



Contact Details

TGGS

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RWTH Aachen University

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RWTH Coordinator for Materials and Production Engineering (MPE)

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Website

The Sirindhorn International Thai-German Graduate School of Engineering (TGGS), KMUTNB

<http://www.tggs.kmutnb.ac.th>

Department of Mechanical and Process Engineering

<http://mepe.tggs.kmutnb.ac.th>

Materials and Production Engineering Program

<http://pe.tggs.kmutnb.ac.th>

TGGS International Programs:

Mechanical and Process Engineering Department

International Master Programs:

- Chemical and Process Engineering Program (CPE)
- Mechanical and Automotive Engineering Program (MAE)
 - Minor:** Mechanical Engineering Simulation and Design (MESD)
 - Minor:** Automotive Engineering (AE)
- [Materials and Production Engineering Program \(MPE\)](#)

International Doctoral Program:

- Mechanical Engineering Program

Electrical and Software Systems Engineering Department

International Master Program:

- Electrical and Information Engineering Program (EIE)
 - Minor:** Communications Engineering (CE)
 - Minor:** Electrical Power and Energy Engineering (EPE)
 - Minor:** Software Systems Engineering (SSE)

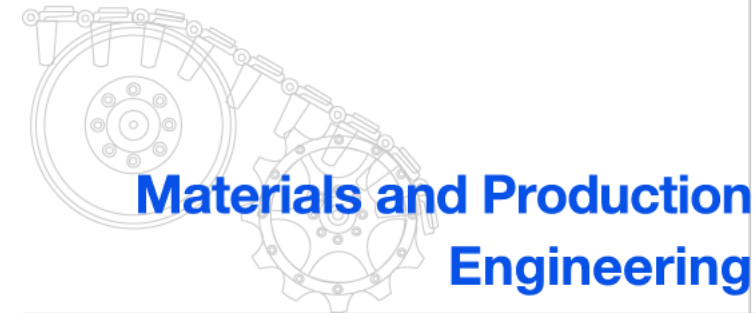
International Doctoral Program:

- Electrical and Software Systems Engineering Program

**The Sirindhorn International Thai-German
Graduate School of Engineering (TGGS)
King Mongkut's University of Technology North Bangkok (KMUTNB)
1518 Pracharat 1 Road, Wongsawang, Bangsue,
Bangkok 10800, Thailand**

บัณฑิตวิทยาลัยวิศวกรรมศาสตร์นานาชาติสิรินธร ไทย-เยอรมัน (TGGS)
มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าพระนครเหนือ (มจพ.)
1518 ถ.ประชาราษฎร์ 1 วงศ์สว่าง บางซื่อ กรุงเทพมหานคร 10800

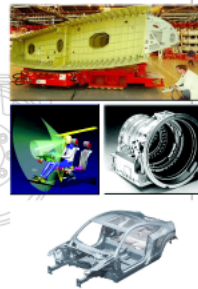
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วิศวกรรมวัสดุและการผลิต

Master of Engineering Program in
Materials and Production Engineering

- Language of Instruction: English
- Duration of the Program: Two years



The Sirindhorn International Thai-German Graduate School of Engineering (TGGS)

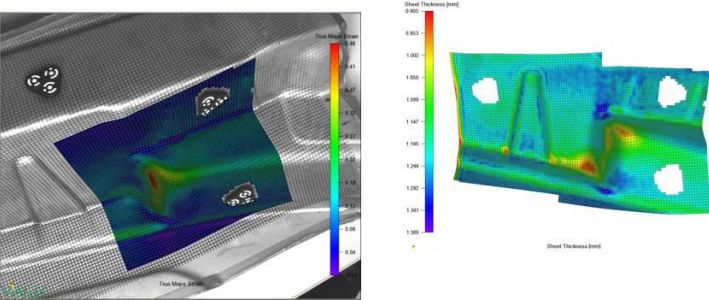
The Sirindhorn International Thai-German Graduate School of Engineering (TGGS) provides industry-oriented graduate engineering education and research in Thailand based on the RWTH Aachen Engineering educational model. It is a public private partnership venture for engineering education, technology development and research collaboration.



Course Description

The two-year of Engineering in Materials and Production Engineering (MPE) has been developed to meet the industrial needs through practical training in industry or manufacturing enterprises, which is one of the main educational philosophies. The curriculum has a structure similar to the RWTH-Aachen Master Program in Materials and Production Engineering. This program will cover into 3 major disciplines; a) Process and Manufacturing technology, b) Metallurgical and Material Processing Technology and c) Design and Production Management. The overall courses are designed to encompass students with in-depth knowledge in all three disciplines. In addition, the solving of management related problems, the skill of leading and functioning in project teams, and the ability to communicate effectively will be enhanced and strengthened. An integral part of the program exposes students to industry-related activities. This includes a mandatory four-month internship in industry and an opportunity to take part in applied or advanced research projects.

Outstanding students will have an opportunity to conduct their internship and Master thesis in well known industries and institutes in Germany, European countries or the United States of America.



Curriculum

Year	Courses	Credits
1	1st Semester	
	■ Manufacturing Technology I	3
	■ Machine Tools	3
	■ Production Management	3
	■ Physical Metallurgy of Materials Science	3
	■ Elective Course	3
2	2nd Semester	
	■ Manufacturing Technology II	3
	■ Quality System Management	3
	■ Elective Course	3
	■ Elective Course	3
	■ Elective Course	3
2	3rd Semester	
■ Industrial Internship	4	
2	4th Semester	
■ Master Thesis	12	
Total Credits		46

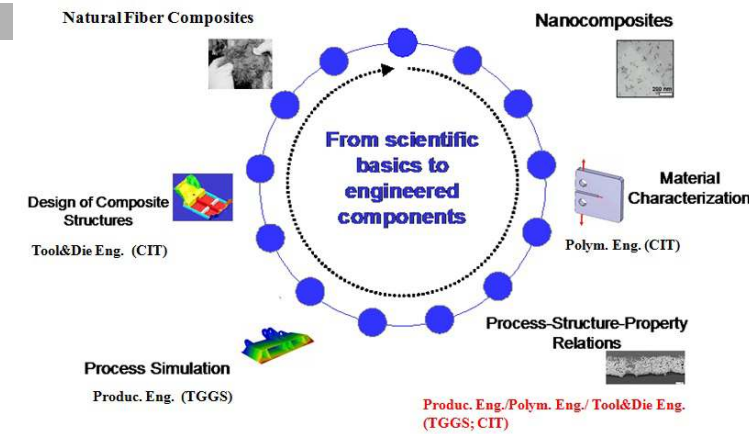
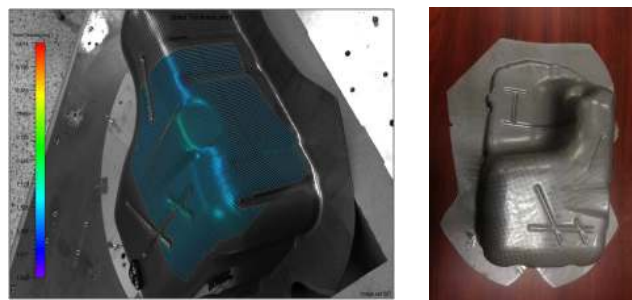
Available Elective Courses: Corrosion and Heat Treatment of Steels; Finite Element Methods; Polymer and Composite Engineering; Industrial Logistics; Special Topics in Manufacturing Technology

Tuition Fees

Thai Students	60,000 Baht per semester
International Students	85,000 Baht per semester

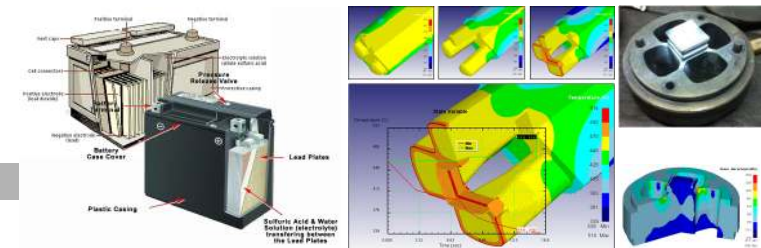
Scholarships

For qualified students who need financial aids, the TGGS coordinators and leadership will make a serious effort to organize scholarships from industries or government organizations.



Entrance Requirements

Bachelor Degree in Mechanical Engineering awarded by an internationally recognized university with a minimum GPA of 3.0 (or 2.75 plus adequate experience), good reading, writing and communication skills in English. To obtain the TGGS M.Eng. Degree, TOEFL 525+ or equivalent has to be passed within 2 years following registration.



Prospects

During their terms of study at TGGS, outstanding students may have the opportunity to do their internships and theses in Germany.

Graduates will be of great interest to a wide range of industries, as they are not only well versed in fundamental principles, but will also have learnt to apply these principles to real industrial problems. For those who want to continue their study abroad, it is very likely to be accepted by leading international universities, particularly those in Germany.