



UNIVERSITAS
INDONESIA

"Think Critically and Creatively"



Master of Science in **Physics**

Two Years Program by Course or Research



<http://physics.ui.ac.id>

► Objective

The Master Program in Physics aims to prepare graduates to achieve the following criteria:

1. Teaching staff and researchers who can teach in undergraduate education programs in physics plan and carry out research in Physics and Applied Physics.
2. Researchers at research institutes who can design and carry out research in the field of Physics and Applied Physics.
3. Professionals or experts in academia/research, industry, hospitals and other multinational companies can learn and adapt quickly to the industrial work environment and solve problems in their work environment by applying physical science and scientific thinking.

► Graduate Profile

Master Program in Physics graduates who can think critically and creatively with a vital mastery of physics to be able to contribute to solving science and technology problems on a national and international level, build professional careers in fields related to Physics or Applied Physics, as well as communicate and collaborate as citizens world.

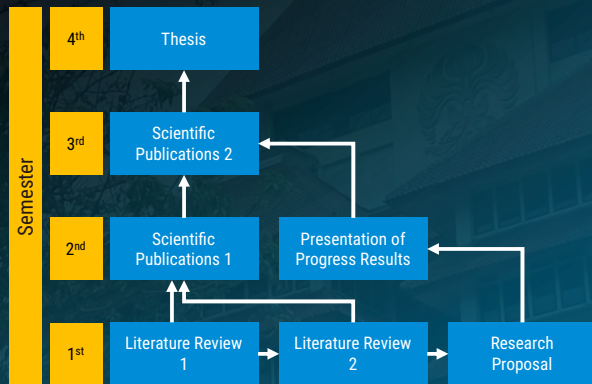
► Program Learning Outcomes

1. Able to conduct scientific research in one of the fields of Physics and Applied Physics (Competence - C)
2. Able to apply Physics and Applied Physics concepts in solving a problem (Knowledge -K)
3. Able to analyze issues comprehensively related to Physics and Applied Physics (C)
4. Able to formulate problems using Physics and Applied Physics methods to solve the cases in their work field (K)
5. Able to produce valuable products related to Physics and Applied Physics for contributing to the community (C)
6. Able to construct systematic reports and research manuscripts to be published in international or national publishers (C)
7. Able to present the results of work and research systematically in a global or national academic forum (Skill – S)

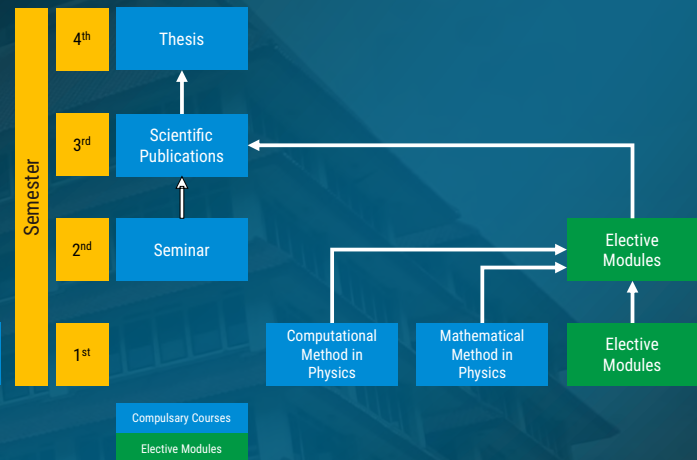
► Curriculum Structure

The Master Program in Physics is designed as a 2-year program (4 terms), obtaining 36 - 40 SKS. The Master Program in Physics curriculum consists of two programs: by-research and by-course.

By Research MPPhy



By Course MPPhy



► Specialization

The Master Program in Physics has five specializations to facilitate both lecturing modules and research area:

1. Nuclear Physics, Particles, and Theoretical Astrophysics
2. Condensed Matter Physics
3. Instrumentation Physics
4. Reservoir Geophysics
5. Geothermal Exploration

► Prospectus Faculty Member



Abd. Haris, Prof. Dr. rer. nat.



Adam B. Cahaya, Dr.



Adhi Harmoko, S, Ph.D.



Agus Salam, Dr. rer. nat.



Anto Sulaksono, Prof. Dr.



Arief Sudarmaji, Dr.



Dede Djuhana, Ph.D.



Djati Handoko, Ph.D.



Djoko Triyono, Prof. Dr.



Efta Yudiarsah, Ph.D.



Handhika S. R., Ph.D.



Imam Fachruddin, Dr.



Martarizal, Dr. rer. nat.



M. Syamsu Rosid, Ph.D.



Muh. Aziz Majidi, Ph.D.



Prawito Prajitno, Dr.

► Prospectus Faculty Member



Rosari Saleh, Prof.Dr. rer.nat.



Santoso, Dr.



Sastra K. Wijaya, Ph.D.



Terry Mart, Prof. Dr.



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Veritas, Probitas, Iustitia

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