B.Sc (Hons.) Agriculture Programme is **ICAR** Accredited for the Maximum Tenure of 5 years as per ICAR Notification (F.No.Edu 1/08/2022-EQR at 10/05/2023 W.E.from 10/10/2022).

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Introduction

Karunya Institute of Technology and Sciences has launched the School of Agricultural Sciences which offers programme in B.Sc (Hons.) Agriculture from the academic year 2017-18. Recognizing the importance of agriculture in the country, especially in the semi-arid zone and also the limitations of seats available to pursue the professional courses in agriculture in this region, Karunya Institute of Technology and Sciences has introduced these programmes.

The Institution has already linked up with the reputed institutions in Israel, such as Technion of Haifa, Hebrew University of Jerusalem, Ben-Gurion University of Beer-Sheva and the Agricultural Research Organization of Israel to attract faculty and ensure exchange programmes. A Model Agriculture Station is being established in the campus with the technical support of Dr. AvriZur, the former Agricultural Scientist

attached to the Israeli Embassy in India to help in academic, research, demonstration and extension programmed of the proposed School.

The Research Station intended to help in introducing precision agriculture in the region will make use of modem tools like Internet of Things (IoT), Data Knowhow, Digital Media, Remote Sensing and GIS in the farming sector. Precision farming will be practiced both in poly-houses and open field. 'Technology of Tomorrow' and 'Interdisciplinary research' are the keywords of this initiative. The school has research and education programmes in Agriculture.

School of Agricultural Sciences

The Agricultural Science programs are designed to develop skills and explore career areas in agriculture and allied fields. The instructional program includes topics in animal, plant, environmental, soil, food sciences, horticulture, landscaping and agricultural engineering. Students will acquire skills necessary to meet their individual career objectives, occupational skills for gainful employment and leadership abilities to work effectively in groups and as a team. Additionally, the programs provide for research and supervised work experience to enhance the needs and interests of each student.

The Department will significantly contribute to overall agricultural research by improving its research infrastructure with an eye to becoming one of the top agricultural scientific and technological institutions in India, further, the department is seeking to establish further international collaborations and large-scale cooperation in agricultural research in an effort to accelerate the pace of innovation and make significant contributions to eliminating poverty and hunger in the global scenario.

Our Vision

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

Our 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.

B.Sc.(Hons.) Agriculture (Sanctioned Intake of 180 Students)

Program Educational Objectives (PEOs)

Graduates of the Program

- PEO 1: Achieve excellence in education, research and extension of technical knowledge through professional practice to solve challenges in Agriculture .
- PEO 2: Demonstrate competency in trending Agricultural technologies involving precision farming, protected cultivation, genetic manipulation and artificial intelligence as technocrats in corporate sectors, academic research and entrepreneurial ventures .
- PEO 3: Establish sustainable Agricultural technologies for food and nutritional security and address issues of ethics, professionalism, environment and socio-economic cogency.

Program Specific Outcomes (PSOs)

- PSO 1: Utilize knowledge and skills gained on biological, physico-chemical and digital sciences to innovate technology for finding holistic solutions to complex problems of farming community.
- PSO 2: Acquire knowledge to analyze, design, plan, and promote sustainable Agricultural practices by judicious utilization of natural resources.
- PSO 3: Inculcate advanced study through continuous knowledge enrichment and skill empowerment for setting high standards of professionalism in serving private and public sectors.
- PSO 4: Demonstrate comprehended knowledge and apply appropriate innovative technology for Agri-entrepreneurships and start-ups .

Program Outcomes (POs)

- PO 1: **Domain Knowledge:** Apply fundamental knowledge in different disciplines of Agriculture in areas of crop improvement, production, protection, Agricultural extension, animal husbandry and Agri-informatics.

- PO 2: **Problem analysis:** Identify gaps by analyzing day to day problems and issues in farming, for enhancing Agricultural production.
- PO 3: **Formulate solution:** Design and develop solutions for complex, as well as, specific problems of farming, with focus on cultural, socio-economic and environmental issues.
- PO 4: **Conduct surveys and investigations:** Use research-based knowledge and methods to assess and interpret available Agricultural information for providing sustainable solutions.
- PO 5: **Usage of Modern Concepts/ Tools:** Develop, select and apply appropriate techniques, resources, and modern tools for predicting the outcomes of Agriculture.
- PO 6: **Societal role:** Ascertain reasoning and contextual knowledge to assess and promote nutritional and livelihood security and environmental safety .
- PO 7: **Environment and Sustainability:** Understand the impact of local and global environmental issues and implement corrective measures towards sustainable Agricultural production .
- PO 8: **Ethics:** Apply principles and adhere to responsibilities and norms of professional ethics.
- PO 9: **Team Work:** Perform effectively as an individual or a leader in diverse cross cultural and multidisciplinary teams.
- PO 10: **Communication efficiency:** Comprehend and write concise scientific documents, make effective presentations, and communicate efficiently to stakeholders.
- PO 11: **Project management and finance:** Competent to demonstrate scientific knowledge as entrepreneurs and financial manager.
- PO 12: **Continuous improvement and Life-long learning:** Commit to engage in independent and continuous learning to keep abreast of latest technological interventions and professional competence in Agriculture.