT) in 2015 and has maintained its status since then. The average study period required by the students is 2 year and 1 months by which their average CGPA is 3.76 out of 4.00. In addition to the regular program, the students are given the opportunity to enroll the Double Degree Program under collaboration with several partnering Universities, i.e. Chung Hsing University Taiwan, Seoul National University (Korea), NTUST Taiwan, and Universiti Teknologi MARA (Malaysia). Most of our graduates have proven their professional services in various fields, such as academia, scientist, researcher, civil servant, manager, consultant, entrepreneur, etc



# Curriculum

No	Course Code	Course Title	Course Description	Credit hours	Odd/Even Semester
1	P-TKM-8-301	Phylosophy of Science and Research Methodology	Students can write a proposal and scientific report that meets scientific principles	3	Odd & Even
2	P-TKM-8-302	Advanced chemical engineering thermodynamics	Students understand equation of state and its applications and phase equilibrium	3	Odd & Even
3	P-TKM-8-303	Advanced Transport Phenomena	Students are able to solve the problem of isothermal viscous fluid flow with two independent variables	3	Odd & Even
4	P-TKM-8-304	Advanced Chemical Reaction Engineering	Students understand the fundamentals of heterogeneous catalytic reaction technology and their applications	3	Odd & Even
5	P-TKM-8-305	Chemical Engineering System Analysis	Students are able to explain alternatives to chemical process system design, variables in chemical process systems and determine the optimum conditions	3	Odd & Even
6	L-TKM-8-201	Energy Planning and Policy	Students are able to analyze the need and availability of national and world energy and to understand social, economic and legal aspects of energy supply and use	2	Odd



No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
7	L-TKM-8-202	Gas Processing Technology	Students understand the process of exploring natural gas from its source	2	Even
8	L-TKM-8-203	Non-renewable Energy Technology	Students understand types and specification of petroleum products and their refinery process	2	Even
9	L-TKM-8-204	Renewable Energy Technology	Students are able to design conversion system and to analyze the feasibility of renewable energy sources	2	Odd
10	L-TKM-8-205	Hydrogen and Fuel Cell Production	Students understand the principle of working, production and storage of hydrogen and its utilization in secondary batteries.	2	Even
11	L-TKM-8-206	Combusting Technology	Students are able to understand the basics of thermochemistry in combustion and its types	2	Odd
12	L-TKM-8-207	Pinch Analysis and Process Integration	Students are able to analyze exergy and calculate the balance	2	Even

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
13	L-TKM-8-208	Food Processing Technology	Students understand the food processing principles using thermal, non-thermal, chemistry, and biology approach	2	Odd
14	L-TKM-8-209	Food Packaging Technology	Students understand to analyze, select and design food packaging	2	Even
15	L-TKM-8-210	Food Biotechnology	Students are able to understand the basics of bioprocess reactions in food processing and to design the bioreactor	2	Odd
16	L-TKM-8-211	Food Safety	Students understand basics of food safety and contamination in food materials and products	2	Even
17	L-TKM-8-212	Food Drying Technology	Students understand the principle of drying  and how to design a drying system	2	Odd
18	L-TKM-8-213	Food Physicochemical Properties	Students are able to predict physicochemical properties with a thermodynamic approach	2	Even

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
19	L-TKM-8-214	Food Product Design	Students understand principles of food process and product development	2	Odd
20	L-TKM-8-215	Membrane Technology	Students understand mass transfer in membrane systems and the applications	2	Even
21	L-TKM-8-216	Catalyst and Adsorbent Technology	Students understand principle of catalyst and adsorbent and the applications	2	Odd
22	L-TKM-8-217	Emulsion and Surfactant Technology	Students are able to understand and explain the types, properties and functions of surfactants and emulsions	2	Even
23	L-TKM-8-218	Biomedical Material Technology	Students understand basic principles and properties of biomaterials and their applications	2	Odd
24	L-TKM-8-219	Solid Physicochemical Properties	Students understand processes and industry associated with particles	2	Even
25	L-TKM-8-220	Adhesive and Coating Technology	Students understand basic principles, characteristics and formulation of coating material	2	Even
26	L-TKM-8-221	Composite and Advanced Material Technology	Students are able to analyze the application of advanced material products based on their physical and chemical properties	2	Odd



No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
27	L-TKM-8-222	Clean Technology	Students understand clean technology and its treatment methods	2	Odd
28	L-TKM-8-223	Water Treatment Technology	Students understand waste treatment methods	2	Even



## Master Program in Industrial Engineering dan Management

<https://industri.ft.undip.ac.id/en/profile/>

## Program Description

Master Program of Industrial Engineering and Management committed to produce graduates that excels in the field of industrial engineering while also having the knowledge, craftsmanship, and professional attitude along with an entrepreneurship self, which would make a character that is fully capable of facing career challenges in the global era in the field of planning, fixing, implementing, and managing the integrated system in the manufacture and service industry. Specialization in the master program in industrial management engineering is divided into 5 namely: SCM and Procurement, Ergonomic, design and safety, Quality and manufacture systems, engineering management, and e-business

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
1	PTID8101	Advanced Statistics	This subject provides the ability to design research, conduct data processing and analysis based on multivariate statistics	3	Odd
2	PTID8102	Advanced Operation Research	Advanced Operational Research explain optimization techniques using linear programming approaches, dynamic programming, queuing theory, Goal Programming, Markov Chain, and Game Theory.	3	Odd
3	PTID8103	Industrial Engineering and Management Basic Thinking	This course explains the history of the development of technical science and industrial management and introduces how to use various methods for the analysis and improvement of industrial systems, introducing research areas within the scope of industrial engineering starting from the shop floor at work stations, at the company level and its relationship with the industrial environment.	3	Odd
4	PTID8104	Industrial Engineering and Management Seminar	Industrial engineering and management seminar courses aim to increase student understanding of various fields of study or research in the field of industrial engineering	1	Odd
5	PTID8105	Systems Thinking	In various subjects that are part of basic industrial engineering, students have studied industrial systems ranging from production floor systems to organizational systems and industrial systems. In Thinking Systems, S2 students learn how systems are identified, developed and modeled systematically and systemically.	3	Odd
6	PTID8106	Research Methodology	Philosophy of science and research ethics; basic principles in designing scientific research both for basic science and applied research; how to convey ideas effectively and efficiently both in writing (in the form of reports) and verbally (discussions, debates and presentations)	3	Odd

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
7	PTID8207	Research Proposal	The Research Proposal course studies in depth the process of developing and compiling a research plan into a research proposal.	2	Even
		1st Compulsory Concentration subject		3	Even
		2nd Compulsory Concentration subject		3	Even
		1st Elective Concentration Subject		3	Even
		2nd Elective Concentration Subject		3	Even





No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
8	PTID8308	Results Seminar	This course will present a thesis report that has been completed to get input from the examiner before the thesis session.	2	Odd
9	PTID8309	Thesis	This course will present the final thesis report that has received input from examiners during the results seminar.	4	Odd
10	LTID8210	Supply Chain Engineering	Supply chain engineering courses aim to improve students' understanding of the application of engineering methods (engineering methods) to solve problems related to supply chains. The study topics to be discussed include the understanding of supply chains and drivers of supply chains, the concept of optimization in the preparation of supply chain networks, the design of global supply chain networks by considering uncertainty factors, aggregate planning in supply chains, planning of supply and demand in chains supply, coordination in the supply chain, managing cycle inventory, safety inventory, and product availability, the role of transportation in the supply chain, the role of sourcing in the supply chain, and the role of pricing and revenue management in the supply chain. Each discussion of a topic will be accompanied by a discussion of the application of the topic in industry and illustrations in the form of case studies.	3	Even

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
11	LTID8211	Measurement of Supply Chain Performance	This course will give the magister program the knowledge about the process for measuring the supply chain performance as well as several methods can be used to measured, such as SCOR model, green SCOR model, balanced supply chain scorecard, and many more.	3	Even
12	LTID8212	Procurement Management	This course will give the magister student the knowledge about the procurement process of products and services; its starts with the process of choosing the best strategy for procurement of products and services, the process to select the best supplier, the process to design and evaluate the contract with the supplier, as well as the process to evaluate the performance of the suppliers.	3	Even
13	LTID8213	Distribution and Transportation Management	This course will give the magister student the knowledge about the various method for distributing the product from manufacture, warehouse until the end customer; design and evaluate the mathematical model of distrubtion pattern that can minimize time or distance or the other decision variable; and select the best mode of transportation according to supply chain strategy as well as its advantages and disadvantages	3	Even
14	LTID8214	Risk and Supply Chain Management	This course will give the magister student the ability to conduct the quantitative and qualitative risk assessment on the supply chain; its starts with identify the risk factor, assess the level of occurence and severity of risk factors, map the risk factors in specific chart, as well as evaluate the mitigation process and strategy should be taken.	3	Even

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
15	LTID8215	Green and Lean Supply Chain	The course will give the magister student the knowledge about green supply chain management, the differences between green supply chain management and conventional supply chain management, the practices of green supply chain management, the relationship between green and lean supply chain, and the impact of green and lean supply chain to economic and environmental performance	3	Even
16	LTID8216	Manufacture Strategy	Integrated Manufacturing Systems, is a course that studies in depth the concepts in manufacturing strategies.	3	Even
17	LTID8217	Quality System	The Quality System course studies in depth the concepts of the quality system.	3	Even
18	LTID8218	Quality Infrastructure Management	Quality Infrastructure Management course explains in depth the concepts of Quality Infrastructure management.	3	Even
19	LTID8219	Productivity Management	This course explains the definition of productivity, productivity management, factors that affect productivity and others.	3	Even
20	LTID8220	Service Engineering	This course provides an understanding of the various types of service industries and their differences with the manufacturing industry, management of service businesses for increasing internal and external customer satisfaction, various dimensions that are important for the design and measurement of performance achievements in service businesses, and the role of information technology to enhance excellence compete from service businesses.	3	Even



No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
21	LTID8221	Industrial Economics	Industrial Economics courses study the economic aspects of industry, namely the market and company aspects. The purpose of the industrial economy is to explain the ways of development in the economic sector.	3	Even
22	LTID8222	Green Manufacturing System	The Green Manufacturing System course studies methods to minimize waste and or pollution caused by the manufacturing process. Green manufacturing is based on a sustainable production system (sustainable production system) in producing a product.	3	Even
23	LTID8223	Job Method Design	This course discusses the main points of work method engineering, ergonomics work design and work measurement	3	Even
24	LTID8224	Human Factor in Product Development and Design	This course discusses the main points of design and product development based on human factors such as the design process, sensory perception in design, human factor theory in design and design applications.	3	Even
25	LTID8225	Green ergonomics	This course discusses interactions between users and their physical environment through discussion of principles, methods and models used such as the effects of heat and cold, vibration, the effect of noise and light on health, comfort and human performance and the implementation of aspects of ergonomics in the environment. Green ergonomics-based design principles and ecology are also discussed to get a safe, healthy and comfortable work system.	3	Even

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
26	LTID8226	Occupational Health and Safety System Engineering	This course explains the introduction to occupational safety and health, system engineering related to occupational safety and health, occupational accident, occupational illness, risk analysis and control, fire management, work ergonomics concept, environmental impact analysis (EIA), Occupational safety and health system and others.	3	Even
27	LTID8227	Application of Industrial Ergonomic	This course provides tools, discussion, methods and resources for making ergonomic improvements that are simple and effective in an industrial environment. This course completes direct completion to correct and control ergonomic risks.	3	Even
28	LTID8228	Digital Human Model Simulation	This course discusses the main points of digital human modeling (DHM) which covers the foundation of digital human models, fundamental modeling, evaluation and analysis, application, and the current and future implementation of digital human models.	3	Even
29	LTID8229	Human Performance	This course discusses the analysis phase for improving human performance including processes and procedures for job analysis related to human performance models.	3	Even
30	LTID8230	Advance Cognitive Ergonomic	The course discusses basic knowledge and skills about discipline, learning, and the application of Cognitive Ergonomics to actual and modern system design, work, and human machine systems. The topic of the course discusses the application of methods for designing and evaluating human systems and human aspects in organizational risk management.	3	Even

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
31	LTID8231	E-Business Engineering	E-Business Engineering addresses an integrated approach in identifying the needs of and planning for the implementation of information technology in business organizations that involve knowledge of information systems, strategies, marketing, supply chain management and value chains, operations and human resource management	3	Even
32	LTID8232	Information Systems Strategic Planning	Information Systems Strategic Planning discusses how an organization plans information system development in the long run by identifying information needs, setting priorities for information systems development and preparing resources.	3	Even
33	LTID8233	Information Systems Requirement Engineering	Requirements Engineering studies how information systems are developed based on needs that have been analyzed and needs used in the engineering of information systems.	3	Even
34	LTID8234	Project Management of Information System	This course studies how to manage information systems development projects ranging from system concepts to project implementation evaluations.	3	Even
35	LTID8235	Strategic Management	The ability to be able to comprehensively analyze various variables related to the organization, both internal and external becomes the main prerequisite to enable us to build sustainable competitive advantage. This course studies all aspects and mechanisms that must be developed and prepared so that students have an understanding of the strategic management process	3	Even
36	LTID8236	Products Development and Commercialization	Product Development and Commercialization course, is a compulsory subject of three areas of interest in Engineering Management that studies in depth the concepts and examples of application in Product Development and Commercialization	3	Even



No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
37	LTID8237	Engineering System Management	Engineering Systems Management course, provides knowledge about methodology and analyst tools through a "total management system approach, covering all system development activities from the initial initiation to the end of a system, including design and development, testing, production, operation, maintenance, and support.	3	Even
38	LTID8238	Management of Small-Modern Industries	Modern small industry management courses contain understanding of small industries and the history of their development, the stages of the development of industrial organizations, the formation of industrial structures and the role of the IK in the industrial structure, sources of new business ideas and steps to do Customer Value Analysis and Competitor Analysis and others .	3	Even
39	LTID8239	Engineering Project Management	The Engineering Project Management course, is an elective interest course for three credits in the area of Engineering Management interest which studies in depth the concepts in Engineering Project Management.	3	Even
40	LTID8240	Knowledge Management	In Knowledge Management, students learn how knowledge becomes an organizational competitiveness and how to design various tools so that organizations learn and build their knowledge.	3	Even
41	LTID8241	Management of Business and Enterprise Innovation	This course discusses innovation, sources of innovation and management of innovation in improving company competitiveness.	3	Even



No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
42	PTID8042	Human Factor and Ergonomic	This course discusses basic knowledge about human factors in their work which is generally divided into several topics, namely human interaction with work tools, design and operation of work systems, cognitive-psychological studies and physiology at work	2	Even
43	PTID8043	Quantitative Method	The Quality System course, is a compulsory subject to Matriculation of two credits that studies in depth the concepts in the Quantitative Method.	2	Odd
44	PTID8044	Production and Inventory Control Planning	In this lecture, S2 students review their understanding of production and inventory planning and control.	2	Odd
45	PTID8045	Cost Estimation and Analysis	This course provides an understanding of the concepts of time value of money and cash flow analysis, MARR, payback period, internal rate of return, and external rate of return to analyze the feasibility of a project or compare the feasibility of two or more projects, the concept of depreciation and replacement decisions, the concept of financial accounting and others	2	Odd



# Master Program in Mechanical Engineering

<https://mesin.ft.undip.ac.id/program-studi-sarjana-2/>



## Program Description

The main competencies are Technical Analysis, Research Methodology and Experimental Design, (Fundamentals of Mechanical Engineering: Energy, Materials, Design Engineering, Production and Manufacturing Engineering, Mechatronics, Automotive Technology, Shipping Technology). Philosophy of Science, Special Projects, Thesis Proposal, Seminar, Research and Thesis Writing, Scientific Work. Our aims is to produce higher education for master level in the field of mechanical engineering that has academic and professional excellence and is a reference for the community. Conducting excellent and cutting-edge research in the field of mechanical engineering and disseminating research results at the national and international levels. Increase cooperation with various parties at home and abroad in order to increase institutional capacity, as well as to provide maximum contribution in the mastery of science and technology in the field of mechanical engineering in society. Conduct regular evaluations to improve quality, professionalism, capability and accountability in the implementation of the mechanical engineering master education program



# Curriculum

No	Course Code	Course Title	Course Description	Credit hours	Odd/ Even Semester
1	PTMS8613	Advanced thermodynamic	Theory of basic tools of thermodynamics (balances of conservative quantities) which will be employed to model any complex, thermodynamic system. The selected examples will illustrate the utility of applying thermodynamics in various practical fields.	3	Odd or Even
2	PTMS8618	Integrated engineering design	The understanding of design and manufacture optimisation strategies applied to reliability analysis, robust design, component design and assembly.	3	Odd or Even
3	PTMS8615	Advanced engineering materials	The depth understanding of the key factors that govern the design and selection of materials for use in advanced engineering applications, as well as their processing, properties and stability.	3	Odd or Even
4	LTMS8711	Modelling and Mechatronic Simulation System	Modelling of hydraulic systems and transmission lines. Simulation of 2-dimensional and 3-dimensional mechanical systems with hydraulic or electrical actuation. Numerical methods for solving linear and non-linear sets of equations, optimization, and parameter identification	3	Odd or Even







## Master Program in Accounting

<https://maksifeb.undip.ac.id/>

### Program Description

This program is designed to emphasize on mastery concept and research in accounting area. The program has set two profiles of its graduates, namely accounting academics and researcher. The curriculum has been compiled in accordance with the development of accounting science, accounting profession and demands of users. The curriculum offered by Master of Accounting contains three elements of competence, namely core competence, supporting competence, and other competence. The number of credits of the program is 36. Program can be completed in four semesters.

### Curriculum

Code	Course Title	Credit
PEAK 8611	Accounting Theory	3
PEAK 8700	Research Methodology I	3
PEAK 8701	Research Methodology II	3
LEAK 8733	Multivariate Analysis and Qualitative Data	3

Code	Course Title	Credit
PEAK 8803	Publication III	3
PEAK 8804	Publication IV	3
PEAK 8800	Thesis	6

Code	Course Title	Credit
PEAK 8731	Research Proposal Seminar	3
LEAK 8732	Publication Writing	3
PEAK 8801	Publication I	3
PEAK 8802	Publication II	3



## Master Program in Economics

<https://miesp.feb.undip.ac.id/>

### Program Description

The program focuses on economics and development studies, studying economic theory and its application for economic development, specifically in developing countries. This program also studies the latest strategic issues on social-economic that contribute to development policy, including technological and institutional side

### Curriculum by Course

No	Course Code	Course Title	Credit hours	Odd/ Even Semester
1	PESP8001	Economic Development III	3	Odd
2	PESP8002	Microeconomics III	3	Odd
3	PESP8003	Macroeconomics III	3	Odd
4	PESP8004	Econometrics III	3	Even
5	PESP8005	Research Methodology	3	Even
6	PESP8006	Institutional Economics	3	Even
<b>Public Economics</b>				
7	LESP8007	Public Economics III	3	Odd
8	LESP8008	The Economic of Public Sector	3	Odd
<b>Regional Economics</b>				
9	LESP8009	Urban Economics	3	Odd
10	LESP8010	Economics of Geography	3	Odd

No	Course Code	Course Title	Credit hours	Odd/ Even Semester
<b>Natural Resources Economics</b>				
<b>11</b>	LESP8011	Energy Economics	3	Odd
<b>12</b>	LESP8012	Maritime Economics	3	Odd
<b>Industrial Economics</b>				
<b>13</b>	LESP8013	Industrial Economics III	3	Odd
<b>14</b>	LESP8014	Digital Economics	3	Odd
<b>Monetary Economics</b>				
<b>15</b>	LESP8015	Monetary Economics III	3	Odd
<b>16</b>	LESP8016	Bank and Financial Institutions	3	Odd
<b>17</b>	PESP8019	Publication	3	Even
<b>18</b>	PESP8020	Thesis	12	Even

## Curriculum by Research

No	Course Code	Course Title	Credit hours	Odd/ Even Semester
<b>1</b>	PESP8021	Research Proposal	3	Odd
<b>2</b>	PESP8004	Econometrics III	3	Even
<b>3</b>	PESP8022	Research 1	4	Even
<b>4</b>	PESP8023	Research 2	4	Even
<b>5</b>	PESP8024	Research 3	4	Odd
<b>6</b>	PESP8025	Research 4	4	Odd
<b>7</b>	LESP8026	Research Dissemination	3	Odd
<b>8</b>	PESP8027	Publication	7	Even
<b>9</b>	PESP8028	Thesis	6	Even





## Master Program in Management

<http://mm.undip.ac.id>

### Program Description

The Master of Management Program offers a 2-year master program. The normal study period is four semesters, and the maximum study period is eight semesters. Before starting their first semester, students are obliged to complete the Pre-Master program. The pre - Master program aims to give students from various backgrounds (science and non-science) knowledge and understanding about the basic concept of management. There were five subjects offered during the Pre-Master courses. The first four subjects; Introduction to Management and Business Communication, Statistics for Manager, Introduction to Research Philosophy, and Introduction to Economics have to be completed before Semester I. Students who failed in their Pre-Master courses have to undertake the failed course at the next Pre-Master session. The last subject of the Pre-Master course is Soft Competence, which has to be completed during the student's study period through training, seminar, conference, and internship





# Curriculum

No	CODE	SUBJECT	CREDIT	SEMESTER
1	PEMJ8610	MARKETING MANAGEMENT III	3	odd
2	PEMJ8611	FINANCIAL MANAGEMENT III	3	odd
3	PEMJ8612	HUMAN RESOURCE MANAGEMENT AND ETHICAL LEADERSHIP	3	odd
4	PEMJ8613	OPERATION MANAGEMENT III	3	odd
5	PEMJ8614	CROSS CULTURAL STRATEGIC MANAGEMENT	3	odd
6	LEMJ8615	PROBLEM SOLVING AND DECISION MAKING	3	even
7	PEMJ8616	RESEARCH PROJECT I	3	even
8	LEMJ8680	CROSS-CULTURAL MARKETING MANAGEMENT	3	even
9	LEMJ8681	CROSS-CULTURAL HUMAN RESOURCE MANAGEMENT	3	even
10	PEMJ8617	RESEARCH PROJECT II	3	odd
11	LEMJ8682	CROSS-CULTURAL ORGANIZATIONAL BEHAVIOR	3	odd
12	LEMJ8683	MICRO FINANCE	3	odd
13	PEMJ8619	THESIS	6	even



# Master Program in Communication Science

<https://mikom.undip.ac.id/>

## Program Description

This study program has two concentration i.e. Media Policy and Strategic Communication. The scope of the Media Policy study is related to efforts to identify stakeholders (government, industry, community) in the process of making policy, the direction of public interest in media policy (Commerce versus commons), jurisdiction constraints, and the global media system. Strategic communication objects related to the identification of stakeholders along with the normative order to manage commercial, social, and political issues through mass media and non-mass. To achieve commercial, social and political objectives through the use of marketing communication activities (advertising and public relations)

## Curriculum by Course Specialization: Media, Culture and Society

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	P-SIK-8001	Media, Culture, and Society	<i>This course examines the complex relationships between media and modes of reasoning and various practices in society. The course materials will cover theoretical thinking which critically explains the ways in which modern media shaping and constructing culture (including popular culture) as well as shaping and constructing sets of values in diverse practices in society.</i>	3	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
2	P-SIK-8002	Qualitative Research Method	<i>The focus of this course is on the inquiry of designing, building a conceptual framework, data collection, and interpretation in the merit of qualitative research methods for the study of media, culture, and society. The course will particularly interrogate close connections between people and communities by using various qualitative research methods including textual analysis, ethnography, phenomenology, and case study. Students will comprehend the steps of research design and understand how to analyze the data and write the findings. Many of the cases will refer to research in media, culture, and society.</i>	3	Odd
3	P-SIK-8003	Quantitative Research Method	<i>This course is designed to provide further understanding and practical skills to students to design a research in a positivistic paradigm with a quantitative approach to mass communication cases within the context of culture and society in the digital era. This type of conceptual and practical mastery is significant to the preparation of student theses and scientific publications</i>	3	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
4	P-SIK-8004	Philosophy and Media Ethics	<i>This course is designed to provide a comprehensive understanding to the main issues in philosophy for the contexts of communication and media ethic in digital era. Mastering the subjects will be beneficial for students to exercise the proper conducts in academic and professional works.</i>	3	Odd
5	P-SIK-8005	Contemporary Issues in Media, Culture and Society	<i>This course is designed to provide an understanding of the latest issues in the perspective of media, cultural, and society studies. The emphasized will be on theoretical and empirical conceptual discussion of various phenomena that occur within the scope of new media. A number of issues to be discussed are hoaxes, hate speech, internet memes, narratives and small stories, moral panic, identity and anonymity, digital crowd, hacking, algorithms, conspiracies, and alternative media.</i>	3	Even



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
6	P-SIK-8006	Reading course & Thesis Seminar	<i>This course is designed to provide student's understanding and academic skill in planing and writing thesis proposal. The output of this class are literature reviews and thesis proposal</i>	3	Even
7	L-SIK-8007	Advance Media Research Method	<i>This Advanced Research Methodology course will explore new methods or techniques for conducting academic researches, with qualitative and quantitative approaches. These new methods may challenge the assumptions of traditional research methods, but at the same time provide opportunities to understand new phenomena, especially those made possible by the digital technology capabilities. Several methods which will be explored, including: social network analysis, virtual ethnography, mobility methods (mobile methods), and a number of other methods.</i>	3	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
8	L-SIK-8008	Digital Journalism	<i>This course discusses and explores how communication technology has created digital journalism and how traditional media respond to the change. The discussion will be focus on the four big issues, including journalism practice (robot journalism, data/science journalism, visual journalism, etc); media industry transformation and the raised up journalism (media ownership, new bussiness model, start up media, homeless media, crowd funding journalism,); the challange in applying journalism ethic (clickbait journalism, hoax, fake news, slow journalism, narative journalism); finally, this class also discusses about prosumer phenomenon (citizen journalism, homeless media, content creator) and how it influence journalism practice in the digita era.</i>	3	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
8	L-SIK-8008	Digital Journalism	<i>This course discusses and explores how communication technology has created digital journalism and how traditional media respond to the change. The discussion will be focus on the four big issues, including journalism practice (robot journalism, data/science journalism, visual journalism, etc); media industry transformation and the raised up journalism (media ownership, new bussiness model, start up media, homeless media, crowd funding journalism,); the challange in applying journalism ethic (clickbait journalism, hoax, fake news, slow journalism, narative journalism); finally, this class also discusses about prosumer phenomenon (citizen journalism, homeless media, content creator) and how it influence journalism practice in the digita era.</i>	3	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
9	L-SIK-8009	Media, Gender and Sexuality	<p><i>This course studies the intertwining roles performed by gender and sexuality in the media. The course will explore the way in which the media (film, television, online media) communicate, construct, and represent the various performances of gender and sexuality. The students of this course will also learn how the audience engages, interprets, and incorporates the media representations of gender and sexuality in their daily lives, cultural expressions, and gender political positions. This course will also discuss particular audience cultures created by the interaction between the media and the audience. Such as, fandom communities, video games culture, cosplay performativity, and digital culture seen from gender and sexualities perspectives.</i></p>	3	Even

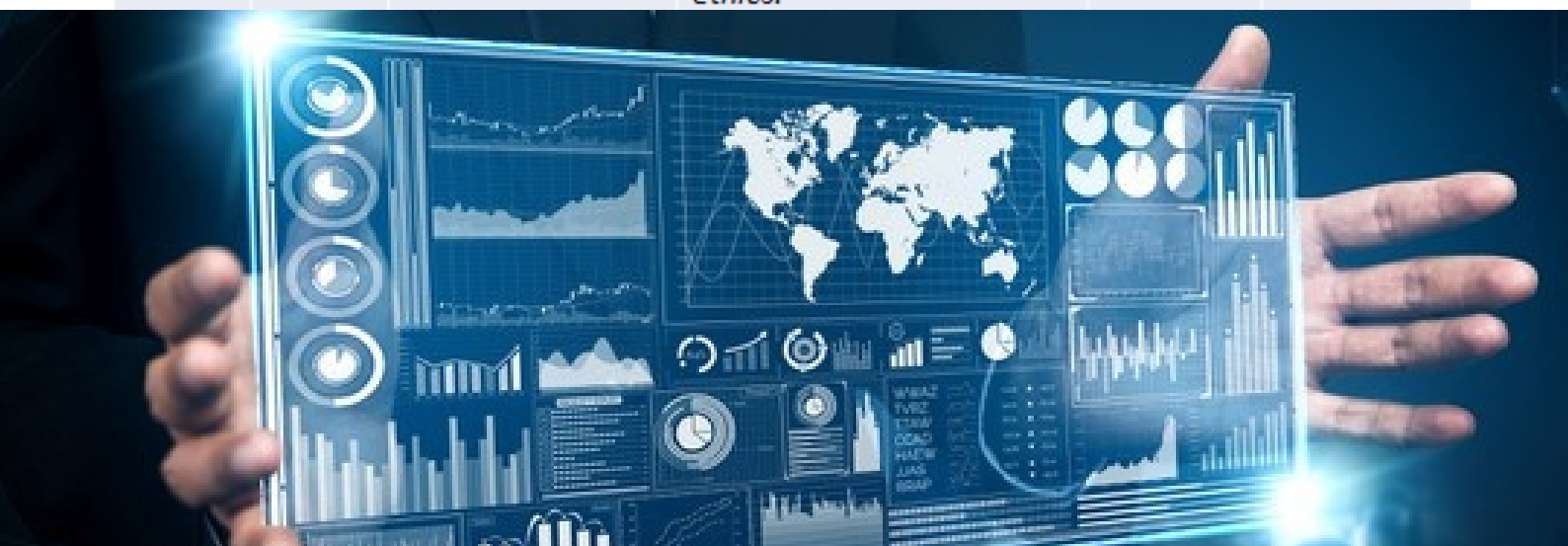


No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
10	L-SIK-8010	Economy Politic Media	<i>This course is designed to provide further understanding to the postgraduate students of communication science with various political-economy perspectives to be used in analyzing the phenomenon of conventional and new media in Indonesia in particular and global media in general. In this perspective, the media is seen not only as an economic institution, but also as a political institution that provides an arena for the fulfillment of the political, economic, social and cultural interests of various existing social groups and their implications for gaining and maintaining power in society.</i>	3	Even
11	P-SIK-8011	Publication 1	<i>This course designed to provide the students with the understandings and skills in planning, writing and publishing journal article, at least in the National Accredited Journal Shinta-4</i>	3	Odd
12	P-SIK-8012	Colloquium	<i>A seminar class to review the students' theses drafts comprehensively before they have to defend their theses</i>	3	Odd
13	P-SIK-8013	Thesis	<i>Students are required to write masters theses, based on actual research conducted in the field of media, culture, and society.</i>	6	Odd

## Curriculum by Course

### Specialization: Strategic Communication

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	P-SIK-8014	Strategic Communication Principals	<i>This course contains a discussion of the principles of Strategic Communication which includes strategic steps, namely the stakeholder identification, planning, communication actions, and evaluations that are applied to the business, social, cultural and political fields. The basic principle of strategic communication is the management of organizations in dealing with various strategic issues. Such as, globalization, government regulations and policies, digitalization, changes in community expectations, changes in the environment, and understanding of business ethics.</i>	3	Odd



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
2	P-SIK-8002	Qualitative Research Method	<i>The focus of this course is on the inquiry of designing, building a conceptual framework, data collection, and interpretation in the merit of qualitative research methods for the study of strategic communication. The course will particularly interrogate the close connection between persuasion strategies and human behavior by using various qualitative research methods including textual analysis, ethnography, phenomenology, and case study. The student will mainly comprehend the steps of research design and understand how to analyzing the data and writing the findings. Many of the cases will refer to research in crisis management, marketing communication, and strategic campaign.</i>	3	Odd
3	P-SIK-8003	Quantitative Research Method	<i>This course is designed to give advantage understanding and practical skill to postgraduate students in communication science to develop a research design in positivism paradigm with quantitative approaches of organizational communication phenomena in digital era. Mastering the conceptual and practical in research designing will support beneficially for students in creating their theses and scientific publications.</i>	3	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
4	P-SIK-8015	Philosophy and Communication Ethics	<i>This course is designed to give a comprehensive and further understanding to the postgraduate students of communication science to master conceptually the main issues in communication philosophy related to the kinds of discourse object in communication and communication ethic in digital era. Mastering the conceptual will give benefit practically for the students in arranging the Theses and publications, and using strategic communication professionally and ethically in society.</i>	3	Odd
5	P-SIK-8016	Contemporary Issues in Strategic Communication	<i>This course is given to students with the aim to provide an understanding of the latest issues in the perspective of communication strategic. The analysis emphasized is a theoretical and empirical conceptual discussion of various phenomena that occur within the scope of new media related to the newest communication strategic issues.</i>	3	Even



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
6	P-SIK-8006	Reading course & Theses Seminar	<i>This course is designed to provide student's understanding and academic skill in planing and writing the thesis proposal. The output of this class are literatur reviwies and thesis proposal.</i>	3	Even
7	L-SIK-8017	Political Persuasion and Propaganda	<i>This course provides the description and analysis related to the use of political persuasion and propaganda carried out by various actors, both individually and organizationally, which are found in state institutions, markets, and society. Political persuasion and propaganda are understood in the perspective of strategic communication. That means political persuasion and propaganda must not be interpreted negatively, but rather as instruments aimed to influence those who is being targeted. Some topics that will be discussed are the concepts of persuasion and propaganda, the history of the emergence and development of propaganda, propaganda techniques, and propaganda analysis.</i>	3	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
8	L-SIK-8018	Strategic Communication on Social Change	<i>This course provides an understanding of the role of Strategic Communication for social change by studying the process of public and private dialogue used to determine who they are, what they want, and how they can get it. Social change is most commonly understood as the process of transformation of the society which is organized in institutions and in the distribution of power in various social and political institutions.</i>	3	Even
9	L-SIK-8019	Digital Marketing	<i>This course is given to the students and is aimed to provide an understanding of the concept of the marketing strategies in the realm of digital media, using the data tracking, manipulation and digital analysis to achieve strategic objectives. The scope of this study is a discussion on digital marketing communications, search engine optimization, web design and analysis, social media strategies and analysis, data digital mining, techniques analysis digital data, digital data traffic growth, and marketing automation.</i>	3	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
10	L-SIK-8020	Corporate Communication	<i>This course studies how the corporations or institutions communicate with stakeholders, both internaly and externaly. It provides an understanding of the communication function and how the company reaches out the stakeholders in the relation to the corporation. It learns why and how to apply communication techniques as an organizational tool with its stakeholders by looking at the communication process that is carried out.</i>	3	Even
11	P-SIK-8011	Publication 1	<i>This course is designed to provide the student the understanding and skill ini planning, writing and publishing journal article at least in National Accredited Journal Shinta-4.</i>	3	Odd
12	P-SIK-8012	Colloquium	<i>A seminar class to review the students' theses drafts comprehensively before they have to defend their theses</i>	3	Odd
13	P-SIK-8013	Theses	<i>Students are required to write masters' theses, based on actual research conducted in the field of strategic communication</i>	6	Odd

# Curriculum by Research

## Media, Culture and Society, and Strategic Communication

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	-	Course 1	<i>1st course chosen by student available from 'by courses program' both in the compulsory or elective courses list</i>	3	Odd
2	-	Course 2	<i>2nd course chosen by student available from 'by courses program' both in the compulsory or elective courses list</i>	3	Odd
3	P-SIK-8006	Reading course & Theses Seminar	<i>This course is designed to provide student's understanding and academic skill in planing and writing thesis proposal. The output of this class are literature reviews and theses proposal</i>	3	Odd
4	P-SIK-8021	Field Work 1	<i>This courses is a field work activities, part of the thesis activities</i>	5	Even
5	P-SIK-8022	Field Work 2	<i>This courses is a field work activities, part of the thesis activities</i>	6	Even
6	P-SIK-8023	Publication 2	<i>This course designed to provide student understanding and skill in planning, writing and publishing journal article in scopus indexed journal</i>	7	Even
7	P-SIK-8012	Colloquioum	<i>A seminar class to review the students' thesis drafts comprehensively before they have to defend their theses</i>	3	Odd
8	P-SIK-8013	Theses	<i>Students are required to write masters' theses, based on actual research conducted in the field of Media, Culture and Society or in strategic communication</i>	6	Odd





# Master Program in Business Administration

<https://mabis.fisip.undip.ac.id/>

## Program Description

This study program has two concentration i.e. Media Policy and Strategic Communication. The scope of the Media Policy study is related to efforts to identify stakeholders (government, industry, community) in the process of making policy, the direction of public interest in media policy (Commerce versus commons), jurisdiction constraints, and the global media system. Strategic communication objects related to the identification of stakeholders along with the normative order to manage commercial, social, and political issues through mass media and non-mass. To achieve commercial, social and political objectives through the use of marketing communication activities (advertising and public relations

## Curriculum by Research

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	PSAB8001	Administrative philosophy	This course provides guidelines (philosophy) of organizational management from an administrative point of view as a science. The administration is discussed as a method for taking action, planning, organizing, implementing, and controlling in organizations both to humans and organizational resources. In addition, it examines institutional governance and organizational leadership as a human relations entity.	3	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
2	PSAB8002	Research Methods and Scientific Writing	This course is designed to train students so that they are able to determine and formulate research with a scientific approach, starting from determining topics, formulating problems, determining population and samples, making designs, formulating research gaps, to preparing scientific reports and papers with scientific writing ethics in accordance with standards Committee of Publication Ethics.	3	Odd
3	PSAB8014	Reading Course	This course is designed so that students are able to compile a state of the art and formulate research gaps from previous studies. In doing so, each students is guided by two supervisors.	3	Odd
4	PSAB8015	Capita Selecta Business Administration	by research: This course is an anthology of current issues related to Business Administration, and it is hoped that the discussion of these issues will encourage students to find ideas/topics for writing scientific papers (Thesis) and the novelty of research.	3	Odd
5	PSAB8008	Proposal Seminar	By research: preparation and finalization of research proposals so that allowed for the next stages.	3	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
6	PSAB8 009	Data Collecting	by research: Data collection proses for the research under the monitoring of the research supervisors	5	Odd
7	PSAB8 017	Results Seminar	By research: Presentation of the research findings in front of the research supervisors.	3	Odd
8	PSAB8 016	Publication	By research: Paper publication at reputable international journal.	7	Even
9	PSAB8 018	Thesis examination	by research: Thesis examination in which students defend their final thesis on a group of examiners.	6	Even



# Master Program in Political Science

<https://mip.undip.ac.id/>

## Program Description

This study program has two concentrations i.e. Politics and Local Governance and Political Campaign Management. Student courses will be equipped with the ability to master the fundamentals of science and skills in the field of social and political sciences, to implement, analyse, and provide alternatives to solving social and political problems, to behave and behave in conducting and working in the interests of the general audience in accordance with their competence, to adapt to the development of science and technology in accordance with the field

## Curriculum by Research

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	PSPL8001	Introduction to Political Research	The course aims to identify the definition of politics as science, covering the aspect of philosophy, methodology, and methods. The course means to give the foundations for the students to understand political science and the skills to conduct political science research.	3	Odd



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
2	PSPL8002	Proposal Writing Seminar	The course aims to give knowledge and understanding of the use of research methods in political science, as well as to train students to drafting research proposal for their thesis research.	3	Even
3	PSPL8003	Fieldwork 1	The course aims to improve field research skills for students to support their data collection project in their thesis writing.	2	Odd
4	PSMP8007	Fieldwork 2 & 3	The course aims to improve field research skills for students to support their data collection project in their thesis writing.	7	Even
5	PSPL8004	Provisional Research Result Seminar 1	The course aims to improve skills for students to present their provisional research findings in order to gain inputs from their fellow students, lecturers, and/or public audience to enable students maintain their thesis writing quality. Research result seminar can be conducted within the study program or in other national/international academic forums, and/or wrtittenly in the forms of article publication in printed or online reputable media. The course is meant to be quality control and peer review mechanism in students' thesis writing.	1	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
6	PSMP8009	Provisional Research Result Seminar 2	The course aims to improve skills for students to present their provisional research findings in order to gain inputs from their fellow students, lecturers, and/or public audience to enable students maintain their thesis writing quality. Research result seminar can be conducted within the study program or in other national/international academic forums, and written in the forms of article publication in printed or online reputable media. The course is meant to be quality control and peer review mechanism in students' thesis writing.	3	Even
7	PSPL8005	Thesis	The course means to give knowledge, understanding, and skills for students in writing thesis report.	6	Even
8	PSPL8006	Journal Article Publication 1	The course means to give knowledge, understanding and skills for students in producing academic publication in nationally indexed journals either Sinta 4, 3, 2, or 1 or in indexed and not indexed international journal.	3	Even



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
9	PSMP8006	Journal Article Publication 2	The course aims to give knowledge, understanding, experience and skills for students in producing academic publication in indexed and reputable international journal.	7	Even
10	PSPL8010	Social and Political Theories	The course aims to give knowledge and understanding on main theories in social and political sciences.	3	Odd
11	PSPL8011	Politics and Policy Analysis	The course aims to give knowledge and understanding about public policy analysis, focuses and scopes of public policy, policy analysis techniques, theoretical debates in public policy analysis, and the political implication of public policy in particular contexts, followed with the elaboration of sectoral policy analysis.	3	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
12	PSPL8012	Introduction to Digital Politics	<p>This introductory course introduces the main ways in which the rise of digital cultures have disrupted existing politics. This course will focus initially on identifying three different understanding of politics prior to the rise of digital cultures and will then explores ways these have been changed. Following this examination, it will suggest commonalities that point toward ideas about what digital politics might mean in its own terms. The three different understanding of politics that will be examined are: first, politics as representative government system, including elections and party politics; second, politics as broad struggles over resources that constitute forms of exploitations, such as class politics and the clash between labor and capital or gender in the differences between men and women; and third, it will examine the micro-politics of everyday interactions, such as the politics of language. Each of these understanding of politics will be examined through some of its key case studies.</p>	3	Odd



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
13	LSPL8031	POLITIK PERENCANAAN DAN PENGANGGARAN DI NEGARA BERKEMBANG	The course aims to elaborate planning and budgeting in developing countries, planning and budgeting reforms, planning and budgeting processes in Indonesia, and the organization and documentation of local planning and budgeting in Indonesia and the other developing contexts.	3	Odd
14	PSPL8015	Politics of Land Use, Environment and Natural Resources Policy	The course aims to elaborate space as the locus of governance and politics, and how this connected to environment and natural resource issues.	3	Even
15	PSPL8016	Political Parties and Interest Group	The course aims to identify the definition and function of political parties and the dynamics related to interest groups in political stages, with the case of Indonesia as a focus of discussions.	3	Even
16	PSPL8016	Digital Democracy	This course explores how digital technology changes both the mode and the meaning of democratic participation. We will conduct this inquiry through the exploration of case studies and readings and put an experimental social networking application to the test by exploring its use in a variety of civic projects throughout Boston.	3	Even



# Master Program in Public Administration

<https://map.fisip.undip.ac.id/en/home1/>

## Program Description

The Program teach the basics of public and business administration to student to be able to think, behave, and act as administrative scientists. Students are expected to master the basics of science and research methodology according to the field of expertise so that he has the professional ability to find, understand, explain and formulate ways of solving management and administrative problems based on academic principles. Students also be taught to Practice knowledge and skills in productive activities and services to the community

## Curriculum

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	PSAP8025	Administration Theory & Public Organization	This course discusses the advanced theories, as well as the scope of public administration and organization, the development of administrative paradigms and principles, and the practice of the state administration in government management.	3	Odd Semester

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
2	PSAP8 026	Research Methodology in Public Administration	The course is intended to equip students to have knowledge and the understanding of the concepts in social research, to understand the approaches in research methods, and the stages of compiling the qualitative and quantitative research, and students are expected to be able to master the techniques of drafting a thesis proposal.	4	Odd Semester
3	PSAP8 027	Public Policy	This course is intended to equip students to have knowledge and the understanding of the concepts of public policy and the role of public policy in dealing with the social problems developing in the society. In addition, students are expected to be able to analyze the public policies in Indonesia by comparing and providing recommendations for improving the quality of the public policies.	3	Even Semester
4	PSAP8 028	Public Policy Analysis	This course is intended to understand how a policy issue is analyzed by a policy analyst. In succession, it will discuss the meaning and benefits of the public policy analysis, the steps in public policy analysis and methods of public policy analysis.. Which in the end, students are able to analyze a public policy issue.	3	Even Semester

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
5	PSAP8 029	Academic Writing	This course is intended to guide the students in making scientific articles in accordance with the principles of scientific articles, the anatomy of scientific articles and is implemented in accordance with the process of the scientific articles writing process.	4	Even Semester
6	PSAP8 030	Thesis Proposal	Preparation and finalization of the research proposals. So that, it allows the students to reach the next stages.	3	Even Semester
7	PSAP8 031	Research Results Seminar	Presentation of the research findings in front of the research supervisors.	3	Odd Semester
8	PSAP8 032	International Publication	Paper publication at reputable international journal.	7	Odd Semester
9	PSAP8 033	Thesis	Thesis examination in which students defend their final thesis on a group of examiners.	6	Even Semester





# Master Program in Law

<https://mih.undip.ac.id>

## Program Description

Master of Law Program collaborates with the practitioners (Law and Human Rights), the Attorney General's Office, the Ministry of Home Affairs, Police. This program aims to produce qualified and superior graduates in the development and law reform on research-based legal science. We also aim to solving legal problems in society and manage the complexity of legal problems through scientific thinking

## Curriculum

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	PHI H8 123	Research Methodology	This Legal Research Methodology course will discuss Types of Legal Research, Research Paradigms, Legal Concepts, Principles of Legal Research, Doctrinal Research, Non-Doctrinal Research, and teaches Techniques for Making Research Proposals and Thesis Writing.	4	Odd



# Master Program in Linguistics

<https://mli.fib.undip.ac.id/en/home/>

## Program Description

Linguistics Master Program opened to answer the challenge of the increasing needs of human resources master's degree in the field of general and applied linguistics. Master's Program in Linguistics offering two majors namely General Linguistics and Applied Linguistics in English Language Teaching. Masters in Linguistic Program was opened to contribute the nation for developing human resources through higher education by providing opportunities to undergraduate scholars in the fields of linguistics, literature and language education to provide a master's program qualification

## Curriculum

No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
1	P-BLG-8-011	Generative Phonology	Generative phonology is a course that studies how to understand and make phonetic transcriptions, and how to studies phonology as a language with a generative theory approach. The course material includes descriptions of various phonetic symbols by IPA (International Phonetic Alphabet), concepts related to phonetics and phonology, and analytical models with generative theories which is used in analyze the phonological systems in a language. This course also teaches the use of speech tools, specifically the speech analyzer as an aid in doing phonological analysis.	2	2	1 (Odd)

No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
2	P-BLG-8-012	Generative Morphosyntax	Morphosyntax is a course that studies the basics of analyzing morphological and syntactic structures. The course material includes concepts in morphosyntax studies, analytical models, and generative theories in the fields of morphology and syntax used in analyzing morphological and syntactic data.	2	2	1 (Odd)
3	P-BLG-8-013	Natural Semantic Metalanguage	Semantic courses teach the basic concepts of semantics, various aspects meaning of language, meaning relations, the interaction of meanings, and application of one of the approaches in semantics, which is called natural semantic metabase.	2	2	1 (Odd)

No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
<b>4</b>	P-BLG-8-014	Cognitive Linguistics	Cognitive Linguistics is a course offered for the students to conduct studies or research that includes language analysis with cognitive language approaches to the use of language using embodiment and bleeding theories. Besides, this study is also directed at acquiring the second language from a cognitive linguistic perspective. In this course, there are several subjects such as cognitive-linguistic views of language, understanding, and role of context in cognitive linguistic analysis, frame concepts, and scripts.	2	2	1 (Odd)
<b>5</b>	P-BLG-8-015	Research Method in General Linguistics and Scientific Writing	Research Methods in General Linguistics and Scientific Writing is a course that studies the research methodologies related to general linguistics and scientific writing.	2		1 (Odd)
<b>6</b>	P-BLG-8-016	Research Method in Applied Linguistics and Scientific Writing Technique	Research Methods in Applied Linguistics and Scientific Writing Technique is a course that studies the research methodologies related to applied linguistics and scientific writing technique.		2	1 (Odd)



No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
7	P-BLG-8-121	Sociodialectology	Sociodialectology is a subject of study that discusses the varieties and dialects of a language geographically and socially.	2		2 (Even)
8	P-BLG-8-122	Crosscultural Pragmatics	Cross-Cultural Pragmatics is a study of language that occurs in various ethnic or socio-cultural groups. This course offered to strengthen the context of speech and the intention of speakers. This course offers about the theory of speech act, 'face' concept, politeness strategy, communication principles (cooperation principle and politeness principle), presupposition, deixis, and pragmatic competence.	2		2 (Even)
9	P-BLG-8-221	Second Language Acquisition	Second Language Acquisition is an offered course that includes theories, factors, and measurements of second or foreign language proficiency. This course discusses the differences between first and second or foreign language, theories about second language acquisition, five hypotheses by Krashen, learning styles, learning strategy, and socio-psychological factors, and also bilingualism (acquisition of more than one languages).		2	2 (Even)

No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
10	P-BLG-8-222	Need Analysis and Syllabus Design	Need Analysis and syllabus design course teach students about the knowledge, critical study skills and make a need analysis on English Education based on the development of the language science paradigm that exists and used today.		2	2 (Even)
11	P-BLG-8-321	Language Typology	Language typology is a course that studies the basics for analyzing morphological aspects and language syntax with a typological approach by looking at the similarities and differences with other languages, both genetically, geographically, and even culturally.	2		2 (Even)
12	P-BLG-8-322	Language Maintenance and Shift	Language Maintenance and Shift is a course that studies the phenomena of language use, language maintenance, language shifting, and language preservation as well as parsing the triggers factors for good from the internal and extra lingual side.	2		2 (Even)

No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
13	P-BLG-8-323	Theory and Method of Language Teaching	Theory and Method of Language Teaching is a course that studies the history, basic concepts, methods, and their application in language teaching. The course material consists of the history of development, the basic principles of teaching and learning, several approaches and methods, and their application.		2	2 (Even)
14	P-BLG-8-324	Evaluation and Language Testing	This course teaches the students about language evaluation and tests that consist of the evaluation's type, formal and informal evaluation, evaluation objectives, and language assessment principles, types of tests, and making listening, speaking, reading tests, and writing.		2	2 (Even)
15	P-BLG-8-325	Materials Development	Material Development is an offered course that includes approaches in designing teaching materials, determining the order and content of teaching materials, selection and preparation of teaching materials as well as evaluations and assessments to determine the accuracy of teaching materials in supporting learning competencies.		2	2 (Even)

No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
16	L-BLG-8-721	Critical Discourse Analysis	Critical Discourse Analysis is a course that studies how to analyze error texts such as domination, abuse power, and discrimination carried out through the praxis of discourse. In this course, students will also show the results of their analysis in the form of power points and present these power points in groups. The final task that students must do is make individual Critical Discourse Analysis studies and write them down in the form of scientific papers	2		2 (Even)
17	L-BLG-8-722	Ethography of Communication	This course contains about research methods to the language that follows the ethnographic tradition which is a combination of sociolinguistics and anthropolinguistics studies that focus on the sociolinguistic competencies from the researched speakers.	2		2 (Even)
18	L-BLG-8-421	Linguistic Anthropology	Linguistics Anthropology course is a course that examines the lingual power to elaborate the values, elements, space, systems, and cultural significance in society.	2		2 (Even)



No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
19	L-BLG-8-422	Translation Teaching Method	Translation Teaching Methods is a course that studies the history, basic concepts, methods, and their application in translation teaching.		2	2 (Even)
20	L-BLG-8-423	Statistics for Language Teaching	Types of Data, Descriptive Analysis, Correlation Analysis which consists of understanding correlation, correlation value, correlation meaning, and calculating correlation value. The analysis of different tests consisting of One sample t-test, independent sample t-test, Paired sample t-test, One-way Anova. Regression analysis consisting of simple regression, multiple regression, multicollinear, heteroscedastic, autocorrelation, regression with ln, and Anova two paths.		2	2 (Even)
21	P-BLG-8-521	Literary Review	This course teaches students how to present a structured philosophical framework for review and analyzing the theoretical arguments of others.	2	2	2 (Even)

No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
22	P-BLG-8-522	Data Collection	Data Collection is a course that studies linguistic phenomena that teaches the students how to collect the research data.	2	2	2 (Even)
23	P-BLG-8-523	Data Analysis	Data Analysis is a course that studies linguistic phenomena that teaches the students how to analyze the collected research data.	2	2	2 (Even)
24	P-BLG-8-524	Finding Presentation	Finding Presentation is a course that studies linguistic phenomena that teaches the students how to present the final result of analyzed research data.	2	2	2 (Even)
25	P-BLG-8-525	Report Writing	Report Writing is a course that studies how to write informative and effective reports which are compelling, persuasive and easily understood.	2	2	2 (Even)
26	P-BLG-8-031	Article Publication	This course contains research methods on the use of language that follows the ethnographic tradition which is a combination of sociolinguistic and anthropolinguistic studies that focus on sociolinguistic competence from the understudy speakers.	3	3	3 (Odd)

No	Code	Course	Course Description	Credit Hour		Semester (odd/even)
				General	Applied	
27	P-BLG-8-032	Seminar on Thesis Proposal	Thesis Proposal Seminar course is a subject that offered to equip the Master of Linguistic Students in preparing the thesis research.	2	2	3 (Odd)
28	P-BLG-8-041	Seminar on Research Finding	Seminar on Research Finding course is a subject that offered to equip the Master of Linguistic Students in presenting research results.	2	2	4 (Even)
29	P-BLG-8-042	Thesis Examination	The thesis is a course that contains studies on selected topics of students that were approved by the study program based on theories in general and applied linguistics. In this course, a deepening of the theory was carried out, study to a reviewed article that discussing similar topics to show the novelty of the topic, as well as scientific writing techniques including strategies to avoid implemented plagiarism.	6	6	4 (Even)



# Master Program in Agribusiness

<http://magri.fpp.undip.ac.id/>

## Program Description

Masters of Agribusiness specializes in educating and producing graduates who are excellent in science and technology, competitive in agribusiness business related to processed products, food crops, horticulture, plantations, animal husbandry, fisheries and forestry.

## Curriculum

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	LPAB86 01	Philosophy of science	This course provides a basic introduction to the main philosophical questions concerning scientific knowledge and methodology	2	Odd
2	LPAB86 02	Research methodology	This course provides understandings and scientific method on how acquiring and developing science through scientific research with rational and empirical and systematic steps including problem formulation, developing research design, sampling techniques and data analysis and preparation of scientific papers	3	Odd



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
3	PPAB8603	Agribusiness System	The course provides managerial knowledge and critical thinking as well as improve skills in identifying, analysing, making alternatives and recommending problem solving in agribusiness systems	2	Odd
4	PPAB8604	Research proposal writing	This course provides students with understanding and academic skill for making research proposals	2	Odd
5	PPAB8605	Writing Scientific publication	The learning objective of this course is to provide techniques, abilities and skills to write and publish scientific article including Introduction, Methods, Results, Discussion, Acknowledgments, References, and Abstract.	2	Odd
6	PPAB8706	Research 1		2	Even
7	PPAB8707	Colloquium		2	Even
8	PPAB8708	Research 2		4	Even
9	PPAB8709	Publication 1		3	Even
10	PPAB8810	Seminar		3	Odd
11	PPAB8811	Thesis writing		3	Odd
12	PPAB8812	Publication 2		7	Odd
13	PPAB8813	College Field Work(KKL)		0	Odd
14	PPAB8914	Thesis		6	Even



# Master Program in Epidemiology

<http://mep.pasca.undip.ac.id/>

## Program Description

Epidemiology Master program of Diponegoro University aims to produce Epidemiologists who have expertise and experience in the field of Epidemiology so that they are able to work independently in planning and compiling alternative solutions to health problems comprehensively through the One Health approach. The scientific vision of the study program: to become an EXCELLENT Master program in the field of Managerial Epidemiology and to be able to play an active role in resolving health problems through the One Health approach

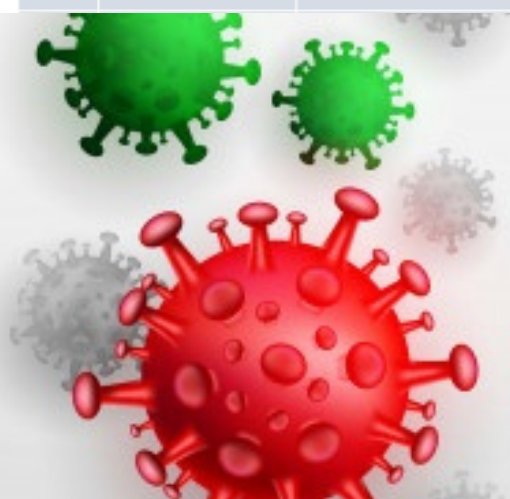
## Curriculum - FETP-OH CONCENTRATION

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	L.CEP.8.646	Biostatistics & Computer Application	This course studies several statistical methods that can be used to analyze data in order to answer problems in research in the health sector. This subject contains general concepts, hypotheses and significance, several univariate, bivariate and multivariate statistical methods to test relationships and differences in quantitative data. In addition, it provides the ability for students to be able to use computer devices optimally in completing their assignments. Students are expected to be able to perform data management, analyze and interpret research data, make reports and make slides for presentations. The emphasis of this course is on practicum in order to have skills in processing epidemiological data which emphasizes classification data with dichotomous nominal scale outcomes.	2	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
2	L.CEP.8.627	Research Methodology and Philosophy of Science	This course explains the systematics of a scientist's thoughts who will carry out scientific research, in accordance with the Masters level. Therefore the lecture contains principles / research methods and philosophies that apply to a scientist. Thus, what is discussed in the course includes various aspects related to 'research problems'.	3	Odd
3	L.CEP.8.628	Basic and application of One Health	One Health Basics and Applications learns and develops an understanding of the One Health approach, including its history, concepts and applications. One Health development mapping includes: One Health knowledge, One Health Teams, One Health Core Competencies Domains (management, communication and informatics, culture and beliefs, leadership, collaboration and partnership, values and ethics, and systems thinking), One Health Approach vs.Dicipline Debate and One Health Applications.	2	Odd
4	P.CEP.8.629	Health Epidemiology	Epidemiology is the study of distribution and determinants of diseases and / or incidents in society to control health problems. It therefore acts as a "basic science" in public health sciences. This course covers basic to intermediate understanding / concepts of the methods often used in epidemiological studies. Examples of applications of epidemiological methods in disease prevention, health policy and hospital applications are provided.	2	Odd
5	L.CEP.8.611	Managerial Epidemiology	Managerial epidemiology looks at the problem completely, namely risk factors (including environment, population and social aspects), the presence and tendency of disease, pathogenesis, disease impacts and joint policies on disease outcomes. Likewise, the solution approach is through management elements in prevention and eradication efforts based on community participation and regional specifications.	2	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
6	P.CEP.8.607	Epidemiological Surveillance	This course explains the theories of health problem identification, surveillance systems, data collection techniques, data management, analysis and interpretation of health data, and can evaluate public health problems. The final result is expected, students can evaluate a surveillance and try to develop the system in an effort to gather information in an effort to solve health problems in the community.	2	Odd
7	P.CEP.8.631	Vector Infection and Zoonotic Disease	This course provides students with the basic concepts and scope of zoonotic and vector-borne diseases including: definition, classification, causative organisms, clinical symptoms, modes of transmission / transmission, epidemiology, pathophysiology / pathogenesis, immunopathology of zoonotic and vector-borne diseases and identification of images. situation of priority zoonotic diseases, emerging and re-emerging and their impact in terms of animal, human and environmental health aspects. Lectures are conducted in classrooms and case study simulations in several zoonotic endemic areas.	2	Even
8	P.CEP.8.633	Laboratory Management and Bio molecular	This course provides an introduction and explanation regarding: 1. Types of laboratories in terms of biosafety level (BSL) and laboratory reference systems in relation to the need for sample testing in epidemiological activities, 2. Introduction and explanation of microscopic, culture, molecular, and serological diagnoses in zoonotic disease sample tests and EID 3. Further explanation regarding the packaging, transportation and storage of human, animal and environmental samples 4. Further explanation regarding the use of data from laboratory analysis in collaboration and coordination across sectors, as a consideration for epidemiological analysis	2	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
9	P.CEP.8.635	Outbreaks and Non-Natural Disaster Investigation	The Outbreak / Outbreak Investigation course is a compulsory group of courses in the Epidemiology department, the material revolves around identifying an increase in the incidence of health problems / diseases (morbidity and mortality), identifying causes, risk factors, evaluating control measures that have been made, and recommendations for prevention and control efforts. This includes building a surveillance and response system in the area where the outbreak occurs.	2	Even
10	P.CEP.8.636	Management and Control of Zoonotic Disease	This course emphasizes on theoretical and practical understanding in the effective and efficient methods and strategies of preventing and controlling animal-borne diseases. Then also discussed about the current situation of animal-borne diseases (zoonoses and vector-borne), neglected zoonotic diseases and their situation in Indonesia, regulations and policies related to animal-borne diseases, risk factors and stages of control of diseases from animal origin, both in Pre-Outbreak, Outbreak and Pandemic, Emergency Response and Post-Outbreak, Outbreak and Pandemic. In this course, field activities are also carried out in "zoonotic & vector borne diseases" endemic areas.	2	Even



**COVID-19**  
CORONAVIRUS



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
11	L.CEP.8.632	Risk Analysis	Risk analysis is a method of analysis using data, information and expert opinion from various disciplines and skills, including pathology, microbiology, epidemiology, statistics, modeling possibilities and economics. The purpose of the risk analysis step is to obtain an understanding of the risk or opportunity to evaluate information and decisions on the required response. The risk analysis design includes hazard identification, risk assessment, risk management, and risk communication.	2	Even
12	L.CEP.8.637	Project/Field Work	This course is a practical field course that begins with briefing for students on case detection and continuous disease transmission to humans, rapid response and identification of population and risk factors, epidemiological investigations and prevention of extraordinary events / outbreaks, surveillance networks, recording and reporting..	2	Even
13	P.CEP.8.639	Research Proposal	This course provides encouragement for program participants to immediately identify problems that will be used for thesis proposal materials. Thus, students can apply their research plans, so that the components needed in making proposals begin to be compiled.	3	Odd
14	P.CEP.8.648	Results Seminar	This course provides an opportunity for students to immediately submit the results of their thesis research that has been done. In this forum, the supervisor will provide input and corrections to improve the results of their research	3	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
15	L.CEP.8.xxx	Optional Course	This course is a supporting course that can be selected based on student needs and is very important for the competence of an epidemiologist	2	Odd
16	P.CEP.8.649	Publication	This course provides an opportunity for students to publish the results of their thesis research in a scientific journal of their choice.	3	Even
17	P.CEP.8.626	Thesis	A thesis is a document submitted in support of candidature for an academic degree or professional qualification presenting the author's research and findings.	6	Even

## Curriculum - FIELD EPIDEMIOLOGY CONCENTRATION

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	L.CEP.8.646	Biostatistics & Computer Application	This course studies several statistical methods that can be used to analyze data in order to answer problems in research in the health sector. This subject contains general concepts, hypotheses and significance, several univariate, bivariate and multivariate statistical methods to test relationships and differences in quantitative data. In addition, it provides the ability for students to be able to use computer devices optimally in completing their assignments. Students are expected to be able to perform data management, analyze and interpret research data, make reports and make slides for presentations. The emphasis of this course is on practicum in order to have skills in processing epidemiological data which emphasizes classification data with dichotomous nominal scale outcomes.	2	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
2	I..CEP.8.627	Research Methodology and Philosophy of Science	This course explains the systematics of a scientist's thoughts who will carry out scientific research, in accordance with the Masters level. Therefore the lecture contains principles / research methods and philosophies that apply to a scientist. Thus, what is discussed in the course includes various aspects related to 'research problems'.	3	Odd
3	L.CEP.8.628	Basic and application of One Health	One Health Basics and Applications learns and develops an understanding of the One Health approach, including its history, concepts and applications. One Health development mapping includes: One Health knowledge, One Health Teams, One Health Core Competencies Domains (management, communication and informatics, culture and beliefs, leadership, collaboration and partnership, values and ethics, and systems thinking), One Health Approach vs.Dicipline Debate and One Health Applications.	2	Odd
4	P.CEP.8.629	Health Epidemiology	Epidemiologi adalah ilmu yang mempelajari distribusi dan determinan penyakit dan/atau kejadian di masyarakat untuk mengontrol masalah-masalah kesehatan. Oleh karena itu berperan sebagai 'ilmu dasar' dalam ilmu-ilmu kesehatan masyarakat. Mata kuliah ini mencakup pengertian/konsep dasar sampai menengah metode-metode yang seringkali dipergunakan dalam studi epidemiologi.	2	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
5	L.CEP.8.611	Managerial Epidemiology	Managerial epidemiology looks at the problem completely, namely risk factors (including environment, population and social aspects), the presence and tendency of disease, pathogenesis, disease impacts and joint policies on disease outcomes. Likewise, the solution approach is through management elements in prevention and eradication efforts based on community participation and regional specifications.	2	Odd
6	P.CEP.8.607	Epidemiological Surveillance	This course explains the theories of health problem identification, surveillance systems, data collection techniques, data management, analysis and interpretation of health data, and can evaluate public health problems. The final result is expected, students can evaluate a surveillance and try to develop the system in an effort to gather information in an effort to solve health problems in the community	2	Odd
7	P.CEP.8.606	Main Disease Epidemiology	This course explains the spread and determinants of infectious and non-communicable diseases which are still the main health problems in Indonesia. Before discussing the disease specifically, it is explained why the morbidity of the disease is the main or potential disease in Indonesia. This is considering that Indonesia currently has a double burden, where on the one hand infectious diseases are still not eradicated or controlled, on the other hand, diseases in developed countries are increasing in morbidity and mortality, such as cardiovascular disease, malignancy, degenerative diseases, micronutrient deficiencies. due to iodine deficiency), etc.	2	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
8	L.CEP.8.616	Disaster Epidemiology and Matra	Epidemiology Matra and Disaster studies the application of epidemiology in special forms as an effort to improve physical and mental abilities in land, water and air environments as well as in emergency and disaster situations. The role of epidemiology is to analyze public health events and problems in emergency and disaster situations and reduce potential risks, increase adaptability and control risks in field health, aerospace, marine and underwater.	2	Even
9	P.CEP.8.633	Laboratory Management and Bio molecular	<p>This course provides an introduction and explanation regarding:</p> <ol style="list-style-type: none"> <li>1. Types of laboratories in terms of biosafety level (BSL) and laboratory reference systems in relation to the need for sample testing in epidemiological activities,</li> <li>2. Introduction and explanation of microscopic, culture, molecular, and serological diagnoses in zoonotic disease sample tests and EID</li> <li>3. Further explanation regarding the packaging, transportation and storage of human, animal and environmental samples</li> <li>4. Further explanation regarding the use of data from laboratory analysis in collaboration and coordination across sectors, as a consideration for epidemiological analysis</li> </ol>	2	Even



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
10	P.CEP.8.636	Management and Control of Zoonotic Disease	The Outbreak / Outbreak Investigation course is a compulsory group of courses in the Epidemiology department, the material revolves around identifying an increase in the incidence of health problems / diseases (morbidity and mortality), identifying causes, risk factors, evaluating control measures that have been made, and recommendations for prevention and control efforts. This includes building a surveillance and response system in the area where the outbreak occurs.	2	Even
11	P.CEP.8.635	Outbreaks and Non-Natural Disaster Investigation	This course emphasizes on theoretical and practical understanding in the effective and efficient methods and strategies of preventing and controlling animal-borne diseases. Then also discussed about the current situation of animal-borne diseases (zoonoses and vector-borne), neglected zoonotic diseases and their situation in Indonesia, regulations and policies related to animal-borne diseases, risk factors and stages of control of diseases from animal origin, both in Pre-Outbreak, Outbreak and Pandemic, Emergency Response and Post-Outbreak, Outbreak and Pandemic. In this course, field activities are also carried out in "zoonotic & vector borne diseases" endemic areas.	2	Even

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
12	L.CEP.8.621	Field Work : Development of Surveillance System	<p>This subject emphasizes the importance of competence in detecting epidemiological surveillance problems in health institutions (Dinas Kesehatan / Puskesmas), proposing suggestions for improvement, and implementing the part of suggestions that can be done.</p> <p>Its components include:</p> <ol style="list-style-type: none"> <li>1. Problem identification, collection, processing, data analysis and information dissemination.</li> <li>2. Make suggestions for improvements according to the problems that exist in the components above.</li> <li>3. Design and implement a number of suggestions for possible improvements to improve the performance of epidemiological surveillance activities</li> <li>4. Re-evaluate the results of corrective interventions that have been carried out.</li> </ol>	2	Even
13	P.CEP.8.639	Research Proposal	<p>This course provides encouragement for program participants to immediately identify problems that will be used for thesis proposal materials. Thus, students can apply their research plans, so that the components needed in making proposals begin to be compiled.</p>	3	Odd
14	P.CEP.8.648	Results Seminar	<p>This course provides an opportunity for students to immediately submit the results of their thesis research that has been done. In this forum, the supervisor will provide input and corrections to improve the results of their research</p>	3	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
15	L.CEP.8.xxx	Optional Course	This course is a supporting course that can be selected based on student needs and is very important for the competence of an epidemiologist	2	Odd
16	P.CEP.8.649	Publication	This course provides an opportunity for students to publish the results of their thesis research in a scientific journal of their choice.	3	Even
17	P.CEP.8.626	Thesis	A thesis is a document submitted in support of candidature for an academic degree or professional qualification presenting the author's research and findings.	6	Even

## Curriculum - CLINICAL EPIDEMIOLOGY CONCENTRATION

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	L.CEP.8.646	Biostatistics & Computer Application	This course studies several statistical methods that can be used to analyze data in order to answer problems in research in the health sector. This subject contains general concepts, hypotheses and significance, several univariate, bivariate and multivariate statistical methods to test relationships and differences in quantitative data. In addition, it provides the ability for students to be able to use computer devices optimally in completing their assignments. Students are expected to be able to perform data management, analyze and interpret research data, make reports and make slides for presentations. The emphasis of this course is on practicum in order to have skills in processing epidemiological data which emphasizes classification data with dichotomous nominal scale outcomes.	2	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
2	I..CEP.8.627	Research Methodology and Philosophy of Science	This course explains the systematics of a scientist's thoughts who will carry out scientific research, in accordance with the Masters level. Therefore the lecture contains principles / research methods and philosophies that apply to a scientist. Thus, what is discussed in the course includes various aspects related to 'research problems'.	3	Odd
3	L.CEP.8.628	Basic and application of One Health	One Health Basics and Applications learns and develops an understanding of the One Health approach, including its history, concepts and applications. One Health development mapping includes: One Health knowledge, One Health Teams, One Health Core Competencies Domains (management, communication and informatics, culture and beliefs, leadership, collaboration and partnership, values and ethics, and systems thinking), One Health Approach vs. Discipline Debate and One Health Applications.	2	Odd
4	P.CEP.8.629	Health Epidemiology	Epidemiologi adalah ilmu yang mempelajari distribusi dan determinan penyakit dan/atau kejadian di masyarakat untuk mengontrol masalah-masalah kesehatan. Oleh karena itu berperan sebagai 'ilmu dasar' dalam ilmu-ilmu kesehatan masyarakat. Mata kuliah ini mencakup pengertian/konsep dasar sampai menengah metode-metode yang seringkali dipergunakan dalam studi epidemiologi.	2	Odd
5	L.CEP.8.611	Managerial Epidemiology	Managerial epidemiology looks at the problem completely, namely risk factors (including environment, population and social aspects), the presence and tendency of disease, pathogenesis, disease impacts and joint policies on disease outcomes. Likewise, the solution approach is through management elements in prevention and eradication efforts based on community participation and regional specifications.	2	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
6	P.CEP.8.607	Epidemiological Surveillance	This course explains the theories of health problem identification, surveillance systems, data collection techniques, data management, analysis and interpretation of health data, and can evaluate public health problems. The final result is expected, students can evaluate a surveillance and try to develop the system in an effort to gather information in an effort to solve health problems in the community	2	Odd
7	P.CEP.8.606	Main Disease Epidemiology	This course explains the spread and determinants of infectious and non-communicable diseases which are still the main health problems in Indonesia. Before discussing the disease specifically, it is explained why the morbidity of the disease is the main or potential disease in Indonesia. This is considering that Indonesia currently has a double burden, where on the one hand infectious diseases are still not eradicated or controlled, on the other hand, diseases in developed countries are increasing in morbidity and mortality, such as cardiovascular disease, malignancy, degenerative diseases, micronutrient deficiencies. due to iodine deficiency), etc.	2	Even
8	P.CEP.8.622	Clinical Epidemiology	The clinical epidemiology course is a course that applies epidemiological principles and methods to study, conduct, and apply clinical research that focuses on the prevention, diagnosis, prognosis, and treatment of a disease. Clinical epidemiology is the basic science of evidence-based medicine.	2	Even



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
9	P.CEP.8.623	Health Economics	This course aims to increase students' insight and understanding of the basic concepts of Health Economics, the relationship between economy and health, aspects of demand and supply in the health care industry, various aspects of health financing, various economic evaluation methods for programs / investments in the health sector, and insurance. health and the implementation of the National Health Insurance (JKN).	2	Even
10	P.CEP.8.624	Pharmaceutical Epidemiology	This course emphasizes the application of epidemiological knowledge and methods to study the use and effect of drugs in human populations. In addition, it will also discuss changes from adverse reaction studies, the economic consequences of the use of a drug, and the effect of drugs on the patient's life quality. Pharmacoepidemiology studies the determinants of the effects of drugs, vaccines, biological substances, medical procedures and medical devices, both expected and undesirable. Topics studied include comparison of effectiveness, clinical trials, drug regulatory issues, decision analysis and health care research, among others.	2	Even
11	P.CEP.8.625	Animal Experiments	This subject emphasizes the importance of the theory and practice of using experimental animals in epidemiological research, history, reasons for using experimental animals, the legal basis for experimental animal research, ethical guidelines for experimental animals, considerations of animal research and special provisions for the use of experimental animals.	2	Even



No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
12	P.CEP.8.639	Research Proposal	This course provides encouragement for program participants to immediately identify problems that will be used for thesis proposal materials. Thus, students can apply their research plans, so that the components needed in making proposals begin to be compiled.	3	Odd
13	P.CEP.8.648	Results Seminar	This course provides an opportunity for students to immediately submit the results of their thesis research that has been done. In this forum, the supervisor will provide input and corrections to improve the results of their research	3	Odd
14	L.CEP.8.xxx	Optional Course	This course is a supporting course that can be selected based on student needs and is very important for the competence of an epidemiologist	2	Odd
15	P.CEP.8.649	Publication	This course provides an opportunity for students to publish the results of their thesis research in a scientific journal of their choice.	3	Even
16	P.CEP.8.626	Thesis	A thesis is a document submitted in support of candidature for an academic degree or professional qualification presenting the author's research and findings.	6	Even

## Curriculum - By Research

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
1	I..CEP.8.627	Research Methodology and Philosophy of Science	This course explains the systematics of a scientist's thoughts who will carry out scientific research, in accordance with the Masters level. Therefore the lecture contains principles / research methods and philosophies that apply to a scientist. Thus, what is discussed in the course includes various aspects related to 'research problems'.	3	Odd
2	L.CEP.8.xxx	Optional Course	This course is a supporting course that can be selected based on student needs and is very important for the competence of an epidemiologist	2	Odd
3	P.CEP.8.639	Research Proposal	This course provides encouragement for program participants to immediately identify problems that will be used for thesis proposal materials. Thus, students can apply their research plans, so that the components needed in making proposals begin to be compiled.	3	Odd
4	P.CEP.8.650	Thesis Research I	This subject emphasizes the student thesis research process, research guidance and consultation I	6	Even
5	L.CEP.8.651	Results Seminar I	This course provides an opportunity for students to immediately submit the results of their thesis research that has been done. In this forum, the supervisor will provide input and corrections to improve the results of their research	3	Even
6	P.CEP.8.648	Results Seminar II	This course provides an opportunity for students to immediately submit the results of their thesis research that has been done. In this forum, the supervisor will provide input and corrections to improve the results of their research	3	Odd

No	Course Code	Course Name	Course Description	Credit Hour	Semester (odd/even)
7	xxxxxxxxxx	Thesis Research II	This subject emphasizes the student thesis research process, research guidance and consultation II	6	Odd
8	P.CEP.8.649	Publication	This course provides an opportunity for students to publish the results of their thesis research in a scientific journal of their choice.	7	Even
9	P.CEP.8.626	Thesis	A thesis is a document submitted in support of candidature for an academic degree or professional qualification presenting the author's research and findings.	6	IV



# Master Program in Environmental Engineering

<http://lingkungan.ft.undip.ac.id/magister>

## Program Description

The aim of the study is that the graduates will be able to demonstrate specialty-area knowledge to meet present and future challenge in environmental engineering field. The other expected learning outcome is that graduates are able to develop necessary engineering skills to solve environmental-related issues through inter or multidisciplinary areas. The last is that we expect that graduates can demonstrate the ability to effectively communicate both in writing and through oral, work in teams with various discipline

## Curriculum by Course

No	Course Name	Credit Hour	Semester (odd/even)
1	Method of Engineering Research	2	odd
2	Environmental Data Analysis	2	odd
3	Pollution Control Technology	2	odd
4	Water Resources Engineering	2	odd
5	Simulation for Environmental Engineering	2	odd

No	Course Name (Environmental Control)	Credit Hour	Semester (odd/even)
6	Thesis Proposal	3	even
7	Water Treatment	2	even
8	Engineering Wastewater Treatment	2	even
9	Waste Processing Engineering	2	even
10	Gaseous and Particulate Emission	2	even
11	Soil Remediation Engineering	2	even



No	Course Name (Environmental Infrastructure)	Credit Hour	Semester (odd/even)
6	Thesis Proposal	3	even
7	Infrastructure Engineering for Housing sanitation	2	even
8	Urban Drainage Engineering Design	2	even
9	Urban Water Supply Engineering	2	even
10	Landfill Engineering and Rehabilitation	2	even
11	Urban Wastewater Sewerage Engineering	2	even

No	Course Name (Elective)	Credit Hour	Semester (odd/even)
12	Climate Change	2	odd
13	Desalination Technology and Water Reuse	2	odd
14	Reliability Technology of Environmental	2	odd
15	Infrastructure Environmental	2	odd
16	Phytotechnology Site Investigation for Environmental	2	odd
17	Infrastructure Indoor Air Quality in Built Environment	2	odd
18	Environmental Carrying Capacity Engineering	2	Odd
19	Built Environment Engineering	2	Odd
20	Energy System in Bioprocess	2	Odd
21	Capita Selecta	2	Odd
22	Seminar and Publication	3	even
23	Thesis	6	Even

## Curriculum by Research

No	Course Name	Credit Hour	Semester (odd/even )
1	Research Thesis Proposal	3	Odd
2	Research I	9	Odd
3	Research II	8	Odd
4	Research Seminar	3	Odd
5	Publication	7	Odd
6	Thesis	6	Odd





# Master Program in Environmental Science

<http://https://mil.undip.ac.id/en>

## Program Description

There are four major scientific objectives in this programme;

- To understanding and able to take a role in environmental-related development;
- Has capacity in improving professional role and services through environmental reasoning and analysis;
- Able to formulate the approach and strategy in various environmental issues management;
- Able to improve the capacity in developing professional performance in broader spectrum according to their competences

## Curriculum by Course

No	Course Name	Credit Hour	Semester (odd/even )
1	Philosophy of Science and Research Methodology	3	Odd
2	Environmental Economics and Natural Resources	3	Odd
3	Environmental Statistics	2	Odd
4	Ecology and Environmental Pollution	3	Odd
5	Computer Applications and Environmental Modelling	3	Odd

No	Course Name	Credit Hour	Semester (odd/even)
6	Environmental Law and Policy	2	even
7	Conservation of Natural Resources and the Environment	3	even
8	Environmental Pollution Control	2	even
9	Environmental Risks in Disaster	2	even
10	Elective Courses	4	even

No	Course Name	Credit Hour	Semester (odd/even)
11	Capita Selecta	2	odd
12		1	odd
	Field Work		
13		2	odd
	Thesis proposal		
14	Elective Courses	2	odd

No	Course Name	Credit Hour	Semester (odd/even)
15	Scientific Publications and Seminars	2	even
16		6	even
	Thesis		

## Curriculum by Research

No	Course Name	Credit Hour	Semester (odd/even)
1	Philosophy of Science and Research Methodology	3	Odd
2	Research proposal I	3	Odd
3	Research proposal II	3	Odd
4	Research I	5	Odd
5	Research II	6	Even
6	Research Publications	7	Even
7	Research Evaluation I	3	Odd
8	Research Evaluation II	3	Odd
9	Research Seminar	3	Odd
10	Thesis	6	Even

# Contact Us

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