Programme outcomes, Programme specific outcomes and course outcomes
Ph.D. Horticulture (Vegetable Science)

Programme Outcome	**1.** After doing Ph.D. in Horticulture (Vegetable Science) the student becomes eligible to be appropriate for employment offered by Agricultural universities for distinct posts from the concerned field of their specialization as Assistant Professor, Scientist, quality control officer, farm manager, breeder, seed analyst etc. **2.** Indian Council of Agricultural Research and Department of Science and Technology (DST) also engage students in different posts according to their requirement.
Programme specific outcomes	**1.** Students having a combined knowledge of Vegetable Science with entrepreneurial skills enable them to get administrative or marketing positions with organizations involved in the processing and marketing of vegetables, they also get recruited in the companies as horticulturists, gardeners, supervisors, farm or estate managers, handling large scale production of certain varieties of vegetables in various private seed companies etc. **2.** Many fertilizer and pesticide companies engage students in their firms where they work as managers. **3.** At the International level, different agencies appoint horticultural consultants. **4.** And other different positions as per their requirement.
Course Ph.D Horticulture (Vegetable Science) Outcomes	
VSC-601(Advances in Vegetable Production)	❖ This course will keep the students up to date on the latest advancements and trends in vegetable crop production technologies. ❖ Students will be able to classify vegetables according to their climatic suitability by season and examine various cropping methods in a variety of settings. ❖ Utilize their expertise of vegetable growing to meet the needs of industry, as well as manage and recycle vegetable waste.
VSC-602(Advances in Breeding of Vegetable Crops)	❖ It contains current information on contemporary research trends in the field of vegetable crop breeding, with a focus on tropical, subtropical, and temperate vegetables grown in India. ❖ Students will be able to describe the ideas and procedures used in vegetable crop breeding after taking this course. ❖ Identify constructive ways in hybrid seed development by discussing breeding strategies and achievements in vegetable crops. ❖ Apply advanced breeding techniques to vegetable crops.
VSC-603 (Protected Cultivation of Vegetable Crops)	❖ It will provide students with the most up-to-date information on growing vegetable crops in protected environments, as well as establish the core concept of protected farming. ❖ Examine the various forms of protected structures. ❖ Manage the crops that are grown in enclosed structures. ❖ Describe how environmental conditions affect the growth of vegetable crops and to develop knowledge on how to cultivate vegetables in a protected environment and to plan an integrated disease and pest management programme in a protected structure.
VSC-604 (Biotechnology of Vegetable Crops)	❖ Advances in biotechnology for vegetable crop development are covered in this course which will enable the students to show the establishment of tissue grown plants after completing this course. ❖ Demonstrate how tissue culture can be used to grow vegetable crops.

	❖ Describe how biotechnology is used in vegetable crops. ❖ Develop horticultural agricultural biotechnology abilities and discuss the role of molecular markers and recombinant DNA technology.
VSC-605 (Seed Certification, Processing and Storage of Vegetable Crops)	❖ The students will be acquainted with importance of quality seed production, various methods of seed production in self and open pollinated vegetable crops their storage and certification.
VSC-606 (Abiotic Stress Management in Vegetable Crops)	❖ It will keep the students up to date on the latest research in the field of horticultural crop biotic and abiotic stress management. ❖ Students will be able to detect several types of biotic and abiotic stress in horticultural crops after completing this course. ❖ Illustrate crop factors or causes and impact of biotic and abiotic stress. ❖ Discuss different stress management and mitigation practices of plant and to develop strategies for improvement of Horticultural Crops against stresses.
VSC-691 (Doctoral Seminar-1)	❖ Course will develop skill on review work on the background of area of research through secondary information available. ❖ Through this course students will be able to define applications of given topics. ❖ Integrate the concept developed during study with situations given and observe the situations provided and develop the presentation. ❖ Demonstrate the finding of study carried out.
VSC-692 (Doctoral Seminar-2)	❖ Describe suitable review of literatures related to research parameters. ❖ Tabulate the available information for reflecting the outcomes.