



Tohoku University STEM Summer Program (TSSP) 2019 (tentative)

WEEK 1							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun
AM 9:00 - 12:00	Arrive in Sendai	9:00-12:00 <u>Opening Ceremony & Orientation</u> Welcome Speech (Vice President, Prof. Yamaguchi) Introduction to Tohoku University (Prof. Kasukabe) Orientation for Tohoku University STEM Summer Program (Profs. Watanabe, Koike and Ohuchi) <u>Self-introduction (3 min PPT x 30=90 min)</u> <u>Campus Tour</u> Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館702室) Aobayama Campus	9:00-12:00 <u>Interactive Japanese Language</u> <u>Instructor: Ms. Takahashi & Ms. Shimasaki</u> <u>Introducing Culture</u> Aoba Memorial Hall (C03) Room No. 702 & 501, School of Engineering (工学研究科青葉記念会館 702, 501室) Aobayama Campus	9:00-9:30 <u>Introduction to Quntum Theory</u> Prof. Kasukabe 9:30-11:30 <u>Challenging Experiments for Quantum Theory (1)</u> Prof. Kasukabe Student Laboratories (A06) Kawauchi Campus	8:50-11:30 Lecture and Lab Visit 1 <u>Introduction to aircraft design</u> Prof. Nakamura Conference Room, 2nd Floor, 1st Building (C09) Institute of Fluid Science (流体科学研究所、第1棟2階会議室) Katahira Campus (片平キャンパス)	9:00-12:00 <u>Paper Aircraft Competition 2</u> Prof. Moriya, Prof. Watanabe & Prof. Koike Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus	
		Lunch (with TU students)	<u>Japanese talk lunch (with TU students)</u>	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	
PM 13:00 - 16:00		13:00-16:00 <u>Interactive Japanese Language</u> <u>Instructors: Ms. Takahashi & Ms. Backley</u> <u>Self-introduction in Japanese</u> Aoba Memorial Hall (C03) Room No. 702 & 501, School of Engineering (工学研究科青葉記念会館 702, 501室) Aobayama Campus	13:30-16:30 <u>Japanese Culture 1 Ikebana (Flower arrangement)</u> Prof. Chen Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702 室) Aobayama Campus	12:30-14:30 <u>Challenging Experiments for Quantum Theory (2)</u> Prof. Kasukabe 14:30-16:00 <u>Group Work of Challenging Experiments for Quantum Theory</u> Student Laborarories (A06) Kawauchi Campus	13:00-16:00 <u>Paper Aircraft Competition 1</u> Prof. Moriya Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus	13:00-16:00 <u>Paper Aircraft Group Work</u> Prof. Moriya, Prof. Watanabe & Prof. Koike Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus	

WEEK 2							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
AM 9:00 - 12:00		9:00-12:00 Special Lecture 1 <u>Material Science and Japanese Sword Smith</u> Prof. Ohuchi Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702 室) Aobayama Campus	8:30-18:00 <u>Field Trip (Shiroishi (Castle) and Sward Smith)</u>	9:00-12:00 <u>Japanese Culture 2 Rinnouji Temple and Experience in Zen Meditation</u> Prof. Ohuchi & Prof. Kasukabe Rinnouji Temple (輪王寺)	9:00-12:00 Lecture 2 <u>The 2011 Tohoku Earthquake</u> Prof. Matsuzawa Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702 室) Aobayama Campus	9:00-12:00 Lecture and Museum Visit 4 <u>Living with Planet of Disaster</u> Prof. Kakegawa Earth Science Research Bldg. (H12) Room 503, School of Science (理学研究科地球科学503室) Aobayama Campus	8:30-18:00 <u>Field Work</u> (Disaster-affected area: Mnamisa nnriku, Arahama, etc.)
		Lunch (with TU students)		Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	
PM 13:00 - 16:00		13:00-16:00 <u>Interactive Japanese Language</u> <u>Instructor: Ms. Takahasi & Ms. Backley</u> <u>Restaurant</u> Aoba Memorial Hall (C03) Room No. 702 & 501, School of Engineering (工学研究科青葉記念会館 702, 501室) Aobayama Campus		13:00-16:00 <u>Japanese Culture3 Calligraphy</u> Prof. Watanabe Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702 室) Aobayama Campus	13:00-16:00 Lecture and Lab Visit 3 <u>Robotics for Space Exploration</u> Prof. Yoshida Lecture Room Building-M.E (A02) in Aobayama campus, Lecture Room No.1 (機械系講義棟(青葉山キャンパスA02)第一講義室) Aobayama Campus	13:00-16:00 <u>Interactive Japanese Language</u> <u>Instructor: Ms. Takahasi & Ms. Backley</u> <u>Interview in Japanese</u> Aoba Memorial Hall (C03) Room No. 702 & 501, School of Engineering (工学研究科青葉記念会館 702, 501室) Aobayama Campus	



Tohoku University STEM Summer Program (TSSP) 2019 (tentative)

WEEK 3							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	30-Jun	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul
AM 9:00 - 12:00		9:00-12:00 Lecture and Lab Visit 5 <u>Introduction to Spintronics</u> President, Prof. Ohno Laboratory for Nanoelectronics and Spintronics (E04) (ナノ・スピン実験施設) A401 Katahira Campus	7:45-18:00 <u>Field Trip</u> (Ichinoseki and Toyota)	9:00-12:00 <u>Fastest Paper Clip Motor Competition 1</u> Prof. Moriya Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus	9:00-12:00 Lecture and Lab Visit 8 <u>Biomolecular Design and Robotics</u> Prof. Murata Mechanical Engineering Bldg.2 (A03), Room No. 203 (青葉山キャンパス, 機械系2号館 203会議室) Aobayama Campus	7:45-19:00 <u>Research Facility Tour</u> (Japan Proton Accelerator Research Complex: J-PARC in Tokai-mura, Ibaraki)	
		Lunch (with TU students)		Lunch (with TU students)	Lunch (with TU students)		
PM 13:00 - 16:00		13:00-16:00 Lecture and Lab Visit 6 <u>Symmetry Breaking Create Nature</u> Prof. Tanaka Lecture Room (2nd floor of Molecular Imaging Building), Cyclotron and Radioisotope Center (CYRIC) (分子イメージング棟2階講義室、サイクロトロン・ラジオアイソトープセンター、北青葉山キャンパス) Aobayama Campus		13:00-16:00 Lecture 7 <u>Introduction to Advanced Research with Accelerator</u> Prof. Koike Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702室) Aobayama Campus	13:00-16:00 <u>Fastest Paper Clip Motor Competition 2</u> Prof. Moriya Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus		

WEEK 4							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul
AM 9:00 - 12:00		9:00-12:00 Lecture and Lab Visit 9 <u>Study of Japanese historical disaster and culture</u> Prof. Ebina International Research Institute of Disaster Science (J31) Seminar room S100 (災害科学国際研究所セミナー室、S100、青葉山キャンパス) Aobayama Campus	9:00-12:00 Lecture and Lab Visit 10 <u>Structural Metallic Materials for Industry Innovation</u> Prof. Yoshimi Materials Science and Engineering (B01) Lecture room 2 (Room No. 102) (工学研究科材料科学棟(B01) 講義室2(102室)) Aobayama Campus	9:00-12:00 Lecture and Lab Visit 11 <u>Human Information Systems and Information Contents</u> Prof. Kitamura M531, RIEC Main building (G10), Katahira Campus (電気通信研究所本館5階 M531 セミナー室、片平キャンパス) Katahira Campus	9:00-12:00 <u>Group Work Session</u> (Preparation for Experimental Reports and/or Wrap-up Presentation) Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702室) Aobayama Campus	9:00-12:00 <u>Wrap-up Presentation of TSSP 2018</u> Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702室) Aobayama Campus	Depart from Sendai
		Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	
PM 13:00 - 16:00		13:00-16:00 <u>Japanese Culture 4 Aikido</u> Prof. Fujino Kawauchi Sub Arena, 3rd Floor (B05) (川内サブアリーナ棟3F) Kawauchi Campus	13:00-16:00 <u>Fastest Paper Clip Motor Group Work</u> Prof. Moriya Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus	13:00-16:00 Special Lecture 2 <u>Advanced Tutorial in Materials Science and Engineering</u> Prof. Ohuchi Lecture Hall (B03), Materials Science and Engineering, School of Engineering (工学研究科材料系大講義室) Aobayama Campus	13:00-16:00 <u>Group Work Session</u> (Preparation for Experimental Reports and/or Wrap-up Presentation) Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702室) Aobayama Campus	13:30-15:30 <u>Wrap-up Presentation of TSSP 2018</u> Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702室) Aobayama Campus 16:00-16:45 <u>Closing Ceremony</u> 17:00-18:30 <u>Farewell Party</u> Aoba Memorial Hall (C03) Room No. 702, School of Engineering (工学研究科青葉記念会館 702室) Aobayama Campus	