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MEDICAL UNIVERSITY PLOVDIV, PHARMACY FACULTY
DEPT. PHARMACOLOGY, TOXICOLOGY AND PHARMACOTHERAPY, Tel.032/602 498, 15A “V. Aprilov” Blvd
HEAD OF DEPARTMENT: PROFESSOR L. PEYCHEV, MD, PhD

PROGRAMME FOR PHARMACOLOGY, PHARMACY STUDENTS – LECTURES,
WINTER SEMESTER – ACADEMIC YEAR 2021/2022

№	DATE	TOPIC	Hours
1.	16.09.2021	Introduction to pharmacology: Object and tasks of pharmacology. Relationship with other sciences. Historical review. Division of medical pharmacology. Definition of drug. Drug cruds and preparations. Stages in development and regulations of new drugs.	3h.
2.	23.09.2021	Routes of drug administration. General pharmacokinetics – drug absorption, distribution, biotransformation and excretion. Main pharmacokinetics indicators.	3h.
3.	30.09.2021	General pharmacodynamics – drug action and drug effect. 3.2. Specific mechanisms of drug action (receptors, ion channels, enzymes, transport systems). Definition of receptor, types of receptors. Types of drug effects. Adverse drug effects. Factors affecting the kinetics and action of the drugs: a) drug properties affecting its kinetics and action; b) the role of environment on the kinetics and action of the drugs; c) factors of human body affecting drugs action.	3h.
4.	07.10.2021	Peculiarities of drugs action due their multiple applications - tachyphylaxis, tolerance, drug dependence, allergic reactions, cumulation. Drug interactions. Antiseptics and disinfectants.	3h.
5.	14.10.2021	Principles of treatment with chemotherapeutics. Antibiotics – classification, mode of action, pharmacokinetics, side effects, drug interactions. Bacteriostatic antibiotics – macrolides, tetracyclines, chloramphenicol, lincosamides, sulfonamides.	3h.
6.	21.10.2021	Bactericidal antibiotics – penicillins, carbapenems, monobactams, cephalosporins, aminoglycosides, quinolones and rifamycins.	3h.
7.	28.10.2021	Antifungal drugs. Antiviral agents. Antiprotozoal drugs. Anthelmintic drugs. Antituberculosis drugs.	3h.
8.	04.11.2021	Drugs affecting Central Nervous System: Neuroleptics. Anxiolytics – benzodiazepine and non-benzodiazepine anxiolytics. Antiparkinson’s drugs.	3h.
9.	11.11.2021	Sedative drugs. Hypnotic drugs. Antiepileptic drugs.	3h.
10.	18.11.2021	Antidepressants. Psychostimulants. Nootropic drugs.	3h.
11.	25.11.2021	Opioid analgesics. Non-opioid analgesics (paracetamol, metamizole). Nonsteroidal anti-inflammatory drugs (NSAID).	3h.
12.	02.12.2021	Anesthetics. Autacoids. Drugs used in treatment of migraine.	3h.
13.	09.12.2021	Anticancer drugs. Immunomodulators – immunostimulators and immunosuppressive drugs.	3h.
14.	16.12.2021	Drugs used in oto-rhino-laryngologie.	3h.
15.	23.12.2021	Vitamins.	3h.

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(Prof. L. Peychev, MD, PhD)