

SCHOOL OF AGRICULTURAL SCIENCES

Nurture future Agriculture

Admissions 2022

About us

Karunya Institute of Technology and Sciences (KITS) initiated the Agriculture program under the School of Agricultural Sciences in 2017-18 emphasizing the critical role of Agriculture in the Indian economy and the urgent need for augmenting food production to feed the ever increasing population. Having “Food” as one among the thematic intervention areas, KITS has embarked upon offering B.Sc. (Hons.) Agriculture program to encourage young scientists in food production and thereby contribute to the nation-building process. COVID-19 has brought Agriculture to the centre stage with farm growth continuing to surge, accompanied by unprecedented emergence of new Agri-business start-ups in India. Globally, it is expected that Agriculture will drive economic growth in the years to come.

Vision

Reorienting agricultural education, research and extension for meeting human needs through sustainable and innovative technologies

Mission

- To attain academic and professional excellence in Agricultural education
- To adopt multidisciplinary research approach for food and nutritional security
- To serve farming community /stakeholders by promoting need-based innovative technologies

Focus of the Program

The B.Sc. (Hons.) program offered by the School of Agricultural Sciences has a perfect blend of recent technological advancements with the inclusion of Precision Farming Components, Geo-informatics and Nano technology in Agriculture, along with the modern crop production practices of commercial agriculture. Students will also be exposed to multidisciplinary interaction that would enable them to provide innovative and sustainable farming solutions.

Program highlights

The curriculum covers nearly 70 different courses, in compliance with the recommendations of Indian Council of Agricultural Research (ICAR- New Delhi). The faculty

team possesses multidisciplinary specialization viz., Crop Improvement, Crop Production, Crop Protection, Agricultural Extension, Animal Husbandry, and Agri-Informatics. New thrust areas like improved crop cultivars using tissue culture, climate resilient agriculture for crop production, protected cultivation, molecular taxonomy and entrepreneurship business models have been introduced in the curriculum. Excellent laboratory infrastructure, and field demonstration plots are available for enriching the technical expertise of the students. Above all, the curriculum immerses students thoroughly into the agricultural industrial practices through field programmes: Rural Agricultural Work Experience (RAWEx) and Experiential Learning Programme (ELP) during the final year of their study.

Research in Karunya

In Karunya, there is an environment for agricultural students to pursue advanced research in well-established, specialized laboratories under the expert guidance of experienced professors and to advance their goals in areas of Agronomy, Horticulture, Soil science, Entomology, Plant Pathology, Genetics & Plant Breeding and Social Sciences. Learning through research experimentation paves way for students to evolve as scientists and academicians, as evidenced by our students pursuing higher education in India and abroad.

Innovation, Start-ups and Entrepreneurship

To achieve self-sustainability and doubling of farm-income, innovative strategies are to be embraced through the agriculture value chain from farm to fork. At Karunya, there are ample opportunities for young innovators and farmers to become Agri-Entrepreneurs. The agricultural program nurtures young minds and triggers their passion to look for alternative solutions in an innovative way to bring in a sense of independence and transform the new generation to become job-providers rather than job-seekers.

Collaborations

Karunya has tied up with reputed Institutions in Israel, such as Technion of Haifa, Hebrew University of Jerusalem, Ben-Gurion University of Beer Sheva, the Blaustein Desert Research Institute in Israel, University of Saskatchewan in Canada, Murray State University Texas A&M University, Purdue University in USA, Indian Universities and Institutions, to enhance faculty knowledge and expertise.

Summer Internship

Two students successfully completed Summer Internship during May 2019 at Ben-Gurion University of the Negev, Israel. Every year, students are given the opportunity for undergoing internships in International Institutions.

Salient Features

- ICAR-based curriculum
- Instructional Farms and Research Laboratories
- Agro- Meteorological Observatory
- Polyhouse for Hi-Tech Agriculture
- Students are trained in Agricultural thematic areas, integrating theoretical and practical content, delivered by a team of highly qualified and specialized faculty members.
- Experiential Learning Modules (Seed Production and Technology, Soil, Plant and Water testing, Organic Production Technology, Floriculture and Landscaping, Nursery Management and Protected Cultivation, Production Technology for Bioagents and Biofertilizer, Mushroom Cultivation Technology, Bee Keeping, Agri-Business Management, Agricultural Information Support Services, Poultry Production Technology, Food Processing).

UG Program offered by the Department of Agriculture

- B.Sc. (Hons.) Agriculture

Eligibility:

- A pass in HSC (10 + 2) or equivalent with PCM / PCB / PCMB / Agriculture (P – Physics, C – Chemistry, M – Mathematics, B – Biology) with 50% of marks from a recognized Board.

(or)

- A pass in HSC (10 + 2) or equivalent under Vocational Stream and studied Biology and Agricultural Practices as Vocational Subjects including theory and practical with 50% of marks from a recognized Board

Career opportunities and positions open for Agricultural graduates

- TNPSC (Agriculture Officer)
- UPSC & Indian Forest Services (IAS, IPS, IRS etc)
- Tamil Nadu Forest Services (Forester & Ranger)
- Farm Manager & Technical Assistant (Silk, Spice, Tobacco, Coconut, Coffee, Tea, Rubber boards, National Seed Corporation)
- Plant Quarantine Services (Technical Assistant)
- FCI, IFFCO (Management Trainee)
- Food Safety and Standards Authority of India (Central Food Safety Officer)
- Subject matter experts in KVK's
- Sugar industry (cane officers)
- Food parks (Supply chain, Post-harvest Processing)
- Urban Pest Management Services
- Agriculture Research Service
- Digital Agriculture-App developer, DSS
- Environmental Engineers
- Agricultural Engineers
- Agro Consultancy Services
- Contract Farming
- Landscape Architect
- Food Analysts
- Sales Managers in Government owned market and export centres
- Sales, Marketing, R&D jobs in seed, pesticide, fertilizer, irrigation companies, cut flower industries, nurseries
- Relationship officers & credit managers in Private Banks
- Nationalized banks, Reserve Bank, State Bank of India, NABARD (Specialist Officer, Agricultural Extension Officer, Assistant Manager)
- Start-ups/ Entrepreneur: Plant Nursery, warehouses, Biocontrol unit, Mushroom and Honey bee unit, Silk worm rearing, Fertilizer and pesticide outlets, Vermicompost unit, Tissue culture lab, Landscaping etc.

Placement:

At KITS, students are groomed to excel in Agriculture domain knowledge and managerial skills directly applicable to the Agro-Industrial sector. Final year (VII and VIII semesters) of the graduate program is hands-on, enabling the students to work with farmers, Agro-Industries and other stakeholders. Besides, they are tasked to take up live projects to produce Agricultural inputs/ produce to familiarize themselves with the entire product cycle and its economies.

The Centre for Training and Placement (CTP), an in-house division of KITS, trains students on soft skills and makes them job-ready with experts and Industry leaders. Areas of training include, communication, team work, professional ethics, organizing abilities, problem-solving and change management.

Despite COVID-19, placement drive under CTP placed 105 of our students from our first batch of outgoing graduates in various companies across India during 2020-21. The highest salary offered for our students was Rs. 6 lakhs per annum. Prominent recruiters included, Healthplix

technologies, Byju's, Roots Irrigation Pvt. Ltd, EG Cold Storage, Dhan foundation, Bannari Amman Sugars, Amazon India, Kilofarms Pvt. Ltd.

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