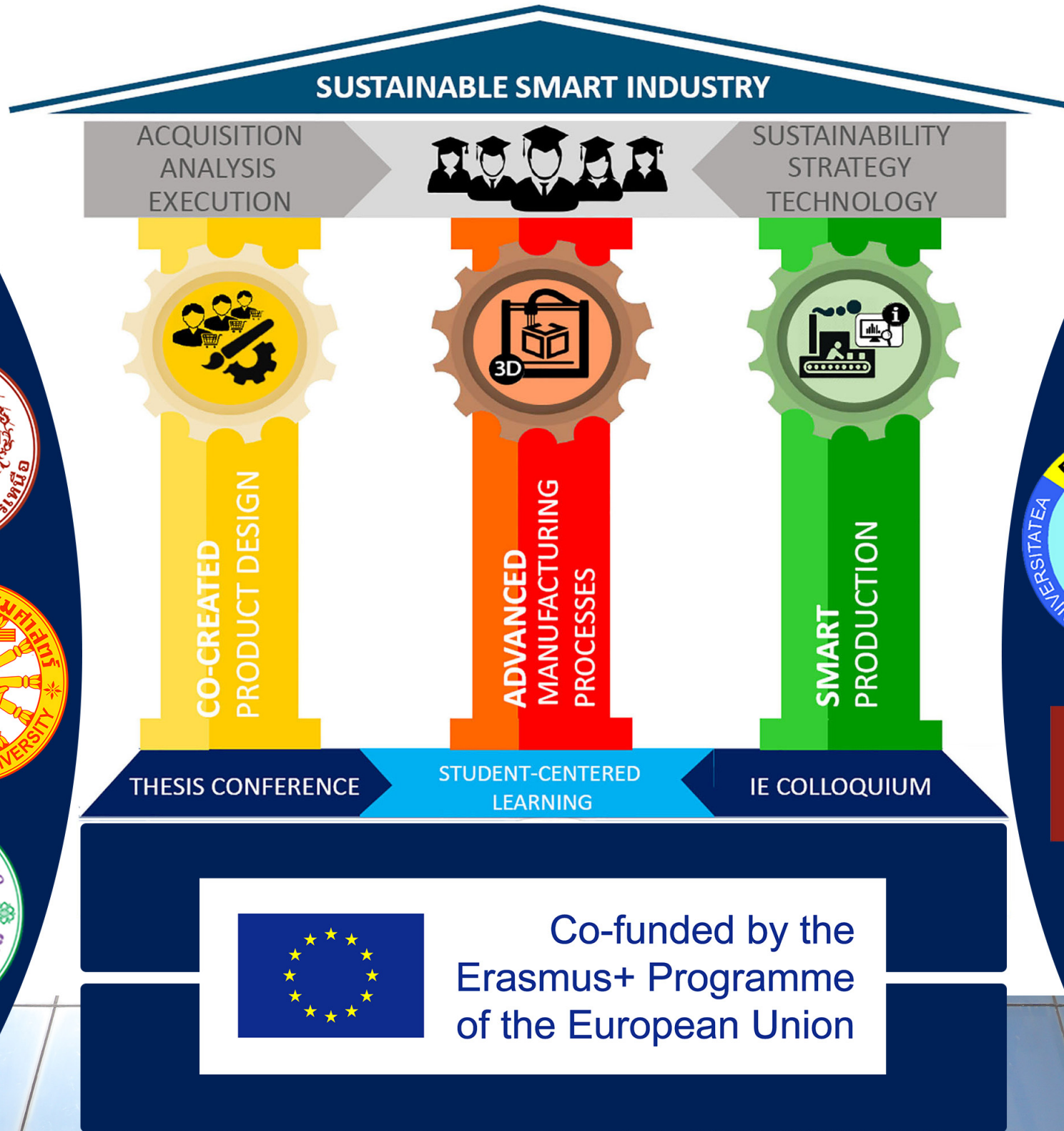


# MSIE 4.0

# Curriculum Development Master's Degree in Industrial Engineering For Thailand Sustainable Smart Industry



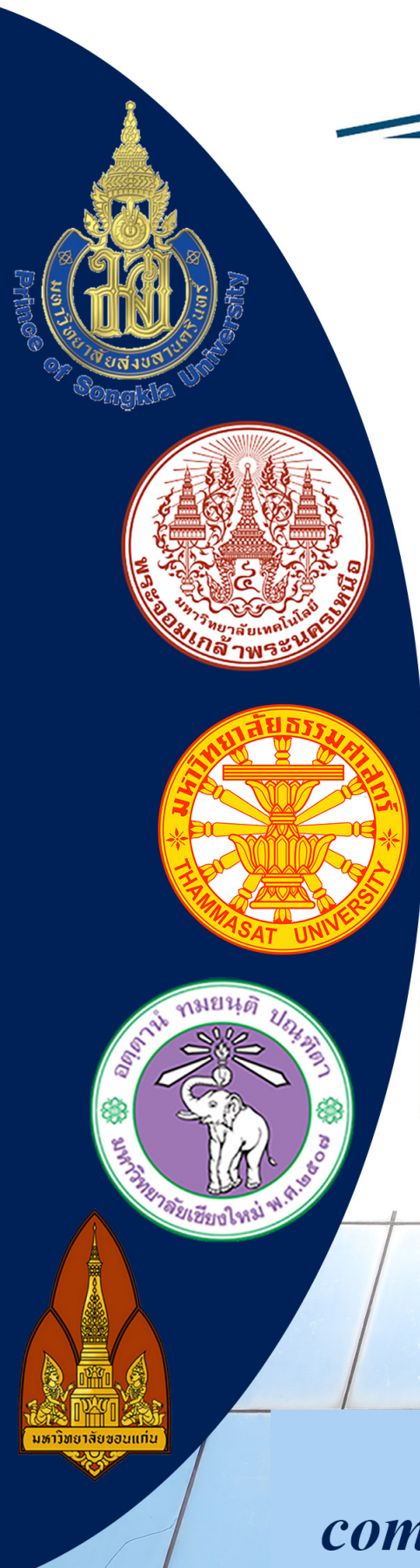
*“We, through our collaboration, commit to helping build graduates’ competence.”*



@MSIE4Thailand



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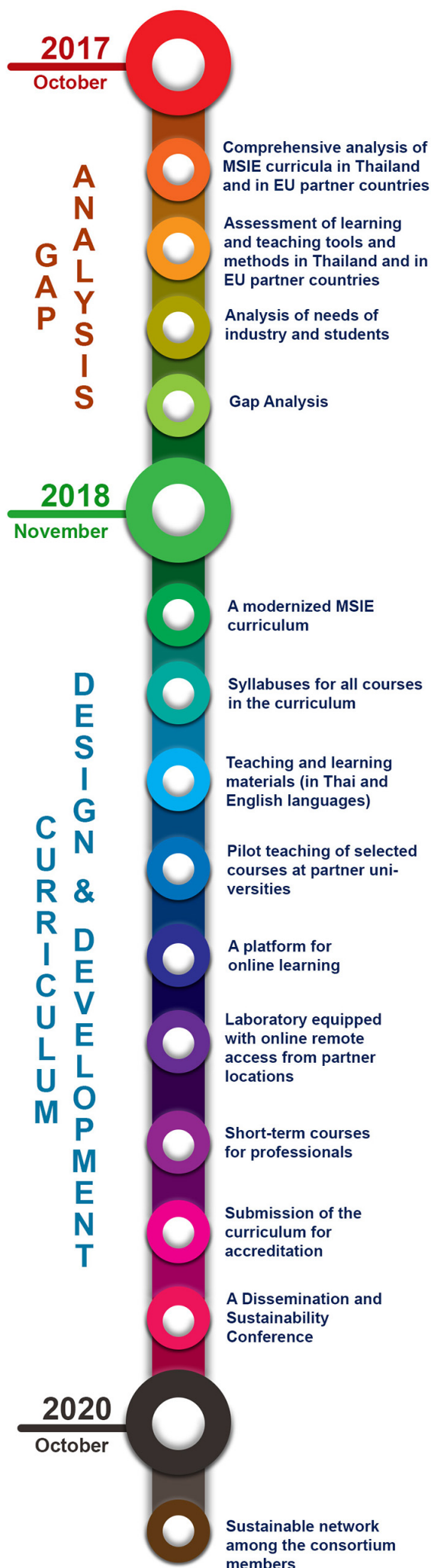




# Curriculum Development Master's Degree in Industrial Engineering For Thailand Sustainable Smart Industry

Industry 4.0 has grasped attentions of industry, academic and research institutes as well as governments all over the world. For Thailand, the government has foreseen the need for change from a production-based economy (Thailand 3.0) to a value-based economy (Thailand 4.0) in order for Thai industries to be competitive. Capacity building is indispensable for this change. Therefore, Thai and European academic institutes have formed their collaboration in this project to develop a curriculum of Master's degree program in Industrial Engineering to support sustainable smart industry for Thailand (MSIE4.0). The project is a three-year joint capacity building project worth approximately 980,000 Euro. It is one of 149 selected from 756 eligible applications for 2017 EU co-funding for Erasmus+ Capacity Building in Higher Education.

## KEY OUTPUTS



## PROJECT OBJECTIVES

MSIE4.0 is proposed to enhance the capacity and ability of universities in Thailand for the delivery of a high-quality competence-based curriculum for Master's degree in industrial engineering that

- supports sustainable smart industry (Industry 4.0),
- conforms to European Qualifications Framework (EQF)
- is applicable to EU partner universities.



## CURRICULUM FOCUS



The curriculum will focus on improving the contents regarding **co-created product design, advanced manufacturing processes** and **smart production** that are the **3 pillars** for engineering successful products to be in line with sustainable smart industry. In addition to content improvement, knowledge delivery will also be designed carefully to ensure effective learning so that the students will be able to apply it in practice after graduation. Students will play active role in their learning. **Student-centered learning** will be the focus of teaching and learning methods.



## PARTNERS

Asian Institute of Technology  
 Chiang Mai University  
 King Mongkut's University of Technology North Bangkok  
 Thammasat University  
 Khon Kaen University  
 Prince of Songkla University  
 University Politehnica of Bucharest, Romania  
 University of Minho, Portugal  
 Czestochowa University of Technology, Poland

## ASSOCIATED PARTNERS

**Thailand:** The Federation of Thai Industries / Western Digital (Thailand) Co., Ltd. / Kohler (Thailand) Public Co., Ltd. / HGST (Thailand) Ltd. / Southern Industrial Estate / Rajburi Sugar Group of Companies / CP Group

**Europe:** Group Renault Romania / Unison Engine Components Bucharest S.A. – General Electric Aviation / “Prof. Constantin Popovici” Foundation / ALUMNI IMST Association / Students Association from Faculty IMST – ASIMST / Leoni Portugal / Bosch Car Multimedia / Continental – Industria Textil do Ave. SA / Regional Development Agency (RDA)



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