

# Hold Cross-cultural Engineering Project (CEP)

Implementation period	Implementing country	SIT's implementation partner organization	Target students	participant	SIT instructor
2019/07/08 ~2019/07/19	Portugal	Faculdade de Ciencias e Tecnologia, Universidade Nova de Lisboa King Mongkut's University of Technology Thonburi Chiang Mai University	<ul style="list-style-type: none"> <li>Systems Engineering and Science, Department of Electronic Information Systems, Department of Machinery and Control Systems, Department of Planning, Architecture and Environmental Systems, Department of Mathematical Sciences, Department of Bioscience and Engineering, Mechanical Engineering</li> <li>Undergraduate 4th grade, Master 1st grade, Master 2nd grade</li> </ul>	(SIT) Students 21, TA 3, Professor 3 (Faculdade de Ciencias e Tecnologia, Universidade Nova de Lisboa) Students 12, TA 3, Professor 2 (King Mongkut's University of Technology Thonburi) Students 2, Professor 1 (Chiang Mai University) Students 2	hasegawa hiroshi(Department of Machinery and Control Systems), watanabe dai(Department of Machinery and Control Systems), yoshimura kenjiro(Department of Machinery and Control Systems)



Image1

In FCT/UNL, Cross-cultural Engineering Project (CEP) for 12 days was hold. The CEP is a global PBL for synthetic problem solving based on system thinking on multi-cultures and multi-discipline. It has consisted of three regions, and the objective of CEP's EU region is an innovative creation. The participate student is 37 students, who include two students from Universidad de Navarra, Tecnun in Spain without Memorandum of Understandings. And then, the project was proceeded by six teams. As framework of innovative creation, CEP has introduced the Kando Quality and its understanding process for attractive quality, and has performed an analysis of conflict using QFD in requirement definition. The proposal from each project was drawn as a contradiction solution. This innovation process from problem finding to the proposal of solution has been performed systematically. Finally, a lot of well-executed proposals were well-received in having made prototypes.



Image2



Image3



Image4



Image5



Image6