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Course No: 021855

Course Name: Cosmetics

Course Description

Credit hours: 3 hours (weekly). Theoretical: 2 hours. Practical: 2 hours.

Prerequisite: Pharmaceutics II.

Course Objectives

- 1- This course introduces the students to a fancy and wonderful world of beauty preparations, which now represent a considerable share of pharmacies sale.
- 2- Students will realize that cosmetics are not a magic, rather than science and technology.
- 3- To provide an overview of different cosmetic preparations, manufacture and application.
- 4- The knowledge at this course will enable the students to be as a consultant in beauty world at their own pharmacy.

Activities description by ABC LD

- **Acquisition activities (AA):** Learning through acquisition is what learners are doing when they are listening to a lecture or podcast, reading from books or websites, and watching demos or videos.
- **Collaboration activities (CA):** Learning through collaboration embraces mainly discussion, practice, and production. Building on investigations and acquisition it is about taking part in the process of knowledge building itself.
- **Discussion activities (DA):** Learning through discussion requires the learner to articulate their ideas and questions, and to challenge and respond to the ideas and questions from the teacher, and/or from their peers.
- **Investigation activities (IA):** Learning through investigation guides the learner to explore, compare and critique the texts, documents and resources that reflect the concepts and ideas being taught.
- **Practice activities (PraA):** Learning through practice enables the learner to adapt their actions to the task goal, and use the feedback to improve their next action. Feedback may come from self- reflection, from peers, from the teacher, or from the activity itself, if it shows them how to improve the result of their action in relation to the goal.
- **Production activities (ProA):** Learning through production is the way the teacher motivates the learner to consolidate what they have learned by articulating their current conceptual understanding and how they used it in practice.



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Theoretical hours outline

Week	Topic	Textbook Chapters and Pages *T:C,p-p
1	Introduction scope to cosmetics	
2	Surfactants	
3	Skin Hydration	
4	Hair cosmetics	
5	Oral care products & Oral cosmetics	
6	Baby care products	
7	Decorative makeup technology	
8	Skin Cleansing Products	
9	UV filters	
10	Deodorant & Antiperspirant	
11	Anti-wrinkles & Anti-cellulite products	
12	Skin tanning & whitening products	

*T is the reference number as cited under the textbook information paragraph, C is the chapter's number and p-p is page numbers.

AA, Acquisition activities; CA, Collaboration activities; DA, Discussion activities; IA, Investigation activities; PraA, Practice activities; ProA, Production activities.

Practical hours outline: All these hours are considered as practical activities (lab work). Hence, total PA is 28 hours

Week	Topic (LN, Lecturer notes; PCSA, Pre-class student activity; DCSA, During class student activity, HW, Homework)	Textbook Chapters and Pages. *T:C,p-p
1	Introduction to cosmetics & cosmeceutical, definitions. Makeup Removers: introduction to makeup, formulation and ingredients of makeup remover. LN: cosmetics laboratory manual (p 4-5) (AA15 min) DCSA: discussing the students with LN they read. (DA, 15 min), Preparing the formula and get the final form (PraA + CA 1 hour)	2:1, 3-6
2	Sunscreen creams: the electromagnetic spectrum, UV region, skin types, sun protection factor, formulation and ingredients, after sun preparation. LN: cosmetics laboratory manual (p 9-10) (AA15 min) PCSA: search on the internet about different types of sunscreen agents. (IA, 30 min) DCSA: discussing the internet research done by students and compared with LN. (DA, 15 min), Preparing the formula and get the final form (PraA+ CA 1hour)	2:2: 7-12
3	Hair shampoo: introduction, formulation and ingredients.	2:3, 13-15



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Week	Topic (LN, Lecturer notes; PCSA, Pre-class student activity; DCSA, During class student activity, HW, Homework)	Textbook Chapters and Pages. *T:C,p-p
	LN: cosmetics laboratory manual (p 13-14) (AA10 min) DCSA: discussing the students with LN they have read. (DA, 15 min), Preparing the formula and get the final form (PraA+ CA 1hour)	
4	Hair care product: hair combing conditioner cream formulation. Hair gel formulation. PCSA: What's in Conditioner Ingredients with George Zaidan (Episode 8) ((AA10 min) DCSA: discussing the students with video they have watched. (DA, 15 min), Preparing the formula and get the final form (PraA+ CA 1hour)	2:4, 16-17
5	Antiperspirant and deodorant topical forms: antiperspirants vs. deodorants, mechanism of action of antiperspirant, active ingredient forms. product forms, formulation of deodorant stick and antiperspirant cream. LN: cosmetics laboratory manual (p 18) (AA10 min) DCSA: discussing the students with LN they have read. (DA, 15 min), Preparing the formula and get the final form (PraA+ CA 1hour)	2:5, 18-20
6	Soaps: saponification reaction, transparent soap, formulation. PCSA: watching video uploaded on the Moodle about the experiment (AA10 min) DCSA: discussing the students with video they have watched. (DA, 15 min), Preparing the formula and get the final form (PraA+ CA 1hour)	2:6, 21-23
7	Skin care products: cold cream formulation, Vaseline lotion formulation. DCSA: Preparing the formula and get the final form (PraA+ CA 1hour)	2:6, 24-25
8	Manicure preparation: introduction, cuticle creams and oil, nail enamel (lacquer) formulation. Enamel removers: oily nail lacquer removers, cream nail enamel removers. LN: cosmetics laboratory manual (p 27-30) (AA 20 min) PCSA: search on the internet about nail care products (IA 1 hour) + watching video uploaded on the Moodle about the experiment. (AA 5 min) DCSA: discussing the students with LN they have read. (DA, 15 min), HW: make short video or presentation about different type of nail care products. (ProA 30 min)	2:6, 26-32
9	Hand sanitizer gel: Introduction, types of gelling agents, carbomers, formulation. LN: cosmetics laboratory manual (p 33-34) (AA 10 min) DCSA: discussing the students with LN they have read. (DA, 15 min), Preparing the formula and get the final form (PraA+ CA 1hour)	2:6, 33-35
10	Lipstick: ingredients, preparation, formulation. LN: cosmetics laboratory manual (p 36) (AA 7 min) PCSA: search on the internet about nail care products (IA 1 hour) DCSA: discussing the students with LN they have read. (DA, 15 min), Preparing the formula and get the final form (PraA+ CA 1hour) HW: make short video or presentation about different type pigments used in lipstick (2:7, 36-38

Week	Topic (LN, Lecturer notes; PCSA, Pre-class student activity; DCSA, During class student activity, HW, Homework)	Textbook Chapters and Pages. *T:C,p-p
	ProA 10 min).	
11	Men's toiletries: Shaving Products, lather shaving cream, lather shaving stick, aerosol shaving foam, formulation. After Shave Products: after shave balm, formulation. LN: cosmetics laboratory manual (p 39-40) (AA 10 min) DCSA: discussing the students with LN they have read. (DA, 15 min), Preparing the formula and get the final form (PraA+ CA 1hour) HW: make short video or presentation about foam shave products (ProA 10 min).	2:8, 39-43
12	Perfumes: history of perfume, perfume formulation LN: cosmetics laboratory manual (p 44-46) (AA 10 min) DCSA: discussing the students with LN they have read. (DA, 15 min). HW: make short video or presentation about how to make perfume (ProA 20 min)	2:9, 44-47
13	Exam	

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Activities distribution after redesigning using by ABC LD

Cosmetics (ABC LD Activities Design).		
	After ABC redesign	Before
Acquisition	11.82 %	40%
Collaboration	26.86 %	25%
Discussion	14.77 %	10%
Investigation	13.43 %	0
Practice	26.86 %	25%
Production	6.23 %	0
Total	100 %	100 %

Textbook Information:

- 1.
2. Essa Hassan and Lena Dalal (2019) cosmetics laboratory manual. 2st Edition, Syria, Arab International University, Damascus, Syria.



3. Licensing [ABC Learning Design method](#) by Clive Young and Nataša Perović, UCL (2015) is licensed under [CC BY NC SA 4.0](#). Learning types, Laurillard, D. (2012). Download at [abc-ld.org](#).



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