Catalog of Postgraduate Programs and Curricula

Curriculum for MPhil(AME)
(For students admitted in 2010-11)

Program Requirements for Master of Philosophy (MPhil) Program in Advanced Materials Engineering

Credits

1. To complete **at least 15 credits** of postgraduate coursework (excluding LANG 501), of which 12 credits must be from courses in disciplines related to each student's fields of research, including 9 credits from the following core curriculum:

CENG	540	*Advanced Transport Phenomena*
CENG	551	*Processing of Polymers and Polymer Composites*
CENG	584	*Nanomaterials for Chemical Engineering Applications*
CIVL	524	*Advanced Concrete Technology*
CIVL	525	*Renovation Engineering*
CIVL	533	*Advanced Mechanics of Materials*
IELM	526	*Design and Analysis of Engineering Experiments*
IELM	531	*Six Sigma Management Techniques*
MECH	501	*Foundation of Solid Mechanics*
MECH	504	*Nanoscale Thin Films and Nano-Structure Materials*
MECH	505	*Fracture of Polymers*
MECH	541	*Advanced Mechanical Behaviour of Materials*
MECH	543	*Thermodynamics and Kinetics of Materials*
MECH	548	*Nanocomposite Science and Technology*
MECH	593	*Finite Element Methods*

2. Students are required to complete 3 credits of extra-disciplinary common course(s) at 500-level designed and offered by the Fok Ying Tung Graduate School.

Postgraduate Seminar

1. To attend a research seminar course in any of the SENG departments (e.g. CENG 680, CIVL 680, CIVL 681, MECH 609) for 1 semester when they are studying in Clear Water Bay campus.

2. To register an attendance rate of at least 50% in one Nansha Campus Seminar Series when they are studying in Nansha.

3. To make presentation at least once in a seminar in the Nansha Campus Seminar Series.

Language Requirements

Students must attend and pass LANG 501 *Postgraduate English for Academic Purposes*.

The 1 credit earned from LANG 501 cannot be counted toward the credit requirements.

Research and MPhil Thesis Examination

1. To conduct research and enroll in FYTG 699 *MPhil Thesis Research*; and
2. To defend the MPhil thesis successfully.