



## Course Outline

**Course Code:** PHR 408

**Course Title:** Cosmetology

**Assigned Faculty and their class schedule:**

Assigned Faculty	Email Address	Day	Time
Professor Dr. Abu Sara ShamsurRouf (ASSR)	rouf321@yahoo.com	Tuesday	10:50-11:40 a.m.
Md. Samiul Islam (SMI)	sami.du.phr@gmail.com	Sunday	08:00-08:50 a.m.
Sabrina Rahman Archie (SRA)	archie.2711@gmail.com		

### Course Aims:

To make the students familiar with the theoretical and practical knowledge of cosmetics science and technology and prospect knowledge of cosmetics to prove wisdom of pharmacists.

### Outcomes:

- Application of different synthetic, semisynthetic and natural chemicals for healthy skin
- Identification of different skin diseases and treatment options and pharmaceutical preparations for their ailment
- Fabrication of skin and hair care preparations
- Identification of the appropriate quality control methods for different cosmetic preparations
- Safety issues to be considered for pharmaceutical and cosmetic preparations
- Evaluation of the usefulness of cosmetic products containing therapeutic agents
- Botanicals used in cosmetic preparations for skin care.

### Format and Procedures:

- Lectures will be delivered on all the topics of the course with comprehensive explanation of all the contents of the topics using PowerPoint presentation as well as by writing on the white board. Relevant videos will be showed which will aid to the complete understanding of any topic.
- At the end of each class there will be an interactive session to find out whether the students were able to grasp the key points of each lecture.
- Students will be divided into groups (number depending on the number of students in class) to analyze and find answer to a critical question or two-three case study will be given that will require brainstorming of students.
- A briefing on the relevant lab pertaining to the course will also be done during the class so that the students can relate the theory to the practical work done in the laboratory.

- Assignments and oral presentation will be given to all the students and each student will have different topics to assess their level of understanding.
- Invited guests and experts will take classes to share their knowledge on cosmetic preparations.

**Incourse:**

Total mark allocated for incourse is 10. Two incourses will be taken and average of these 2 incourses will be counted. There will be no makeup incourse.

**Final Examination:**

Final examination will be of 40 marks. The length of the final examination will be 2 hours. MCQ will be taken of 10 marks for first 10 minutes and rest of time will be allocated for written exam which is of 30 marks.

**Oral presentation:**

Oral presentation will be given to enhance the student's ability to familiarize with the course.

**Final Grading:**

Marks earned by the students in incourse, final examination will be cumulated and the total is to be graded as per University of Dhaka regulation.

**ReferenceBooks:**

1. Harry's Cosmeticology- J. B. Wilkinson & R. J. Moore, 7th edition, Longman Scientific & Technical.
2. Chemistry and Technology of the Cosmetics and Toiletries Industry- D. F., Williams and W. H. Schmitt, Hardcover 1992, Kluwer Academic Publications.
3. Modern Cosmetics~ Perfumes, Cosmetics and Soaps, Vol. 1, 11 and III- W. A. Poucher, 8<sup>th</sup> edition, Chapman & Hall, London.

## Tentative Course Schedule

Chapters	Topicsto be discussed	Number of classes required	Assigned Faculty
<b>Chapter 1</b> The skin	Introduction, epidermis and keratinizing system, pigment system, langerhans cell, dermis, nerves and sense organs, blood vessels,Exocrine sweat glands, hair follicles, sebaceous glands, apocrine glands, common disorders of the skin.	4	SMI
<b>Chapter 2</b> Product ingredients	Commonly used surface-active agents, humectants, antiseptics, preservatives, antioxidants.	2	SMI
<b>Chapter 3</b> The manufacture of cosmetics	Introduction, mixing and the manufacture of bulk cosmetic products, solid-solid mixing, manufacture of pigmented powder products, mixing processes involving fluids, general principles of fluid mixing, mixing equipment for fluids, solid-liquid mixing, suspension of solids in agitated tanks, liquid-liquid mixing- miscible liquid, immiscible liquid.	3	ASSR
<b>Chapter 4</b> Skin creams	Introduction, Classification of skin creams, cold creams, cleansing creams, night and massage creams, Moisturizing, vanishing and foundation creams, pigmented foundation creams, hand creams and hand-and-body creams, all-purpose creams.	3	SRA
<b>Chapter 5</b> Shaving preparations	Introduction, Lather shaving cream, brush less or non-lathering cream, aerosol shaving foams, after-shave preparations.	3	SMI
<b>Chapter 6</b> Dental products	Introduction, formulation and manufacturing of toothpastes and tooth powders, mouth wash.	3	SRA
<b>Chapter 7</b> Hair products	Introduction, detergency, formulation of shampoos, Different types of shampoo, Safety of shampoos	3	SRA
<b>Chapter 8</b> Application of botanicals in cosmetics	Cosmetic uses of different botanicals i.e., aloe vera, lemon, cucumber, papaya, carrot, saffron, avocado, cocoa butter, shea butter, green tea, neem, clove, cinnamon, henna, chamomile.	5	ASSR
<b>Chapter 9</b> Quality control studies of cosmetic products	Different quality control parameters and methods to assess different cosmetic products.	4	ASSR
<b>Oral Presentation</b>	Chapter 8 & Chapter 9	6 (extra classes)	ASSR, SMI, SRA

**Slot of Extra Classes:**

Assigned Faculty	Day	Time
ASSR, SMI, SRA	Monday, Tuesday, Wednesday	02:30 pm-04:30 pm

**Topics to be discussed in extra classes:**

1. Stability testing of herbal medicinal products.  
Innovations in Pharmaceutical Technology.  
Link: [www.iptonline.com](http://www.iptonline.com)
2. A study on the usage of herbal cosmetics by selected subjects.  
Int J CURR SCI 2012, 272-277
3. Top 10 botanical ingredients in 2010 anti-aging creams.  
Journal of Cosmetic Dermatology, 9, 218-225
4. Novel approaches in herbal cosmetics.  
Journal of Cosmetic Dermatology, 7, 89-95
5. Elderly skin and its rejuvenation: products and procedures for the aging skin.  
Journal of Cosmetic Dermatology, 6, 40-50
6. Anti-aging properties of resveratrol: review and report of a potent new antioxidant skin care formulation.  
Journal of Cosmetic Dermatology