



# Tohoku University STEM Summer Program (TSSP) 2020 (tentative)

as of November 15, 2019

WEEK 1		Sun	Mon	Tue	Wed	Thu	Fri	Sat
		14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun
AM 9:00 - 12:00	Arrive in Sendai		<p>9:00-12:00 <b>Opening Ceremony &amp; Orientation</b> Welcome Speech (Vice President, Prof. Yamaguchi) Introduction to Tohoku University (Prof. Kasukabe) Orientation for Tohoku University STEM Summer Program (Profs. Watanabe, Koike and Ohuchi) <b>Self-introduction (3 min PPT x 30=-90 min)</b> <b>Campus Tour</b></p> <p>Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館501室)</p> <p>Aobayama Campus</p>	<p>9:00-12:00 Lecture 1 <b>The 2011 Tohoku Earthquake</b> Prof. Matsuzawa</p> <p>Research Center for Prediction of Earthquakes and Volcanic Eruption, Lecture room 1 (Building A (B32), Room No. 205) 地震・噴火予知研究観測センター第一講義室(A棟 (B32) 205号室)</p> <p>Aobayama Campus</p>	<p>9:00-9:30 <b>Introduction to Quntum Theory</b> Prof. Kasukabe</p> <p>9:30-11:30 <b>Challenging Experiments for Quantum Theory (1)</b> Prof. Kasukabe</p> <p>Student Laboratories (A06) Kawauchi Campus</p>	<p>8:50-11:30 Lecture and Lab Visit 2</p> <p><b>Introduction to aircraft design</b> Prof. Nakamura</p> <p>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)</p> <p>Katahira Campus</p>	<p>9:00-12:00 <b>Paper Aircraft Competition 2</b> Prof. Moriya, Prof. Watanabe &amp; Prof. Koike</p> <p>Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus</p>	
			Lunch (with TU students)	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		<p>13:00-16:00 <b>Interactive Japanese Language</b> <b>Instructors: Ms. Backley &amp; Ms. Mikoda</b> <b>Self-introduction in Japanese</b></p> <p>Aobayama Commons (J41) Lecture Room No. 3 &amp; 10, School of Agricultural Science (農学研究科青葉山 commons 第3及び第10講義室)</p> <p>Aobayama Campus</p>	<p>13:30-16:30 <b>Japanese Culture 1 Ikebana (Flower arrangement)</b> Prof. Chen</p> <p>Education and Student Support Center (A01), 4F Main Conference Room (教育学生総合支援センター 4階大会議室)</p> <p>Kawauchi Campus</p>	<p>12:30-14:30 <b>Challenging Experiments for Quantum Theory (2)</b> Prof. Kasukabe</p> <p>14:30-16:00 <b>Group Work of Challenging Experiments for Quantum Theory</b></p> <p>Student Laboratories (A06) Kawauchi Campus</p>	<p>13:00-16:00 <b>Paper Aircraft Competition 1</b> Prof. Moriya</p> <p>Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus</p>	<p>13:00-16:00 <b>Paper Aircraft Group Work</b> Prof. Moriya, Prof. Watanabe &amp; Prof. Koike</p> <p>Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus</p>		
		Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	

WEEK 2		Sun	Mon	Tue	Wed	Thu	Fri	Sat
		21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun
AM 9:00 - 12:00	Arrive in Sendai		<p>9:00-12:00 Special Lecture 1 <b>Material Science and Japanese Swordsmith</b> Prof. Ohuchi</p> <p>Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館 501室)</p> <p>Aobayama Campus</p>		<p>9:00-12:00 <b>Japanese Culture 2 Rinnouji Temple and Experience in Zen Meditation</b> Prof. Ohuchi &amp; Prof. Kasukabe</p> <p>Rinnouji Temple (輪王寺)</p>		<p>9:00-12:00 Lecture and Lab Visit 4 <b>Structural Metallic Materials for Industry Innovation</b> Prof. Yoshimi</p> <p>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))</p> <p>Aobayama Campus</p>	
			Lunch (with TU students)	<p>8:30-18:00 <b>Field Trip (Shiroishi (Castle) and Swordsmith)</b></p>	Lunch (with TU students)	<p>7:45-18:00 <b>Field Trip (Ichinoseki and Toyota)</b></p>	Lunch (with TU students)	
PM 13:00 - 16:00		<p>13:00-16:00 <b>Interactive Japanese Language</b> <b>Instructors: Ms. Backley &amp; Ms. Mikoda</b> <b>Introducing Culture</b></p> <p>Aobayama Commons (J41) Lecture Room No. 3 &amp; 10, School of Agricultural Science (農学研究科青葉山 commons 第3及び第10講義室)</p> <p>Aobayama Campus</p>		<p>13:00-16:00 Lecture and Lab Visit 3 <b>Symmetry Breaking Create Nature</b> Prof. Tanaka</p> <p>Lecture Room (2nd floor of Molecular Imaging Building(G12)), Cyclotron and Radioisotope Center (CYRIC) (分子イメージング棟(G12) 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)</p> <p>Aobayama Campus</p>		<p>13:00-16:00 Lecture and Lab Visit 5 <b>Robotics for Space Exploration</b> Prof. Yoshida</p> <p>Lecture Room Building-M.E (A02) in Aobayama campus, Lecture Room no.4 (機械系講義棟(青葉山キャンパスA02)第四講義室)</p> <p>Aobayama Campus</p>		
		Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)		



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WEEK 3							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	28-Jun	29-Jun	30-Jun	1-Jul	2-Jul	3-Jul	4-Jul
AM 9:00 - 12:00		9:00-12:00 Lecture and Lab Visit 6 <b>Historical and Social Approaches to Disaster</b> Profs. Ebina and Boret  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 7 <b>Origin of Life: The early Earth made the first life</b> Prof. Kakegawa  Earth Science Research Bldg. (H12) Room 513, 503, School of Science (理学研究科地球科学513室、503室)  Aobayama Campus		9:00-12:00 Lecture and Lab Visit 9 <b>Interactive "Content" Design</b> 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		
		Lunch (with TU students)	Lunch (with TU students)	<b>8:30-18:00</b>  <b>Field Work</b> Prof. Kakegawa  (Disaster-affected area: Mnamisanriku, Arahama, etc.)	Lunch (with TU students)	<b>8:30-19:00</b> <b>Research Facility Tour</b> <b>(Japan Proton Accelerator Research Complex: J-PARC in Tokai-mura, Ibaraki)</b>	
PM 13:00 - 16:00		13:00-16:00 <b>Japanese Culture 3 Calligraphy</b> Prof. Watanabe  International Exchange Building (A12) Room R115 (国際交流棟 (A12) R115室)  Kawauchi Campus	13:00-16:00 Lecture and Lab Visit 8 <b>Japanese second sample return mission: Hayabusa2</b> Prof. Nakamura  Earth Science Research Bldg. (H12) Room 503, School of Science (理学研究科地球科学 503室)  Aobayama Campus		13:00-16:00 Lecture 10 <b>Introduction to Advanced Research with Accelerator</b> Prof. Koike  Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館 501室)  Aobayama Campus		

WEEK 4								
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	
AM 9:00 - 12:00		9:00-12:00 Lecture and Lab Visit 11 <b>Introduction to Spintronics</b> President, Prof. Ohno  Laboratory for Nanoelectronics and Spintronics (E04) (ナノスピコン実験施設) A401  Katahira Campus	9:00-12:00 <b>Fastest Paper Clip Motor Competition 1</b> Prof. Moriya  Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus	9:00-12:00 Lecture 12 <b>Introduction to Renewable Energy Systems: Engineering and Constructing a Solar Power Plant</b> Dr. Jan Martin WARZECHA & Ms. Shivani MEHTA  Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館 501室)  Aobayama Campus	9:00-12:00 <b>Group Work Session</b> <b>(Preparation for Experimental Reports and/or Wrap-up Presentation)</b>  Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館 501室)  Aobayama Campus	9:00-12:00 <b>Wrap-up Presentation of TSSP</b>  Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館 501室)  Aobayama Campus		
		Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Lunch (with TU students)	Depart from Sendai
PM 13:00 - 16:00		13:00-16:00 <b>Japanese Culture 4 Aikido</b> Prof. Fujino  Kawauchi Sub Arena, 3rd Floor (B05) (川内サブアリーナ棟3F)  Kawauchi Campus	13:00-16:00 <b>Fastest Paper Clip Motor Competition 2</b> Prof. Moriya  Creative Engineering Center (D02) 創造工学研修センター Aobayama Campus	<b>13:00-17:00</b>  <b>Field Work :Introduction to Renewable Energy Systems: Engineering and Constructing a Solar Power Plant</b> Dr. Jan Martin WARZECHA & Ms. Shivani MEHTA  <b>( Kurokawa (Solar) photovoltaic power plant)</b>	13:00-16:00 <b>Group Work Session</b> <b>(Preparation for Experimental Reports and/or Wrap-up Presentation)</b>  Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館 501室)  Aobayama Campus	13:30-15:30 <b>Wrap-up Presentation of TSSP</b> Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館 501室)  Aobayama Campus  16:00-16:45 <b>Closing Ceremony</b> 17:00-18:30 <b>Farewell Party</b>  Aoba Memorial Hall (C03) Room No. 501, School of Engineering (工学研究科青葉記念会館 501室)		