

# THE INTERNATIONAL SCHOOL OF AGRICULTURAL SCIENCES



**THE INTERNATIONAL SCHOOL OF AGRICULTURAL SCIENCES**

The Hebrew University  
of Jerusalem

The Robert H. Smith Faculty of  
Agriculture, Food and Environment





## The Hebrew University of Jerusalem

The Hebrew University of Jerusalem, Israel's leading research institution, is ranked internationally among the 100 leading universities in the world. The Hebrew University strives for excellence. Its outstanding scholars have achieved impressive breakthroughs in a variety of disciplines and publish frequently in prestigious scientific journals. Their research has garnered outstanding awards in Israel and worldwide, including the Nobel Prize, the Fields Medal and the Israel Prize. They are among the very top winners of the European Research Council's competitive grants to young researchers. One-third of all competitive research grants awarded in Israel are won by Hebrew University scholars.

## The Robert H. Smith Faculty of Agriculture, Food and Environment

REHOVOT CAMPUS, HEBREW UNIVERSITY

Ranked among the top 30 agricultural schools worldwide, the Robert H. Smith Faculty of Agriculture, Food and Environment is Israel's standard bearer in plant sciences, environment, nutrition and animal sciences.

The Faculty's mission is to share the benefits of Israeli research and innovation with other nations; protect and rehabilitate the environment while increasing food production and reducing world hunger; and improve the quality and purity of plant and animal products. In general, the Faculty offers programs leading to B.Sc., M.Sc. and Ph.D. degrees in Agriculture, B.Sc. and M.Sc. degrees in Nutrition, and a Doctor of Veterinary Medicine degree (Veterinary degree is offered only in Hebrew). All postgraduate courses at the Faculty of Agriculture are taught in English.

## The International School of Agricultural Sciences

The Faculty's International School of Agricultural Sciences is dedicated to spreading the Smith Faculty's knowledge and expertise throughout the international community by providing opportunities to acquire advanced academic knowledge and observe up-to-date practical applications.

The International School offers short-term postgraduate courses on various agricultural subjects and Master of Science programs, all of which are conducted in English.



## ADVANCED DEGREES IN THE FACULTY OF AGRICULTURE

### Master's Programs

The International Master of Science programs are 12-month accelerated non-thesis degrees in one of four fields of study: **Plant Sciences** or **Environmental Quality Sciences**, held biennially in even years; and **Animal Sciences** or **Nutritional Sciences**, held biennially in odd years. To earn the degree, students are required to complete 40 course credits. Excelling students may apply to transfer to the thesis track at the Robert H. Smith Faculty of Agriculture, Food and Environment.

In addition, the International School offers a 20-month **Master of Science in Viticulture & Enology** program, with a **Master of Science in Development Practice** track set to open in October 2019.

### MSc Agr in the field of Environmental Quality Sciences

The International Master of Science in Environmental Quality Sciences prepares students to address the challenges of global environmental issues: development of alternative water and energy resources, water and soil pollution treatment, waste recycling, agricultural intensification, environmentally sustainable pest control and plant protection, and related economics.

The program is academically headed by **Dr. Tamara Polubesova**.

### MSc Agr in the field of Plant Sciences

The International Master of Science in Plant Sciences prepares students to become leading professionals in present and future agriculture and adapt their new knowledge to local conditions in their home countries. Students acquire advanced knowledge and skills concerning crop plant production, environmental impact of agricultural activity, cropping systems, theoretical and experimental approaches to solving practical problems and the adaptation of appropriate solutions to other scenarios.

The program is academically headed by **Prof. Alon Samach**.

### MSc in Nutritional Sciences

The International Master of Science in Nutritional Sciences prepares students to become leading professionals in the field of nutritional sciences and apply the knowledge acquired at the Smith Faculty to modern nutritional challenges in their



home countries. Students in the program learn the fundamentals of nutrition based on the most recent scientific findings, research and diagnostic approaches.

The program is academically headed by **Prof. Betty Schwartz and Dr. Aliza Stark.**

### MSc Agr in the field of Animal Sciences

The International Master of Science in Animal Sciences prepares students to become leading professionals in modern animal husbandry and contribute the skills and knowledge gained at the Smith Faculty to improve agriculture in their home countries. Students acquire the fundamentals of Animal Sciences based on the most recent scientific findings, as well as comprehensive knowledge on animal physiology, farm animal production and the environmental impact of animal husbandry.

The program is academically headed by **Prof. Sameer J. Mabjeesh.**



### MSc Agr in the field of Viticulture and Enology

(WINE MAKING AND VINEYARD GROWING)

The International Master of Science in Viticulture & Enology offers thorough training in the fundamental science behind all the processes related to grape production and winemaking while stressing ancient and modern production techniques under marginal conditions. The program also addresses environmental aspects, such as global warming and its effects on water management.

Students will gain knowledge and skills at an academic level consistent with leading programs in other wine-producing countries, such as France, the United States and Australia, with special emphasis on the Israeli industry.

This biennial, 20-month program spans four consecutive semesters and is comprised of theoretical studies on campus and practical hands-on learning in the vineyard and winery. Students also participate in a professional workshop abroad.

The program is academically headed by **Prof. Zohar Kerem.**

### MSc in Development Practice

This unique Master of Science in Development Practice, dedicated to resource and development economics, is scheduled to open in October 2019. A joint venture with Jerusalem Institute's Milken Innovation Center, the MDP is accredited by the **Global MDP Association.**

Students are offered the exceptional opportunity to gain the tools to explore market-based solutions to agricultural, environmental, economic and business challenges of global, sustainable development. This multilateral scholastic and training program combines academic learning by leading academics and professionals with practical internship training with demonstrable project-development outcomes.

The program is academically headed by **Dr. Iddo Kan.**

### Doctoral Studies and Postdoctoral Training

Excelling students can pursue their PhD at our Faculty, as can young researchers seeking postdoctoral training.

To search for relevant mentors/research areas and read the submission guidelines, please visit the Smith Faculty website: **[en.hafakulta.agri.huji.ac.il](http://en.hafakulta.agri.huji.ac.il).**



## SHORT-TERM PROGRAMS

### MASHAV international training courses

For the past 30 years, the International School has been conducting short-term professional training courses for participants from developing countries in partnership with MASHAV (Israel's Agency for International Development Cooperation), in subjects such as **Nutrition, Food Safety, Agricultural and Natural Resource Economics, and Bioinformatics and Biotechnology**. In addition to academic lectures, these three-week programs include hands-on experience, lab work, professional field trips and tours around Israel, and provide a framework for continued networking and research cooperation among the participants and between them and Israeli experts.

### Internship options

Students from other institutes are welcome to intern at our state-of-the-art labs for short time periods (10 days - 2 months).

### ELLS summer programs

These two-week programs are the product of a successful collaboration between the Faculty of Agriculture and the Euro-League for Life Sciences (ELLS), a network of leading universities cooperating in the fields of Natural Resource Management and Agricultural, Food and Environmental Sciences. Previous ELLS summer programs were dedicated to subjects such as 'The Use of New Sources of Water for Crop Irrigation: Case Study in the Middle East' and 'Mediterranean Diet – from Genes to Health'.

### Council of Higher Education Summer School

(SUMMER PROGRAM IN AGRICULTURAL SCIENCES)

This four-week study program is conducted under the auspices of the International School of Agricultural Sciences in collaboration with Israel's Council of Higher Education. Scholarships are available to students from India and China.

The program includes two advanced agricultural science courses selected from the Faculty's course list for their relevance to international agriculture.

Previous courses were dedicated to subjects such as 'Genetic Engineering and Breeding', 'Effluents – Reclamation, Irrigation and Environmental Implication', and 'Effects of Biotic and Abiotic Stresses on Agricultural Crops'.





## WHAT OUR INTERNATIONAL STUDENTS HAVE TO SAY

### Armando Garcia, Mexico

MSC Agr IN THE FIELD OF PLANT SCIENCES 2016-2017

Personal project: Tissue culture and virus elimination in garlic



"Studying at the International School of the Hebrew University has given me many tools that will allow me to excel in many sectors, such as industry, academy and business. I think that in the past I was a Mexican citizen, but after being part of the International School, I have become a citizen of the world.

Being part of an international program allowed me not only to meet wonderful people from many parts of the world and have amazing experiences in Israel

but also to better understand how things are around the world, how privileged we are, and how to give others the same opportunities we received."

### Beatrice Gedion, Kenya

MSC Agr IN THE FIELD OF PLANT SCIENCES 2016-2017

Personal project: Constructing water reservoirs for irrigation in Kenya



"After receiving the opportunity to study for my MSc degree in Israel, I wanted to take home the knowledge I had gained and use it to advance my community. The nearest water point to my village is approximately 17 km away, with the only accessible means of transport being donkeys, since it is mountainous; people spend half a day just fetching water.

When I went home during the semester break, I discussed with my community's leaders the idea of constructing water reservoirs to collect water runoff and use it for irrigation. My parents supported my idea and helped me dig. So far, my community has built five reservoirs."

## WHY YOU SHOULD STUDY HERE

- World-class scientists in the fields of plant sciences, environmental sciences, agriculture, nutrition, animal sciences, economics, viticulture and enology
- All courses are taught in English
- Practical agricultural studies and hands-on experiences
- On-campus housing
- International atmosphere
- Full-scholarship options
- Complete support services; warm and helpful staff
- Opportunities to experience local entrepreneurship and learn the tricks of the trade from the 'start-up nation'



Planting Parsley at the Organic Farm. Photographer: Shimi Scheider, Agricultural Gallery no. 11, Kanat



## FACTS AND FIGURES

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# 30 years

For 30 years, the International School of Agricultural Sciences has been offering English-taught courses and academic programs.

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# 300

Over 300 international students have graduated from the International MSc programs.

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# 127

Our students come from 127 countries.

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# 3,000

Over 3,000 have participated in professional training courses at the International School of Agricultural Sciences.

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# 50%

At least 50 percent of International MSc students transfer to a thesis track.

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