**Course Description Form**

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| 1. Course Name:
 |
| Organic Pharmaceutical Chemistry III |
| 1. Course Code:
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| 1. Semester / Year:
 |
| Second course2024-2025 |
| 1. Description Preparation Date:
 |
| 21/9/2024 |
| 1. Available Attendance Forms:
 |
| The fourth stage |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| 45 hr / 4 units |
| 1. Course administrator's name (mention all, if more than one name)
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| Name: Email:Ammar A. Razzak MahmoodAmar.mahmoud@copharm.uobaghdad.edu.iq Dr. Mohammed Kamil Hadi**mohammed.hadi@copharm.uobaghdad.edu.iq**Dr. Zainab Abdelhadi Dakhel**Zainab.abd@copharm.uobaghdad.edu.iq** |
| 1. Course Objectives
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| **Course Objectives** | 1- Study of the biological function of certain neurotransmitters within the human body2- Studying the pharmacokinetics of a drug within a living organism includes mechanisms of absorption, metabolism, and excretion3- Study the relationship between the chemical structure of compounds and their activity (such as antibiotics, anticancer agents)4- Preparing students to understand the chemical compositions of compounds and their relationship to the biological activities in the human body |
| 1. Teaching and Learning Strategies
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| **Strategy** | **Knowledge:**1- To know the methods of manufacturing some compounds and medications.2- How to handle chemical compounds3- Performing practical experiments for the manufacturing and purification of compounds**Skills:** 1- Acquiring skill in using different methods in the production and preparation of medications2- Acquiring the skill of how to handle chemical compounds3- Acquiring the skill of writing practical reports**Learning and teaching methods:**1-The theoretical lectures2- Conduct scientific experiments3- Seminars4- The daily duties5- The written exams6- Curriculum and supportive books7- Explanatory videos |
| 1. Course Structure
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| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1-6 | 18 | β-Lactam antibiotics (Penicillins)(β-Lactamase inhibitors,Cephalosporins,Monobactams,Aminoglycosides,Tetracylines,Macrolides,Lincomycins,Polypeptides,Unclassified antibiotics,Newer antibiotics) | Antibacterial Antibiotics | Lectures | Oral and written exam |
| 7-8 | 4 | The Classification and Biochemistry of Viruses Nucleoside Antimetabolites: Inhibiting ViralReplication  | Antiviral drugs | Lectures | Oral and written exam |
| 9-15 | 23 | Alkylating agents(Antimetabolite,Antibiotics,Plant products,Protein kinase inhibitors,Miscellaneous compounds) | Anti-neoplastic agents | Lectures | Oral and written exam |
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| 1. Course Evaluation
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| Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc 20 marks for practical work in the lab and quiz20 marks for mid-term exam and quiz60 marks for final exam |
| 1. Learning and Teaching Resources
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| Required textbooks (curricular books, if any) | Wilson and Gisvold Textbook of Organic medicinal and Pharmaceutical chemistry, Delgado JN, Remers WA, (Eds); 12th ed, 2011 |
| Main references (sources) | Wilson and Gisvold Textbook of Organic medicinal and Pharmaceutical chemistry, Delgado JN, Remers WA, (Eds); 12th ed, 2011 |
| Recommended books and references (scientific journals, reports...) | Wilson and Gisvold Textbook of Organic medicinal and Pharmaceutical chemistry, Delgado JN, Remers WA, (Eds); 12th ed, 2011 |
| Electronic References, Websites |  |