

# Development of Grasp method of Natural rubber

Implementation period	Implementing country	SIT's implementation partner organization	Target students	participant	SIT instructor
2019/07/29 ~2019/08/08	Thailand	<b>King Mongkut's University of Technology Thonburi</b>	<ul style="list-style-type: none"> <li>• Department of Engineering Science and Mechanics</li> <li>• Undergraduate 3rd grade, Undergraduate 4th grade, Master 1st grade, Master 2nd grade</li> </ul>	(SIT) Students 9, TA 1, Professor 3 (King Mongkut's University of Technology Thonburi) Students 5, Professor 2	hashimura shinji(Department of Engineering Science and Mechanics), hosoya naoki(Department of Engineering Science and Mechanics), maeda shingo(Department of Engineering Science and Mechanics)



Image 1

The research gPBL was held with King Mongkut's university of Technology Thonburi in the summer. This research gPBL was attended by seven members from the Hosoya and Hashimura laboratories of the Department of Engineering Science and Mechanics and two third-grade students from the Department of Engineering Science and Mechanics. The gPBL was held with basis the theme of "Development of Grasp method of Natural rubber". Specifically, when conducting a tensile test of natural rubber, we devised a method for properly gripping natural rubber after understanding the characteristics of the rubber, and verified it through finite element analysis and experiments. .

The students of both universities worked hard together with each other despite of the absence of sufficient tools for experiments. This research gPBL seemed to be a excellent experience for students. The students explained the results in an easy-to-understand manner from an engineering perspective in the Final Presentation. Especially the third-grade students had said " We could know interesting points with regard to a research and international communication through the research gPBL". This research gPBL was the first effort, but I think that it has achieved great results in education and research.

We will also continue the gPBL with KMUTT in the next year.



Image 2



Image 3



Image 4



Image 5



Image 6