

**Jerash University**

**Faculty of Pharmacy**

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| **Master of pharmaceutical sciences study plan****Non-thesis track****33 credit hours** |
| 1. **Compulsory courses (24) credit hours**
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| Course number | Course name | Credit hours | Theoret-ical | Practical | Learning type |
| 1101701 | Research methodology and seminar | 3 | 2 | 1 | Belnded |
| 1101710 | Advanced methods in drug elucidation and analysis | 3 | 2 | 1 | Face to face |
| 1101711 | Advanced pharmaceutical biotechnology | 3 | 3 |  | Distant  |
| 1101712 | Advanced drug design and discovery | 3 | 3 |  | Distant |
| 1101721 | Advanced physical pharmacy | 3 | 3 |  | Face to face |
| 1101722 | Advanced drug delivery systems | 3 | 3 |  | Face to face |
| 1101731 | Advanced pharmacology and clinical therapeutics | 3 | 3 |  | Face to face |
| 1101751 | Advanced biopharmaceutics and pharmacokinetics | 3 | 3 |  | Belnded |
| **Total compulsory credit hours** | **24** | **22** | **2** |  |
|  |  |  |  |  |  |
| **2- Elective courses (9) credit hours** |
| **Elective courses: 9 credit hours chosen by the student from the following list** |
| Course number | Course name | Credit hours | Theoret-ical | Practical | Study type |
| 1101702 | Research project | 3 | 3 |  | Belnded |
| 1101713 | Advanced phytotherapy | 3 | 3 |  | Belnded |
| 1101714 | Advanced techniques in drug synthesis | 3 | 3 |  | Belnded |
| 1101723 | Advanced pharmaceutical microbiology | 3 | 3 |  | Belnded |
| 1101724 | Quality control in pharmaceutical manufacturing | 3 | 3 |  | Belnded |
| 1101752 | Advanced toxicology | 3 | 3 |  | Belnded |
| **Comprehensive exam: zero credit hours taken after completion of 33 credit hours** |
| 1101798 | Comprehensive exam | 0 |  |  |  |