

**ESALQ**Luiz de Queiroz College of Agriculture
University of São Paulo**Draft program****VIII International School – 2024****Class: 011225 Tropical Biobased Production Systems | July 15th - 26th****Coordinators:** Profs. Aline Silva Mello Cesar, Brunno da Silva Cerozi and Rafael Munhoz Pedroso

Monday - July 15th	Activity
8:30 am - 10:00 am	Registration - Welcome Coffee
10:00 am - 10:15 am	Welcome (Dean and Coordination)
10:15 am – 11:30 am	Opening Class: Overview of Brazilian Agriculture Prof. Rafael Munhoz Pedroso (Department of Crop Science)
11:30 am - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm	Official Photo (in front of the Central Building) Tour – Campus Orientation to Evaluation/Final Project (coordinators)
Tuesday - July 16th	Activity
8:30 am - 9:30 am	Animal welfare
9:30 am - 9:45 am	Coffee Break
9:45 am - 10:45 am	Final Project Preparation 1 (students)
10:45 am - 12:00 am	Lunch Break
12:00 am - 6:00 pm	Technical Visit (1)
Wednesday - July 17th	Activity
8:30 am - 12:00 am	Challenges for Integrated Pest Management
12:00 am - 1:30 pm	Lunch Break
1:30 pm – 5:00 pm	Final Project Preparation 2 (students)
Thursday - July 18th	Activity
8:30 am - 9:30 am	Economics and Natural Resource Use in Brazilian Agriculture
9:30 am - 9:45 am	Coffee Break
9:45 am - 10h45 am	An outlook for food and agriculture in the next decades
10:45 am - 11:00 am	Coffee Break
11:00 am - 12:00 am	Integrating carbon footprint to spatialized modeling
12:00 am - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm	Technical Visit (2)
Friday - July 19th	Activity
8:30 am - 9:30 am	Harnessing Synergy: How Integrated Agriculture-Aquaculture Feeds the Future Sustainably Prof. Brunno da Silva Cerozi (Department of Animal Science)
9:30 am - 9:45 am	Coffee Break
9:45 am - 10h45 am	Challenges and Opportunities of Maize Breeding under Tropical conditions of Brazil
10:45 am - 11:00 am	Coffee Break
11:00 am - 12:00 am	Plant-microbiome crosstalk and disease development
12:00 am - 1:30 pm	Lunch Break
1:30 pm – 5:00 pm	Technical Visit (3)
Saturday - July 20th	Free
Sunday - July 21st	Free
Monday - July 22nd	Activity
8:30 am - 8:45 am	Open Ceremony - Advanced School on Tropical Agriculture
8:45 am - 9:45 am	Tropical Forest Restoration
9:45 am - 10:00 am	Coffee Break
10:00 am - 11:00 am	Effects of using composted organic residues and organomineral fertilizers on soil quality
11:00 am - 12:00 am	Exploring the diversity and agronomic benefits of microorganisms from the tropics

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12:00 am - 1:30 pm	Lunch Break
1:30 pm - 2:30 pm	Center for Carbon Research in Tropical Agriculture
2:30 pm - 3:00 pm	Coffee Break
3:00 pm - 4:00 pm	Soil health and Carbon sink
4:00 pm - 5:00 pm	Improving soil physico-chemical features in agricultural soils
Tuesday - July 23th	Activity
8:30 am - 9:30 am	Irrigated agriculture for supporting the world food security
9:30 am - 9:45 am	Coffee Break
9:45 am - 10h45 am	Biomass Production for Bioenergy
10:45 am - 11:00 am	Coffee Break
11:00 am - 12:00 am	Alternative sources of K for agriculture
12:00 am - 1:30 pm	Lunch Break
1:30 pm - 2:30 pm	Phosphate mining and fertilizer production
2:30 pm - 3:00 pm	Coffee Break
3:00 pm - 4:00 pm	Phosphate fertilizer management in Brazilian agriculture Prof. Paulo Pavinato (Department of Soil Science)
4:00 pm - 5:00 pm	Phosphate fertilizer management in African agriculture
Wednesday- July 24th	Activity
8:30 am - 9:30 am	Tropical Fruticulture, Native Plants
9:30 am - 9:45 am	Coffee Break
9:45 am – 12:00 am	Final Project Discussion (coordinators and students)
12:00 am - 1:30 pm	Lunch Break
1:30 pm – 5:00 pm	Technical Visit (4)
Thursday- July 25th	Activity
8:30 am - 9:30 am	Eucalyptus pulp production in Brazil
9:30 am - 9:45 am	Coffee Break
9:45 am - 10h45 am	Data science: general concepts and some applications in Agriculture
10:45 am - 11:00 am	Coffee Break
11:00 am - 12:00 am	“Cachaça” Science, Technology and Art
12:00 am - 1:30 pm	Lunch Break
1:30 pm - 5:00 pm	Final Project Preparation 3 (students)
Friday- July 26th	Activity
8:30 am - 10:00 am	Students Presentations
10:00 am - 10:30 am	Coffee Break
10:30 am - 12:00 am	Students Presentations
12:00 am - 1:30 pm	Lunch Break
1:30 am - 3:00 pm	Students Presentations
3:00 pm - 3:30 pm	Coffee Break
3:30 pm – 5:00 pm	Closing Session

***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.