

Module Distribution

I. Course-Research Program

SEMESTER 1	
Courses	Credits
Integration of Science and Mathematics	4
Philosophy of Science	2
Elective Modules	8
Total	14

SEMESTER 2	
Courses	Credits
Research Proposal	8
Elective Modules	6
Total	14

SEMESTER 3	
Courses	Credits
Research Progress 1	8
Scientific Publication	6
Total	14

SEMESTER 4	
Courses	Credits
Research Progress 2	10
International Publication 1	6
Total	16

SEMESTER 5	
Courses	Credits
International Publication 1	6
Dissertation Examination 1	8
Total	14

SEMESTER 6	
Courses	Credits
Dissertation Examination 1	12
Doctoral Promotion	4
Total	16

II. Research Program

SEMESTER 1	
Courses	Credits
Literature Review 1	5
Literature Review 2	5
Total	10

SEMESTER 2	
Courses	Credits
Research Proposal	8
Total	8

SEMESTER 3	
Courses	Credits
Research Progress 1	8
Scientific Publication (R)	10
Total	18

SEMESTER 4	
Courses	Credits
Research Progress 2	10
International Publication 1 (R)	8
Total	18

SEMESTER 5	
Courses	Credits
Dissertation Examination 1	8
International Publication 2 (R)	10
Total	18

SEMESTER 6	
Courses	Credits
Dissertation Examination 2	12
Doctoral Promotion	4
Total	16



Doctoral Programme in Chemistry

Scan E-Brochure



Information and Registration

penerimaan.ui.ac.id

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Department of Chemistry
Faculty of Mathematics and Natural Sciences
Universitas Indonesia

Vision

Department of Chemistry, Universitas Indonesia is committed to become the centre of excellence in education and research in chemistry, which contributes to the development of science and technology both at national and regional level.

Mission

1. To produce chemistry graduates who are able to compete at both national and international levels with the ability to adapt to changes and development of science and technology.
2. To establish a strong institution that is able to play a key role in the advancement of chemistry and its applications.
3. To develop the centre of information in the field of chemistry which can contribute to solving problems in the community.

Program Learning Outcomes (PLO)

1. Able to compile knowledge and technology, in the field of chemistry or professional practice through research to produce creative, original, and tested work.
2. Able to formulate scientific and technological arguments and solutions based on a critical chemical view of facts, concepts, principles, or theories through inter, multi, and transdisciplinary approaches that can be scientifically and ethically justified.
3. Able to communicate knowledge, technology, and understanding of Chemistry in designing innovative and quality products or systems in applications in the fields of energy, health, environment, and food safety through conventional and online media that support independent professional development and lifelong learning .
4. Able to construct a research roadmap with an interdisciplinary, multidisciplinary, or transdisciplinary approach independently and objectively, based on a study of the main targets of chemical research and publications that are recognized nationally and internationally.

Graduate Profile

Doctoral in Chemistry Graduates who are able to solve complex problems in the field of materials/models/systems and processes/formulas/compositions through research that focuses on energy, health, environment, and food safety with an inter, multi or transdisciplinary approach in accordance with academic ethics with results that are recognized nationally and internationally.

Objective

1. To organize a quality and reputable doctoral education program in chemistry so that it gains recognition at regional and international levels.
2. To produce doctoral graduates in chemistry with competence in the field of chemistry and its applications that focus on energy, environment, and health, who are competitive at national and international levels.
3. To correlate the field of chemical science comprehensively in order to solve problems in society through an inter, multi, and/or transdisciplinary approach.

Curriculum Structure and Modules

- The Doctoral in Chemistry is implemented by-research and by-course-research programme.
- The Doctoral Programme of Chemistry requires 88 credits (158.4 ECTS) with a study period of 3-5 years.

Admision Requirements

By- research programme	By-course research programme
Bachelor and Master graduates in Chemistry, Chemical Engineering or relevant fields (Graduates from programs other than the same field must undergo matriculation before starting doctoral study)	Bachelor and Master graduates in Chemistry, Chemical Engineering or relevant fields (Graduates from programs other than the same field must undergo matriculation before starting doctoral study)
GPA min 3.00 of 4.00 scale	GPA min 3.00 of 4.00 scale
TOEFL Score \geq 500 atau IELTS Score \geq 6	TOEFL Score \geq 500 atau IELTS Score \geq 6
TPA Score \geq 550	TPA Score \geq 550
-	Have at least 2 scientific publications
-	Have a recommendation letter from a lecturer in Doctoral Programme of Chemistry who is willing to be a candidate promoter
Have dissertation research proposal	Have dissertation research proposal
Pass SIMAK Selection (Written and Interview)	Pass SIMAK Selection (Written and Interview)

