Admission Number

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Doctor of Philosophy Programme in Physics (International Programme)

หลักสูตร ปรัชญาดุษฏีบัณฑิต สาขาวิชา ฟิสิกส์ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science Department of Physics

คณะวิทยาศาสตร์ ภาควิชา ฟิสิกส์

Expected number of students to be accepted all year round: 20 Students

Admission Requirements

A candidate must:

- 1. Thai or foreign national without severe health difficulty.
- 2. hold a Bachelor's degree in Physics, Chemistry or Mathematics with a minimum grade point average of 3.50 or have a Master's degree in Physics, Chemistry, Mathematics, Geology, General Science, Engineering or related fields with a minimum grade point average of 3.50.
- 3. have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internet-based score of 61, or IELTS score of 5.

Those who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.

Exemptions from the above conditions may be made by the Programme Committee and the Dean of Faculty of Graduate Studies.

Curriculum Structure

credit	
For students with Master's degree	
Required Courses	6
Elective Courses not less than	6
Dissertation	36
For students with Bachelor's degree	
Required Courses	21
Elective Courses not less than	3
Dissertation	48

			credit
Require	ed Cour	ses	
For stu	dents w	ith Bachelor's degree	
SCPY	502	Classical Mechanics	3(3-0-6)
SCPY	503	Quantum Mechanics	3(3-0-6)
SCPY	504	Thermodynamics and Statistical Physics	3(3-0-6)
SCPY	505	Mathematical Methods for Physicists	3(3-0-6)
SCPY	507	Classical Electrodynamics	3(3-0-6)
SCPY	508	Contemporary Physics	3(3-0-6)
SCPY	593	Seminar III	1(1-0-2)
SCPY	594	Seminar IV	1(1-0-2)
SCPY	595	Seminar V	1(1-0-2)
For stu	dents w	ith Master's degree	
SCPY	508	Contemporary Physics	3(3-0-6)
SCPY	593	Seminar III	1(1-0-2)
SCPY	594	Seminar IV	1(1-0-2)
SCPY	595	Seminar V	1(1-0-2)
Elective	e Cours	es	
SCPY	511	Atomic and Molecular Physics	3(3-0-6)
SCPY	512	Celestial Mechanics	3(3-0-6)
SCPY	513	Computational Physics	3(3-0-6)
SCPY	515	Electrical Materials	3(3-0-6)
SCPY	516	Electronic Devices and Circuits	3(3-0-6)
SCPY	517	Fluid Mechanics	3(3-0-6)
SCPY	518	Numerical Analysis	3(3-0-6)
SCPY	519	Nuclear Physics	3(3-0-6)
SCPY	521	Physics of Semiconductor	3(3-0-6)
SCPY	522	Advanced Quantum Mechanics	3(3-0-6)
SCPY	523	Classical Field Theory	3(3-0-6)
SCPY	524	Fourier Optics	3(3-0-6)
SCPY	531	Cosmic Rays	3(3-0-6)
SCPY	543	Surface and Interface Physics	3(3-0-6)
SCPY	561	Fundamentals of Biophysics	3(3-0-6)
SCPY	562	Modeling and Simulation in Biophysics	3(3-0-6)
SCPY	570	Signal and Image Processing	3(3-0-6)
SCPY	571	Parallel Programming	3(3-0-6)
SCPY	572	Geophysical Prospecting: Theory and Applications	3(3-0-6)
SCPY	573	Geophysical Prospecting: Data Acquisition and Interpretation	3(3-0-6)
SCPY	619	Quantum Theory	3(3-0-6)
SCPY	620	Non-Perturbative Methods in Quantum Field Theory	3(3-0-6)

SCPY 621 Super symmetry in Field Theory and String 3(3-0-6) SCPY 623 Quantum Optics 3(3-0-6) SCPY 624 Quantum Information and calculation 3(3-0-6) SCPY 624 Quantum Keys and communication 3(3-0-6) SCPY 625 Quantum Theory and Applied Quantum Information in Economy 3(3-0-6) SCPY 626 Physics Education 3(3-0-6) SCPY 627 Data Analysis in Physics Education 1(1-0-2) SCPY 630 Physics of The Solid Earth 3(3-0-6) SCPY 630 Physics of The Solid Earth 3(3-0-6) SCPY 630 Optoelectronics 3(3-0-6) SCPY 636 Optoelectronics 3(3-0-6) SCPY 637 Molecular Simulation 3(3-0-6) SCPY 638 Molecular Quantum Mechanics 3(3-0-6) SCPY 639 Quantum Field Theory 3(3-0-6) SCPY 630 Theory of Many-Particle Systems 3(3-0-6) SCPY 631				
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SCPY 671 Exploration Seismology 3(3-0-6)	SCPY	668	Contemporary Biophysics	3(3-0-6)
, ,	SCPY	670	Inverse Theory and Applications	3(3-0-6)
SCPY 672 Geophysical Forward Modeling and Inversion 3(3-0-6)	SCPY	671	Exploration Seismology	3(3-0-6)
	SCPY	672	Geophysical Forward Modeling and Inversion	3(3-0-6)

SCPY 684	Selected Topics in Geophysics	3(3-0-6)			
Dissertation					
SCPY 699	Dissertation	36(0-108-0)			
SCPY 799	Dissertation	48(0-144-0)			
* These May Change in Cases Where There are Suggestions for The Improvement he Curriculum					

Details of Scholarships

- 1. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
- 2. Science Achievement scholarship of Thailand. (ทุนรียนดีวิทยาศาสตร์แห่งประเทศไทย)
- 3. Institutional Strengthening Program (ทุนเสริมสร้างนักวิทยาศาสตร์รุ่นใหม่)
- 4. Teaching Assistantship Development (ทุนพัฒนาผู้ช่วยสอน)

Additional Information for Applicants

There are several research field of interest as can be seen on our website.

Application Process

Application is only available via online application at www.grad.mahidol.ac.th.

Required Documents

Prepare the following required documents to submit via online admission system or post:

- Two (2) recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification 2 copies (for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the last semester prior to graduation 2 copies (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
 2 copies
- A grade report with course names and grades received from the first to the current 2 copies semester prior to graduation
- A copy of identification card 2 copies
- A copy of house registration certification 2 copies 2
- A copy of proof of payment.

Submitting documents via online admission system.

- All documents must be in <u>pdf format</u> (maximum size 2 MB)
- Recent photograph must be in <u>ipeq format</u> only (maximum size 2 MB)

Job option after graduation

- 1. Research and academic positions in private sectors, government offices and universities.
- 2. Industrial segments in Applied Physics.
- 3. SME Businesses in Applied Physics.

Further information may be obtained from Director of Graduate Studies, Physics:

1. Assoc. Prof. Dr. Weerachai Siripunvaraporn (E-mail: weerachai.sir@mahidol.ac.th)

Room P.605, Physics Building, Floor 6,

Department of Physics, Faculty of Science,

Tel.: 0 2201 5770-1 Fax.: 0 2354 7159

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Program Coordinator

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Note 1. For more education information: www.grad.mahidol.ac.th

For more Information please contact The Student Admission Section. Tel. 0 2441 4125 ext. 208-210, 0 2441 9129, E-mail: gradthai@mahidol.ac.th



Letter of Recommendation

for Admission to the Physics Graduate Program, Mahidol University

Please complete the form and return it directly to: Head of Ph.D. program

Department of Physics, Faculty of Science Mahidol University 272 Rama VI Rd., Ratchathewi Bangkok 10400

Applicant's name:
Part I: Evaluator's information
Title and name:
School or Business:
Address:
Telephone number:
E-mail address:
Part II: Please answer the following questions about the applicant.
How do you know the applicant?
How long have you known the applicant?
In terms of his or her academic ability, how does the applicant rank among other students in his or her group (e.g Top 10% of his or her class)?

Part III: What qualifies to	his applicant for the graduate program at I	Mahidol
University? Please explo	in. Please also give information about his	or her past
accomplishments, partic	ularly in research.	
Evaluator's signature	Date	
<u> </u>		
Note that Letter of Reco	ommendation and Statement of Purpose sh	nould be

returned as soon as possible to the program. Please submit the evaluation forms

Please submit the evaluation forms with your application.

with your application.