**THEMATIC PLAN OF PRACTICAL LESSONS**

**for foreign students of stomatological departments**

**of the 2-nd year study**

**(1-st semester)**

**2012-2013 st.y.**

|  |  |
| --- | --- |
| **SUBJEST** | **Hours** |
| 1. Stomatology. Accusative and Prepositional cases of nouns. Gr. structures: Що? - Що?, Що? сформувалось (зародилось) Коли? , Що? поділяється на Що? . Complex words. | 4 |
| 2. Teeth. Accusative, Prepositional, Genitive cases of nouns. Gr.structures Що? служить Для чого?, У кого *є* Що?, Що складається 3 Чого?, Що росте Де?, Де? виростає Що? Forming nouns originated from verbs. Characteristics of object according to its external features and its function. | 6 |
| 3. Two sets of human teeth. Prepositional, Genitive Cases of nouns and numerals. Gr.structures: Що? розташоване (знаходиться) Де?, Що? є результатом Чого?, Хто? має Що?, Хто? має Скільки? Чого?, Що? появляється Коли? Де? Object’s quantity characteristics. | 6 |
| 4. Teeth: development and construction. Milk and permanent teeth. Genitive, Instrumental Cases. Gr. structures Що? називається Чим? (Як?), Що? появляється У кого? Коли? Denoting time relations. Gr.structures До скількох років (місяців)?, У скільки років (місяців) починається, закінчується Що? | 6 |
| 5. Teeth construction. Using Accusative, Prepositional, Instrumental and Genitive Cases (nouns, adjectives). Gr.structures Що? має Що?, Де? виділяють Що?, Що? покрите Чим?, Що? знаходиться Де?, Що? служить для Чого?, Що? складається з Чого? Denoting relations of place. Object’s characteristics according to construction and structure. | 8 |
| 6. Examination of teeth. Using Accusative, Genitive and Instrumental Cases. Denoting relations of cause and purpose. Gr. structures ЩО? може привести до ТОГО, ЩО..., ЩО? потрібно ДЛЯ ЧОГО?, ДЛЯ ЧОГО потрібно ЩО РОБИТИ? Using the words ПОТРІБНО, НЕОБХІДНО. | 4 |
| 7. Percussion. Medical vocabulary of Latin origin. Prepositional and Accusative Cases of noun. Gr. structures ЩО? використовується ДЛЯ ЧОГО?, ДЕ? виникає ЩО?, ЩО? має ЩО?. Nouns originated from verbs. Pointing the place of action. | 4 |
| 8. Caries. Related words. Adverbs of manner. Using Prepositional, Accusative, Instrumental Cases. Gr.structures ЩО? відбувається ДЕ?, ДЕ? появляється ЩО?, ЩО? появляється ЧОМУ?, ЩО? можна відчувати ЧИМ?, ЩО? розповсюджується НА ЩО?. Denoting the cause of action. | 6 |
| 9. Pulpits. Comparative degrees of adjectives. Forming nouns originated from verbs. Object’s characteristics according to its composition and internal functions. Gr. structures ЩО? викликає ЩО?, ЩО? обмежується ДЕ? (У ЧОМУ?), ЩО? поділяється НА ЩО?, ЩО? викликається ЧИМ?, ЩО? характеризується ЧИМ?, ЩО? складається 3 ЧОГО?. Prepositional, Genitive and Instrumental cases of nouns and adjectives. | 6 |
| 10. Medical card of stomatological patient. Using of Cardinal and Ordinal numerals. Arabic numerals, Roman numerals. Gr. structures ЩО? заповнюється ДЕ?, ЩО? заповнюється КИМ? (КОЛИ?), ЩО? використовується ДЛЯ ЧОГО?, ЩО? позначають ЯК? (ЧИМ?), ЩО? використовують ДЛЯ ЧОГО?. Characteristics of object according to its external features. Instrumental Case of the subject of action. Expression of the sequence of action. | 4 |
| 11. Familiarization with the medical card of stomatological patient. Filling in medical card. | 6 |
| *Final test control of module 3* | 2 |
| *Total hours* | 62 |

**TOPICS LECTURE**

**the Ukrainian language for students of the second course   
 dental departments**

**English Department 2012-2013**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **SUBJECT** | **Quantity of hours** | | |
| Med. | Dent. | Pharm. |
| 1. | Place of the Ukrainian language among other Slavic languages. | 2 | 2 | 2 |
| 2. | The notion of literary language. Ukrainian literary language. | 2 | 2 | 2 |
| 3. | Written and oral forms of the Ukrainian language. | 2 | 2 | 2 |
| 4. | Stylistic variations of the Ukrainian language. |  | 2 | 2 |
| 5. | The meaning of word.. Word of concrete and abstract. Polysemy of words in modern Ukrainian. |  | 2 | 2 |
| 6. | Ukrainian language vocabulary. The composition of the modern Ukrainian language in terms of its origin. |  | 2 | 2 |
|  | ***Total*** | 6 | 12 | 12 |

## Topic’s plan

## of lectures “Normal physiology”

**for 2-nd grade English-medium students Dental faculty**

**in ІІІ semestr 2012/2013 ed.years**

|  |  |  |
| --- | --- | --- |
| **№** | Торіс | Lector |
|  | Introduction to physiology. Historical outline of physiology. Methods of physiological investigations. Types of experiment. General principles of bioregulation. Physiological properties of excitable tissues. Excitability. Physiology of nerve fibers. Conduction of nerve impulses. Neuro-muscular transmission. |  |
|  | General physiology of CNS. Structural basis of reflex activity. Methods of investigation of CNS functions. Role of different parts of CNS in control of physiological functions. Morphofunctional characteristic of ANS. Control of autonomic functions. |  |
|  | Humoral control of physiological functions, types (endocrine, paracrine, neurocrine). Mechanisms of hormonal activity (membrane and nuclear reception). Effects of hormonotherapy. |  |
|  | General physiology of sensory systems. Vision, hearing and equilibrium. Neurophysiological basis of pain. Drug analgesia. |  |
|  | Physical and chemical properties of blood. Hemopoesis. Transport, defense and homeostatic functions of blood. Hemostasis. Physiological basis of transfusion of blood. Antigen properties of blood. |  |

**TOPICS OF INDEPENDENT WORK AND ITS CONTROL**

**FOR DENTAL FACULTY STUDENTS**

**MODULE 1. GENERAL PHYSIOLOGY AND HIGH INTEGRATIVE FUNCTIONS**

|  |  |  |  |
| --- | --- | --- | --- |
| **N** | **TOPIC** | **Hours** | **Kind of control** |
| 1 | **Preparation to the practical lessons –** theoretical preparation and practical lessons working up | **10** | Day-to-day supervision on practical lessons |
| 2 | **Independent working up of topics which do not belong to the auditory lesions list:** |  |  |
| 2.1 | Main development and formation stages of physiology as medicine basic science. | **1** | Abstracts or essays |
| 2.2 | The contribution of Ukrainian physiologists into the development of world physiology | **1** | Abstracts or essays |
| 2.3 | Role of interneural plasticity in integrative CNS, ANS functions | **3** | Abstracts or essays |
| 2.4 | The role of salivatory hormones in oral homeostasis and bone metabolism. | **6** |  |
| 2.5 | Active rest and its mechanisms. Physiological basis of sport | **3** | Abstracts or essays |
| 2.6 | Physiological basis of human working activity. Dynamic stereotype in practical aspects of physician activity. | **5** | Abstracts or essays |
| 2.7 | Circadian rhythm: origin, impact on day-light cycle. Chronobiology and human health. | **3** | Abstracts or essays |
| 3 | **Preparation for module** | **3** |  |
|  | **TOTAL** | **35** |  |

### THEMATIC AND CALENDAR SCHEDULE

### OF LECTURES IN BIOCHEMISTRY

### for students of dentistry faculty, English medium, the second year,

III semester, year 2012/2013

|  |  |  |  |
| --- | --- | --- | --- |
| **N** | **Theme of the lecture** | **Date** | **Hours** |
| 1 | Biochemistry as a science. An object and assignments of biochemistry. Methods of biochemical investigation. Enzymes and coenzymes. Regulation of metabolic processes | 20.09 | ***2*** |
| 2 | Metabolism of carbohydrates, its regulation and changes in pathology | 18.10 | ***2*** |
| 3 | Metabolism of lipids, its regulation and changes in pathology | 15.11 | ***2*** |
| **Totally** | | | ***6*** |

## THEMATIC AND CALENDAR PLAN

**OF PRACTICAL LESSONS IN BIOCHEMISTRY**

for students of **dentistry** faculty (English medium)

in the III semester, 2012-2013 year

|  |  |  |  |
| --- | --- | --- | --- |
| **N** | **Topics of lessons** | **Dates** | **Hours** |
| ***MODULE 2. GENERAL PRINCIPLES OF METABOLISM*** | | | |
| 1. | Objectives and assignments of biochemistry. Aims and methods of biochemical investigations. | 3.09 – 7.09 | ***3*** |
| 2. | Physico-chemical properties of enzymes. Determination of enzymatic activity, investigation on mechanisms of enzyme action and on kinetics of enzymatic catalysis. | 10.09–14.09 | ***3*** |
| 3 | Investigation on regulation of enzymatic reactions and mechanisms of enzymopathias appearance. Studies on significance of cofactors and coenzymatic vitamins for catalytic activity of enzymes Medical enzymology. | 17.09–21.09 | ***3*** |
| 4. | Conception of turnover of material and energy. Study on tricarboxylic acid cycle functioning | 24.09–28.09 | ***3*** |
| 5. | Studies on biological oxidation, oxidative phosphorylation and ATP biosynthesis. | 1.10 – 5.10 | ***3*** |
| 6. | Investigation of anaerobic and aerobic oxidation of carbohydrates. | 8.10–12.10 | ***3*** |
| 7 | Studies on biosynthesis and degradation of glycogen. Regulation of glycogen metabolism. Gluconeogenesis as pathway of glucose production. | 15.10–19.10 | ***3*** |
| 8 | Alternative pathways of monosaccharides metabolism.  Studies on mechanisms of metabolic and humoral regulation of carbohydrate metabolism. Diabetes mellitus. | 22.10–26.10 | ***3*** |
| 9 | Studies on degradation and biosynthesis of triacylglycerols and phospholipids. Lipolysis and its regulation.. | 29.10 – 2.11 | ***3*** |
| 10 | β-Oxidation and biosynthesis of fatty acids. Metabolism of fatty acids and ketone bodies. | 5.11–9.11 | ***3*** |
| 11 | Biosynthesis and biotransformation of cholesterol. Studies on disorders of lipid metabolism. | 12.11–16.11 | ***3*** |
| 12 | General pathways of amino acid turnover. Biogenic amines Investigation of ammonia detoxification and urea biosynthesis. | 19.11–23.11 | ***3*** |
| 13 | Studies on special pathways of amino acids metabolism in tissues. | 26.11–30.11 | ***3*** |
| 14 | ***Summary module control № 2*** | ***3.12 – 7.12*** | ***3*** |
| ***MODULE 3.Molecular biology. Biochemistry of hormones and physiological functions*** | | | |
| 15 | Studies of biosynthesis and catabolism of purine and pyrimidine nucleotides. Determination of end products of their metabolism | 10.12–14.12 | ***3*** |
| 16 | Replication of DNA and transcription of RNA. Biosynthesis of proteins in ribosomes. Analysis of mutation mechanisms and DNA reparations. | 17.12–21.12 | ***3*** |
| 17 | The investigation of molecular mechanisms of the effect of hormones of protein and amino acid nature on target cells. | 24.12–28.12 | ***3*** |
| 18 | Investigation of molecular and cellular mechanisms of steroid and thyroid hormones action upon target cells. Humoral regulation of calcium homeostasis. Eicosanoids, general characteristics. | 10.01-11.01 | ***3*** |
| 19 | Investigation of biochemical composition and functions of saliva. | 14.01-18.01 | ***3*** |
| 20 | Investigation of digestion and assimilation of nutritional substances. | 21.01–25.01 | ***3*** |
| ***Totally*** | | | ***60*** |

**TIMETABLE OF LECTURES OF MICROBIOLOGY FOR**

DENTISTRY FACULTY

(autumn semester 2012-2013)

|  |  |  |
| --- | --- | --- |
| **№** | **TOPIC** | **DATE**  **3-5 groups** |
| 1. | History of development of microbiological science. Medical microbiology, its tasks. Systematic and nomenclature of microorganisms. Morphology of bacteria. | 5.09 |
| 2. | Physiology of bacteria. | 19.09 |
| 3. | Normal microflora of oral cavity and its physiological importance. Consept of infection. Microflora of inflammatory process of oral cavity. | 3.10 |
| 4. | Immunity. Non-specific resistance factors of oral cavity. Mechanisms of specific immunity. Allergy. | 17.10 |
| 5. | Antimicrobic drugs. Classification of antibiotics by origin, chemical structure, mechanisms of action. Immunoprophylaxis and immunotherapy. Inflammatory process of oral cavity and its antimicrobial therapy. | 31.10 |

**TIME-TABLE OF THE PRACTICAL CLASES OF MICROBIOLOGY**

### FOR DENTISTRY FACULTY

(autumn semester 2012-2013)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **№** | **T O P I C** | **GROUPS**  **3** | **GROUP**  **4** | **GROUP**  **5** |
| **1** | **2** |
| 1. | Structure, equipment and safety precautions in bacteriological laboratories. The basic groups of microorganisms. Microscopic method of investigation. The basic shapes of bacteria. Simple methods of staining.  **Self-study topic 1.** History and stages of medical microbiology development.  **Self-study topic 2.** The kinds of microscopes: dark-field microscopy, phase- contrast microscopy, fluorescent microscopy, electron microscopy .. | 5.09 | 6.09 | 7.09 |
| 2. | Microscopic method of investigation. Complex methods of staining. Gram’s, Ziehl-Neelsen’s staining. A ultrastructure of bacterial cell.  **Self-study topic 3.** Morphology and structure of actinomycetes, spirichites, mycoplasms and chlamidia.  **Self-study topic 4.** Morphology and structure of fungy and protozoa. | 12.09 | 13.09 | 14.09 |
| 3. | Physiology of microorganisms. Nutrition and respiration of microorganisms. Cultivation of bacteria. Bacteriological method of investigation. Isolation of pure cultures of aerobes from caries dens (the first stage of investigation).  Sterilization and disinfection of dentistry instruments, microbiological control.  **Self-study topic 5.** Methods and means for sterilization of dentistry matherial. | 19.09 | 20.09 | 21.09 |
| 4. | Bacteriological method of investigation. Isolation of pure cultures of aerobes from caries dens (the second stage of investigation).  **Self-study topic 6.** Origin and evolution of microorganisms. Modern classification of microbial world. | 26.09 | 27.09 | 28.09 |
| 5. | Bacteriological method of investigation. Isolation of pure cultures of aerobes from caries dens (the third stage of investigation). Microbiological control in dentistry clinics.  **Self-study topic 7.** Genetic of microorganisms. Tupes of mutability. Peculiarity of genetic material transmission. | 3.10 | 4.10 | 5.10 |
| 6. | Bacteriological method of investigation. Isolation of pure cultures of aerobes from caries dens (the fourth stage of investigation). Identification of pure culture of bacteria. Isolation of pure culture of anaerobes. | 10.10 | 11.10 | 12.10 |
| 7. | Microbiocenosis of human body. Microflora of oral cavity. Microflora of dental plaque. Disbacteriosis of oral cavity. Experimental method of investigation.  Virulence factors of microorganisms and its role in development dentistry diseases.  **Self-study topic 8.** Toxins of microorganisms, its characteristics and mechanism of action. | 17.10 | 18.10 | 19.10 |
| 8. | Mechanisms of resistance of the organism from infection. Factors of nonspecific resistance of the organism. Immune factors of oral cavity. Lysozyme.  **Self-study topic 9.** Main stages of immunology development | 24.10 | 25.10 | 26.10 |
| 9. | Immune system of the organism. Cell and humoral factors. Immunoglobulims of oral cavity.  **Self-study topic 10.** Organs of an immune system. Cells and humoral factors of oral cavity resistance.  **Self-study topic 11**. Immune pathological processes in an oral cavity. | 24.10 | 1.11 | 2.11 |
| 10. | Principal of serological identification of microorganisms and diagnosis of infection diseases. Modern methods of rapid microbiological diagnosis (enzyme-linked immunosorbent assay, immunofluorescence test, polymerase chain reaction).  **Self-study topic 12.** A nature, structure of antibodies and antigens. | 31.10 | 8.11 | 9.11 |
| 11. | Serological diagnosis of infection diseases complement fixation test. Allergy. Methods of diagnosis. Immunopathological process of oral cavity. Estimation of an immune status of oral cavity.  **Self-study topic 13.** Methods ofestimation of an immune status of organism. | 7.11 | 15.11 | 16.11 |
| 12. | Immunoprophylaxis and immunotherapy of infection diseases.  **Self-study topic 14.** Principles of immunocorrection and immunotherapy. Modern immune druds. | 14.11 | 22.11 | 23.11 |
| 13. | Antibiotics and chemical drugs. Basic antimicrobial drugs in dentistry practice.  **Self-study topic 15.** Mechanism of development of resistance of microorganisms to antibiotics. | 21.11 | 29.11 | 30.11 |
| 14. | **Module control No 1.** | 28.11 | 6.12 | 7.12 |
| 15. | Staphylococci. Streptococci. Diseases of an oral cavity and odontogenic processes, caused by grampositive cocci. | 5.12 | 13.12 | 14.12 |
| 16. | Neisseria and other gramnegative bacteria of an oral cavity (moraxella, acinetobacteria, veillonella). | 12.12 | 20.12 | 21.12 |
| 17. | Pathogenic enterobacteria, methods of diagnosis, specific prevention and treatment of an intestinal infectious diseases. Enterobacteria as causative agents of an oral cavity diseases. | 19.12 | 27.12 | 28.12 |
| 18. | Causative agents of essentially dangerous diseases (plaque, cholera, anthrax). | 26.12 | 10.01 | 11.01 |
| 19. | Causative agents of respiratory bacterial infectious diseases. Corynebacteria. Bordetella. Mycobacteria. Diagnostic media and drugs. Vaccines drugs for therapy. | 16.01 | 17.01 | 18.01 |
| 20. | Pathogenic anaerobes. Diagnosis. Drugs for threatment and prevention. Non clostridial anaerobes as causative agents of infectious diseases of teeth and an oral cavity. | 23.01 | 24.01 | 25.01 |

**THE TOPIC PLAN**

**of lectures on common hygiene and ecology for foreign students**

**the II year of dentist faculty on the common hygiene**

|  |  |  |
| --- | --- | --- |
| **№ п/п** | **Theme of lecture** | **h** |
| 1. | Entering is into a hygiene and ecology. Hygienical value of constituents of biosphere, sun radiation, climate, weather. Biotethics aspects of influence of environment are on a man. | 2 |
| 2. | Hygiene of the inhabited places, it biotethics aspects. Hygiene of water and water-supply. Influence of quality of drinking-water is on the general and stomatological health of population. | 2 |
| 3. | Feed and health of population. Bases of rational feed. Influence of feed on the general and stomatological health of population. Biotsafety of feed. | 2 |
| 4. | Hygienical requirements to medicinal-preventive establishments, including stomatological type. Hygiene of labour of doctors-stomatologies, dental technicians. Biotsafety and biotethics of labour of doctors-stomatologies. . | 2 |
| 5. | Radiation hygiene. Ionizing a radiation as a factor of environment and production harmfulness. Protiradiaciyniy defence is in medical establishments, including stomatological type. Biotethics aspects of influence of radiation factor are on a man. | 2 |
| 6 | ***TOGETHER:*** | 10 |

**THE TOPIC PLAN**

**of self educational works on common hygiene and ecology for foreign students**

**the II year of dentist faculty on the common hygiene department on (autumn) semester**

|  |  |  |
| --- | --- | --- |
| **№ з.п.** | **THEME** | **hours** |
| 1. | **Preparation to practical employments is** theoretical preparation and working of practical abilities | 19 |
|  |  |  |
| 2 |
|  | Self educational works |  |
| 1 | Method of hygienical estimation of climate-weather terms and their influence on a health of man. Acclimatization. Sanitary guard and biotsafety of atmospheric air. | 2 |
| 2 | Influence of muddy atmospheric air, water and feed on stomatological morbidity of population. Alimentary prophylaxis of basic stomatological diseases. | 2 |
| 3 | Hygienical problems of feed are in the conditions of muddy environment and harmful productions. | 2 |
| 4 | Physiological-hygienic value of basic nutrients of food ration. Composition and properties of food products. | 2 |
| 5 | Hygienical bases of organization of the sanitary epidemiological mode in stomatological medicinal-preventive establishments. | 2 |
| 6 | Features of the complex and combined action of harmful matters combined, are on the organism of doctor-stomatology, dental technician. There is a method of investigation of cases of professional diseases and poisonings in-process doctor-stomatology. | 2 |
| 7 | Natural and anthropogenic catastrophes. Sanitary-hygenic measures are in the cell of extraordinary situations. Medical and ecological consequences of catastrophe are on Chernobyl AES. | 1 |
| 3 | Individual work | 4 |
| 4. | Preparation is to final control of mastering of the module | 4 |
| Together | | 40 |

**Plans of lectures, practical lessons, out of class work and individual work in discipline „Preclinical course of Therapeutic Dentistry” for 2-rd year**

**English-medium students (3-rd term)**

**Credit-Module System**

**LECTURES (6 hours)**

|  |  |  |  |
| --- | --- | --- | --- |
| **№** | **Topic of the lecture** | **Hours** | **Date** |
| 1. | Historical steps in the development of Therapeutic Dentistry. Ergonomics in Dentistry. The main Principles and Peculiarities of Caries Cavities Preparations. Dental instruments. Modern methods in the preparation of carious cavities. | 2 | Ripetska O.  13.09 |
| 2. | Dental materials. General demands. Main characteristics. Classification. Indications for use. | 2 | Ripetska O.  11.10 |
| 3. | Enamel-dentin adhesive systems. Composition. Properties. Generations of adhesive systems, their characteristic. | 2 | Ripetska O.  08.11 |

**Practical lessons**

**Module 1: The structure of the teeth and preparation of carious cavities − 2,3 credits**

**(69 hours)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **№** | **Topic** | **Pract.**  **lessons** | **Out of class work** | **Individual work** |
| 1. | Therapeutic dentistry as the main dental discipline, ports of therapeutic dentistry. Ukrainian scientists, their role in the development of dentistry. The aim and tasks of preclinical course of dentistry. | 2 |  | Review of scientific and professional literature, preparation of the written work and carrying on scientific investigation |
| 2. | Tooth structure. Histology of the enamel, dentin, and cementum. Dental formula. | 2 | 1 |
| 3. | Tooth structure. Topography and histology of tooth cementum and dentin. | 2 | 1 |
| 4. | The structure of the pulp and pericementum. Age changes. The periodontium and its functions. | 2 | 1 |
| 5. | The saliva and oral liquid: the composition, properties, functions. | 2 | 1 |
| 6. | Dental formula. Signs of the teeth. Clinical-anatomical peculiarities of the permanent incisors of the upper and lower jaws. | 2 | 1 |
| 7. | Clinical-anatomical peculiarities of canines. | 2 | 1 |
| 8. | Clinical-anatomical peculiarities of premolars of the upper and lower jaws. | 2 | 1 |
| 9. | Clinical-anatomical peculiarities of the molars of upper and lower jaws. | 2 | 1 |
| 10. | The organization and equipment of dental room. Dental units, handpieces, rules of exploitation. Security rules. Ergonomics in dentistry. | 2 | 1 |
| 11. | Dental instruments. The purpose of use of dental instruments. Cutting instruments. Rules of sterilization. | 2 | 1 |
| 12. | The ways of spreading of carious process in tooth hard tissues in different surfaces. | 2 | 1 |
| 13. | Classification of carious cavities according to Black. Principles and regimes of classical preparation. | 2 | 1 |
| 14. | Peculiarities of the preparation of carious cavities class I (Black classification). | 2 | 1 |
| 15. | Peculiarities of the preparation of carious cavities class V (Black classification). | 2 | 1 |
| 16. | Peculiarities of the preparation of carious cavities class II (Black classification). | 2 | 1 |
| 17. | Peculiarities of the preparation of carious cavities class III (Black classification). | 2 | 1 |
| 18. | Peculiarities of the preparation of carious cavities class IV (Black classification). | 2 | 1 |
| 19. | Methods of preparation of carious cavities for modern dental materials: techniques of the preparation (low invasive), a-traumatic treatment restoration (non-invasive), tunnel preparation, etc. | 2 | 1+1 |
| 20. | **Summary control 1.** | **2** | **2** |  |
|  | **Summary hours** | **40** | **23** |  |

**OUT OF CLASS WORK (23 hours)**

|  |  |  |  |
| --- | --- | --- | --- |
| **№** | **Topic** | **Hours** | **Type of control** |
| 1. | Preparation for the practical lessons − theoretical part. | 13 | Control at practical lessons |
| 2. | Elaboration of practical skills:   * Anatomical –physiological peculiarities of tooth hard tissues. Occlusal surface of upper premolars and molars. (drawing). * Occlusal surface of lower premolars and molars. (drawing). * To produce two models of 1-st lower premolar crowns and on one of them prepare cavity class I according to Black classification. * To produce two models of 1-st lower premolar crowns and on one of them prepare cavity class V according to Black classification. * To produce two models of 2-nd lower molar crowns and on one of them prepare cavity class II according to Black classification. * To produce two models of upper canine crowns and on one of them prepare cavity class III according to Black classification. * To produce two models of 1-st upper incisor crowns and on one of them prepare cavity class IV according to Black classification. | 1  1  1  1  1  1  1 |
| 3. | Preparation for the summary module control. | 3 | Summary module control |

**INDIVIDUAL WORK (6 points)**

|  |  |  |
| --- | --- | --- |
| **№** | **Topic** | **Points** |
| 1. | Elaborate non-invasive technique of the preparation of carious cavities. | 2 |
| 2. | Elaborate low-invasive technique of the preparation of carious cavities. | 2 |
| 3. | Elaborate tunnel method of the preparation of control carious cavity. | 2 |

**Plan of lectures on Medical Informatics**

**for the 2-nd year students of Medical and Dentistry Faculties**

**in the 2012-2013 academic year**

|  |  |  |
| --- | --- | --- |
| No. | Topic | Hours |
| **Module 1** | | |
| 1. | Basic concepts of medical informatics. | 2 |
| 2. | Fundamentals of statistical methods of medical and biological data processing. | 2 |
| **Module 2** | | |
| 3. | Clinical decision support systems. Expert systems. | 2 |
| 4 | Modelling in biology and medicine. | 2 |
| 5 | Methodology of the evidence-based medicine | 2 |

**Plan of practical lessons on Medical Informatics**

**for the 2-nd year students of Medical and Dentistry Faculties**

**in the 2012-2013 academic year**

|  |  |  |
| --- | --- | --- |
| No. | Topic | Hours |
| **Module 1** | | |
| 1. | Introduction and structure of medical informatics. | 2 |
| 2. | Information transfer. Network technologies. | 3 |
| 3. | Computer data: data types, processing and control. | 3 |
| 4. | Coding and classification. | 3 |
| 5. | Visualization of medical and biological data. Processing and analyzing of medical images. Types of biosignals. Methods of biosignals processing. | 3 |
| 6. | Methods of biostatistics. | 3 |
| 7. | Tests. | 3 |
| **Module 2** | | |
| 8. | Formalization and algorithmization of medical tasks. | 3 |
| 9. | Formal logic in solving the tasks of diagnostics, treatment and preventive health care. | 3 |
| 10. | Decision support systems. Strategies of receiving the medical knowledge. | 3 |
| 11. | Clinical decision support systems. Methods of forecasting. Modeling of the decision support system. | 3 |
| 12. | Evidence-based medicine. | 3 |
| 13. | Types of information systems in health care. | 3 |
| 14. | Hospital information systems and their development. | 3 |
| 15. | Individual health records. Structurization of electronic health record content. Ethical and legal principles of information control in the health care system. | 3 |
| 16. | Information resources of the health care system. | 3 |
| 17. | Tests. | 3 |

**Plan of self-independent work on Medical Informatics**

**for the 2-nd year students of Medical and Dentistry Faculties**

**in the 2012-2013 academic year**

|  |  |  |
| --- | --- | --- |
| No. | Topic | Hours |
| **Module 1** | | |
| 1. | Representation of information searching, sorting and formalizing skills. | 4 |
| 2. | To master the creation of complex document. | 3 |
| 3. | To master the processing/presenting of medical and biological data with the help of text/table/presentation processors. | 2 |
| 4. | To interpret the functions of different elements of computer networks. The current state of telecommunications in Ukraine | 5 |
| 5. | To master the easiest Web-design techniques. | 2 |
| 6. | To interpret the modern tendencies of the development of computer and network technologies of both general and medical designation. | 2 |
| 7. | To interpret the principles of applying statistical criteria to medical and biological data processing. | 3 |
| **Module 2** | | |
| 1. | To interpret the strategies of medical knowledge acquisition. | 4 |
| 2. | To master the application of the formal logic in solving the tasks of diagnostics, treatment and preventive health care. | 3 |
| 3. | To interpret the modern methods of decision making in medicine. | 1 |
| 4. | To master the modeling of the decision support systems. | 4 |
| 5. | To interpret the principles of the evidence-based medicine. | 2 |
| 6. | To interpret the types of hospital information systems. | 1 |
| 7. | Representation of searching techniques within information web-resources of the health care system. | 3 |
| 8. | To interpret the modern architecture of decision making support. | 2 |
| 9. | To interpret the logic operations and logic expressions. | 4 |

**THEMATIC-CALENDAR PLAN**

**of lectures and seminars on Philosophy**

**for the second year foreign students of Faculty of Dentistry**

**at the Chair of Philosophy and Economics**

**during the first semester of 2012-2013 educational year**

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| **#** | **TOPICS** | **HOURS** | **LECTURES** | **SEMINARS** | |
| **Groups**  **3-4** | **Group**  **5** |
| **1.** | Philosophy and Worldview | **2/2** | 03.09 | 04.09 | 06.09 |
| **2.** | Origins and Historical Development of Philosophy: Ancient East, Ancient Greece, Middle Ages and Renaissance | **2/4** | 17.09 | 11.09  18.09 | 13.09  20.09 |
| **3.** | Early Modern Philosophy and Classical German Philosophy | **2/4** | 01.10 | 25.09  02.10 | 27.09  04.10 |
| **4.** | Contemporary Western Philosophy | **2/2** | 15.10 | 09.10 | 11.10 |
| **5.** | Historical Development of Ukrainian Philosophy | **2/2** | 29.10 | 16.10 | 18.10 |
| **6.** | Ontology: Problem of Being and Consciousness | **2/4** | 12.11 | 23.10  30.10 | 25.10  01.11 |
| **7.** | Philosophical Anthropology | **2/2** | 26.11 | 06.11 | 08.11 |
| **8.** | Gnoseology:Problem of Cognition, Truth and Scientific Knowledge | **2/4** | 10.12 | 13.11  20.11 | 15.11  22.11 |
| **9.** | Social Philosophy and Philosophy of Culture | **2/2** | 24.12 | 27.11 | 29.11 |
| **10.** | Philosophy of history | **2/2** | 14.01 | 04.12 | 06.12 |
| **11.** | **Control test** | **-/2** |  | 11.12 | 13.12 |
| **Total amount of hours** | | **20/30** |  | | |