

## X International School – 2026

**Class: 011225 Tropical Biobased Production Systems | 2026 July 13<sup>th</sup> - 24<sup>th</sup>**

**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.)**]



### Draft programme

#### **1st week**

<b>Monday – July 13</b>	<b>Activity</b>
<b>8:30 am - 10:00 am</b>	Registration - Welcome Coffee (Dean and Coordination)
<b>10:00 am - 12:00 pm</b>	<b>Opening Class: Overview of Brazilian Agriculture</b>
<u>Local:</u> Ceres Room	Prof. Rafael Munhoz Pedroso (Dep. Crop Science) + <b>Official Photo</b>
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 5:00 pm</b>	<b>Orientation to Evaluation/Final Project (coordinators)</b>
<u>Local:</u> Ceres Room	<b>Visit to the Carbon Research in Tropical Agriculture (CCARBON)/USP and Adealq Store</b>
<b>Tuesday – July 14</b>	<b>Activity</b>
<b>8:30 am - 12:00 pm</b>	<b>Biosystems Engineering</b>
<u>Local:</u> Ceres Room Central Building	<ul style="list-style-type: none"> <li>- An outlook for food and agriculture in the next decades</li> <li>- The future of digital agriculture: automation, AI, and robotics</li> <li>- Driving Sustainability through Biogas: concepts and practices from Brazil</li> </ul>
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 3:30 pm</b>	<b>Animal Science</b>
<u>Local:</u> bus departure In front of the Central Building	<ul style="list-style-type: none"> <li>- Milk Production in the Tropics</li> </ul>
<b>3:30 pm - 5:00 pm</b>	<i>2:15 pm - Visit to the Calf (Baby Cow) Nursery - Dep. Animal Science</i>
<b>3:30 pm - 5:00 pm</b>	<b>Final Project Preparation (1) (students)</b>
<b>Wednesday - July 15</b>	<b>Activity</b>
<b>8:30 am – 12:00 pm</b>	<b>Entomology and Acarology</b>
<u>Local:</u> bus departure In front of the Central Building	<ul style="list-style-type: none"> <li>- Challenges for Integrated Pest Management</li> </ul>
<b>12:00 pm - 1:30 pm</b>	<i>9:30 am - Rotating Visits to Research Laboratories - Dep. Entomology and Acarology</i>
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 5:00 pm</b>	<b>Final Project Preparation (2) (students)</b>
<b>Thursday - July 16</b>	<b>Activity</b>
<b>7:30 am – 6:00 pm</b>	<b>Forest Sciences</b>
<u>Local:</u> bus departure In front of the Central Building	<b>Tropical Planted Forest Management</b> <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>
<b>Friday - July 17</b>	<b>Activity</b>
<b>8:30 am - 12:00 pm</b>	<b>Genetics</b>
<u>Local:</u> Ceres Room Central Building	<ul style="list-style-type: none"> <li>- Past, Present, and Future of Arabica Coffee Genetics: from domestication to the challenge of climate change</li> <li>- Challenges and Opportunities of Maize Breeding under Tropical conditions of Brazil</li> </ul>
<b>12:00 pm - 1:30 pm</b>	<i>10:30 am – Guided Visit to the Department of Genetics</i>
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 3:30 pm</b>	<b>Economics, Administration and Sociology</b>
<u>Local:</u> Ceres Room - Central Building	<ul style="list-style-type: none"> <li>- Economics and Natural Resource use in Brazilian Agriculture</li> <li>- Carbon Credit Markets in Brazil</li> </ul>
<b>4:00 pm - 5:00 pm</b>	<b>Forest Sciences</b>
<u>Local:</u> Ceres Room, C.B.	- Eucalyptus Pulp Production in Brazil
<b>Saturday (18) and Sunday (19)</b>	Free

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### 2nd week

Monday - July 20	Activity
<b>8:30 am - 12:00 pm</b> <u>Local:</u> Ceres Room Central Building	<b>Crop Science</b> - Irrigated Agriculture for supporting the World Food Security - Soybean Production in Brazil: current situation and prospects in a climate change scenario - Cotton and other fibrous plants
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 5:30 pm</b> <u>Local: bus departure</u> In front of the Central Building	<i>Visit – Usina</i>
Tuesday - July 21	Activity
<b>8:30 am - 12:00 pm</b> <u>Local:</u> Dep. Soil Science (next to the Central Building)	<b>Soil Science</b> - Plant nutrition for heavy metal stress mitigation - Geotechnologies applied to Soil Studies <i>10:30 am - Visit to the Remote Sensing and Geoprocessing Lab. Applied to Soils and Land Use Planning, Dep. Soil Science</i>
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 2:30 pm</b> <u>Local:</u> Ceres Room – C.B.	<b>Plant Pathology and Nematology</b> - Plant disease management in Tropical and Subtropical Areas
<b>2:30 pm - 5:00 pm</b>	<b>Final Project Preparation (3) (students)</b>
Wednesday- July 22	Activity
<b>8:30 am - 10:30 pm</b> <u>Local:</u> Ceres Room Central Building	<b>Biological Sciences</b> - Theobroma Cacao: how tropical pathogens threaten the world chocolate supply - Improving tomato fruit quality by targeting the APC/C regulator SISAMBA
<b>10:30 pm - 12:00 pm</b>	<b>Final Project Preparation (4) (students)</b>
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 5:00 pm</b> <u>Local:</u> Ceres Room, C.B.	<b>Final Project Preparation (5) (students)</b>
Thursday- July 23	Activity
<b>8:30 am - 12:pm</b> <u>Local:</u> Dep. Food Science and Technology – Building 2 (in front of the restaurant)	<b>Food Science and Technology</b> - Sustainable Food and Bioenergy from Sugarcane - Cachaça: Quality Assurance and Control <i>10:30 am - Visit to the Pilot Plant/Distillery and Laboratories</i>
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 5:00 pm</b> <u>Local:</u> Ceres Room, C. B.	<i>Visit – CTC</i>
Friday - July 24	Activity
<b>8:30 am - 12:pm</b> <u>Local:</u> Ceres Room, C.B.	<b>Students Presentations</b>
<b>12:00 pm - 1:30 pm</b>	Lunch Break
<b>1:30 pm - 5:00 pm</b> <u>Local:</u> Ceres Room, C.B.	<b>Students Presentations</b>

\*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.