

X International School – 2026

Class: 011225 Tropical Biobased Production Systems | 2026 July 13th - 24th

Coordinators: Profs. Aline Cesar, Ana Claudia dos Santos Luciano, Brunno da Silva Cerozi and Pietro Sica

Support - International Office: Carmen Pilotto, Elaine Oliveira, Luciana Joia and Rodrigo Gullo

Esalq/USP Campus (Av. Pádua Dias, n. 11, Piracicaba/SP) [**Ceres Room - Central Building (C.B.)**]



1st week

Monday – July 13	Activity
8:30 am - 10:00 am 10:00 am - 12:00 pm Local: Ceres Room/Central Building	Registration - Welcome Coffee (Dean and Coordination) Opening Class: Overview of Brazilian Agriculture Prof. Rafael Munhoz Pedroso (Crop Science Dep.) + Official Photo
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm Local: Ceres Room/Central Building	Orientation to Evaluation/Final Project (coordinators) Visit to the Carbon Research in Tropical Agriculture (CCARBON)/USP and Adealg Store
Tuesday – July 14	Activity
8:30 am - 12:00 pm Local: Ceres Room - Central Building	Biosystems Engineering - The future of digital agriculture: automation, AI, and robotics Prof. Roberto Fray da Silva (Biosystems Engineering Dep.) - Driving Sustainability through Biogas: concepts and practices from Brazil Prof. Maria Paula Cardeal Volpi (Biosystems Engineering Dep.) - Machine learning for monitoring the impact of compound climate extremes on agroecosystems Prof. Marcos Roberto Benso (Biosystems Engineering Dep.) <i>10:00 am - Visit to the experimental area (Areão Farm)</i> <i>Local: bus departure - in front of the Central Building</i> <i>It is mandatory to wear pants, closed T-shirt and closed shoes.</i>
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 2:30 pm Local: Ceres Room/Central Building	Animal Science - Milk Production in the Tropics Prof. Carla Maris Bittar (Animal Science Dep.)
2:30 pm - 5:00 pm	Final Project Preparation (1) (students)
Wednesday - July 15	Activity
8:30 am – 12:00 pm Local: bus departure In front of the Central Building	Entomology and Acarology - Challenges for integrated Pest Management in the Tropics Prof. João Roberto Spotti Lopes (Entomology and Acarology Dep.) <i>9:30 am - Rotating Visits to Research Laboratories - Dep. Entomology and Acarology</i>
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm	Final Project Preparation (2) (students)
Thursday - July 16	Activity
7:30 am – 6:00 pm Local: bus departure In front of the Central Building	Forest Sciences - Tropical Planted Forest Management -> Prof. Rodrigo Eiji Hakamada (Forest Sciences Dep.) <i>Visit to a forest restoration area (native species and fruit trees and another mixed plantation with native and exotic species) - Anhembi Forestry Research Station</i> <i>It is mandatory to wear pants, closed T-shirt and closed shoes.</i>
Friday - July 17	Activity
8:00 am - 12:00 pm Local: bus departure In front of the Central Building	Genetics - Past, Present, and Future of Arabica Coffee Genetics: from domestication to the challenge of climate change -> Prof. Douglas Silva Domingues (Genetics Dep.) <i>Visit to IAC Coffee Center, Campinas – SP</i> <i>It is mandatory to wear pants, closed T-shirt and closed shoes.</i>
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 3:30 pm Local: Ceres Room/Central Building	Economics, Administration and Sociology - Economics and Natural Resource use in Brazilian Agriculture Prof. Joaquim Bento de Souza Ferreira Filho (Economics, Administration and Sociology Dep.) - Carbon Credit Markets in Brazil Prof. Maria Paula Vieira Cicogna (Economics, Administration and Sociology Dep.)
4:00 pm - 5:00 pm Local: Ceres Room/Central Building	Forest Sciences - Eucalyptus Pulp Production in Brazil Prof. Francides Gomes da Silva Junior (Forest Sciences Dep.)
Saturday (18) and Sunday (19)	Free

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2nd week

Monday - July 20	Activity
8:30 am - 12:00 pm <u>Local:</u> Ceres Room Central Building	Crop Science - Irrigated Agriculture for supporting the World Food Security Prof. Durval Dourado Neto (Crop Science Dep.) - Soybean Production in Brazil: current situation and prospects in a climate change scenario Prof. Renan Caldas Umburanas (Crop Science Dep.) - Cotton production in Brazil: production systems, crop management, and emerging challenges Prof. Juan Piero Antonio Raphael (Crop Science Dep.)
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:30 pm <u>Local: bus departure</u> In front of the Central Building	<i>Visit to the Granelli Usina, Charqueada - SP</i> <i>It is mandatory to wear pants, closed T-shirt and closed shoes.</i>
Tuesday - July 21	Activity
8:30 am - 12:00 pm <u>Local:</u> Dep. Soil Science (next to the Central Building)	Soil Science - Plant nutrition for heavy metal stress mitigation -> Prof. Flavio H. S. Rabêlo (Soil Science Dep.) - Geotechnologies applied to Soil Studies -> Prof. Raúl R. Poppiel (Soil Science Dep.) <i>10:30 am - Visit to the Remote Sensing and Geoprocessing Lab. Applied to Soils and Land Use Planning, Soil Science Department</i>
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 2:30 pm <u>Local:</u> Ceres Room - Central Building	Plant Pathology and Nematology - Plant disease management in Tropical and Subtropical Areas Prof. José Belasque Junior (Plant Pathology and Nematology Dep.)
2:30 pm - 5:00 pm	Final Project Preparation (3) (students)
Wednesday- July 22	Activity
8:30 am - 10:30 pm <u>Local:</u> Ceres Room Central Building	Biological Sciences - Theobroma Cacao: how tropical pathogens threaten the world chocolate supply Prof. Paulo Teixeira (Biological Sciences Dep.) Brazilian agrobiodiversity: potential plants for tropical agriculture Prof. Flávio Bertin Gandara Mendes (Biological Sciences Dep.)
10:30 pm - 12:00 pm	Final Project Preparation (4) (students)
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm <u>Local: Ceres Room, C.B.</u>	Final Project Preparation (5) (students)
Thursday- July 23	Activity
8:30 am - 12:pm <u>Local:</u> Dep. Food Science and Technology – Building 2 (in front of the restaurant)	Food Science and Technology - Sustainable Food and Bioenergy from Sugarcane -> Prof. Pietro Mendonça de Santis Sica (Food Science and Technology Dep.) - Cachaça: Quality Assurance and Control -> Prof. André Alcarde (Food Science and Technology Dep.) <i>10:30 am - Visit to the Pilot Plant/Distillery and Laboratories</i>
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:30 pm <u>Local: bus departure</u> In front of the Central Building	<i>Visit to CTC (Sugarcane Technology Center)</i> <i>It is mandatory to wear pants, closed T-shirt and closed shoes.</i>
Friday - July 24	Activity
8:30 am - 12:pm <u>Local: Ceres Room, C.B.</u>	Students Presentations
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm <u>Local: Ceres Room, C.B.</u>	Students Presentations

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*Final Project proposal: During the course, students will be encouraged to work on creating an innovative project whose theme will be Food and Nutritional Security in Tropical Production Systems. At the end of the course, students will present their projects to the Esalq community and guests, and the best projects can be presented at global meetings in which A5 takes part.

v. March 9, 2026