



## First year / Credit hours: 31

### First Semester

| Course title                | Hours/week |           | Credit Hours |
|-----------------------------|------------|-----------|--------------|
|                             | Theory     | Practical |              |
| Human Anatomy and Histology | 3          | 2         | 4            |
| Analytical Chemistry        | 3          | 2         | 4            |
| Medical Physics             | 1          | 2         | 2            |
| Medical Terminology         | 1          | ----      | 1            |
| Biostatistics               | 2          | ----      | 2            |
| Democracy and Human Rights  | 2          | ----      | 2            |
| Total                       |            |           | 15           |

### Second Semester

| Course title                | Hours/week |           | Credit Hours |
|-----------------------------|------------|-----------|--------------|
|                             | Theory     | Practical |              |
| Physiology I                | 3          | 2         | 4            |
| Pharmaceutical Calculations | 3          | 2         | 4            |
| Computer Sciences           | 1          | 2         | 2            |
| Organic Chemistry I         | 3          | 2         | 4            |
| Arabic Language             | 2          | ----      | 2            |
|                             |            |           | 16           |
|                             |            |           |              |



**Second year/ Credit hours: 39**

**First Semester**

| Course title                | Hours/week |           | Credit Hours |
|-----------------------------|------------|-----------|--------------|
|                             | Theory     | Practical |              |
| Organic Chemistry II        | 3          | 2         | 4            |
| Medical Microbiology I      | 3          | 2         | 4            |
| Physical Pharmacy I         | 3          | 2         | 4            |
| Physiology II               | 2          | 2         | 3            |
| Computer Sciences           | 1          | 2         | 2            |
| Baath Regime Crimes in Iraq | 2          | ----      | 2            |
|                             |            |           | 19           |

**Second Semester**

| Course title                          | Hours/week |           | Credit Hours |
|---------------------------------------|------------|-----------|--------------|
|                                       | Theory     | Practical |              |
| Medical Microbiology II               | 2          | 2         | 3            |
| Physical Pharmacy II                  | 3          | 2         | 4            |
| Nutrition                             | 2          | ----      | 2            |
| Physiology III                        | 2          | ----      | 2            |
| Pharmacognosy                         | 2          | 2         | 3            |
| Biochemistry I                        | 3          | 2         | 4            |
| Personal and Professional Development | 2          | ----      | 2            |
|                                       |            |           | 20           |



## Third year 43

### First Semester

| Course title              | Hours/week |           | Credit Hours |
|---------------------------|------------|-----------|--------------|
|                           | Theory     | Practical |              |
| Pharmacology I            | 2          | ---       | 2            |
| Phytochemistry            | 2          | 2         | 3            |
| Pharmaceutical Technology | 3          | 2         | 4            |
| Clinical Biochemistry     | 3          | 2         | 4            |
| Pathophysiology           | 3          | 2         | 4            |
| Biopharmaceutics          | 2          | 2         | 3            |
| Public health             | 2          | ---       | 2            |
|                           |            |           | 22           |

### Second Semester

| Course title                             | Hours/week |           | Credit Hours |
|------------------------------------------|------------|-----------|--------------|
|                                          | Theory     | Practical |              |
| Pharmaceutical Chemistry I               | 3          | 2         | 4            |
| Pharmacology II                          | 3          | 2         | 4            |
| Pharmaceutical and cosmetic preparations | 3          | 2         | 4            |
| Professional Pharmacy Practice Skills    | 1          | 2         | 2            |
| Communication Skills                     | 1          | ---       | 1            |
| Community pharmacy                       | 2          | 2         | 3            |
| Pharmacoepidemiology                     | 1          | ---       | 1            |
| Immunology                               | 2          |           | 2            |
|                                          |            |           | 21           |



## Fourth year 47

### First Semester

| Course title                 | Hours/week |           | Credit Hours |
|------------------------------|------------|-----------|--------------|
|                              | Theory     | Practical |              |
| Clinical chemistry           | 3          | 2         | 4            |
| Pharmaceutical Chemistry II  | 3          | 2         | 4            |
| Pharmacology III             | 2          | 2         | 3            |
| Industrial Pharmacy          | 3          | 2         | 4            |
| Pharmacotherapy I            | 3          | 2         | 4            |
| Case study in Therapeutics I | 3          | 0         | 3            |
|                              |            |           | 22           |

### Second Semester

| Course title                                       | Hours/week |           | Credit Hours |
|----------------------------------------------------|------------|-----------|--------------|
|                                                    | Theory     | Practical |              |
| Pharmacotherapy II                                 | 2          | 0         | 2            |
| Case study in Therapeutics II                      | 3          | 0         | 3            |
| clinical Toxicology                                | 3          | 2         | 4            |
| First aid                                          | 0          | 2         | 1            |
| Therapeutic Drug Monitoring (TDM)                  | 2          | 0         | 2            |
| Introductory hospital pharmacy Practice Experience | ----       | 12        | 6            |
| Evidence Based Practice & Scientific Writing       | 2          | 0         | 2            |
| Pharm D Seminar                                    | 0          | 2         | 1            |
| Pharmacology IV                                    | 3          |           | 3            |
|                                                    |            |           | 24           |



## Fifth Year 46

### First Semester:

| Course title                         | Hours/week |           | Credit Hours |
|--------------------------------------|------------|-----------|--------------|
|                                      | Theory     | Practical |              |
| Graduation project                   |            | 4         | 2            |
| Case study in Therapeutics III       | 3          | 0         | 3            |
| Pharmacotherapy III                  | 3          | 0         | 3            |
| Internal medicine I                  | ---        | 8         | 4            |
| Internal medicine II                 | ---        | 8         | 4            |
| Critical care and emergency medicine | ---        | 8         | 4            |
| Psychiatry and Neurology             | ---        | 8         | 4            |
|                                      |            |           | 24           |

### Second Semester

| Course title                           | Hours/week |           | Credit Hours |
|----------------------------------------|------------|-----------|--------------|
|                                        | Theory     | Practical |              |
| Pharmaceutical promotion and marketing | 2          | ---       | 2            |
| Law and Ethics in Pharmacy Practice    | 2          | ---       | 2            |
| Complimentary & Alternative Medicine   | 2          | ---       | 2            |
| Paediatrics                            | --         | 8         | 4            |
| Oncology and haematology               | --         | 8         | 4            |
| Obstetrics, gynaecology and surgery    | --         | 8         | 4            |
| Rheumatology and dermatology           | --         | 8         | 4            |
|                                        |            |           | 22           |

**Total: 205**