**Course Description Form**

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| 1. Course Name: | | | | | | | |
| Organic Chemistry 3 | | | | | | | |
| 1. Course Code: | | | | | | | |
| **302CHOC3** | | | | | | | |
| 1. Semester / Year: | | | | | | | |
| **First semester /Third year** | | | | | | | |
| 1. Description Preparation Date: | | | | | | | |
| 1/10/2024 | | | | | | | |
| 1. Available Attendance Forms: | | | | | | | |
| mandatory | | | | | | | |
| 1. Number of Credit Hours (Total) / Number of Units (Total) | | | | | | | |
| **30h – 3 units** | | | | | | | |
| 1. Course administrator's name (mention all, if more than one name) | | | | | | | |
| Name: Dr. Luma Salman Abd  Email:Luma \_Salman@uodiyala.edu.iq | | | | | | | |
| 1. Course Objectives | | | | | | | |
| **Course Objectives** | | | Teaching the student organic chemical reactions and chemical structures and knowledge of the structure of organic compounds and clarification of the mechanism of organic reactions and their practical applications  aimed at developing and keeping pace with the scientific development of organic chemistry | | | | |
| 1. Teaching and Learning Strategies | | | | | | | |
| **Strategy** | | * Clarification and explanation of the study materials by the academic staff through the blackboard, smart board and computer. * Providing students with knowledge through homework assignments for academic vocabulary * Asking students to visit the library to obtain additional knowledge of the study materials   Improving students' skills by visiting websites to obtain additional knowledge of the study subjects | | | | | |
| 1. Course Structure | | | | | | | |
| **Week** | **Hours** | | | **Required Learning Outcomes** | **Unit or subject name** | | **Learning method** |
| 1 | **2** | | | Introduction to carbonyl compounds | carbonyl compounds | | Board and  data show |
| 2 | **2** | | | properties of aldehydes and ketones | Aldehydes and ketones | | = |
| 3 | **2** | | | Aldehydes and ketones reactions | Aldehydes and ketones | | = |
| 4 | **2** | | | Methods of preparation | Aldehydes and ketones | | = |
| 5 | **2** | | | The acidity of the hydrogen atom | Condensation reaction | | = |
| 6 | **2** | | | Their reactions (aldol condensation) | Aldol condensation) | | = |
| 7 | **2** | | | Carboxylic acids physical properties | Carboxylic acids | | = |
| 8 | **2** | | | their chemical properties (chemical reactions) | Carboxylic acids | | = |
| 9 | **2** | | | Methods of preparation | Carboxylic acids | | = |
| 10 | **2** | | | Dicarboxylic acid Naming | Dicarboxylic acid | | = |
| 11 | **2** | | | Methods of preparation | Dicarboxylic acid | | = |
| 12 | **2** | | | Derivatives of carboxylic acids / Naming | Derivatives of carboxylic  acids | | = |
| 13 | **2** | | | (its chemical reactions) | Derivatives of carboxylic  acids | | = |
| 14 | **2** | | | Methods of preparation | Derivatives of carboxylic  acids | | = |
| 15 | **2** | | | Additional important information about carboxylic acid derivatives | Additional important information about Carboxylic acid derivatives | |  |
|  | | | | | | | | |  | Second Exam |  |  |  |
| Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, dailyoral, monthly, or written exams, reports .... etc | | | | | | | | |
| 12 -Learning and Teaching Resources | | | | | | | | |
| Required textbooks (curricular books, if any) | | | | | | Organic chemistry, Morrison and Boyd (1) | | |
| Main references (sources) | | | | | | 1**-** Essential organic chemist second addition  2- Organic chemistry (sixth edition)  3- Interne | | |
| Recommended books and references (scientific journals, reports...) | | | | | | www.chemicalprocessing.com | | |
| Electronic References, Websites | | | | | | www.bytoco.com | | |