Dr. A.P.J. ABDUL KALAM UNIVERSITY, INDORE

Course: B.Sc **Semester: I** **Session: 2022-23**
Subject: Botany (Herbal Cosmetics) **Subject Code: ELBY103T**

2	Course Title	Herbal Cosmetics (paper 2/3)
3	Course Type (Core Course/Elective/Generic Elective/Vocational/.....)	Generic elective
4	Pre-requisite (if any)	This course can be opted as an elective by the students of all faculty / Open for all
5	Course Learning outcomes (CLO)	• Students will learn about raw materials used in herbal cosmetics including the skin and hair care, herbal products preparation and their evaluation. • Students can seek the opportunity of setting up their own business of herbal cosmetics after this course.
6	Credit Value	04 Credits

Min. Passing Marks:33

Part B- Content of the Course

Total No. of Lectures- 60 hours Tutorials-00- Practical-00 (02 hours per week): L-T-P:

Unit	Topics	No. of Lectures
I	1.1 Cosmetics- Classification and categories 1.2 Brief history of herbal cosmetics 1.3 Difference between herbal and synthetic cosmetic products, benefits of herbal cosmetic products, 1.4 Challenges in formulating herbal cosmetics.	15
II	1.1 Raw materials, Machinery and Equipments used in preparation of herbal cosmetics 1.2 Processes used in the manufacture of herbal cosmetics 1.3 Plants used in skin care products like scrub, 'ubtan', packs, moisturizer etc 1.4 Plants used in hair care products like oil, shampoo, conditioner hair tonic etc	15
III	1.1- Preparation of - Scrub, face packs, vanishing cream, face wash, soap, moisturizer, talcum powder, sunscreen 1.2 Preparation of- shampoo, hair oil hair conditioners, hair dye	15

Part C-Learning Resources

Text Books, Reference Books, Other resources

Suggested Readings:

1.Classification of cosmetic raw materials and adjuncts IS3958 of Indian Standard

2. Smith R.V., Stewart J.T. Text book of Bio pharmaceutical analysis, Lia and Febiger, Philadelphia (1982).

3. Behl P.N,Srivastava G. Herbs useful in dermatological therapy, CBS (2002).

4. Karnik C.R. Pharmacopoeia standards of herbs, Sri Satguru Publications Delhi (1994) .

5. Bore P. Cosmetics analysis: Selective methods with techniques, Marcel Dekker (1985).

6. Sharma P.P. Cosmetics -Formulation, Manufacturing and Quality control, Vandana Publications (2014).

7. Panda H. Herbal cosmetics handbook, Asia Pacific Business press (2015).

8. Chattopadhyay P.k. Herbal cosmetics and ayurvedic medicines, National Institute of Industrial research (2008).

9. Panda H. The complete technology book on herbal perfumes and cosmetics, NIIR project consultancy services (2012).

10. Kirtikar K.R. and Basu B.D. 8 volumes Indian medicinal plants, Bio-Green Books (2012).

11. Drugs and cosmetics acts and rules Govt of India Publications.

12. Guenther Ernest Vol I The Essential Oils, Ingram short title (2007).

13. Indian Standard Institution Booklets.

14. Nadkarni K.M. Indian Materia Medica, Popular Prakashan (1994).

15. Wealth of India C.S.I.R.

16.Srivastava S.B. ,Perfume Flavour and Essential Oil Industries, Small Industry Research Institute.

17. Das Kuntal , Herbal Plants and their Application in Cosmaceuticals,, CBS Publication (2014)

18. Krishnamurthy K.H., Ayurvedic Technical Studies and Herbal Cosmetics of Ancient India, B.R. Publishing Corporation (2001)

19. Chopra R.N.,Nayar S.L., Chopra L.C., Glossary of Indian Medicinal Plants, , National Institute of Science Communication and Information Resources (1956)

20. Saxena Rajan, Marketing Management, McGraw hill Education (2009)

21.Saraf Swarnlata, Saraf Shailendra, Cosmetics a Practical Manual,(2015), Bsp Books Pvt Ltd

22. EIRI Board, .Herbal Cosmetics and Beauty Products with formulations, Engineers India Research Institute, (2015)

23. NIIR Board, Handbook on herbal products National Institute of industrial Research (2002)