INSTITUTE	**FACULTY OF PHARMACY**
PROGRAM	**MASTER OF PHARMACY (PHARMACEUTICS)**
SEMESTER	**2**
COURSE TITLE	**COSMETICS AND COSMECEUTICALS**
COURSE CODE	**13MC0204**
COURSE CREDITS	**4**

Objective:

1 This course is designed to impart knowledge and skills necessary for the fundamental need for cosmetic and cosmeceutical products.

Course Outcomes: After completion of this course, student will be able to:

1 Key building blocks ingredients used in cosmetics and cosmeceuticals.

2 Current technologies in the market and basic science to develop cosmetics and cosmeceuticals

3 Scientific knowledge to develop cosmetics and cosmeceuticals with desired Safety, stability, and efficacy.

Pre-requisite of course: Nil

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
4	0	0	75	15	10	0	0

Contents : Unit	Topics	Contact Hours
1	**Unit-1** Cosmetics – Regulatory: Definition of cosmetic products as per Indian regulation. Indian regulatory requirements for labeling of cosmetics Regulatory provisions relating to the import of cosmetics., Misbranded and spurious cosmetics. Regulatory provisions relating to the manufacturing of cosmetics – Conditions for obtaining a license, prohibition of manufacture and sale of certain cosmetics, loan license, offenses, and penalties.	12
2	**Unit-2** Cosmetics – Regulatory: Definition of cosmetic products as per Indian regulation. Indian regulatory requirements for labeling of cosmetics Regulatory provisions relating to the import of cosmetics., Misbranded and spurious cosmetics. Regulatory provisions relating to the manufacturing of cosmetics – Conditions for obtaining a license, prohibition of manufacture and sale of certain cosmetics, loan license, offenses, and penalties.	12

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Contents : Unit	Topics	Contact Hours
3	**Unit-3** Formulation Building blocks: Building blocks for different product formulations of cosmetics/cosmeceuticals. Surfactants – Classification and application. Emollients, rheological additives: classification and application. Antimicrobials are used as preservatives, and their merits, and demerits. Factors affecting microbial preservative efficacy. Building blocks for the formulation of moisturizing cream, vanishing cream, cold cream, shampoo, and toothpaste. Soaps and syndetbars. Perfumes; Classification of perfumes. Perfume ingredients are listed as allergens in EU regulations. Controversial ingredients: Parabens, formaldehyde liberators, dioxane.	12
4	**Unit-4** Design of cosmeceutical products: Sun protection, sunscreens classification, and regulatory aspects. Addressing dry skin, acne, sun protection, pigmentation, prickly heat, wrinkles, body odor, dandruff, dental cavities, bleeding gums, mouth odor, and sensitive teeth through cosmeceutical formulations.	12
5	**Unit-5** Herbal Cosmetics: Herbal ingredients used in Hair care, skin care, and oral care. Review of guidelines for herbal cosmetics by private bodies like the cosmos with respect to preservatives, emollients, foaming agents, emulsifiers, and rheology modifiers. Challenges in formulating herbal cosmetics.	12
Total Hours		**60**

Textbook :

1 Cosmeticology, Harry's, Chemical Publishing company, 2009

2 Poucher's Perfumes, Cosmetics and Soaps, H. Butler, Springer, 2000

3 Handbook of cosmetic science and Technology , A.O.Barel, M.Paye, and H.I. Maibach, CRC Press, 2009

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking / Creative**
20.00	25.00	25.00	15.00	15.00	10.00

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Instructional Method:

1. The course delivery method will depend upon the requirement of content and the need of students. The teacher in addition to the conventional teaching method by the blackboard may also use any tools such as demonstration, role play, quiz, brainstorming, MOOCs etc.
2. The internal evaluation will be done based on continuous evaluation of students in the laboratory and classroom.
3. Students will use supplementary resources such as online videos, NPTEL videos, MOOCs/ e-courses, virtual laboratories.