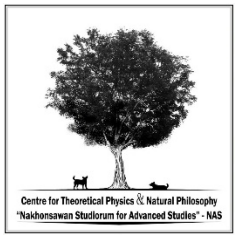

หลักสูตรประกาศนียบัตรฟิสิกส์บัณฑิตศึกษา
(หลักสูตรนานาชาติ)

Certificate in Graduate Physics
(International Program)

สิกขาลัยเพื่อการค้นคว้าขั้นก้าวหน้า
ศูนย์ฟิสิกส์ทฤษฎีและปรัชญาธรรมชาตินครสวรรค์

พ.ศ. 2566

Certificate in Graduate Physics
(International Program B.E. 2566)

NAS, Centre for Theoretical Physics and Natural Philosophy

1. Curriculum Name

English Certificate in Graduate Physics (International Program)
Thai ประกาศนียบัตรฟิสิกส์บัณฑิตศึกษา (หลักสูตรนานาชาติ)

2. Names of Qualification and Majors

2.1 Full Title English: **Certificate in Graduate Physics**
Abbreviation English: **Cert. Grad. Phys.**
Full Title Thai: **ประกาศนียบัตรฟิสิกส์บัณฑิตศึกษา**
Abbreviation Thai: ไม่มี

3. Major Subjects (if any)

none

4. Required Credits

none

5. Curriculum Characteristics

5.1 **Curriculum type/model:** Certificate
5.2 **Language:** English
5.3 **Recruitment:** Both Thai and international students

6. Curriculum Status and Curriculum Approval

6.1 Program new B.E. 2566
6.2 Starting in semester 1, academic year 2023 onwards
6.3 Approval by NAS faculty meeting on October 4, 2023 (retroactive validation from 1 August 2023)

7. Venue for Instruction

Centre for Theoretical Physics and Natural Philosophy, Mahidol University, Nakhonsawan Campus

8. Fee: There is no fee for the qualification. Students, if they wish, may contribute by donation for supporting NAS operation works.

9. Curriculum and Graduation Requirements

Students are required to take and receive not lower than B grade in each selected subject for at least 12 credits of NWTP 5xx-level taught courses of Mahidol University's "current" Doctor of Philosophy curriculum in Theoretical Physics and Natural Philosophy.

The certificate is conferred upon a person only once.

The graduation requirement is to be judged by NAS faculty meeting which also has full right to withdraw the qualifications awarded.

Eleven Courses (PhD 2566) eligible for the certificate

NWTP 511	Classical Dynamics	2 (2-0-4)
NWTP 512	Quantum Mechanics	2 (2-0-4)
NWTP 521	Equilibrium Thermodynamics and Phase Transitions	2 (2-0-4)
NWTP 531	Fluid Dynamics	2 (2-0-4)
NWTP 501	Mathematical Methods of Physics	2 (2-0-4)
NWTP 502	Green's Functions and Propagations	2 (2-0-4)
NWTP 503	Numerical Methods in Physics	2 (2-0-4)
NWTP 513	Classical Electrodynamics	2 (2-0-4)
NWTP 522	Equilibrium Statistical Mechanics and Kinetic Theory	2 (2-0-4)
NWTP 532	Vibrations and Waves	2 (2-0-4)
NWTP 551	Special Relativity	2 (2-0-4)

(Professor Burin Gumjudpai, Ph.D.)

NAS Acting Director

On behalf of the NAS Faculty Meeting on the 4th October 2023