Programme outcomes Programme specific outcommes and course outcomes

M.Sc. Ag. Horticulture (Fruit Science)

M.Sc. Ag. Horticulture (Fruit Science) 1st semester	
Courses	**Outcomes**
Programme Outcome	1. After doing post- graduation in M.Sc. Ag. Horticulture (Fruit Science) the student become eligible to be appropriate for employment offered by bank, finance sectors, insecticide and pesticide companies, fertilizers companies, sales and marketing. 2. The Nationalized Banks, Reserve Bank, State Bank NABARD etc. put forward an opportunity for post-graduates in Agriculture and Horticulture as Agriculture Officers, Agriculture Assistant Officers, Probationary Officers, Field Officers and Rural Development Officers. 3. Different agricultural universities also employ horticultural post- graduates for different posts from the concerned field of their specialization as JRF, (Junior Research Fellowship), SRF (Senior Research Fellowship) TA (Technical Assistant) and Lab Assistant. 4. Indian Council of Agricultural Research and Department of Science and Technology (DST) also engage students in various posts according to their requirement. 5. National Horticulture Board also engage students in various posts according to their requirement. 6. Create job opportunities for the unemployed youths through teaching, research, training, extension etc., especially for the development of socially and economically depressed segment of society.
Programme Specific outcomes	1. Students having a combined knowledge of Fruit Science with entrepreneurial skill permit them to get administrative or marketing position with organizations involved in the processing and marketing of fruits, they also get recruited in the companies as horticulturist, gardeners, supervisors, farm managers, handling large scale production of certain varieties of fruits in various private seed companies. 2. Many fertilizers and pesticide companies engage students in their firms where they work as managers.

	3. At the International level, different agencies appoint horticultural consultants. 4. Individuals who have completed the post-graduate degree in Horticulture (Fruit Science) can work as farm or estate managers, supervisors, technical assistant and project coordinators. 5. After gaining experience, they will get positions of specialists for handling of fruit plantation, nursery and other orchard management project. 6. After gaining experience, they will increase farmers' income through adopting hi-tech horticulture.
Tropical and Dryland Fruit Production (FSC 501)	CO 1: After completion of the degree programme, the students will be able to transfer knowledge of horticulture in the field of agriculture research especially in horticulture including fruits plants and their management. CO 2: The students will be acquinted with the production technology of tropical and dryland fruit production. CO 3: To make them aware of the interculture operation of fruit crops and also to study the economics these tropical and dryland fruit crops along with the knowledge of diseases, pests and physiological disorders, mineral deficiency problems maturity indices for harvesting the crops and economics of the tropical and dryland fruit crops.
Subtropical and Temperate Fruit Production (FSC 502)	CO 1: The students will know about the package and practices of subtropical and temperate fruit crops along with the knowledge of diseases, pests and physiological disorders, mineral deficiency problems maturity indices for harvesting the crops and economics of the subtropical and temperate fruit crops CO 2: Development innovative agro- techniques to enhance the production and productivity of subtropical and temperate fruit crops. CO 3: After gaining experience, they will increase farmers' income through adopting hi-tech horticulture
Biodiversity and Conservation Of Fruit Crops (FSC 503)	CO 1: The students will know about biodiversity, conservation issues and exploitation of biological diversity through crop management. CO:2 . The students will be acquinted understanding the biodiversity, centers of origin of cultivated fruit crops. CO 3: The students will be acquinted with the quantify economic importance of plants in managed ecosystems and the impact of horticultural crops in food systems.
Canopy Management in Fruit Crops (FSC 504)	CO 1: To make them aware about impart knowlge about the principles and prctices in canopy management in fruit crops.

	CO 2: This course will provide knowledge about basic various equipment & tools used in canopy management of fruit crops. CO3 : To make them aware about canopy development and management in relation to growth , flowering, fruiting and fruit quality in temperate fruit and tropical or subtropical fruit crops.
Propagation and Nursery Management for Fruit Crops (FSC 505)	CO 1: This course will provide knowledge about basic familiarization with principles and practices of propagation and nursery management for fruit crops. CO 2: To make them aware about interculture operation for setting up of model nurseries in rural areas for availability of quality planting material. CO 3 : The students will know about life cycles in plants, cellular basis for propagation, sexual propagation, apomixis, polyembrony and chimeras.
Breeding of Fruit Crops (FSC 506)	CO 1: The students will be well- versed with different methods adopted for improvement of fruit crops, as well as the latest technology engaged in crop improvement for the benefit of humanity.
Biotecnoloy of Horticultural Crops (FSC 509)	CO 1: The students will know about the principles, theoretical aspects and developing skills in biotechnology of horticultural crops. CO 2: To make them aware about callus culture, cell division, differentiation, morphogenesis, organogenesis, embryogenesis and physiology of hardening
Job Prospects	On completion of degree there is an opportunity for post graduates in Fruit Science as Agriculture Officers, Agriculture Assistant Officers, Probationary Officers, Field Officers and Rural Development Officers. Students also recruited as JRF, (Junior Research Fellowship), SRF (Senior Research Fellowship) TA (Technical Assistant), Lab Assistant etc. bank, finance sectors, insecticide and pesticide companies, fertilizers companies, sales and marketing.
Research	1. M.Sc. Fruit Science student can pursure higher education Ph. D. 2. Students after completion of degree could be engaged in developing new and improved types of fruits. 3. Students could get in touch with the horticultural scientists who also devote considered time improve the aesthetics of ornamental and the quality of products.