



University of Kerala

Discipline	BOTANY				
Course Code	UK3DSEBOT201				
Course Title	ETHNOBOTANY AND IPR				
Type of Course	DSE				
Semester	III				
Academic Level	200 - 299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	04	04 Hours	-		04 Hours
Pre-requisites	No Pre-requisites				
Course Summary	Appreciate the need to conserve the floristic and cultural diversity of the region. Rescue and document Ethnobotanicals for sustainable use of plant resources. Understand the need for development of new drugs for the safe and more rational use of herbal preparations. Recognition of intellectual property rights and its benefit to people and society who share their knowledge and wisdom.				

Detailed Syllabus:

Module	Unit	Content	Hrs
I	Ethnobotany		10
	1	Ethnobotany: Introduction, concept, scope, and objectives. Ethnic groups in Kerala - Kurichiya, Cholanaikan, Kani, Ulladan.	
	2	Traditional and indigenous knowledge and its importance. Traditional systems of medicine in India- Ayurveda, Siddha, Unani & Homeopathy. Role of ethnomedicine and its scope in modern times.	
	3	Role of Ethnobotany in conservation and sustainable development. Plants used by ethnic groups as food, medicines beverages, fodder, fiber, resins, oils, and fragrances (two plants from each category).	
	4	NTFP (Non-Timber Forest Produces), animal products, minerals, and artifacts, used by Tribal and Folk Communities of Kerala.	
II	Methods and Techniques used in Ethnobotany		10
	5	Ethnobotanical data collection- Audio, Video recording, Photographs, Interview-Methods, Questionnaire, and Datasheet, Consent forms, Field book and Herbarium preparation, Preparation of Data Sheet and Data Base (Excel/MS Access); Peoples Biodiversity Register (PBR).	
	6	Centres of Ethnobotanical studies in India, AICRP E-All India Coordinated Research Project on Ethnobiology,	

	7	FRLHT- Foundation for the Revitalisation of Local Health Traditions. Contributions of AICRPE and FRLHT to ethnobiology of India.	
III	Introduction to Intellectual Property Rights		10
	8	Origin Development and Objectives and its different forms. Farmer's Rights, Animal and Plant breeders' rights.	
	9	Intellectual Property Rights – Types- Patents, Copyright, Trademark, Industrial Design, Geographical Indications, Sui generis rights, Protection of Plant Varieties and Farmer's Rights, Indigenous Traditional Knowledge. Patent system in India.	
IV	Procedures of Patenting		15
	10	Basic requirements of patentability, Discovery and Invention, patentable subject matters, novelty, utility, and the Public Domain; Product and process.	
	11	Patent Laws in Indian and International Perspective. Indian Patent Act 1970 (Patent Amendment Acts-1999, 2002 and 2005).	
	12	Patent filing procedures: Time frame and cost; Status of the patent applications filed; Precautions while patenting–disclosure/non-disclosure	
	13	Financial assistance for patenting-introduction to existing schemes, Patent licensing, and agreement, Patent infringement-meaning, scope, litigation, Patent Case study: Basmati Case, Neem Controversy, Turmeric Case	
V	International Agreements and Treaties Related to IPR		15
	14	General Agreement on Trade and Tariff (GATT), Trade-Related Aspects of Intellectual Property Rights (TRIPS)	
	15	WTO agreement- Indian Position on WTO Regime, Establishment of WIPO – Mission and Activities, Budapest treaty	

Suggested Reading

1. Cunningham, A. B. 2001. Applied Ethnobotany. Earthscan Publishers Ltd. London & Sterling,
2. Jain, S. K. 1995. A manual of Ethnobotany. Scientific Publishers, Jodhpur.
3. Acharya. N.K.2001.Text Book on Intellectual Property Rights: (Copyright, Trademark, Patent Design, Geographical Indications, Protection of New Plant Varieties & Farmers Rights and Protection of Biodiversity
4. Faulks, P.J. (1958). An introduction to Ethnobotany, Moredale Publ. London.
5. Jain, S. K. 1981. Glimpses of Indian Ethnobotany. Oxford & IBH publishing Co. Pvt. Ltd., New Delhi

References

1. Elizabeth Verkey.2015. Intellectual Property law and Practice (Eastern Book Company)
2. Taraporevala V J2013. Law of Intellectual Property (2nd Edition) Thomson Reuters,
3. Irini A. Stamatoudi & Paul L.C.. Torremans.2000. Copyright in the New Digital

Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Students will identify ethnobotanically significant plants during ethnobotanical field surveys.	R	PSO-1
CO-2	Students recognize regionally and locally important plants and practice field collection and identification methods.	R, Ap	PSO-8
CO-3	Students will explore the general principles of ethnobotany, including its history and importance in traditional and modern culture.	U	PSO-2
CO-4	Students will appreciate the need to conserve floristic and cultural diversity of the region.	An	PSO-5
CO-5	Students will understand and recognise the concept of IPR and different subject matter of IPR like trademark, copyright, trade secret, Patent and geographical indication. and its benefit to people and society who share their knowledge and wisdom.	R, U	PSO-4

R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create

Name of the Course: Ethnobotany & IPR

Credits: 4:0:0 (Lecture:Tutorial:Practical:)

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
CO-1	1	1	R,U	F, C	L	
CO-2	2	8	R, Ap	C	L	
CO-3	3	2	U	F, C, M	L	
CO-4	4	5	An	F, C	L	
CO-5	5	4	R, U	F, C	L	

F-Factual, C- Conceptual, P-Procedural, M-Metacognitive

Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam

- Programming Assignments
- Final Exam

Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓	✓		✓
CO 2	✓	✓		✓
CO 3	✓			✓
CO 4	✓			✓
CO 5	✓			✓