مفردات منهج كورسات طلبة الماجستير / أدوية وسموم

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| **المادة /** الفصل الأول | **الساعات** | **الوحدات** |
| **أدوية متقدم****Advance pharmacology****I** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** |  **المفردات subject** | **weeks** |
|  | **pharmacokinetic**  | **3** |
|  | **Pharmacodynamic of drugs** |
|  | **Receptors theory,type of response** |
|  | **Drug Acting on the autonomic and somatic nervous system** | **4** |
|  | **Autonomic nervous system**  |
|  | **Adrenergic agonist and antagonist** |
|  | **Cholinergic pharmacology , Autonomic drugs** |
|  | **Neuromuscular blocking agents** |
|  | **Drugs acting on the central nervous system** | **4** |
|  | **Central nervous system**  |
|  | **General anaesthesia , Inhalation & njectable anesthetics** |
|  | **Opioid agonists and antagonists**  |
|  | **Tranquilizers α2 – adrenergic agonists and related drugs** |
|  | **Local anesthetics**  |
|  | **Anticonvulsant drugs and Analeptic agents** |
|  | **Drugs affecting animal behavior** | **1** |
|  | **Drug acting on Cardiovascular system**  | **3** |

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| **المادة/ الفصل الثاني** | **الساعات** | **الوحدات** |
| **أدوية متقدم****Advance pharmacology****II** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** |  **المفردات subject** | **weeks** |
|  | **Drugs affecting on Digestive system** | **2** |
|  | **Drugs affecting on Respiratory system.** | **2** |
|  | **Drugs affecting on urinary system**  | **2** |
|  | **Antiarrhythmic agents** | **3** |
|  | **Autacoids and anti-inflammatory drugs.** |
|  | **Histamine , Serotonin and their antagonists.** |
|  | **Peptides : angiotensin and kinins** |
|  | **Prostaglandins, related factors and cytokines** |
|  | **The analgesic , antipyretic , anti-inflammatory drugs** | **2** |
|  | **Drugs affecting the reproductive system** | **3** |
|  | **Drugs affecting the skin** | **1** |

**Therapeutics**

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| **المادة / الفصل الثاني** | **الساعات** | **الوحدات** |
| **علاج****Therapeutics** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** | **weeks** |
|  | **Chemotherapeutic Drugs** | **2** |
|  | **Antimicrobial therapy**  |
|  | **Classification of antibacterial** |
|  | **Mechanism of resistance** |
|  | **Inhibition of cell wall synthesis**  | **1.5** |
|  | **Inhibition of Protein synthesis**  | **3** |
|  | **Inhibition of Nucleic Acid Synthesis** | **3** |
|  | **Folate antagonists**  |
|  | **Urinary tract antiseptic** |
|  | **Combination of antibacterial** |
|  | **Failure treatment with antibacterial** |
|  | **Chemotherapy of protozoal infection** | **3** |
|  | **Anticoccidal drugs** |
|  | **Vitamine antagonists** |
|  | **Babesiocidal drugs** |
|  | **trypanocidal drugs** |
|  | **Antithelmintic drugs** |
|  | **Chemotherapy of worm infections** | **2.5** |
|  | **Drugs acting on fluks** |
|  | **Fascioliasis therapy** |
|  | **Drugs acting of external parasite**  |
|  | **Antiseptic & disinfected**  |

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| **المادة / فصل ثاني** | **الساعات** | **الوحدات** |
| **سموم سريري****Clinical Toxicology** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** | **weeks** |
|  | **Principles of toxicology** | **3** |
|  | **Toxickinetic**  |
|  | **Toxicodynamic** |
|  | **Dose–response relationships** |
|  | **Types of toxic reactions** | **2** |
|  | **Estimation of toxic substance** |
|  | **Teratogenic study** | **3** |
|  | **Chemical carcinogens** |
|  | **Interactions between chemicals** |
|  | **Incidence of acute poisoning** | **2** |
|  | **Major sources of information on poisoning** | **1** |
|  | **Prevention and treatment of poisoning** | **1** |
|  | **Prevention of Further Absorption of Poison** | **1** |
|  | **Elimination of the Poison** | **2** |
|  | **Heavy metals**  |
|  | **Heavy-metal antagonists** |
|  | **Radioactive heavy metals** |

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| **المادة / فصل ثاني** | **الساعات** | **الوحدات** |
| **تقييم دوائي****Drugs Evaluation** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** | **No. of weeks** |
| **No.** | **subject** |
|  | **Elimination of the Poison** | **4** |
|  | **Elimination Heavy-metal** |
|  | **Methods of LD50 , ED50** |
|  | **Teratogenic study** |
|  | **Microbiological assay** | **4** |
|  | **Disk Diffusion Test and Gradient Methodologies** |
|  | **Macro- and Microdilution Methods of Antimicrobial** |
|  | **Agar Dilution Susceptibility Testing** |
|  | **Antifungal Susceptibility Testing** |
|  | **Thin layer chromatography** |
|  | **Bioautography** |
|  | **Methods of plantsextraction** | **4** |
|  | **Detection of phytochemical** |
|  | **Test of reproductive drugs** |
|  | **Evaluation of spermatogenesis** |
|  | **Fertility index** |
|  | **Mating index** |

مفردات منهج كورسات طلبة الدكتوراه / أدويةوسموم

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| **المادة / فصل اول** | **الساعات** | **الوحدات** |
| **ادوية سريري****Clincal pharmacology** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** |  |
| **No.** | **subject** | **No. of weeks** |
|  | **Fluid therapy** | **6** |
|  | **Treatment direehea in claves** |
|  | **Treatment of mastitis**  |
|  | **Anti-inflammatory drugs and treatment of arthritis** |
|  | **Drugs Acting on the Respiratory Organs Function** |
|  | **Drug Use During Pregnancy and Lactation** | **6** |
|  | **Female reproductive endocrinology** |
|  | **Male reproductive endocrinology** |
|  | **Anterior pituitary hormones and related drugs** |
|  | **Posterior pituitary hormones** |
|  | **Examination** |

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| **المادة / فصل اول** | **الساعات** | **الوحدات** |
| **تحليلات صيدلانية****Pharmaceutical analysis** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** | **No. of weeks** |
| **No.** | **subject** |
|  | **ELISA (Enzyme Linked Immunosorbent Assay )** | **2** |
|  | **Polymerase Chain Reaction (PCR)** | **2** |
|  | **Detection of antimicrobial drugs** | **2** |
|  | **Antioxidantstest for Development** |
|  | **Mast cell**  |
|  | **Thin layer chromatography**  | **6** |
|  | **HPLC analysis** |
|  | **Hormone detection** |
|  | **Examination** |

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| **المادة / فصل ثاني** | **الساعات** | **الوحدات** |
| **حركية دوائية****Pharmacokinetic** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** | **No. of weeks** |
| **No.** | **subject** |
|  | **Pharmacokinetic Processes** | **4** |
|  | **Mechanisms of Passage Across Membranes** |
|  | **ABSORPTION / BIOAVAILABILITY** |
|  | **Determinants of Bioavalability/ Biovailability - AUC** |
|  | **Distribution/ Volume of Distribution (V)** | **4** |
|  | **Metabolism / Biotransformation** |
|  | **Excretion/ Clearance/ Hepatic Excretion/ Renal Excretion** |
|  | **Kinetics of Elimination / Determination of the Slope** |
|  | **Rates of reaction / *zero-order* or *first-order*.** |
|  | **One -compartment model / Two-compartment model** |
|  | **Multicompartment model** |
|  | **Kinetics following a single drug dose/ Plasma half-life** | **4** |
|  | **Repeated Dosing/ Monitoring of Plasma concentration** |
|  | **Steady State** |
|  | **Pharmacokinetics after extravascular administration. Bioavailability** |
|  | **Bioequivalence / Hepatic clearance** |
|  | **Examination** |

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| **المادة / فصل ثاني** | **الساعات** | **الوحدات** |
| **علاج متقدم****Advance Therapeutics** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** | **No. of weeks** |
| **No.** | **subject** |
|  | **Antimycobacterial drugs** | **4** |
|  | **mycobacterium** |
|  | **Mycobacteriaassociatedwithhumandisease** |
|  | **ClinicalPresentation/Diagnosis** |
|  | **Antifungal Drugs** | **4** |
|  | **Anti-viral drugs** |
|  | **Structure of viruses** |
|  | **The life cycle of Viruses** |
|  | **Cancer** |
|  | **The main categories of cancer include** |
|  | **Carcinogens** |
|  | **The Development of Cancer/ DNA of a normal cell** | **4** |
|  | **Modalities of treatment./Radiation therapy** |
|  | **Nuclear medicine / Chemotherapy** |
|  | **Gene Therapy/ Categories of clinical gene transfer protocols** |
|  | **Types of gene therapy/Ideal vector characteristics/Adenovirus** |

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| **المادة / فصل اول** | **الساعات** | **الوحدات** |
| **تداخل دوائي****Drug interaction** | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** | **No. of weeks** |
| **No.** | **subject** |
|  | **Pharmacokinetic interaction** | **4** |
|  | **Absorption, Distribution** |
|  | **Metabolism, Execration** |
|  | **Food – drug interaction** |
|  | **Pharacodynamic interaction** | **4** |
|  | **Drug interactions toxicology** | **4** |
|  | **Examination** |

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| **المادة / فصل ثاني** | **الساعات** | **الوحدات** |
| **أدوية متقدم****Advance pharmacology III**  | **نظري** | **عملي** | **5** |
| **2** | **6** |
| **No.** | **المفردات subject** | **No. of weeks** |
| **No.** | **subject** |
|  | **Diuretics** | **4** |
|  | **Heart failure** |
|  | **Antiarrhythmics** |
|  | **Antianginal Drugs** |
|  | **Anticoagulants and Antiplatelet Agents** | **4** |
|  | **Drugs for Hyperlipidemia** |
|  | **Pituitary and Thyroid** |
|  | **Drugs for Diabetes** |
|  | **Estrogens and Androgens** |
|  | **Adrenal Hormones** |
|  | **Drugs for Disorders of the Respiratory System** | **4** |
|  | **Antihistamines** |
|  | **Gastrointestinal and Antiemetic Drugs** |
|  | **Drugs for Anemia** |
|  | **Drugs for Dermatologic Disorders** |
|  | **Examination** |

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| **المادة / فصل ثاني** | **الساعات** | **الوحدات** |
| **سموم متقدم****Advance Toxicology**  | **نظري** | **عملي** | **3.5** |
| **2** | **3** |
| **No.** | **المفردات subject** | **No. of weeks** |
| **No.** | **subject** |
|  | **Air pollution**  | **4** |
|  | **Water and soil pollution** |
|  | **Geneticmutations** | **4** |
|  | **CarcinogenicityCarcinogens** |
|  | **Teratogeniceffects** |
|  | **Pesticide poisoning** | **4** |
|  | **In organic matterpoisoning** |
|  | **Examination** |