



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Agriculture
M.Sc. (Hort.) in Fruit Science, III semester

Syllabus

FSC513: Minor Fruit Production (2+1)

Course code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	CREDITS
		End Sem University Exam	Mid Term Exam	Teachers Assessment*	End Sem University Exam	Teacher's Assessment*			
FSC513	Minor Fruit Production	50	30	00	15	05	2	1	3

Legends: L - Lecture; P – Practical

*Teacher Assessment shall be based on following components: Quiz / Assignment / Project / Participation in Class etc.

Objective

To impart basic knowledge underexploited minor fruit crops.

Theory

Unit I

Occurrence, Adoption and General Account: Importance – occurrence and distribution, climate adaptation in fragile ecosystem and wastelands.

Unit II

Cultural Practices: Traditional cultural practices and recent development in agro-techniques.

Unit III

Botany-floral biology, growth patterns, mode of pollination, fruit set, ripening, fruit quality.

Unit IV

Post-Harvest Management: Post harvest management and marketing. Medicinal and antioxidant values of Minor fruit crops and their uses for edible purposes and in processing industry.

Unit V

Propagation Technique.

Crops

Bael, Chironji, Fig, Passion Fruit, Jamun, Phalsa, Karonda, Woodapple, Cactus Pear, Khejri, Kair, Pilu, Lasoda, Loquat, Tamarind, Dragon Fruit, Monkey Jack, Mahua, Khirni, Amra, Kokum, Cape Gooseberry, Kaphal, Persimmon, Pistachio, Seabuckthorn, Hazel Nut and Other Minor Fruits of regional Importance.

Practical

- Visits to institutes located in the hot and cold arid regions of the country.
- Identification of minor fruits plants/ cultivars.
- Collection of leaves and preparation of herbarium.
- Allelopathic studies.
- Generating know-how on reproductive biology of minor fruits.
- Fruit quality attributes and biochemical analysis.
- Project formulation for establishing commercial orchards in fragile ecosystems.

Suggested Reading

Ghosh SN, Singh A and Thakur A. 2017. Underutilized Fruit Crops: Importance and Cultivation. Jaya Publication House, New Delhi.

Krishna H and Sharma RR, 2017. Fruit Production: Minor Fruits. Daya Publishing House, New Delhi.

Mazumdar BC. 2014. Minor Fruit Crops of India: Tropical and Subtropical. Daya Publication House, New Delhi.

Nath V, Kumar D, Pandey V and Pandey D. 2008. Fruits for the Future. Satish Serial Publishing House, New Delhi.

Pareek OP, Sharma S, and Arora RK. 2007. Underutilised Edible Fruits and Nuts, IPGRI, Rome.

Peter KV. 2010. Underutilized and Underexploited Horticultural Crops. NIPA, New Delhi.

Rana JC and Verma VD. 2011. Genetic Resources of Temperate Minor Fruit (Indigenous and Exotic). NBPGR, New Delhi.

Saroj PL and Awasthi OP. 2005. Advances in Arid Horticulture, Vol. II: Production Technology of Arid and Semiarid Fruits. IBDC, Lucknow.

Saroj PL, Dhandar DG and Vashishta BB. 2004. Advances in Arid Horticulture, Vol.-1 Present Status. IBDC, Lucknow. Singh et al. 2011. Jamun. ICAR, New Delhi.