

Doctor of Philosophy Program in Environmental Technology (International Program)

Ph.D (Environmental Technology)

Philosophy of the Program:

The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi has the founding philosophy to be a national center of excellence for research and training in energy technology to produce high caliber human resources for science and technology related to energy and environment as a result of the impact of the production and utilization of energy. Doctor of Philosophy Program in Environmental Technology is aimed at producing qualified personnel who can create a new body of knowledge based on international standard research and analysis. This program can appropriately suit the institute's determination to produce high quality personnel with high responsibility to solve local and international problems. The graduates are also equipped with professional ethics and can effectively solve practical problems occurring in industrial or government sectors.

Professions after graduation

1. Scientists/Researchers in fields related to environment and energy
2. Academics in environment and energy
3. Analysts and planners in environmental policy and climate change
4. Lecturers
5. Consultants in environment and energy
6. Database administrators in environment and energy
7. Coordinators/Consultants in environment and carbon reduction mechanism
8. Specialists in energy and environment in government and private sectors in the following fields:
 - Analysis and planning in energy and environment policy and climate change
 - Administration and management of energy and environment in industrial sectors
 - Energy production from waste and garbage
 - Production, transformation and distribution of fuels and energy
 - Environment management system development in energy-intensive industries especially cement industry, ceramics, steel, petro chemistry, pulp and paper

Curriculum

Plan 2.1 for student with Master degree 55 Credits

Plan 2.2 for student with Bachelor degree 75 Credits

Curriculum Components

Plan 2.1 for student with Master degree

- Major Course 7 Credits
- Elective Course 6 Credits
- Dissertation 42 Credits

Plan 2.2 for student with Bachelor degree

- Major Course 7 Credits
- Elective Course 18 Credits
- Dissertation 50 Credits

COURSE STRUCTURE

Plan 2.1 for student with Master degree

First Year/ First Semester		Credits
JEE 711	(Seminar for Ph.D (Environmental Technology))	1
JEE 606*	(Mathematical Techniques)	3
JEE 607*	(Optimization Techniques)	3
JEE 613	(Research Methodology (Environmental Technology))	3
XXX	(Elective (As recommended by advisor))	3
XXX	(Elective (As recommended by advisor))	3
Total		13

First Year/ Second Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	9
Total		9

Second Year/ First Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	9
Total		9

Second Year/ Second Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	9
Total		9

Third Year/ First Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	9
Total		9

Third Year/ Second Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	6
Total		6

Plan 2.2 for student with Bachelor degree

First Year/ First Semester		Credits
JEE 711	(Seminar for Ph.D (Environmental Technology))	1
JEE 606*	Mathematical Techniques)	3
JEE 607*	(Optimization Techniques)	3
JEE 613	(Research Methodology (Environmental Technology))	3
XXX	(Elective (As recommended by advisor))	3
XXX	(Elective (As recommended by advisor))	3
Total		13

First Year/ Second Semester		Credits
XXX	(Elective (As recommended by advisor))	3
XXX	(Elective (As recommended by advisor))	3
XXX	(Elective (As recommended by advisor))	3
XXX	(Elective (As recommended by advisor))	3
Total		12

Second Year/ First Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	10
Total		10

Second Year/ Second Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	10
Total		10

Third Year/ First Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	10
Total		10

Third Year/ Second Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	10
Total		10

Forth Year/ First Semester		Credits
JEE 712	(Dissertation for Ph.D (Environmental Technology))	10
Total		10