**Course Description**

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| **Faculty** | **Pharmacy** | | | | | | |
| **Department** | **Pharmaceutics and Pharmaceutical Technologies** | | | **Level** | | |  |
| **Course** | **Cosmetics** | **Code** | **1701333** | **Prerequisite** | | | 1701332 |
| **Credit hours** | 3 | **Theoretical** |  | **Practical** | | |  |
| **Coordinator** | Rehan Al kasasbeh | **Email** |  | | | | |
| **Teachers** | Lidia Al Halaseh | **Emails** |  | | | | |
| **Lecture Time** |  | **Place** |  | | **Attendance mode** |  | |
| **Semester** |  | **Preparation date** |  | | **Modification Date** |  | |

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| **Abstracted Course Description** |
| Methods used for the development of various types of cosmetic products starting from the idea of the preparation, its formulation, manufacturing, and evaluation for their quality and stability. Proper methods of storage and usage of cosmetic products are also discussed. |
| **Course Goals** |
| * To provide students with in-depth knowledge of cosmetic product development. * To teach the formulation and manufacturing of cosmetics. * To enable students to evaluate cosmetic product quality and stability. * To educate students on the proper storage and usage of cosmetic products. |

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| **CILOs** |
| **Knowledge** |
| a1. Understand the principles of cosmetic product development.  a2. Comprehend the formulation and manufacturing of cosmetics.  a3. Learn methods for evaluating cosmetic product quality and stability.  a4. Grasp the principles of proper storage and usage of cosmetic products.. |
| **Skills** |
| b1. Apply cosmetic formulation techniques.  b2. Conduct cosmetic manufacturing processes.  b3. Perform cosmetic product quality and stability assessments.  b4. Demonstrate knowledge of proper cosmetic product storage and usage. |
| **Competencies** |
| c1. Apply knowledge to develop cosmetic products.  c2. Execute cosmetic manufacturing processes effectively.  c3. Evaluate and ensure the quality and stability of cosmetic products.  c4. Promote proper storage and usage of cosmetic products for consumers |
| **Learning Methods** |
| * Lectures and discussions on cosmetic science and development * Formulation and manufacturing laboratory sessions * Cosmetic product quality and stability evaluations * Case studies on cosmetic industry practices * Guest lectures from industry experts |
| **Evaluation Tools** |
| Quizzes, Midterm exam, Final Exam |

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| **Week** | **Topics** | **Learning methods** | **Evaluation tool** | **ILOs** | **Hours** |
| **1.** | Introduction | Lectures | Practical exercises | A1,2b1 | **3** |
| **2.** | Hair anatomy and physiology | Lectures | Case studies | A3,2 | **3** |
| **3.** | Hair Cleansing and Conditioning Products | Lectures | Lectures | A3 | **3** |
| **4.** | Hair coloring products | Lectures |  | A3 | **3** |
| **5.** | Skin anatomy and physiology | Lectures |  | B1,2 | **3** |
| **6.** | Skin cleansing products | Case studies | Exam | C1,c2 | **3** |
| **7.** | Skin moisturizing products | Case studies | Exam | C4,2b4 | **3** |
| **8.** | Midterm Exam | Case studies |  | A1,4,3 | **3** |
| **9.** | Products for aging | Guest lectures | Exam | A1,2 | **3** |
| **10.** | Products for acne | Lectures |  | B3,2 | **3** |
| **11.** | Sun care products | Lectures | Homework | C2,4 | **3** |
| **12.** | Deodorants and antiperspirants | Case studies |  | A3b2 | **3** |
| **13.** | Oral and dental care products | Guest lectures | Exam | A2,b3 | **3** |
| **14.** | Nail care products |  | Exam | B3,2 | **3** |
| **15.** | Final Exam |  |  |  | **2** |

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| **Plan of Course Evaluation** | | | | | | | | | | | |
| **Evaluation Tools** | | **Mark** | **ILOs** | | | | | | | | |
| **A1** | **A2** | **A3** | **B1** | **B2** | **B3** | **C1** | **C2** | **C3** |
| **First Exam (Mid-term)** | | **30%** | \* | \* |  |  | \* |  |  |  | \* |
| **Second Exam (If available)** | |  |  |  |  |  |  |  |  |  |  |
| **Final Exam** | | **50%** |  |  |  |  |  | \* | \* | \* |  |
| **Activities** | | **20%** |  | | | | | | | | |
| **Activities Evaluation** | Homework/Tasks | 10% |  |  |  | \* | \* |  | \* |  |  |
| Case Study |  |  |  |  |  |  |  |  |  |  |
| Discussion and Interactions |  |  |  |  |  |  |  |  |  |  |
| Group Activities |  |  |  |  |  |  |  |  |  |  |
| Laboratory Exams |  |  |  |  |  |  |  |  |  |  |
| Presentations |  |  |  |  |  |  |  |  |  |  |
| Quizzes | 10% |  | \* | \* |  | \* | \* |  |  | \* |
| Others |  |  |  |  |  |  |  |  |  |  |
| **Total** | | 100% |  | \* | \* | \* |  |  |  |  |  |

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| **Components** | |
| **Book** |  |
| **References** |  |
| **Recommended Readings** |  |
| **Electronic materials** |  |
| **Other websites** |  |