



**RMUTK - January 2027 Admission
(International Program)
(Graduate School Faculty of Engineering)**

**Doctor of Philosophy Program in Engineering
(A Guidebook for the International Students)**

**Faculty of Engineering
Rajamangala University of Technology Krungthep
Bangkok, Thailand**



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Preface

This guidebook provides the outline of international curriculum for international student to apply for the Doctor of Philosophy Program in Engineering (Ph.D. Engineering) and application guidelines of admission for graduate study at Rajamangala University of Technology Krungthep (RMUTK) . The guidebook delineates the degree requirements, minimum academic standards, the studying plans, registration, and examinations. Regarding the use of personal data, any personal acquired through this application (full name, date of birth, gender, etc.) shall be used only for the purposes of selection and notification. RMUTK will keep the data only for the purposes of examination and research (entrance exam improvement, applicant trend surveys/analysis, etc.) . RMUTK will neither use personal information for any other purpose, nor release information to any others.



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Name of Institution

Faculty

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Doctor of Philosophy Program in Engineering (Ph.D. Engineering)

Name of Institution : Rajamangala University of Technology Krungthep (RMUTK)
Faculty : Engineering

Section 1 General Information

1.1 Curriculum Name : Doctor of Philosophy Program in Engineering
(International Program)

1.2 Degree Granted and Discipline

1.2.1 Full Name : Doctor of Philosophy (Engineering)

1.2.2 Abbreviation : Ph.D. (Engineering)

1.3 Major : None

1.4 Total Credits Required : Plan 2, Type 2.1: A minimum of 48 credits

1.5 Curriculum Characteristics

1.5.1 Program format : 3-years full time program (6 semesters)

1.5.2 Program type : Plan 2 Type 2.1

1.5.3 Medium of Instruction : English

1.5.4 Admission : Thai and international applicants must hold a Master's degree in Engineering, Science, or a related field from a recognized educational institution in Thailand or abroad. Applicants must also demonstrate a good command of English in accordance with the regulations of RMUTK.

1.5.5 Cooperation with other Institutions : This curriculum is administered solely by
RMUTK

1.5.6 Degree Granted : One degree, Doctor of Philosophy (Engineering) conferred by
RMUTK

1.6 Venue for Instruction : Faculty of Engineering, Rajamangala University of Technology
Krungthep, Bangkok, Thailand.



Section 2 Educational Management System, Curriculum Implementation and Curriculum Structure

2.1 Educational Management System

2.1.1 Academic System

The educational management follows the semester system. One academic year is divided into 2 regular semesters. Each regular semester has a duration of at least 15 weeks.

2.1.2 Summer Session

A summer session may be arranged as a special case for a duration of at least 7 weeks, excluding examination time. The number of instructional hours for each course shall be equivalent to one regular semester, subject to the discretion of the curriculum administration committee.

2.2 Curriculum Implementation

2.2.1 Instruction Schedule

- First Institutional Semester : August – December
- Second Institutional semester : January – May

Note

Day – Normal working day

Monday – Friday from 09.00 a.m. to 06.00 p.m.

Out of the working period

Monday – Friday from 06.00 p.m. to 09.00 p.m.

Saturday – Sunday from 09.00 a.m. to 06.00 p.m.

2.2.2 Admission Opportunity: Full time study only

2.2.3 Admission Requirements

2.2.3.1 Applicants under Plan 2, Type 2.1 must hold a Master's degree in any field of engineering, science or a related fields from a domestic or international educational institutions accredited by the Ministry of Higher Education, Science, Research and Innovation (MHESI is a Royal Thai government ministry) or from an institution whose academic status is recognized by the University Council of RMUTK.

2.2.3.2 Applicants must demonstrate English proficient by submitting a TOEFL-ITP score of at least 500 or an equivalent score from another recognized standardized English test, such as TOEFL-IBT, IELTS, CU-TEP, TU-GET



etc. The test score must have been issued within 2 years before the application date. Applicants may be exempted from the English proficient requirement in accordance with RMUTK's regulations on graduate studies.

Noted : Applicants must be submitted English proficient even the TOEFL-ITP or an equivalent score is lower than 500.

2.2.4 Students Selection Process

- Applicant must pass an interview and/or a written exam, which will be notified from time to time.

- The selection method should be conducted according to the criteria/the regulations of admission for graduate study of RMUTK.

2.2.5 Education System

The education system is classroom-based

2.2.6 Study Period

A minimum of 6 regular semesters (3 academic years) of study period, up to a maximum of 12 regular semesters (6 academic years) upon an admission as a student.

2.3 Curriculum Structure

2.3.1 The Curriculum is Divided into 5 Fields of Study:

- Mechanical Engineering
- Industrial Engineering
- Chemical Engineering
- Electrical Engineering
- Civil Engineering

Elective courses can be selected across the fields of study, which depends on the discretion of advisors/the program committee or the instructors in charge of the courses.

2.3.2 Curriculum Structure

Required courses (non-credit) is mandatory for all students, and a passing grade of satisfactory (S) must be attained. A full-time or visiting instructor, who must be a foreign national, shall be assigned to co-teach the non-credit courses online or onsite for not less than 20 percent of the instructional hours in each course.



1) Required Courses (non-credit)	3 Credits
4-153-101 Engineering Seminar for Graduate Studies 1	1 Credit
4-153-102 Engineering Seminar for Graduate Studies 2	1 Credit
4-153-201 Engineering Seminar for Graduate Studies 3	1 Credit
2) Required Courses	6 Credits
4-153-103 Advanced Research Methodology in Engineering	3 Credits
4-153-104 Philosophy of Engineering	3 Credits
3) Elective Course	6 Credits
4-153-1xx Elective Course 1	3 Credits
4-153-1xx Elective Course 2	3 Credits
4) Dissertation	36 Credits
4-153-135 Dissertation	36 Credits
Total credits requirement	48 Credits

2.4 Courses and Credits

2.4.1 Required Courses (non-credit)

Satisfactory (S) grades are required for non-credit course.

4-153-101 Engineering Seminar for Graduate Studies 1	1 (0-2-1)
4-153-102 Engineering Seminar for Graduate Studies 2	1 (0-2-1)
4-153-201 Engineering Seminar for Graduate Studies 3	1 (0-2-1)

2.4.2 Required Courses

4-153-103 Advanced Research Methodology in Engineering	3 (3-0-6)
4-153-104 Philosophy of Engineering	3 (3-0-6)

2.4.3 Elective Courses

Elective courses can be selected from 5 fields of study (departments) i.e., Mechanical Engineering, Industrial Engineering, Chemical Engineering, Electrical Engineering and Civil Engineering or depends on the discretion of advisors/the program committee or the instructors in charge of the courses.

2.4.3.1) Mechanical Engineering

4-153-105 Advanced Steel Design in Mechanical Engineering	3 (3-0-6)
4-153-106 Material Testing and Characterization	3 (3-0-6)



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4-153-107 Advanced Heat Pipe Technology	3 (3-0-6)
4-153-108 Applications of Microwave Technology in Industry	3 (3-0-6)
4-153-109 Design of Modern Vehicles	3 (3-0-6)
4-153-110 Special Topics in Mechanical Engineering	3 (3-0-6)

2.4.3.2) Industrial Engineering

4-153-111 Advanced Design of Engineering Experiment	3 (3-0-6)
4-153-112 Advanced Manufacturing Engineering	3 (3-0-6)
4-153-113 Engineering Materials and Engineering Applications	3 (3-0-6)
4-153-114 Advanced Optimization for Engineering Solution	3 (3-0-6)
4-153-115 Advanced Sustainable Logistics and Supply Chain Management	3 (3-0-6)
4-153-116 Special Topics in Industrial Engineering	3 (3-0-6)

2.4.3.3) Chemical Engineering

4-153-117 Operational Management and Loss Prevention in Chemical Industry	3 (3-0-6)
4-153-118 Advanced Biotechnology for Food and Drug Processes	3 (3-0-6)
4-153-119 Advanced Environmental Process Engineering	3 (3-0-6)
4-153-120 Sustainable Environmental Conservation and Management	3 (3-0-6)
4-153-121 Integrated Energy Management and Auditing	3 (3-0-6)
4-153-122 Special Topics in Chemical Engineering	3 (3-0-6)

2.4.3.4) Electrical Engineering

4-153-123 Digital Image Processing and Computer Vision	3 (3-0-6)
4-153-124 Advanced Digital Signal Processing and Applications	3 (3-0-6)
4-153-125 Advanced Power Electronics Devices and Applications	3 (3-0-6)
4-153-126 Advanced Electronic Circuits Design and Analysis	3 (3-0-6)
4-153-127 Computer Applications in Industry	3 (3-0-6)
4-153-128 Special Topics in Electrical Engineering	3 (3-0-6)



2.4.3.5) Civil Engineering

4-153-129 Advanced Concrete Technology	3 (3-0-6)
4-153-130 Theory and Applications of Dynamics in Structural Engineering	3 (3-0-6)
4-153-131 Applied Soil Mechanics for Engineering Applications	3 (3-0-6)
4-153-132 Innovative Civil Engineering through Advanced Statistical Data Analysis	3 (3-0-6)
4-153-133 Advanced Fluid Mechanics for Applied Hydraulics	3 (3-0-6)
4-153-134 Special Topics in Civil Engineering	3 (3-0-6)

2.4.4 Dissertation

4-003-602 Dissertation	36 (0-0-108)
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2.5. Study Plan: Plan 2, Type 2.1 (6 semesters)

Year 1/First semester		Credits	Theory	Practice	Self-study
4-153-101	Engineering Seminar for Graduate Studies 1*	1	0	2	1
4-153-103	Advanced Research Methodology in Engineering	3	3	0	6
4-153-1xx	Elective course 1	3	3	0	6
Total		6	6	0	12

Year 1/Second semester		Credits	Theory	Practice	Self-study
4-001-603	Engineering Seminar for Graduate Studies 2*	1	0	2	1
4-153-104	Philosophy of Engineering	3	3	0	6
4-153-1xx	Elective course 2	3	3	0	6
Total		6	6	0	12

It should be noted that student must be passed the Qualifying Examination (QE) in this semester (Year 1/Second semester)



Year 2/First semester		Credits	Theory	Practice	Self-study
4-153-201	Engineering Seminar for Graduate Studies 3*	1	0	2	1
4-153-135	Dissertation	9	0	0	27
Total		9	0	0	27

It should be noted that student should be passed the proposal dissertation examination in this semester (Year 2/First semester)

Year 2/Second semester		Credits	Theory	Practice	Self-study
4-153-135	Dissertation	9	0	0	27
Total		9	0	0	27

Year 3/First semester		Credits	Theory	Practice	Self-study
4-153-135	Dissertation	9	0	0	27
Total		9	0	0	27

It should be noted that student must be passed the progress dissertation examination in this semester (Year 3/First semester)

Year 3/Second semester		Credits	Theory	Practice	Self-study
4-153-135	Dissertation	9	0	0	27
Total		9	0	0	27

It should be noted that student must be passed the defense dissertation examination in this semester (Year 3/Second semester)

Note: *Satisfactory (S) grades are required for non-credit courses.

2.6 Graduation Requirement

Students entitled to receive the degree must satisfy all of the following requirements:

2.6.1 The student must satisfy the following:



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- a) Completion of all required coursework and credits, with a cumulative GPA of at least 3.00 on a 4.00 scale, in accordance with the 2022 MHESI Standard Criteria for Graduate Programs.
 - b) Passing of the Qualifying Examination and the dissertation proposal defense.
 - c) Completion of the progress review and passing of the final oral defense.
 - d) Composition of the dissertation committee with at least 5 members, including 2 external experts.
 - e) Appointment of an external expert as committee chair, with at least 1 external expert being a foreign national.
 - f) Compliance of all examiners with the qualifications set out in the 2025 RMUTK Graduate Study Regulation.
 - g) Publication of the dissertation, or acceptance for publication, in a recognized international journal (Index by SCOPUS).
 - h) Alternatively, presentation of part of the dissertation at an international conference, with publication in peer-reviewed proceedings or a book series.
- 2.6.2 Compliance with all other qualifications required by the RMUTK Graduate Study Regulation, subject to revision under RMUTK notifications.
- 2.6.3. The student must satisfy the English proficiency requirement as follows:
- a) Submission of an English proficiency test score, such as TOEFL-ITP with a minimum of 500 points, or an equivalent score from CU-TEP, TU-GET or IELTS.
 - b) Submission of this score between the application date and the dissertation defense, not exceeding 2 years in validity, unless otherwise specified by the RMUTK Graduate Study Regulation or the Curriculum Administration Committee.

2.7 Course Descriptions

2.7.1 Required Courses (non-credit)

4-153-101 Engineering Seminar for Graduate Studies 1	1 (0-2-1)
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Principles of artificial intelligence (AI) in engineering, applications of AI techniques in data retrieval, research literature review, discussion, presentation, and active listening on topics of interest, case studies and related research, ethics in the use of information technology.



4-153-102 Engineering Seminar for Graduate Studies 2 **1 (0-2-1)**

Research implementation planning, writing of research articles, analysis and synthesis of knowledge, presentation and discussion of one's own research, and academic and professional ethics.

4-153-201 Engineering Seminar for Graduate Studies 3 **1 (0-2-1)**

Discussion of problems and operational approaches, analysis and synthesis of data consistency and empirical evidence, application of technology for data analysis, identification of information sources for research presentation and publication in international databases, academic and professional ethics.

2.7.2 Required Courses

4-153-103 Advanced Research Methodology in Engineering **3 (3-0-6)**

Principles and examples of research, systematic conduct of research, definition of research topics, design of research methods, research proposal writing, research report writing, ethics of researchers and engineers, statistical principles for experimental design and data analysis, case studies of the use of statistics in research, applications of statistical software packages.

4-153-104 Philosophy of Engineering **3 (3-0-6)**

Development of engineering in relation to societal expectations across eras, foundational philosophy of engineering, engineering problems and development of new technologies, philosophical analysis related to engineering, case studies related to innovation and modern engineering.

2.7.3 Elective Courses

2.7.3.1) Mechanical Engineering

4-153-105 Advanced Steel Design in Mechanical Engineering **3 (3-0-6)**

Concepts of advanced steel design in mechanical engineering, relationships between microstructure, mechanical properties, and performance of the advanced steels, application of damage mechanics concepts for analysis, improvement, and effective design of advanced steel components.



4-153-106 Material Testing and Characterization 3 (3-0-6)

Testing standards, techniques for mechanical, physical, and thermal property analysis and microstructural characterization of engineering materials, non-destructive testing techniques, specimen preparation and analysis using optical and electron microscopy, chemical composition analysis and X-ray diffraction, interpretation of testing data for appropriate and safe material selection in industrial applications.

4-153-107 Advanced Heat Pipe Technology 3 (3-0-6)

Development and technologies of heat pipes, gravity-assisted heat pipes, porous heat pipes, and oscillating heat pipes, analysis of heat transfer and fluid dynamics within heat pipes, evaluation of heat transfer limits, design methodologies, manufacturing processes, and testing methods, applications of heat-pipe-based heat exchangers and commercial software tools for design and optimization.

4-153-108 Applications of Microwave Technology in Industry 3 (3-0-6)

Fundamentals of microwave heating, numerical techniques for microwave drying, characterization and the measurement of multimode microwave drying chambers, single-mode resonant drying cavities, waveguide-to-chamber coupling for microwave drying, application of commercial software tools for modeling, simulation, and problem-solving in microwave processing.

4-153-109 Design of Modern Vehicles 3 (3-0-6)

Concepts and processes of modern automotive design, structural design, powertrain systems, and alternative energy systems especially electric motors, batteries, and fuel cells, interior design for safety and comfort, integration with digital connectivity systems, and sustainability-focused design, case studies of next-generation vehicles such as electric vehicles, hybrid vehicles, autonomous vehicles, and connected vehicles.

4-153-110 Special Topics in Mechanical Engineering 3 (3-0-6)

Special topics on specific problems in mechanical engineering, research concepts, literature review and presentation of published research in related fields.



2.7.3.2) Industrial Engineering

4-153-111 Advanced Design of Engineering Experiment 3 (3-0-6)

Application of experimental design, statistical concepts and techniques for experimental design, analysis of variance, principles of experimental design, development of response models for variable factor analysis.

4-153-112 Advanced Manufacturing Engineering 3 (3-0-6)

Application of engineering tools for problem-solving in manufacturing industry, manufacturing management and industrial management, case studies of engineering tools for analysis and presentation of solutions in industrial settings.

4-153-113 Engineering Materials and Engineering Applications 3 (3-0-6)

Types of engineering materials, relationship between internal structure and material properties, material degradation and durability, material selection for design and manufacturing, suitability for production processes and service conditions, application of computer programs for testing and evaluation of material properties, applications of materials in engineering and future trends and innovations in engineering material.

4-153-114 Advanced Optimization for Engineering Solution 3 (3-0-6)

Application of derivatives, integrals, matrices and numerical techniques for large-scale discrete and continuous optimizations, one-and two-stage optimizations, infinite-dimensional optimization, application of optimization software in engineering design.

4-153-115 Advanced Sustainable Logistics and Supply Chain Management 3 (3-0-6)

Principles of logistics and supply chain management, assessment of logistics management potential, leadership, ethics and morality in logistics and supply chain management, sustainable development of organizations in logistics and supply chain management, green logistics and supply chain management, application of technology (software/hardware) in the logistics industry, and related special case studies.



4-153-116 Special Topics in Industrial Engineering 3 (3-0-6)

Special topics on specific problems in industrial engineering, research concepts, literature review and presentation of published research in related fields.

2.7.3.3) Chemical Engineering

4-153-117 Operational Management and Loss Prevention in Chemical Industry 3 (3-0-6)

Chemical industry management, production planning, resource management, maintenance operations and quality control in industrial processes, loss prevention, process safety management, hazard identification, risk assessment, emergency management in accordance with legal requirements and safety standards applicable to chemical industries, sustainable loss reduction and productivity improvement.

4-153-118 Advanced Biotechnology for Food and Drug Processes 3 (3-0-6)

Advanced technologies in food processing and pharmaceutical manufacturing, process design and improvement, application of biotechnology for development of functional foods and pharmaceutical products, advanced techniques for analysis and quality control, safety assessment and shelf-life evaluation, innovations and emerging trends in the food and pharmaceutical industries.

4-153-119 Advanced Environmental Process Engineering 3 (3-0-6)

Advanced analysis of environmental engineering processes, design and improvement of water, air, and hazardous waste treatment systems, application of modern technologies for pollution management and addressing complex environmental challenges in accordance with fundamental principles, relevant laws, and regulatory requirements.

4-153-120 Sustainable Environmental Conservation and Management 3 (3-0-6)

Concepts and principles of environmental conservation and management through clean technologies, eco-design, life cycle assessment (LCA) of products, evaluation of policy impacts and environmental measures on society and the economy in a sustainable manner, compliance with environmental standards and regulatory frameworks.



4-153-121 Integrated Energy Management and Auditing 3 (3-0-6)

Principles and techniques of efficient energy management, energy auditing, analysis of energy consumption, application of renewable energy and clean energy technologies, energy project planning and management, economic analysis of energy projects for enhanced energy security.

4-153-122 Special Topics in Chemical Engineering 3 (3-0-6)

Special topics on specific problems in chemical engineering, research concepts, literature review and presentation of published research in related fields.

2.7.3.4) Electrical Engineering

4-153-123 Digital Image Processing and Computer Vision 3 (3-0-6)

Digital image processing, digital image properties, image enhancement, image restoration and transformation, image analysis and computer vision, spatial and frequency domain filtering, color image processing.

4-153-124 Advanced Digital Signal Processing and Applications 3 (3-0-6)

Discrete-time signal processing, discrete Fourier transform (DFT) and fast Fourier transform (FFT), FFT implementation, design and stability considerations of FIR and IIR filters, filter implementation and multi-rate signal processing, linear prediction and optimal linear filters, power spectrum estimation, application of MATLAB.

4-153-125 Advanced Power Electronics Devices and Applications 3 (3-0-6)

Advanced power electronic devices and their applications, various high-frequency power switching devices including power diodes, transistors, power MOSFETs, IGBTs, high-frequency power switch driving techniques, protection techniques for power switching devices in circuits, selection of magnetic cores and capacitors in power electronic circuits, and basic PCB layout design techniques for power electronics circuits.

4-153-126 Advanced Electronic Circuits Design and Analysis 3 (3-0-6)

Amplifier circuits, active signal filter circuits, switched-capacitor filter circuits, nonlinear analog circuits and phase-locked loops (PLL), advanced analog and digital integrated circuit technology, analog and



switching power supply circuit design, power electronics circuits, printed circuit board (PCB) design.

4-153-127 Computer Applications in Industry 3 (3-0-6)

Supervisory control and data acquisition (SCADA) systems using computers, fundamentals of basic numerical devices, data logging, SCADA system architecture, master computers and substations, telemetry measurements, system performance analysis, applications of distributed control systems (DCS) in industry, computer-aided design (CAD), analysis and simulation using computers, database structures, databases, computer graphics, examples of application software for computer-aided manufacturing (CAM), computer numerical control (CNC) systems, industrial information systems, design considerations, and examples of computer-aided manufacturing systems.

4-153-128 Special Topics in Electrical Engineering 3 (3-0-6)

Special topics on specific problems in electrical engineering, research concepts, literature review and presentation of published research in related fields.

2.7.3.5) Civil Engineering

4-153-129 Advanced Concrete Technology 3 (3-0-6)

Advanced concrete technology, chemical admixtures for concrete, utilization of fly ash, silica fume, palm oil fuel ash, bagasse ash, blast-furnace slag for concrete, fiber reinforced concrete, high strength concrete and durability of concrete.

4-153-130 Theory and Applications of Dynamics in Structural Engineering 3 (3-0-6)

Theory and applications of structural dynamics, vibration analysis and structural response, design and performance evaluation of buildings under earthquake loading, case studies of actual earthquake events, and application of structural dynamics knowledge to building components affected by earthquakes.



4-153-131 Applied Soil Mechanics for Engineering Applications 3 (3-0-6)

Applications of soil theory, stress–strain relationships, failure criteria and mechanical behavior of soils, determination of mechanical properties and material index properties, and analysis and solution of engineering problems through integration with advanced analytical techniques and modern engineering tools.

4-153-132 Innovative Civil Engineering through Advanced Statistical Data Analysis 3 (3-0-6)

Principles of advanced statistical data analysis for research and innovation development in civil engineering, selection of appropriate statistical techniques, data processing and interpretation using modern tools, multiple regression analysis, principal component analysis, cluster analysis, and spatial data analysis, application of data to support decision-making, design, and innovation development in structures, transportation systems, materials, and environmental engineering.

4-153-133 Advanced Fluid Mechanics for Applied Hydraulics 3 (3-0-6)

Complex behavior of fluids under static and dynamic conditions in both theory and practical applications, fluid kinematics, Navier–Stokes equations, transient and turbulent flows, boundary layer theory, computational fluid dynamics, mathematical modeling, numerical computation, and experimental techniques for solving real-world hydraulic engineering problems.

4-153-134 Special Topics in Civil Engineering 3 (3-0-6)

Special topics on specific problems in civil engineering, research concepts, literature review and presentation of published research in related fields.

2.7.4 Dissertation

4-153-135 Dissertation 36 (3-0-108)

Study and retrieval of relevant information, design, planning and conduct of research, selection and application of research tools, application and integration of engineering knowledge or creation of new knowledge, laboratory or field research in accordance with researcher ethics



guidelines under faculty supervision on a related and approved topic, writing and presentation of research topics or outlines, dissertation examination, dissertation writing and preparation, and presentation of research results.

2.8 Admission and Tuition Fees for 3-year Period

Year I

Semester 1st

- Tuition Fee	87,500 Baht
- Student registration	4,500 Bath
- Admission Fee	1,500 Baht
- Accident insurance	500 Baht

Semester 2nd

- Tuition Fee	87,500 Baht
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Year II

Semester 1st

- Tuition Fee	87,500 Baht
- Accident insurance	500 Baht

Semester 2nd

- Tuition Fee	87,500 Baht
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Year III

Semester 1st

- Tuition Fee	87,500 Baht
- Accident insurance	500 Baht

Semester 2nd

- Tuition Fee	87,500 Baht
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Note: - Baht or Thai Baht (THB) is the official currency of the Kingdom of Thailand.

- Any service charges for the payment are excluded in the admission fee and tuition Fee.



2.9 Program Instructors

2.9.1 Full Time Program Instructors

2.9.1.1 Mechanical Engineering

- 1) Associate Professor Dr. Jirapol Klinbun
<https://scholar.google.com/citations?user=EWknO0gAAAAJ&hl=en&oi=ao>
- 2) Associate Professor Dr. Waraporn Klinbun
<https://scholar.google.com/citations?user=69UpjCgAAAAJ&hl=en&oi=ao>
- 3) Associate Professor Dr. Aphinan Phukaoluan
<https://scholar.google.com/citations?user=umWylQMAAAAJ&hl=en&oi=ao>
- 4) Assistant Professor Dr. Theerawat Kumnorkaew
<https://scholar.google.com/citations?user=lteqHh0AAAAJ&hl=en&oi=ao>
- 5) Assistant Professor Dr. Surachai Hemhirun
<https://scholar.google.com/citations?user=LDntZ7MAAAAJ&hl=en&oi=ao>

2.9.1.2 Industrial Engineering

- 1) Associate Professor Dr. Pichai Janmanee
<https://scholar.google.com/citations?user=FzIPgm0AAAAJ&hl=en&oi=ao>
- 2) Associate Professor Dr. Wichan Chuaiphan
<https://scholar.google.com/citations?user=9Vh9vKYAAAAJ&hl=en&oi=ao>
- 3) Assistant Professor Dr. Panudech Saengseedam
<https://scholar.google.com/citations?user=i5zPBcAAAAAJ&hl=en&oi=sra>
- 4) Assistant Professor Dr. Suppawat Chuvaree
<https://scholar.google.com/citations?user=H6s9WIEAAAAJ&hl=en&oi=ao>
- 5) Assistant Professor Dr. Kamonpong Jamkamon
<https://scholar.google.com/citations?user=UB3kN7cAAAAJ&hl=en&oi=ao>
- 6) Assistant Professor Dr. Somchai Wonthaisong
<https://scholar.google.com/citations?user=cxxAswwAAAAJ&hl=en&oi=ao>
- 7) Assistant Professor Dr. Rittichai Phaoniam
<https://scholar.google.com/citations?user=ntGPtJkAAAAJ&hl=en&oi=ao>



2.9.1.3 Chemical Engineering

- 1) Associate Professor Dr. Kanokwan Ngaosuwan
<https://scholar.google.com/citations?user=6eRf7W0327wC&hl=en&oi=ao>
- 2) Dr. Piriya Pinthong
<https://scholar.google.com/citations?user=IS3lXIEAAAAJ&hl=en&oi=ao>
- 3) Dr. Phongphot Sakulaue
<https://scholar.google.com/citations?user=T2sfi7gAAAAJ&hl=en&oi=ao>
- 4) Assistance Professor Dr. Lerdluck Kaewvimol
<https://scholar.google.com/citations?user=fU3nwwMAAAAJ&hl=en&oi=ao>

2.9.1.4 Electrical Engineering

- 1) Associate Professor Dr. Saichol Chudjuarjeen
<https://scholar.google.com/citations?user=FvHQXlAAAAAJ&hl=en&oi=ao>
- 2) Associate Professor Dr. Jessada Konpang
<https://scholar.google.com/citations?user=HnWSAdAAAAAJ&hl=en&oi=ao>
- 3) Assistant Professor Dr. Suwat Kitcharoenwat
<https://scholar.google.com/citations?user=80RBEvAAAAAJ&hl=en&oi=ao>
- 4) Assistant Professor Dr. Adisorn Sirikham
<https://scholar.google.com/citations?user=SL3FqYEAAAAJ&hl=en&oi=ao>

2.9.1.5 Civil Engineering

- 1) Assistant Professor Dr. Sirichai Pethrung
https://scholar.google.com/citations?user=vvhB_SEAAAAJ&hl=en&oi=ao
- 2) Assistant Professor Dr. Saofee Dueramae
https://scholar.google.com/citations?user=Vx_-x_YAAAAJ&hl=en&oi=ao
- 3) Dr. Phattaraphong Ponsorn
<https://scholar.google.com/citations?user=1fJtjuMAAAAJ&hl=en&oi=ao>
- 4) Dr. Chattarika Phiangphimai
<https://scholar.google.com/citations?user=7ZgKy5EAAAAJ&hl=en&oi=ao>
- 5) Dr. Apiwish Thongraksa
<https://scholar.google.com/citations?user=ue1lalwAAAAJ&hl=en&oi=ao>



2.9.2 Visiting Instructors

- 1) Professor Dr. Andre D.L. Batako
- 2) Professor Dr. Anna Burduk
- 3) Professor Dr. Yamamoto Motomichi
- 4) Professor Dr. Prayoot Akkaraekthalin
- 5) Professor Dr. Tritos Laosirihongthong
- 6) Associate Professor Dr. Erica Elice S. Uy
- 7) Associate Professor Dr. Apiwat Muttamara
- 8) Associate Professor Dr. Sirichai Torsakul
- 9) Assistant Professor Dr. Justyna Trojanowska
- 10) Assistant Professor Dr. Santanu Kumar Dash
- 11) Dr. Charles W. Knapp
- 12) Dr. Eliani Ezani
- 13) Dr. Wiyanti Fransisca Simanullang



Section 3 Application Guidelines for Doctor of Philosophy Program in Engineering

3.1 Important Dates

- 1) All application document must be submitted to the Graduate School Faculty of Engineering (**Online submission**) between **October 9, 2026 to November 16, 2026** by 5:00 P.M. (Local time in Thailand).
- 2) The eligible applicants will be notified on **November 18, 2026**.
- 3) Qualified candidates will have an online interview (via Zoom Meeting Application) on **November 21 - 22, 2026**.
- 4) The eligible students will be notified on **December 3, 2026**. The invoice of admission/ tuition fees, a notice of acceptance and invitation letter to study at Rajamangala University of Technology Krungthep will be issued on the same day.
- 5) Eligible students for enrollment in **December 28, 2026 to January 10, 2027** must pay the admission and tuition fees on **January 11 - 29, 2027**.
- 6) Eligible student who is not a Thai citizen has to apply for a Thai Student Visa (Non-Immigrant Visa Category “ED”) at any Thai Embassy or Consulate.
- 7) The document for the new student registration must be completely submitted before January 20, 2027.
- 8) This semester starts on **January 11, 2027**.

3.2 Qualifications of the Applicants

Applicants must be foreign nationals, proficient in either Thai or English, and must belong to one of the following categories, (according to 2.2.3 qualifications of students in the section 2)

- 1) Those earned a Master’s degree from a in engineering, science or any related fields by time of admission from the educational institutions in Thailand and have been accredited by the MHESI or University Council of RMUTK.
- 2) Those earned any degree by the time of admission which is equivalent to a Master’s degree in engineering, science or any related fields in Thailand and have been accredited by the MHESI or University Council of RMUTK.
- 3) The applicants should have the proficient command of English as described in item 2.2.3.2 of section 2 (Educational Management System, Curriculum Implementation and Curriculum Structure).



3.3 Preparation for Application

1) Application Period

For January 2027 Admission, all required application documents must be submitted (online) to the admission office between **October 10, 2026 to November 16, 2026** by 5.00 P.M. (local time in Thailand).

2) How to Apply

The applicants are required to submitted their online application forms. The necessary information pertinent to the application can be acquired via <https://eng-grad.rmutk.ac.th/> More details are delineated in Section 5: Guideline for Online Application).

3) Admission Office Address

Faculty of Engineering, Rajamangala University of Technology Krungthep, 2 Nanglinchee Road, Thungmahamek, Sathon, Bangkok 10120, Thailand

E-mail: kamonpong.j@mail.rmutk.ac.th

Line id: jamkamon

Tel: +66 83 917 2055

4) Required Application Documents

a) Admission Application Form (Form 1, Ph.D. Engineering)

The personal data of the applicant are required to complete this form.

b) Examination Card and Photo ID Card (Form 1, Ph.D. Engineering)

Fill out the prospective Department or Field of Study (i.e. Mechanical Engineering, Industrial Engineering, Chemical Engineering, Electrical Engineering, or Civil Engineering), the applicant's name/family name and date of birth in both cards. The applicants are also required to provide a digital photograph as part of completing the photo ID Card. To reflect the current appearance of the applicants, the photo must be taken within the last 3 months. The photo must be rectangular-shaped of 4-cm (height) x 3-cm (width) and shown the entire head from the top of hair to the top of shoulder of the applicant. The area behind the applicants in the photo should be uncluttered and either white or off-white. The photo must not be digitally enhanced or altered to change the appearance of the applicants in any way. Do not wear a hat or head covering that obscures the hair or hairline, unless worn daily for a religious purpose.



c) Master's Degree Certificate

The certificate must be an official document. The degree certified translation in English is required for the applicant whose degree is written in any languages other than English.

d) Certified Academic Record

The academic record includes the official transcripts of all graduate studies or similar/equivalent certified documents if the transcripts cannot be issued. All documents should be enclosed by the issuing office. The translation of certified academic record is required for the applicants whose academic record is written in any languages other than English.

e) Proficient Command of English

The applicants should have the proficient command of English and are required to submit the official English proficiency scores as delineated in item 3.2 (3)

f) Letter of Recommendation (Form 2, Ph.D. Engineering)

It is a letter where the author (should be either the last academic advisor or a recent supervisor of the applicant's professional career) details and vouches for the capabilities, character traits, and overall quality of the applicant and must be a confidential document.

g) List of Research Achievement (Form 3, Ph.D. Engineering)

List any research achievements which relevant to the thesis in Master's degree, publications, research reports, patents, utility model etc. The copy or abstract of all research must be attached the lists.

h) Research Plan (Form 4, Ph.D. Engineering)

Briefly describe the prospective research to pursue a Doctoral degree, objective, scopes of work, research methodology, research contribution, work plan, budget etc.

i) Application Fee

The application fee is 1,500 Thai Baht excluded any possible charges. The payment outside Thailand must be completed through bank services. After completing the payment, please submit the receipt payment to the Admission office (See Section 5 (8)).

j) Passport

Please ensure that the ID page in your passport is in date (has not expired) and that you have a clear scanned image of your passport. The image of the ID page should



be of the page containing your photo and personal information (Name, Family Name, Date of Birth, Place of Birth, Passport Number etc.). Please do not include the page opposite the ID page as this reduces the image quality. You will need to upload an image of your passport ID page as indicated in Section 5 (8). Please ensure the uploaded image is a good quality and should be in pdf or jpg file types.

k) Citizen ID (if any)

For some international students, if the citizen ID are available the uploaded images in both sides of the Citizen ID are required to performed as indicated in Section 5 (8) as well.

Note :

- a) Incomplete or incorrect application forms or invalid documents will not be accepted.
- b) The submitted application forms and relevant documents will not be returned even if an applicant is ether rejected or admission is cancelled.
- c) The application fee is paid at the time of application and are generally nonrefundable.

3.4 Announcement of the Eligible Candidates

The announcement of eligible candidates will be listed on the bulletin board on **November 6, 2022** at the 1st floor of Sirinthorn building in RMUTK (Engineering Building). The eligible candidate will be sent directly through the email of the qualified applicants as well. (please, check your email regularly, spam box also)

3.5 Student Selection

Student selection involves a rigorous evaluation of knowledge, skills, and motivational aspects of the eligible candidates. The process of selection includes the presentation of the CV and an online interview (by Zoom Meeting Application or similar) with the eligible candidates on **November 21 and 22, 2026** where the merits are assessed. Before the interview, the selection committee have to analyze the Master's Degree of the eligible candidates to assess its validity to study for Doctoral degree.

3.6 Announcement of the Successful Candidates

The successful candidates and the candidate notification will be listed on the bulletin board on **December 3, 2026** at the 1st floor of building No.48 in RMUTK (Engineering Building).



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They will be also sent through the email of successful candidates. Other relevant information or documents for the admission such as the invoice of admission fee, the invoice of tuition fee, a notice of acceptance, an invitation letter to study at RMUTK will be sent via the email of the successful candidates as well.

3.7 Admission Fee and Tuition Fee

6,500 Baht (THB) is non-refundable payment for admission fee upon the acceptance of the student and before he/she is admitted to RMUTK. The tuition fee is 87,500 Baht per semester. These fees exclude any charges for bank services. The invoice of admission fee and tuition fee will be sent through the student's email. The students must make a payment for these fees before **January 29, 2027**.

3.8 The First Semester of January 2027 Admission

This semester starts on **January 11, 2027**.



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Section 4 Application Forms

4.1 Admission Application Form (Form 1, Ph.D. Engineering)



ADMISSION APPLICATION FORM

D

(Leave blank)

Graduate School, Faculty of Engineering, Rajamangala University of Technology Krungthep

<i>(Note: Complete this form in English)</i>					
Applicant Name In native language	(Prefix) (Family Name)		(First Name)		
Applicant Name In roman block capitals	(Prefix) (Family Name)		(First Name)		
Nationality		Gender ☐ Male ☐ Female	Field of study		
Date of Birth	Year / Month / Date		Name of Prospective Academic Advisor		
Present Address	(FAX) (Tel) (E-mail)				
Language Proficiency		Excellent	Good	Fair	Poor
	Thai				
	English				
	* Evaluate your standard yourself and fill in above with × mark where appropriate				
Present Status	Status				
	☐ College Student ☐ Lecturer, Instructor or Teacher ☐ Company Employee ☐ Civil Servant ☐ Other ()				
	Name of university attended, or name of the employer				
Academic Background					
Education Level	Period of Attendance		Name of Institute	Degree	
Lower and Upper Secondary School	From Year Month				
	To Year Month				
Undergraduate Level	From Year Month				
	To Year Month				
Graduate Level	From Year Month				
	To Year Month				

Application form 1, Ph.D. Engineering, page 1 of 2 (Enrolment January 2027)



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(Form 1, Ph.D. Engineering) *Write in English

Examination Card	
Department	
Applicant Number	D (Leave blank)
Name and family name of Applicant	
Date of Birth	Year Month Date
Note: *Please bring this card to the examination place. *Fill out in English	

Photo ID Card	
Department	
Applicant Number	D (Leave blank)
Name and family name of Applicant	
Date of Birth	Year Month Date
Note: *Fill out in English. Photograph taken within the last 6 months, front view size 4cm x 3 cm	

Application form 1, Ph.D. Engineering, page 2 of 2 (Enrolment January 2027)



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4.2 Letter of Recommendation Form (Form 2, Ph.D. Engineering)



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(Form 2, Ph.D. Engineering) *Fill out in English

Letter of Recommendation

Dean of the Faculty of Engineering, Rajamangala University of Technology Krungthep

Name and family name of Applicant	
Date of Birth (mm/dd/yy)	
Nationality	

Date : _____
(mm) (dd) (yyyy)

Recommender:

Signature : _____

Name in roman block capitals : _____

Affiliation : _____

Present Address : _____



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4.3 List of Research Achievement Form (Form 3, Ph.D. Engineering)



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(Form 3, Ph.D. Engineering) *Fill out in English

List of Research Achievement

Desired Department	
Name and family name of Applicant	
Applicant Number	(Leave blank)

(Note:)

1. Fill out in English
2. Attach this form with copy or abstract of **all research achievements** that you list below.

Title of Publications, Oral Presentations, Reports or Patents	Name of Journals or Conferences and Date of Publications or Presentations, etc.	Co-authors



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4.4 Research Plan (Form 4, Ph.D. Engineering)



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(Form 4, Ph.D. Engineering) *Fill out in English

Research Plan

Desired Department	
Name and family name of Applicant	
Applicant Number	(Leave blank)

(Note:)

1. Fill out in English
2. Writing must include prospective subject, objective, scope of work, research methodology, research contribution, work plan, budget etc.

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Section 5 Guideline for online application



Admission and Application of Doctor of Philosophy Program in Engineering (International Program, January 2027)



Apply Now (Admission system)

(<https://eng.rmutk.ac.th/blockcourse/>)



More Information (Guidebook)



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1. Check your internet connection and access to RMUTK Admission via <https://eng-grad.rmutk.ac.th/>
Please click on the item of Admission for January 2027.



2. The system will be direct to the system login page via <https://eng.rmutk.ac.th/blockcourse/> as show below. Please click at the Register Admissions button, then the system will redirect to the next page.



Login to the system.

Email

Date of birth

1. Download Guidebook for the International Student [Download](#)
2. Download Guidebook for the Home Student [Download](#)
3. Download Application Form (.docx version) [Download](#)



3. To access the online application, you will have to first register for it by complete the form as show below.



Register Admissions.

Prefix

Name

Surname

Email

Date of birth

1. Download Guidebook for the International Student [Download](#)

2. Download Guidebook for the Home Student [Download](#)

3. Download Application Form (.docx version) [Download](#)

Note : Please fill out your date of birth in ddmmyyyy format. For example, 04012001 is used for 4 January 2001.



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4. Apply application activate via your email, then your can access to the systems via the Link.

Apply application activation

To activate your apply, Please click the following link:

Link : <https://eng.rmutk.ac.th/blockcourse/verify.php?em=Y2hhaWthbW9uLmNAbWFpbC5ybXV0ay5hYy50aA==&rc=Nzg2MDQ2>;
Or : [Click to activate.](#)

After you activate, The system will verify your apply application also you can login to the system and upload you document to do next process.

Note : Please make a Register Admissions before login. The systems will be sent the Activate System to your email (if you cannot found Apply application activation, please check in Spam of your email).



5. Please login to the admission systems after Applicant completed to activate process via the email. The Email and Date of birth are same with the Register Admissions process.



Login to the system.

Email

Date of birth

1. Download Guidebook for the International Student [Download](#)
2. Download Guidebook for the Home Student [Download](#)
3. Download Application Form (.docx version) [Download](#)

login

Register Admissions



6. You have to upload all of the required documents to the system. All of the documents must be prepared 1 file for each items. The upload documents are required in the format of PDF only.

Upload Application form & Document.

Admission ID:
PhDENGINEER01

FullName:
chanikamon chantasamee

Email:
chanikamene@gmail.com

#	Upload document	Upload	View
1.	Application Form	Choose File No file chosen	-
2.	Degree of certificate	Choose File No file chosen	-
3.	TRANSCRIPT	Choose File No file chosen	-
4.	English Test Results	Choose File No file chosen	-
5.	Reccomedation Latter	Choose File No file chosen	-
6.	Research Achievement	Choose File No file chosen	-
7.	Research Plan	Choose File No file chosen	-
8.	Passport	Choose File No file chosen	-
9.	your Citizent ID card	Choose File No file chosen	-

1. Download Guidebook for the International Student [Download](#)

2. Download Guidebook for the Home Student [Download](#)

3. Download Application Form (.docx version) [Download](#)

Exit



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When you completed to upload all of required documents, you will get the message from the system as show below;

