

Lecturer Title:

- 1- Heterocyclic system: Classes of heterocyclic systems; general structures; properties; Occurrence in nature and in medicinal products.
- 2- Five-membered ring heterocyclic compounds: pyrrole; furan and thiophen.
- 3- Source of pyrrole, furan and thiophen.
- 4- Electrophilic substitution in pyrrole, furan and thiophen: Reactivity and orientation.
- 5- Six-membered ring heterocyclic compounds: Structure & reactions of pyridine.
- 6- Saturated five-membered heterocyclic compounds.
- 7- Heterocyclic of five & six member rings with two & three heteroatoms