

## المحتوى العلمي المقرر:

### - Aromaticity

- *Structure and stability of benzene.*
- *Aromatic character. The Hückel  $4n + 2$  rule.*
- *Electrophilic Aromatic Substitution (Mechanism of nitration,*
- *Mechanism of sulfonation, Mechanism of Friedel-Crafts alkylation ,*  
*Mechanism of halogenation).*
- *Theory of reactivity, Theory of orientation.*

### - Arenes

- *Structure and Physical properties, Synthesis and reactions.*

الكتب الأساسية:

Organic Chemistry, Morrison and Boyd, 6<sup>th</sup> ed., 1992, Allyn and Bacon.

المرجع المساند:

Organic Chemistry, Paula Y. Bruice, 6<sup>th</sup> ed., 2011.