Faculty of Engineering
Department of Biological and Agricultural Engineering
www.eng.upm.edu.my
Master Of Emergency Response And Planning
PROGRAMME REQUIREMENTS

Credit Requirements for Graduation

Students enrolling under this programme must fulfill 40 credits of course work to graduate. The credit distributions for compulsory courses, elective courses and projects are as follows:

Compulsory Courses: 19 credits
Elective Courses: 15 credits
Project: 6 credits

Compulsory Courses

Students must register all the listed compulsory courses:

- EAB5401 Hazard, Risk and Ethics 3 credits
- EAB5302 Building Services 3 credits
- EAB5403 Disaster Recovery and Contingency 3 credits
- EAB 5404 Emergency Response Planning Network 3 credits
- EAB 5406 Occupational Safety and Health Evaluation 3 credits
- EAB 5988 Project 6 credits
- EMM5201 Independent Study 3 credits
- EAB5977 Fire Safety Engineering and Regulations 1 credit

Elective Courses

Students must register five elective courses out of the listed courses:

- EAB 5310 Natural Resource Conservation 3 credits
- EAB5312 Slope Stability and Landslides 3 credits
- EAB5316 Sedimentation 3 credits
- EAB5609 Energy Sources 3 credits
- EAB5411 Emergency Risk Management 3 credits
- EAB5412 Information Engineering 3 credits
- EAB5421 Forensics Science 3 credits
- EAB5422 Public Safety and Security 3 credits

Project

Students are required to register EAB5988-Project for 3 credits in the second semester and another 3 credits in the third semester. This course is a project paper on a special topic that will be assigned to the students in the second semester. Students will be examined by a panel of examiners based on the submitted report and oral presentation at the end of third semester.
Course Synopsis

EAB5401  Hazard, Risk and Ethics  3 credits
This course covers the comparisons and analyses between various types of hazard, risk associated with hazards and the ethics and efficiency aspects in facing and responding to the risk.

EAB5302  Building Services  3 credits
This course covers basic building services such as ventilation systems, support systems for water supply and electricity, fire service and drainage.

EAB5403  Disaster Recovery and Contingency  3 credits
This course covers discussion on various disasters and their impacts, contingency plans during critical time and prevention plan through database construction.

EAB 5404  Emergency Response Planning Network  3 credits
This course covers organizational elements, professional network, leadership and disaster management.

EAB 5406  Occupational Safety and Health Evaluation  3 credits
This course covers law, human management, and risk reduction for safety and health at work.

EAB 5310  Natural Resource Conservation  3 credits
This course covers conservation of natural resource through law, engineering information, and design and resource conservation concepts.

EAB5312  Slope Stability and Landslides  3 credits
This course covers erosion and landslide problems and slope stabilization methods.

EAB5316  Sedimentation  3 credits
This course covers the concepts of geomorphological erosion of the soil such as sediment hydraul properties, sediment yield and sediment control methods.

EAB5609  Energy Sources  3 credits
This course discusses the issue of conventional and alternative energies, conversion technologies and contingencies.

EAB5411  Emergency Risk Management  3 credits
This course gives an overview of the various type of emergency risks and the best practices and proper methodologies in strategic emergency risk management.

EAB5412  Information Engineering  3 credits
This course covers methods to present information inputs by cognitive modeling and virtual reality exercises.

EAB5421  Forensics Science  3 credits
This course covers investigation of disasters, industrial accidents, and risks of fire by analyzing physical evidences using forensic technique and witnesses’ interviews.

EAB5422  Public Safety and Security  3 credits
This course covers public defense system such as security management, internal and external defense system, asset and losses control system and case analysis.

EAB5988  Project  6 credits
This course is related to a research project whereby student will select one related topic and do literature review, data collection and analysis. The scope of research will be determined by the supervisor based on the discussion with the student. Students have to submit written report at the end of the semester. The students need to present the research results in front of the panels as a graduation requirement.

EMM5201  Fire Safety Engineering and Regulations  3 credits
This course covers all aspects that can cause fire and the related systems, passive and active fire protection and related acts.

EAB5977  Independent Study  1 credit
Students are required to carry out an independent study on a selected topic that is relevant to his/her field of study and prepare a report at the end of the semester. Students will be supervised by one or more lecturers.

For more information

Please contact:

Deputy Dean (Research)  Department of Biological and Agricultural Engineering
Faculty of Engineering  Faculty of Engineering
Universiti Putra Malaysia  Universiti Putra Malaysia
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Programme Coordinator:

Desa Ahmad (Prof. Ir. Dr.)
ADMISSION REQUIREMENTS

An applicant with a bachelor degree in engineering with CGPA 2.500/55%/Second Class Lower and at least three (3) years working experience in relevant field; or
An applicant with a bachelor degree in engineering with CGPA 2.750/60%/Second Class Lower
An applicant with a bachelor degree in science with CGPA 3.000/65%/Second Class Upper OR CGPA 2.750/60%/ Second Class Lower and at least three (3) years working experience in relevant field

* Please refer to programme coordinator for more information on admission requirements

FEES

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<tr>
<th></th>
<th>Master without thesis</th>
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<tr>
<td></td>
<td>Malaysian Student</td>
<td>International Student</td>
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<td>Basic Fees (1st semester)</td>
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<td>Credit Fees</td>
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Language Requirement

• A Malaysian candidate must have obtained at least a credit in English at Sijil Pelajaran Malaysia level or have passed English courses conducted at the Diploma or Bachelor’s Level.

• All international candidates from countries where English is not a medium of instruction must have obtained a minimum score of 550 for TOEFL or Band 6 for IELTS. This requirement is not applicable to candidates applying for admission into the Malay Language Studies.

• A candidate without the requisite minimum score for TOEFL or IELTS may be granted a provisional admission. Such candidate will be required to pass an English Placement Test conducted by the University.

• A candidate who has failed the English Placement Test will be required in the first semester to pass a prescribed English course. Should the candidate fail to obtain the prescribed minimum grade, the University may allow him to repeat the prescribed English course in the second semester.

• A candidate who fails after the second attempt will have his candidature suspended until he passes the English course before being allowed to continue with his Masters programme.

Application For Admission

Please apply online via http://www.sgs.upm.edu.my and send your application with supporting documents to the address below:

Dean
School of Graduate Studies
Universiti Putra Malaysia
Zon 4, Off Jalan Stadium
43400 UPM Serdang
Selangor Darul Ehsan
Malaysia

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