Tohoku University STEM Summer Program (TSSP) 2024 (tentative)

WE	EK 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		9:00-12:00 Opening Ceremony & Orientation Welcome Speech (Vice President, Prof. Yamaguchi) Introduction to Tohoku University (Prof. Kasukabe) Orientation for Tohoku University STEM Summer Program (Profs. Watanabe, Koike) Self-introduction (3 min PPT x 30=~90 min) Engineering Laboratory Complex Building (C10), Lecture Room 1, Room No.101 School of Engineering (工学研究科総合研究棟講義室1, 101室) on Aobayama East Campus Aobayama Campus	Lecture room 1 (Room No. 101) (工学研究科材料科学棟(B01) 講義室1(101室)) on Aobayama East Campus	9:00-9:30 Introduction to Quntum Theory Prof. Kasukabe 9:30-11:30 Challenging Experiments for Quantum Theory (1) Prof. Kasukabe Student Laboratories (A06) on Kawauchi Campus Kawauchi Campus	8:50-11:30 Lecture and Lab Visit 2 Introduction to aircraft design Prof. Abe 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) on Katahira Campus Katahira Campus	9:00-12:00 Paper Aircraft Competition 1 Prof. Moriya Creative Engineering Center (D02) 創造工学研修センターon Aobayama East Campus Aobayama Campus	
	Arrive in	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	Sendai	13:30-15:30 Campus Tour with TU students (14:00-14:30 IEHE Lounge)	13:00-16:00 Japanese Culture 1 Japanese Flower Arrangement (Kadou) Prof. Chen 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) on Kawauchi Campus Kawauchi Campus	12:30-14:30 Challenging Experiments for Quantum Theory (2) Prof. Kasukabe 14:30-16:00 Group Work of Challenging Experiments for Quantum Theory Student Laborarories (A06) on Kawauchi Campus Kawauchi Campus	13:00-16:00 Interactive Japanese Language Instructors: Ms. Backley & Ms. Mikoda Introducing yourself and getting to know Japanese people Aobayama Commons (J41) Lecture Room No. 8 & 10, School of Agricultural Science (農学研究科青葉山コモンズ 第8及び第10講義室) on Aobayama New Campus Aobayama Campus	13:00-16:00 Paper Aircraft Competition 2 Prof. Moriya, Prof. Watanabe & Prof. Koike Creative Engineering Center (D02) 創造工学研修センターon Aobayama East Campus Aobayama Campus	

WE	EK 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 Lecture and Lab Visit 3 Secrets of the Japanese swords Prof. Ohuchi Engineering Laboratory Complex Building (C10), Lecture Room 1, Room No.101 School of Engineering (工学研究科総合研究棟講義室 1, 101室) on Aobayama East Campus Aobayama Campus		9:00-12:00 Lecture and Lab Visit 5 Robotics for Space Exploration Prof. Yoshida Lecture Room no.4, Lecture Room Building-M.E (A02) on Aobayama East Campus (機械系講義棟(青葉山キャンパ スA02)第4講義室) Aobayama Campus	9:00-12:00 Lecture and Lab Visit 7 Nonverbal Information to Enrich Future Telecommunication Prof. Kitamura M531, RIEC Main building (G10) on 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)	9:00-12:00 Lecture and Lab Visit 8 Borrowing ideas from nature; from anti-cancer therapeutics to adaptive network design Profs. Sasaki and Levias Engineering Laboratory Complex Building (C10), Lecture Room 1, Room No.101 School of Engineering (工学研究科総合研究棟講義室 1, 101室) on Aobayama East Campus Aobayama Campus	
		Lunch (with TU students)	9:00-18:00 Field Trip (Shiroishi (Castle) and Sword	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 4 Use of cyclotron in science, technology, and medicine Prof. Itho, Prof. Tashiro, Prof. Furumoto & Prof. Adachi 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) on Aobayama North Campus Aobayama Campus		13:00-16:00 Lecture and Lab Visit 6 Research Expedition in Antarctic Waters Prof. Okoshi Aobayama Commons (J41) Lecture Room No. 1, School of Agricultural Science (農学研究科青葉山コモンズ on Aobayama New Campus Aobayama Campus	13:00-16:00 Interactive Japanese Language Instructors: Ms. Backley & Ms. Mikoda Shopping and ordering food and drinks Aobayama Commons (J41) Lecture Room No. 8 & 10, School of Agricultural Science (農学研究科青葉山コモンズ 第8及び第10講義室) on Aobayama New Campus Aobayama Campus	13:00-16:00 Japanese Culture 2 Japanese Martial Arts (Aikidou) Prof. Fujino Kawauchi Sub Arena, 3rd Floor (B05) (川内サブアリーナ棟3F) on Kawauchi Campus Kawauchi Campus	

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	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 9 Introduction to Spintronics President, Prof. Ohno Laboratory for Nanoelectronics and Spintronics (E04) (ナノ・スピン実験施設) A401 on Katahira Campus Katahira Campus	8:30-18:00 Field Work Prof. Kakegawa	9:00-18:00 Field Work Prof. Kakegawa & Prof. Ishida	8:40-12:00 Japanese Culture 3 Rinno-ji (temple) 輪王寺 and Shikan taza 只管打坐 (zazen for its own sake) Prof. Koike & Prof. Kasukabe Rinnouji Temple (輪王寺)	9:00-12:00 Lecture 11 (1) How to see things using waves and role of an accelerator (2) Synchrotron Analysis Techniques and their Advanced Applications Prof. Koike & Prof. Mott University House Aobayama (UHA), Interaction Building (L16), 1st Floor, Meeting room, (UH青葉山 (UHA), インタラクション棟 (L16), 1階, 研修室) on Aobayama New Campus Aobayama Campus	
		Lunch (with TU students)			Lunch (with TU students)	Lunch (with TU students)	
PM 13:00 - 16:00		13:30-16:30 Lecture and Lab Visit 10 The 2011 Tohoku Earthquake Prof. Matsuzawa Research Center for Prediction of Earthquakes and Volcanic Eruptions, 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) on Aobayama East Campus Aobayama Campus	(Earthquake and Tsunami Disaster: Lessen from 3.11 Tohoku Great Earthquake)	(Geomicrobiology: Life in extreme environment)	13:00-16:00 Interactive Japanese Language Instructors: Ms. Backley & Ms. Mikoda Introducing your own culture and finding out about Sendai Aobayama Commons (J41) Lecture Room No. 8 & 10, School of Agricultural Science (農学研究科青葉山コモンズ 第8及び第10講義室) on Aobayama New Campus Aobayama Campus	13:00-16:00 Research Facility Tour (Next Generation Synchrotron Radiation Center in Sendai: NANOTERASU)	

WEI	EK 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 12 Protein Folding Problem: Efforts to solve the simple but notoriously difficult puzzle are now revolutionizing life sciences. Prof. Takahashi & Prof. Ito Conference Room on 1F of South Multidisciplinary Research Laboratory 2 (E03) (南総合研究棟2(E03) 大会議 室) on Katahira Campus Katahira Campus	9:00-12:00 Fastest Paper Clip Motor Competition 1 Prof. Moriya Creative Engineering Center (D02) 創造工学研修センター on Aobayama East Campus Aobayama Campus	9:00-12:00 Japanese Culture 4 Tea Ceremony (Sadou) Prof. Watanabe R115 of International Exchange Building (A12) on Kawauchi campus, (川内キャンパス: 国際交流棟 (A12)R115室) and Rm 211 of Kawauchi Circle and Club Building (B02) (川内キャンパス: クラブ・サーク ル棟(B02)211) on Kawauchi Campus Kawauchi Campus	9:00-12:00 Group Work Session (Preparation for Experimental Reports and/or Wrap-up Presentation) Engineering Laboratory Complex Building (C10), Lecture Room 2, Room No.110, School of Engineering (工学研究科総合研究棟講義室 2, 110室) on Aobayama East Campus Aobayama Campus	9:00-12:00 <u>Wrap-up Presentation of TSSP 2023</u> University House Aobayama (UHA), Interaction Building (L16), 1st Floor, Meeting room, (UH青葉山 (UHA), インタラクション棟 (L16), 1階, 研修室) on Aobayama New Campus Aobayama Campus	
		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 Lecture and Lab Visit 13 Reaction Engineering for Sustainable Process Prof. Kitakawa Applied Chemistry, Chemical Engineering and Biomolecular Engineering, Lecture Room Building (E04, Room No.710) on Aobayama East Campus, (化 学・バイオ系講義棟, 小講義室 (1) (E04, 710号室), 青葉山東 キャンパス) Aobayama Campus	13:00-16:00 Fastest Paper Clip Motor Competition 2 Prof. Moriya Creative Engineering Center (D02) 創造工学研修センター on Aobayama East Campus Aobayama Campus	13:00-16:00 Lecture and Lab Visit 14 Humanities Approaches to Disasters -Study of Japanese historical disaster and culture- 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) on Aobayama New Campus Aobayama Campus	13:00-16:00 Interactive Japanese Language Instructors: Ms. Backley & Ms. Mikoda Presentation - Your experience of visiting Sendai Aobayama Commons (J41) Lecture Room No. 8 & 10, School of Agricultural Science (農学研究科青葉山コモンズ 第8及び第10講義室) on Aobayama New Campus Aobayama Campus	13:30-15:30 Wrap-up Presentation of TSSP 2023 University House Aobayama (UHA), Interaction Building (L16), 1st Floor, Meeting room, (UH青葉山 (UHA), インタラクション棟 (L16), 1階, 研修室の Aobayama New Campus Aobayama Campus 16:00-16:45 Closing Ceremony 17:00-18:30 Farewell Party University House Aobayama (UHA), Interaction Building (L16), 1st Floor, Meeting room, (UH青葉山 (UHA), インタラクション棟 (L16), 1階, 研修室) Aobayama Campus	