



MCC Department of Botany

Paper 1b ETHNOBOTANY

M. Sc. va. (Candidates admitted from academic year 2008-2009)

Elective Theory

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UNIT I

Ethnobotany: concepts and definitions. Subdisciplines of ethnobotany. Interdisciplinary approaches. Knowledge of following sociological and anthropological terms: culture, values and norms, institutions, culture diffusion and ethnocentrism. History of Ethnobotany: A brief history of ethnobotanical studies in the world and in India.

UNIT II

Distribution of tribes in India. Basic knowledge of following tribes of Tamil Nadu: Irulas, Kanis, Paliyars and Malayalis.

UNIT III

Sources of ethnobotanical data: Primary - archeological sources and inventories, Secondary - travelogues, folklore and literary sources, herbaria, medicinal texts and official records. Methods in ethnobotanical research. Prior Informed Consent, PRA techniques, interviews and questionnaire methods, choice of resource persons.

UNIT IV

Ethnobotanical knowledge and communities: Folk Taxonomy Plants associated with culture and socio-religious activities. Non timber Forest Produce (NTFP) and livelihood Sustainable harvest & value addition

UNIT V

Bioprospecting and commercial use of traditional knowledge. Developing research partnerships: Codes of ethics and research guidelines, equitable research relationships

UNIT VI

Traditional knowledge (TK) in relation to Intellectual Property Rights and Biopiracy. Equitable Benefit sharing models of the world. Problems in equitable benefit sharing.

Suggested Reading

- Apte, T. 2006. Intellectual Property Rights, Biodiversity and Traditional Knowledge. Kalpavriksh, Grain & IIED, Pune / New Delhi.
- BALEE W. L. 2003. Footprints of the Forests. Bishen Singh Mahendar Pal Singh, Dehra Dun, India.
- COTTON, C. M. 1997. Ethnobotany - Principles and Applications. John Wiley and Sons Limited. New York, USA
- CSIR. 1940 - 1976. Wealth of India. A Dictionary of Raw Materials and Industrial Products - Raw Materials. Vol.1-11. CSIR Publication & Information Directorate. New Delhi.
- CUNNINGHAM, A.B. 1993. Ethics, Ethnobiological Research, and Biodiversity. WWF. International Publication. Switzerland.
- DAVID, N AND C. KRAMER. 2001. Ethnoarchaeology in Action. Cambridge University Press, New York.
- Duthfield, G. 2004. Intellectual Property, Biogenetic Resources and Traditional Knowledge. Earthscan, London, UK.
- JAIN, S.K. 1989. Methods and Approaches in Ethnobotany. Society of Ethnobotanists. Lucknow.
- JAIN, S.K. 1991. Contributions to Indian Ethnobotany. Scientific Publishers. Jodhpur.

- JAIN, S.K. 1991. Dictionary of Indian folk medicine and Ethnobotany. Deep Publishers. New Delhi.
- JAIN, S.K. AND V. MUDGAL. 1999. A Handbook of Ethnobotany. Bishen Singh Mahendra Pal Singh, Dehra dun.
- KATE, K. T., S. A. LAIRD. 2000. Commercial Use of Biodiversity. Earthscan, London, UK
- LAIRD, S.A. 2002. Biodiversity and Traditional knowledge Equitable partnerships in Practice. Earthscan Publications Ltd., London.
- LEWIS, W.H., AND M.P.F.ELVIN LEWIS. 1976. Medical Botany. Plants Affecting Man's Health. A Wiley Interscience Publication. John Wiley and Sons. New York.
- MABBERLEY, D.J. 1993. The Plant - Book. Cambridge University Press. Cambridge.
- MARTIN, G. 1994. Ethnobiology. Chapman & Hall. London.
- MINISTRY OF ENVIRONMENT AND FORESTS. 1994. Ethnobiology in India. A Status Report. All India Coordinated Research Project on Ethnobiology. Ministry of Environment and Forests. New Delhi.
- PEI SHENGII, SU YONG-GE, LONG CHUN-LIN, M. KEN AND D.A. POSEY. 1996. The Challenges of Ethnobiology in the 21st Century. Kunming Institute of Botany. China.
- RAMAKRISHNAN, P.S., R. BOOJH, K. G. SAXENA et al. 2005. One Sun Two World an Ecological Journey. Oxford & IBH. New Delhi, India.
- RASTOGI, R.P., AND B.N. MEHROTRA. 1993. Compendium of Indian Medicinal Plants. Vol.I & Vol. II. CSIR. Lucknow. Publications and Information Directorate. New Delhi.
- SCHULTES, R.E., AND S.V. REIS.(Eds.). 1995. Ethnobotany. Evolution of a discipline. Chapman & Hall. London.
- SIMPSON,B.B., AND M.C. OGORZALY. 1986. Economic Botany. Plants in Our World. McGraw Hill Company. New York.

- SOFOWORA, A. 1982. Medicinal Pplant and Traditional Medicine in Africa. John Wiley and Sons Limited. New York, USA
- SINGH, K.S. 1998. India's Communities. Oxford University Press, Delhi. Vols. I -VI.
- SUBRAMANIAM, S.V., AND V.R. MADHAVAN,(Eds.). 1983. Heritage of the Tamil Siddha Medicine. International Institute of Tamil Studies. Madras.
- SUDARSHAN, S.R., A.N.Y. REDDY, B. GOWDA. 1993. Oshadhi Koshha (Encyclopaedia of India Medicinal Plants). Vol.I. Kalpatharu Research Academy. Bangalore.
- UNDP. 1994. Conserving Indigenous Knowledge. Integrating Two Systems of Innovation. Rural Advancement Foundation. Commissioned by UNDP.
- WONG, J.L.G., K. THORNBUR AND N. BAKER. 2001. Non-wood forest products. Resource assessment of non-wood forest products. Experience and biometric principles. Food and Agriculture Organization, (FAO), Rome.

Following Journals to be referred:

- Ancient Science of Life.
- Journal of Ethnobotany.
- Phytotherapia.
- Economic Botany.
- Conservation Biology.
- Society and Conservation.
- Journal of Taxonomic and Economic Botany.
- Journal of Traditional Medicine.
- Journal of Intellectual Property Rights.