

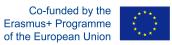


# Meeting Minutes Report

Meeting Subject:	Ct: General Meeting				
Date of Meeting: 13 February 2018			Time:	9:30-12:00, 13:15-16:00	
Minutes Prepared by:	Duangthida Hussadintorn Na Ayutthaya		Location:	B108, AITCC	
1. Attendance at Meeting					
Name		University			
1. Prof. Worsak Kanok-I	Prof. Worsak Kanok-Nukulchai				
2. Prof. Voratas Kachitvichyanukul					
3. Dr. Pisut Koomsap					
Dr. Huynh Trung Luong (MC-Afternoon Session)					
5. Dr. Mongkol Ekpanyapong		- Asian Institute of Technology			
6. Dr. A.M. Harsha S. Abeykoon					
7. Duangthida Hussadintorn Na Ayutthaya (Secretary)					
8. Danielle Celine Bildan (MC-Morning Session)					
9. Dr. Kanchana Sethanan					
10. Dr. Komkrit Pitiruek		- Khon Kaen University			
11. Dr. Thitipong Jamrus					
12. Dr. Sirorat Pattanapa	iroj				
13. Prof. Athakorn Kengpol					
14. Dr. Warapoj Meethom		King Mongkut's University of Technology North Bangkok			
15. Mr. Pongpon Udomc	haidate	<b>3</b>			
16. Dr. Thanate Ratanawilai		Prince of Songkla University			
17. Dr. Supapan Chaiprapat					
18. Dr. Suriya Jirasatitsin					

MF-MMR-V2

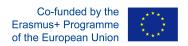




Name	University		
19. Dr. Wuttinan Nunkaew	Thammasat University		
20. Dr. Aninthaya Khamkanya			
21. Prof. Szuder Andrei	- University Politechnica of Bucharest		
22. Prof. Tom Savu			
23. Prof. Cristian Vasile Doicin			
24. Prof. Livia Veronica Lazar			
25. Prof. Rui Manuel de Sá Pereira de Lima			
26. Prof. Maria Teresa Torres Monteiro	University of Minho		
27. Prof. Diana Isabel de Araújo Mesquita			
28. Prof. Tomasz Nitkiewicz	Częstochowa University of Technology		
29. Prof. Robert Ulewicz			
30. Prof. Anna Wiśniewska-Salek			
31. Mr. Theerasak Sa-nguanmanasak	Western Digital (Thailand) Co., Ltd.		
32. Mr. Kongsak Jirawat			
33. Dr. Jutamas Arunanondchai	Rajburi Sugar Co., Ltd.		



# Curriculum Development of Master's Degree Program in Industrial Engineering for Thailand Sustainable Smart Industry



#### 2. Purpose of Meeting

- (1) To meet in person for the first time
- (2) To learn about the rules and regulations for implementing the project
- (3) To update the project status
- (4) To acknowledge the work plan of WP 1, 4, 5

#### 3. Meeting Agenda

#### **Morning Session:**

- (1) Opening Remarks by AIT President
- (2) Management of Capacity Building in Field of Higher Education: Operation and Financial Aspects by Project Coordinator
- (3) Gap Analysis Work Plan by WP1 Leader
- (4) Quality Control and Monitoring Work Plan by WP4 Leader
- (5) Dissemination, Exploitation and Sustainable Work Plan by WP5 Leader
- (6) Industry Views

#### **Afternoon Session:**

- (7) Smart Development of Competences for Smart Industries
- (8) Industry 4.0's Challenges for the Industrial Engineering Curricula in the Politechnica University of Bucharest
- (9) Industry 4.0: Implication to the Higher Education
- (10) Identifying key criteria in development of Industrial Engineering education
- (11) Building up quality assurance system on University perspective of Industrial Engineering Master Program
- (12) Closing Remarks by Project Coordinator

#### 4. Meeting Notes, Decisions, Issues

#### **Morning Session:**

#### (1) Opening Remarks by AIT President

**Meeting Notes:** AIT President, Prof. Worsak Kanok-Nukulchai, gave his opening speech where he welcomed everyone and underlined the importance of the project towards Thailand Education and Thailand Sustainable and Smart Industry. After his speech, the MC invited everyone to have a group photo session at the clock tower before continuing the next sessions.

**Decisions:** None

Issues: None

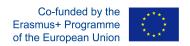
# (2) Management of Capacity Building in Field of Higher Education: Operation and Financial Aspects by Project Coordinator

**Meeting Notes:** Project Coordinator (PC), Dr.Pisut Koomsap, presented the Management of Capacity Building in Field of Higher Education: Operation and Financial Aspects to all members.

MF-MMR-V2 3



# Curriculum Development of Master's Degree Program in Industrial Engineering for Thailand Sustainable Smart Industry



- PC explained the project consortium which is structured in four levels: PEC; PC; Work package leaders (WPLs) and Work package members (WPMs). PEC is the highest and ultimate decision-making board, and its main task is project governance. He also explained the structure of QC board, which has been approved by PEC yesterday.
- PC introduced the six work packages (WPs) and its corresponding work package leaders (WPLs) and co-work package leaders (CWPLs). PC also presented the tasks and deliverables of each WP.
- PC updated on the official website that was initially developed. Everyone will be given access to the website, where all documents will be uploaded.
- PC mentioned that besides the website, his team had created Facebook page as an additional channel to help create visibility of the project to the public. The posts on the Facebook page are for announcement, news and activities. He requested members to visit the Facebook page and help sharing to their social communities.
- PC further underlined the rules and regulations, the importance of creating visibility, and penalties of the project.

**Decisions:** None **Issues:** None

### (3) Gap Analysis Work Plan by WP1 Leader

**Meeting Notes:** Co-work package 1 leader, Prof. Rui M. Lima, on behalf of work package 1 leader, Dr. Wichai Chattinnawat, provided updates on the outputs obtained from the work package 1 meeting.

**Decisions:** None **Issues:** None

#### (4) Quality Control and Monitoring Work Plan by WP4 Leader

**Meeting Notes:** Work package 4 leader, Prof. Livia Veronica Lazar, presented the outputs obtained from the work package 4 meeting and provided explanations of some important documents.

**Decisions:** None **Issues:** None

#### (5) Dissemination, Exploitation and Sustainable Work Plan by WP5 Leader

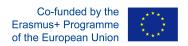
**Meeting Notes:** Work package 5 leader, Dr. Kanchana Sethanan, gave her presentation on the outcomes obtained from the work package 5 meeting and requested other WPLs to send their plans to her to finalize the WP5 work plan.

**Decisions:** None **Issues:** None

MF-MMR-V2



## Curriculum Development of Master's Degree Program in Industrial Engineering for Thailand Sustainable Smart Industry



#### **Afternoon Session:**

Besides project members, there were 11 people attended the public seminar session.

#### (6) Industry Views

**Meeting Notes:** Dr. Jutamas Arunanondchai from Rajburi Sugar Co., Ltd., Mr. Kongsak Jirawat and Mr. Theerasak Sa-nguanmanasak from Western Digital (Thailand) Co., Ltd., together with Prof. Athakorn as the moderator, gave their insights and needs towards the Curriculum Development of Master's degree in Industrial Engineering for Thailand Sustainable Smart Industry (MSIE 4.0).

- Rajburi Sugar Co., Ltd.
  - Or. Jutamas explained that the company production line is a labor-intensive system and relies on sugarcane crushing season, which is only 80 days/year. During that time, lots of labors is required and all machines are occupied with full workload to support the huge amount of sugarcane from farmers. She then emphasized the need on the development of a production system towards automation and pointed out the importance and requirement of reliable maintenance service system to ensure the readiness and performance of m/c for the sugarcane-crushing season. In addition, the company also emphasizes on project management and pays attention to environmental impacts.
  - She concluded that the company is looking for IE graduates who are able to support the needs and the development plan which have been mentioned.
- Western Digital (Thailand) Co., Ltd.
  - The representatives mentioned that the company highly emphasizes on training graduates, as they typically lack the required skills and competency, before they start working on the real work setting. They further explained that the company views realistic practice learning as a key competency and, therefore, provides 'Talent mobility program project based six months to one-year internship'.
  - Moreover, they underlined that IE graduates for their company are ones who are skillful at 1) Big Data, 2) Forecasting, 3) Simulation, 4) ERP, and 5) Augmented Reality (AI).

**Decisions:** None **Issues:** None

### (7) Smart Development of Competences for Smart Industries

**Meeting Notes:** Prof. Rui M. Lima introduced the University of Minho to all and gave his presentation entitled 'Smart Development of Competences for Smart Industries'.

**Decisions:** None **Issues:** None

(8) Industry 4.0's Challenges for the Industrial Engineering Curricula in the Politechnica University of Bucharest

MF-MMR-V2 5



## Curriculum Development of Master's Degree Program in Industrial Engineering for Thailand Sustainable Smart Industry



**Meeting Notes:** Prof. Tom Savu, together with Prof. Cristian Vasile Doicin, introduced their university to all and gave a presentation on Industry 4.0's Challenges for the Industrial Engineering Curricula in the Politechnica University of Bucharest.

**Decisions:** None **Issues:** None

#### (9) Industry 4.0: Implication to the Higher Education

**Meeting Notes:** Dr. Pisut Koomsap gave his presentation entitled 'Industry 4.0: Implication to Higher Education' and underlined his insights toward education 4.0.

**Decisions:** None **Issues:** None

#### (10) Identifying key criteria in development of Industrial Engineering education

**Meeting Notes:** Prof. Tomasz Nitkiewicz, gave an introduction of Częstochowa University of Technology and shared his expertise on 'Identifying key criteria in development of Industrial Engineering education'.

**Decisions:** None **Issues:** None

# (11) Building up quality assurance system on University – perspective of Industrial Engineering Master Program

**Meeting Notes:** Prof. Robert Ulewicz gave his presentation on Building up quality assurance system on University – perspective of Industrial Engineering Master Program.

**Decisions:** None **Issues:** None

### (12) Closing Remarks

**Meeting Notes:** PC gave the closing remarks and thanked everyone for their hard work and presence in AIT. He further shortly mentioned about the program on the following days.

**Decisions:** None **Issues:** None

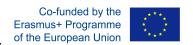
#### 5. Action Items

Action	Assigned to	Due Date
None		

#### 6. Attachments (documents/handouts to bring, reading material, etc.)

Description	Prepared by

MF-MMR-V2



# Curriculum Development of Master's Degree Program in Industrial Engineering for Thailand Sustainable Smart Industry

Management of Capacity Building in Field of Higher Education: Operation and Financial Aspects (available on the project website)		Pisut Koomsap		
WP1: Research Development (available on the project website)		Wichai Chattinnawat and Rui M. Lima		
Quality Control and Monitoring Work Plan (available on the project website)			Livia Lazar	
WP 5: Dissemination & Exploitation (available on the project website)			Kanchana Sethanan	
Smart Development of Competences for Smart Industries (available on the project website)		Rui M. Lima		
Industry 4.0's Challenges for the Industrial Engineering Curricula in the Politechnica University of Bucharest (available on the project website)		Tom Savu and Cristian V Doicin		
Industry 4.0: Implication to the Higher Education (available on the project website)		Pisut Koomsap		
Częstochowa University of Technology and Its Industrial Engineering Experience (available on the project website)		Tomasz Nitkiewicz		
Building up quality assurance system at University – perspective of Industrial Engineering Master Program (available on the project website)		Robert Ulewicz		
6. Next Scheduled Meeting				
Date:	September 10-14, 2018	Time:	TBC	
Location:	University of Minho			