

Table (9)

Semester (9)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract./tut	Total		Period.	Pract.	Wr.	Oral		
Toxicology and Forensic Chemistry	PO 906	2	1	3	Pharmacology-III	20	40	75	15	150	2
Pharmacotherapy of Neuropsychiatric Diseases	PP 908	2	1	3	Pharmacology-III	20	40	75	15	150	2
Pharmacotherapy of Cardiovascular Diseases	PP 909	2	1	3	Pharmacology-III	20	40	75	15	150	2
Pharmacotherapy of Critical Care Patients	PP 910	1	1	2	Pharmacology-III	15	25	50	10	100	1
Clinical Research and Pharmacovigilance	PP 911	1	--	1	Drug information	10	---	40	--	50	1
Clinical Nutrition	PB 905	1	1	2	Biochemistry-II	15	25	50	10	100	1
Pharmaceutical Biotechnology	PM 904	1	1	2	General Microbiology & Immunology	15	25	75	10	100	1
Elective Course	PE --	1	1	2	Registration	15	25	50	10	100	1
Total		11	7	18						900	

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Table (10)

Semester (10)

Course Title	Course Code	Credit Hours			Prerequisite	Examination Marks				Total Marks	Final Exam. Hours
		Lect.	Pract./tut	Total		Period.	Pract.	Wr.	Oral		
Pharmacotherapy of Dermatological, and Musculoskeletal Diseases	PP 012	1	1	2	Pharmacology II	15	25	75	10	100	1
Pharmacotherapy of Pediatric Diseases	PP 013	2	1	3	Pharmacology-III	20	40	75	15	150	2
Pharmacotherapy of Gastrointestinal Diseases	PP 014	2	1	3	Pharmacology-III	20	40	75	15	150	2
Pharmacotherapy of Respiratory Diseases	PP 015	1	1	2	Pharmacology-III	15	25	50	10	100	1
Phytotherapy	PG 006	2	1	3	Phytochemistry-II	20	40	75	15	150	2
Marketing & Pharmacoeconomics	NP 006	2	--	2	Registration	25	---	75	--	100	2
Entrepreneurship	NP 007	1	---	1	Registration	10	---	40	---	50	1
Elective	PE --	1	1	2	Registration	15	25	50	10	100	1
Total		12	6	18						900	

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PB 905 Clinical Nutrition

The aim of the course is designed to provide the student with understanding of the fundamentals of nutrition, roles of carbohydrates, proteins, fats, water, minerals and vitamins in clinical nutrition and how these components promote and maintain of optimal health. Nutritional assessment and management of patients requiring specialized nutrition support, enteral nutrition, and parental nutrition. Nutritional therapy in specific diseases (cardiovascular, cancer, gastrointestinal diseases, malnutrition and genetic diseases) is covered.

PM 904 Pharmaceutical Biotechnology

The biotechnology subject is crucial for pharmacy students. It mainly aims to provide sufficient foundation for the student on how to learn the concept of the biotechnology, its main components, optimization of fermentation, bioconversion biodegradation and bioremediation – gene therapy and genetic engineering. It simply puts the student on the track of the hot topic and the coming near future of the pharmaceutical industries.

PO 906 Toxicology and Forensic Chemistry

This course provides basics and concepts of toxicology including the mechanism of toxicity, target organ and treatment of toxicity. Toxic groups including heavy metals, toxic gases, animal, plant and marine poisons, pesticides and radiation hazards are covered. Environmental, occupational, reproductive and genetic toxicology as well as drug abuse are included. Postmortem sampling for detection of poisons, methods of detection, interpretation of results and writing of a report are also covered.

PP 909 Pharmacotherapy of Cardiovascular Diseases

Main diseases affecting the cardiovascular system, symptoms, prognosis, pharmacological and non-pharmacological management, patient counseling and monitoring of dyslipidaemias, hypertension, coronary artery disease, acute coronary syndromes, heart failure, dysrhythmias, thromboembolic disorders, and stroke.

PP 910 Pharmacotherapy of Critical Care Patients

This course aims to provide the student with the knowledge in, pathophysiology, clinical interpretation, pharmacotherapy and management of critical care illness (e.g. medical and surgical crises, trauma patients, supportive care, ICU infections, burns, neuro-critical care, cardiovascular critical care, sepsis, septic shock, pain and analgesia, bleeding disorders and anticoagulation, nutritional support and therapy, hemodynamic monitoring, fluid and electrolyte disorders).

PP 911 Clinical Research and Pharmacovigilance

This course introduces the student to the basic principles of clinical research, design of research studies, types of research studies, clinical trials, statistical presentation of research data and ethical guidelines in drug research. This course also provides the student's with understanding of pharmacovigilance importance, concept, processes, systems, global safety standards and regulations and reporting systems.

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PG 006 Phytotherapy

The course aims to enable students to attain the systematic approach for herbal prescribing through a comparative study of both traditional and scientifically based uses of herbal drugs in the treatment of various clinical disorders. The course provides clinical pharmacy students with review of the available information on how botanicals may normalize an altered function. Approval by World Health Organization (WHO), German Federal Institute for Drugs and Medical Devices (Commission E) is the base for selection of the studied herbs. The herbal drugs treated in combined way relative to pharmacognosy, pharmacology and toxicology. Special concern is given to the possible mode of action of the herbal drugs based on experimental and clinical pharmacological studies. Also the student should understand the basis of complementary and alternative medicine with emphasis on herbal remedies, nutritional supplements, homeopathies, aromatherapy & their effect on maintaining optimum health and prevention of chronic diseases.

PP 012 Pharmacotherapy of Dermatological, and Musculoskeletal Diseases

Skin structure and function, primary and secondary lesions. Most popular skin diseases: infective and non-infective types and their differentiation. Sexually transmitted diseases, male infertility, and women health. Musculoskeletal disorders are also included.

PP 013 Pharmacotherapy of Pediatric Diseases

Nutritional requirements in neonates and infants, nutritional disorders, neonatology, infectious diseases in pediatrics, congenital heart diseases, endocrine, neurological, haematologic, renal, and respiratory disorders, pediatric emergencies.

PP 014 Pharmacotherapy of Gastrointestinal Diseases

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AU-PHA-CPP-12-01

Pharm-D clinical مقررات



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Hepatic disorders including viral hepatitis, pancreatitis, gastrointestinal bleeding, peptic ulcer, gastro-esophageal reflux disease, inflammatory bowel diseases and irritable bowel syndrome as well as gastrointestinal symptoms including nausea, vomiting, constipation, and diarrhea.

PP 015 Pharmacotherapy of Respiratory Diseases

Epidemiology, aetiology, pathophysiology, clinical manifestation, investigations, treatment, monitoring, and patient counseling of bronchial asthma, chronic obstructive pulmonary disease, pulmonary hypertension, cystic fibrosis, upper and lower respiratory tract infections, and drug-induced respiratory problems.

NP 006 Marketing & Pharmacoeconomics

The course introduces the student to understand the major concept of marketing, marketing strategies, market research, segmentation and marketing of pharmacy services, pricing strategies, promotion, selling skills, e-marketing, advertising and customer behaviors. Introduction to pharmacoeconomics, types, methods of pharmacoeconomics analysis. Cost-minimization analysis and cost-effectiveness analysis, cost-benefit analysis, cost-utility analysis

NP 007 Entrepreneurship

This course outlines the process of designing, launching and running a new business, which is often initially a small business. The people who create these businesses are called entrepreneurs. Entrepreneurship has been described as the "capacity and willingness to develop, organize and manage a business venture along with any of its risks in order to make a profit. While definitions of entrepreneurship typically focus on the launching and running of businesses, due to the high risks involved in launching a start-up, a significant proportion of start-up businesses have to close due to "lack of funding, bad business decisions, an economic crisis, lack of market demand, or a combination of all of these

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