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
Projects 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
EAB5989 Project 6 credits
EMM5201 Fire Safety Engineering and Regulations 3 credits
SPS5903 Master’s Research Proposal Seminar 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
EAB5900 Research Methodology 3 credits

Project

Students are required to register EAB5989-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

EAB5711 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

EAB5712 Information Engineering 3 credits
This course covers methods to present information inputs by cognitive modeling and virtual reality exercises

Forensics Science

EAB5721 3 credits
This course covers investigation of disasters, industrial accidents, and risks of fire by analyzing physical evidences using forensic technique and witnesses’ interviews

EAB5722 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

EAB5900 Research Methodology 3 credits
This course covers best practices research such as research methodology, design and ethics, and thesis writing and oral presentations

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

SPS5903 Master's Research Proposal Seminar 1 credit
This course covers the preparation and presentation of a Master’s research proposal, encompassing an introduction to the research topic, theoretical framework, scope of the study, objectives, statement of the research problem, literature review, research design and methodology

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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Website : http://www.eng.upm.edu.my Website : http://www.eng.upm.edu.my

Programme Coordinator:
Desa Ahmad (Prof. Ir. Dr.)
ADMISSION REQUIREMENTS

An applicant with a bachelor degree in engineering with CGPA 2.50/55%/Second Class Lower and at least three (3) years working experience experiences 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 experiences in relevant field

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

FEES

<table>
<thead>
<tr>
<th>Fees</th>
<th>Master without thesis</th>
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<tbody>
<tr>
<td></td>
<td>Malaysian Student</td>
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<tr>
<td>Basic Fees (1st semester)</td>
<td>1,200.00</td>
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<tr>
<td>Basic Fees (2nd and subsequent semester)</td>
<td>950.00</td>
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<tr>
<td>Credit Fees</td>
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* subject to change

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 supporting documents to the address below:

Dean
School of Graduate Studies
Universiti Putra Malaysia
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43400 UPM Serdang
Selangor Darul Ehsan
Malaysia

Tel. : (603) 8946 4218/4223/4228
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Email : admission@putra.upm.edu.my
Website : http://www.sgs.upm.edu.my