Republic of Iraq

Ministry of Higher Education& Scientific Research

 Middle Technical University

Institute of Medical Technology-Al –Mansour Department: Pharmacy Techniques

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|  **اسم المقرر واللغة** |  **رمز المقرر** |  **المستوى** |  **الساعات الأسبوعية** | **عدد الوحدات** |
| ك. عضوية 2/ اللغة الانكليزية  | PHT116 | الأول  | ن | ع | مج |
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Aims of the study :

To Predict and explain patterns in shape, structure, bonding, hybridization, formal charge, stability, acidity, basicity, solubility, and reactivity for hydrocarbons, halocarbons, alkenes, dienes, and arenes, by understanding and applying concepts of **organic chemical** structure and bonding and stability

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| **الأسبوع**  | **المفردات النظرية** |
| **تفاصيل المفردات** |
| الأول | Organic halogen compound (Alky / halide)Structure; Nomenclature; physical & chemical properties.  |
| الثاني | Preparation & uses; reactions. |
| الثالث | ( Nucleophilic substitution )  |
| الرابع | Alcohol; structure & nomenclature preparation;  |
| الخامس | reaction; uses in pharmacy. |
| السادس | Phenol; structure & nomenclature preparation, reaction; uses pharmacy. |
| السابع | Aldehydes & ketones ; structure nomenclature . |
| الثامن | Preparations method & reaction . Carboxylic acid & lts derivatives structure ; |
| التاسع | nomenclature preparation methods & lts reaction ; uses in pharmacy |
| العاشر | Amine ; structure ; nomenclature physical |
| الحادي عشر  | properties ; Basicity of amine . |
| الثاني عشر  | Preparation & reaction of amine uses in pharmacy . |
| الثالث عشر  | Aromatic Diazonium salt; structure |
| الرابع عشر  | nomenclature ; preparation & reactions, the uses |
| الخامس عشر  | Ethers ; structure ; nomenclature Physical and chemical properties reactions . Ester ; structure ; nomenclature ; reaction . Merercaptons ; thiols ( sulfur organic compound ) Structure ; reaction Steriochemistry of organic compounds . Optical Isomerism Hetero cyclic compounds; five membered rings ; six membered ring ; structure ; reaction . Organic chemical instrumentation spectroscopy ; infrared spectroscopy , UV, visible, nuclear- magnetic reasonance, mass-spectrometry. |

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| **الأسبوع**  | **المفردات العملية**  |
| **تفاصيل المفردات** |
| الأول | Reaction & identification of alcohols . |
| الثاني | Quiz & unknown . |
| الثالث | Reactions & identification of aldehydes . |
| الرابع | Quiz & unknown . |
| الخامس | Reaction & identification of Ketons . |
| السادس | Quiz & unknown . |
| السابع | Reaction & identification of aliphatic Carboxylic acid. |
| الثامن | Quiz & unknown . |
| التاسع | Reaction & identification of aromatic carboxylic acid. |
| العاشر | Quiz & unknown . |
| الحادي عشر  | Identification of phenols . |
| الثاني عشر  | Identification of esters . |
| الثالث عشر  | Identification of aromatic Hydrocarbons ( Benzene ) Quiz & unknown . |
| الرابع عشر  | Identification of ether . |
| الخامس عشر  | Identification of amines Compounds |