Admission Number

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Master of Engineering Programme in Railway Transportation System (International Programme) หลักสูตร วิศวกรรมศาสตรมหาบัณฑิต สาขาวิชา ระบบขนส่งทางราง(หลักสูตรนานาชาติ)(ภาคปกติ)

Faculty of Engineering คณะวิศวกรรมศาสตร์

Expected number of Students to be accepted all year round: 11 Students

Admission Requirements

A candidate must:

- 1. Plan A (A2)
- 1.1 Graduated (or expected to graduate prior to the applied semester) in a Bachelor Degree of Engineering, Science, or related fields from the institutes/universities that are certified by the Office of the Higher Education Commission
- 1.2 Earn a 2.50 GPA or higher. Special consideration may be granted for prospective students with a GPA below 2.50 on an individual basis.
 - 1.3 Submit a certificate of English proficiency with minimum admission score:
 - · IELTS at least 3 or
 - · TOEFL INTERNET BASED at least 32 or
 - · TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) at least 400 or
 - · MU GRAD TEST (Computer based) at least 36

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
- Application without submitting a valid English certificate will NOT be considered.
- MU English Competence Standards: www.grad.mahidol.ac.th
- MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies.
 Tel. 0-2441-4125 ext. 221-222
- 1.4 Exceptions from the above requirements may be made by the Program Committee and the Dean of Faculty of Graduate Studies

2. Plan B

- 2.1 Graduated (or expected to graduate prior to the applied semester) in a Bachelor Degree of Engineering, Science, or related fields from the institutes/universities that are certified by the Office of the Higher Education Commission
- 2.2 Earn a 2.50 GPA or higher. Special consideration may be granted for prospective students with a GPA below 2.50 on an individual basis.
- 2.3 Have at least 3 years of working experiences relate to Railway Transportation System or related fields
 - 2.4 Submit a certificate of English proficiency with minimum admission score:
 - · IELTS at least 3 or
 - · TOEFL INTERNET BASED at least 32 or
 - · TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) at least 400 or
 - · MU GRAD TEST (Computer based) at least 36

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
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- MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies.
 Tel. 0-2441-4125 ext. 221-222
- 2.5 Exceptions from the above requirements may be made by the Program Committee and the Dean of Faculty of Graduate Studies

Credit

		Plan A (A2)		Plan B	
Required Cour	ses	15		15	
Elective Course	es no less than	9		15	
Thesis		12		6	
Total no less t	han	36		36	
Required Cour	ses				
EGRS 501	Rail Transport System Seminar		1(1-0-2))	
EGRS 502	Research Methodology for Railway Transportat	ion	2(2-0-4))	
EGRS 503	Rail Transportation Project Planning and Management)	
EGRS 504	Railway System Components and Standards		3(3-0-6))	
EGRS 505	Railway Signaling and Operations		3(3-0-6))	
EGRS 506	Principle of Service and Maintenance Design fo	r Rail System (RAMS)	3(3-0-6))	
Elective Course	e s				
EGRS 511	Applied Statistics and Simulation for Railway Sy	stem Planning	3(2-2-5))	
EGRS 512	Railway Planning and Timetabling		3(3-0-6))	
EGRS 513	Railway Transport Economics		3(3-0-6))	
EGRS 514	Public Transport System Planning		3(3-0-6))	
EGRS 515	Travel Behavior and Demand Analysis		3(3-0-6))	
EGRS 516	Freight Rail Transport and Logistics		3(3-0-6))	
EGRS 517	Sustainable Transportation		3(3-0-6))	
EGRS 518	Materials and Fabrication Processes in Rail Ind	ustry	3(3-0-6))	
EGRS 519	S 519 Inspection and Evaluation for Maintenance of Metal Works in Rail Industry3(3-0-6)				
EGRS 521	Railway Track Engineering		3(2-2-5))	
EGRS 522	Design and Construction of Railway Infrastructu	ıre	3(3-0-6))	
EGRS 531	Interfacing Electrification and System Reliability	<i>'</i>	3(3-0-6))	
EGRS 532	Railway Signaling and Control		3(3-0-6))	
EGRS 533	Railway Traction Systems		3(3-0-6))	
EGRS 534	Railway Electrification		3(3-0-6))	
EGRS 541	Rolling Stock Engineering		3(3-0-6))	
EGRS 542	Advanced Dynamic		3(3-0-6))	
EGRS 543	Linear Control		3(3-0-6))	
EGRS 551	Computer System Security for Rail System		3(3-0-6))	
EGRS 552	Information Technology for Smart City		3(3-0-6))	
EGRS591-595 Special Topic in Railway Engineering I-V 3(3-0-6)					

Thesis

EGRS 698 Thesis 12(0-36-0)

Independent Study

EGRS 697 Independent Study

6(0-18-0)

* These may change in cases where there are suggestions for the improvened of the curriculum

Job option after graduation

- 1) Government Officer
- 2) Engineering Consultant
- 3) Mass Transit/Railway Operator Corporate.Employee

Application Process

Application is only available via online application at www.grad.mahidol.ac.th

Required Documents

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format

- Recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of Certificate of English proficiency :
 IELTS / TOEFL INTERNET BASED / TOEFL ITP / MU GRAD TEST (Computer based)
- A copy of proof of payment.

Further information may be obtained from the Director of Graduate Studies, Railway Transportation System

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Program Coordinator

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For more information please contact The Student Admission Section.

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