St. Aloysius' College Jabalpur, M.P. (Autonomous)
Reaccredited A++ by NAAC with CGPA 3.58/4.00, College with Potential for Excellence (CPE)
DST-FIST supported and DBT Star College Scheme
Department of Botany and Microbiology
Session 2025-26

Content of the Course
Theory

Total No. of Lectures: 30 Hrs.

Total No. of Lectures (in hours per week)

Maximum Marks:100

Unit	Topics	No. of Lectures 30
1	General aspects of Medicinal plants and Bharteey Gyan Parampara 1.1 Definition, History in Indian context, present and future needs (prospects). 1.2 Introduction of plant parts (roots, stem, leaves, fruit, seeds and their modifications). Panchang (5 parts of plants) usage in ayurveda 1.3 Indian traditional and modern practices of cultivation and harvesting 1.3 Processing and storage practices and Marketing of medicinal products. 1.4 Precautions and ethical use of herbs in Indian tradition /Sustainable use of herbal medicinal plants Activities Discussion on "Modern vs Traditional Medicine"/ market survey of medicinal plants in weekly haats and local shops Herbal products making workshop	10
2	Important Indian Medicinal Plants (Part-01) Plant parts used as Powder (Churna): Identification and utilization of Amla (Embellica officinalis). Bahera (Terminalia bellerica), Harad (Terminalia chebula), Turmeric (Curcuma longa), Cinnamon (Cinnamomum verum), Sarpgandha (Rauvolia serpentina), Black pepper (Piper nigram), Ashwagandha (Withania sominifera), 1.2 Plant parts used as juice/decoction(Swarasa/ Kwatha): Identification and utilization of Amla (Embellica officinalis), Ginger (Zingiber officinale), Basil (Oscimum sanctum), Arjun (Terminalia arjuna), Gwarpatha (Aloe vera), Giloy (Tinospora cordifolia), Bael (Aegle marmelos) Activity: Preparation of posters and leaflets on benefits of Indian medicinal plants/ conduct an awareness program in the institute /herbal first aid box preparation with herbal alternatives (e.g. turmeric for wounds, tulsi syrup for cold, Aloe Vera gel for burns)/ College level herbal trade fair/ exhibition	10
3	Important Indian Medicinal Plants (Part -02) 1.1 Plant parts used as lotion/ointment (Lepa): Identification and utilization of Gwarpatha (Aloe vera), Fenugreek (Trigonella foenum-graecum), Pot marigold (Calendula officinalis). Neem (Azadirachta indica). 1.2 Plant parts used as oil (Tail): Clove (Syzygium- aromaticum), Neem (Azadirachta indica), Coconut (Coccus nucifera), Nilgiri (Eucalyptus sp.). 1.3 Plant parts used as surgical fibre, sutures and dressings: Identification and utilization of Cotton (Gossypium sp.), Jute (Corchorus capsularis), Banana (Musa sp.) 1.4 Plant parts used as poultice(Upanaha Sweda): Identification and utilization of Turmeric (Curcuma longa), Aak (Calotropis sp.). Activities-Study about herbal medicinal Entrepreneurs Short film or	10

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	documentary- for example "medicinal plants in Indian home" /"Herbal home remedies", "careers in medicinal plant industry", "herbal medicine vs modern medicine a comparative study"/ Medicinal plant quiz competition. Discussion on ancient surgical practices by Sushrut using herbal sutures and disinfectants/Study of medicinal plants in Sanskrit language

Keywords/Tags: Medicinal plants, Plant based medicines in Bharteey Gyan Parampara

PART C- Learning Resources

Text Books, Reference Books, Other resources

1. **Suggested Readings:**

1. Panda H., Hand Book on Ayurvedic Medicines, National Institute of Industrial Research, Delhi 2. CSIR- Cultivation and Utilization of Medicinal Plants 3. Bramhvarchas, Ayurved ka Pran: Vanoshdhi Vigyan, Vedmata Gayatri Trust, Shantikunj Haridwar, 2004, 4. Chaudhry R.D., Herbal Drug Industry, Eastern Publication 5. Atal and Kapur, Cultivation and utilization of Medicinal Plants, RRL JammuTawi, 1982 6. Raphel Ikan, Natural Products: A Lab Guide, Academic Press, 1991,2nd edition 7. Dutt, Ashwin, An Introduction to Medicinal Plants, Adhyayan Publishers and Distributers, 2009, 1sl edition

Web Resources** * https://www.ayush.gov.in * https://www.nmpb.nic.in https://cimap.res.in YouTube: "AYUSH Ministry", "Krishi Jagran", "Bharatiya Gyan Parampara Series"

Suggested equivalent online course:- SWAYAM, NPTEL courses and MOOC

Part D- Assessment and Evaluation

Suggested Continuous Evaluation Methods:
MaximumMarks:100

External Assessment: University Exam Section Time: 02.00 Hours	Section(A): Questions Section(B): Short Questions Section (C): Long Questions	100
30+70=100		