

Ch. Ranbir Singh University, Jind

Undergraduate Programs

Course: SEC-2

Session 2024-25			
Part A – Introduction			
Subject	Botany		
Semester	2 nd		
Name of the course	BOTANY FOR HUMAN WELFARE		
Course Code	B24- BOT-202		
Course Type: (CC/MCC/MDC/CC-M/ DSEC /VOC/DSE/PC/AEC/VAC)	SEC-2		
Level of the course (As per Annexure-I)			
Pre-requisite for the course (if any)	NA		
Course Learning Outcomes(CLO):	After completing this course, the learner will be able to: <ol style="list-style-type: none"> 1. Understand the origin, morphology, cultivation of major crops and utility of some common spices, condiments, medicinal plants and horticulture crops. 2. Know origin of agriculture and centres of origin of various crops 3. Identify the plant sources of foods, modern and traditional medicines, spices, oil, fibres, dyes, gum and timbers. 4. Learn about plant sources of psychoactive compounds, ornamental plants and identification of common food adulterants 		
Credits	Theory	Practical	Total
	0	3	3
Contact Hours	0	6	6
Practical			
Max Marks: 75 Internal Assessment Marks:25 End Term Exam Marks: 50	Time : 3 Hours		
Part B- Contents of the Course			
Units	Topics		Contact Hours
	Practicum 1. Study of Major and Minor cereals, pseudocereals 2. Morphology of plant part used and uses of Medicinal plants 3. Identification and medicinal uses of local wild plants 4. Traditional knowledge and preparations/ formulations of common medicinal plants 5. Morphology of plant part used and uses of Spices and condiment yielding plants		90

	<p>5. General account of common beverages 6. General account of fruits and vegetables 7. Common timber yielding plants and minor forest products 8. General account of Fibers yielding plants 9. General account of dyes yielding plants 10. General account of Rubber and tannin yielding plants 12. General account of gums and resins yielding plants 13. General account of Insecticides from plants, Pyrethrum and Rotenone 14. General account of common ornamental plants</p>	
Suggested Evaluation Methods		
<p>Internal Assessment:</p> <ul style="list-style-type: none"> ➤ Practicum (25 Marks) • Class Participation: 10 • Seminar/Demonstration/Viva-voce/Lab records etc.: 15 Marks • Mid-Term Exam: Nil 	<p>End Term Examinations 50 Marks</p>	
Part C-Learning Resources		
<p>Recommended Books/e-resources/LMS:</p> <ul style="list-style-type: none"> • Singh, V., Pande, P.C., Jain, D.K. 2018. Economic Botany, Rastogi Publications. • Kocchar, S.L. 2016. Economic Botany: A Comprehensive Study, 5Ed, Cambridge India. • Wickens, G.E. 2001. Economic Botany: Principles and Practices, Springer. • Singh, V., Pande, P.C., Jain, D.K. 2018. Economic Botany, Rastogi Publications • Daubenmire, R.F. Plants & Environment (2nd Edn.), John Wiley & Sons., New York 22 • S. Sundar Rajan-2007. College Botany Vol-V, Part 1: Taxonomy and Economic Botany Himalaya Publishing House. • Susil Kumar Mukharjee-2004. College Botany Vol-III. New Central Book agency, London 		