HYGIENE - CONSPECTUS - VI COURSE

- 1. Introduction in hygiene. Hygiene as a main prophylactic branch in medicine, Main components and relation with the other sciences.
- 2. Global ecological problems.
- 3. Air composition and air pollution. Sampling for determination of air pollution. Monitoring of air pollution.
- 4. Health effects of air pollution. Prevention and control of air pollution.
- 5.Dust (Particulates). Critical exposure factors. Biological reactions.
- 6. Hygienic characteristics of physical factors of the atmosphere. Climate and weather.
- 7. General approaches to measurement of atmospheric pressure, air temperature, humidity and air velocity.
- 8. Thermal comfort. Physiological methods for thermal comfort evaluation. Health effects of unfavorable thermal environment
- 9.Heat stress indices developed through subjective and objective testing of workers. Preventive measures and control of heat stress.
- 10. Hygienic requirement of water supply. Surveillance of drinking water quality.
- 11. Water sampling for physical and chemical examination and for bacteriological examination.
- 12. Purification of water. Disinfection of water.
- 13. Soil pollution. Health effect of the soil pollution.
- 14. Urbanisation hygienic problems. Residential environment. Criteria for healthful housing.
- 15. Housing standards. Requirements and criteria of good lighting; measurement of lighting. Ventilation types of ventilation and standards.
- 16. Hospital hygiene. Hygienic requirements to hospitals (clinics) with high epidemiological risk.
- 17. Prevention of hospital infections. Characteristics of the medical work.
- 18. Ionizing radiation. Radioprotection.
- 19. Sick building syndrome.
- 20. Healthful nutrition. Nutrition among different groups. Nutrition in children and adolescents. Nutrition in pregnancy and lactation. Nutritional requirements
- 21. Digestion and food absorption.
- 22. Macronutrients: Carbohydrates, Proteins, and Lipids. Requirements, functions, sources.
- 23. Micronutrients: Vitamins. Minerals. Requirements, functions, sources.
- 24. Food Surveillance. Foods of vegetable origin. Cereals. Pulses (legumes). Nuts. Vegetables. Fruits.
- 25. Food Surveillance. Foods of animal origin. Milk. Meat. Eggs. Fish.
- 26. Dietary Assessment of the Individual. Determination of the total energy expenditure, BMI and nutrients requirement.
- 27. Assessment of Nutritional Status. Nutritional Assessment by Anthrometric and Physiological Methods.
- 28. Assessment of Nutritional Status. Nutritional Assessment by Clinical, Anthrometric and Biochemical Methods.
- 29. Restaurants. Sanitation of Eating Places and Foodstore. Hygiene. Security.
- 30. Foodborne diseases. Prevention of the Bacterial Diseases.
- 31. Food Preservation. Low-temperature Preservation. Thermal Processing. Fermentation and Pickling. Chemical Preservation.
- 32. Diet and nutrition in disease. Nutrition Therapy for Diabetes, hepatitis.
- 33. Nutrition Therapy for Gastrointestinal Diseases gastritis, ulcer, colitis, pancreatitis, cholelythiasis.
- 34. Nutrition Therapy for Cardiovascular Disease.
- 35. Nutrition Therapy for kidney diseases nephrolithiasis
- 36. Food pollution. Pesticides. Heavy metals.
- 37. Food connected diseases. Obesity. Anaemia, Hypovitaminosises. Malnutrition.
- 38. Functional foods. Food Additives.
- 39. Occupational medicine, unfavourable factors of working condition. Occupational diseases. Work physiology.
- 40. Occupational medicine. Physical factors noise, infra and ultra sound, vibration, atmospheric pressure.
- 41. Occupational medicine. Chemical factors in working conditions prophylactic measures. Hygienic characteristic of industrial and agriculture work.
- 42. Work physiology capacity for physical work. Energy cost of work. Work classification. Methods for matching people and their work. Fatigue, Work/rest cycles.

- 43. Industrial Toxicology. Role of the physical and chemical properties of the substances. Action of toxic substances. Basis for workplace standards. Pesticides. Occupational and environmental pesticide exposure. Prevention.
- 44.Industrial hygiene. Recognition, evaluation and control of occupational health hazards. Inspection of the workplace visit to plant.
- 45. Methods of physical and neurological assessment of children and adolescence.
- 46. Acceleration. Healthful knowledge.
- 47. Hygienic assessment of school program.
- 48. Main diseases in school age.
- 49. Geriatrics. Personal hygiene, lifestyle and nutrition of the elderly.
- 50. Hygienic norms, healthful way of live. Health risk assessment.

CONSPECTUS OF INFECTIOUS DISEASES - VI COURSE

- 1. Microbiological diagnosis of the infectious diseases
- 2. Etiological treatment of the bacterial diseases
- 3. Typhoid fever
- 4. Salmonellosis
- 5. Food poisoning
- 6. Botulism
- 7. Shigellosis
- 8. Escherichia coli infections
- 9. Cholera
- 10. Viral gastroenteritis
- 11. Brucellosis
- 12. Leptospirosis
- 13. Viral hepatitis A and E
- 14. Viral hepatitis B and D
- 15. Viral hepatitis C
- 16. Scarlet fever
- 17. Measles /Rubeola/
- 18. Rubella
- 19. Varicella
- 20. Diphtheria
- 21. Infectious mononucleosis
- 22. Influenza and other acute viral respiratory diseases
- 23. Pertussis
- 24. Mumps
- 25. Bacterial meningitis
- 26. Viral meningitis and meningoencephalitis
- 27. Infections caused by enteroviruses
- 28. Poliomyelitis
- 29. Legione llos is
- 30. Mediterranean spotted fever and Q fever
- 31. Lime disease
- 32. Crimean Congo hemorrhagic fever
- 33. Hemorrhagic fever with renal syndrome
- 34. Plague
- 35. Tularemia
- 36. Anthrax
- 37. Tétanos
- 38. Rabies
- 39. HIV infection and AIDS

CONSPECTUS OF EPIDEMIOLOGY – VI COURSE

- 1. Epidemic process definition, constituents, forms. Epidemic process definition, links, driving forces, types of intensity. Epidemic center.
- 2. Infectious process the biological base of the epidemic process. Characteristics -degree of epidemiological significance of the forms of infectious process.
- 3. Source (origin) of infection: the patient contagious period, epidemic importance. Zoonoses.
- 4. Source (origin) of infection: the carrier of infection, types of infections, duration, importance. Zoonoses.
- 5. Mode of transmission of infection phases, types. Vehicles of transmission, Routes of transmission of infection. Classification of infectious diseases.
- 6. Vehicles of the transmission of infection water, food objects in the immediate environment, soil and air.
- 7. Environmental factor- seasons and cycles of the infectious disease.
- 8. Social factor- types, ways of influence, significance.
- 9. Susceptibility of the population.
- 10. Specific immunoprophylaxis. Types of vaccines. Methods of application. Post-vaccination reactions and complications. Organization of immunizations
- 11. Immunization Schedule of Bulgaria.
- 12. Types of epidemics- air borne infections, arthropod- born infection, vehicles of transmission of infection, vehicle born infections.water, milk and food as.
- 13. Epidemiological investigation aims, stages, ways of carrying out, epidemiological analysis, epidemiological prognosis.
- 14. General prophylaxis and control measures in the epidemic center.
- 15. Measures in the epidemic centre to the patient, to the environment. Diagnosis of epidemiological situation epidemiological markers.
- 16. Disinfection and sterilization definition, methods and characteristics of agents used.
- 17. Desinsection- definition, methods and characteristics of agents used.
- 18. Derattization definition, methods and characteristics of agents used.
- 19. Noscomical infections.
- 20. Eradication and elimination of infectious diseases
- 21. Epidemiology and prevention of typhoid fever.
- 22. Epidemiology and prevention of shigellosis.
- 23. Epidemiology and prevention of viral hepatitis A and E.
- 24. Epidemiology and prevention of mumps
- 25. Epidemiology and prevention of measels.
- 26. Epidemiology and prevention of meningococcal infections. Meningococcal meningitis.
- 27. Epidemiology and prevention of streptococcal infection. Scarlet fever.
- 28. Epidemiology and prevention of rubella.
- 29. Epidemiology and prevention of pertussis
- 30. Epidemiology and prevention of Influenza and other acute viral respiratory diseases.
- 31. Epidemiology and prevention of diphtheria.
- 32. Epidemiology and prevention of viral hepatitis B, D and C.
- 33. Epidemiology and prevention of HIV infection and AIDS
- 34. Epidemiology and prevention of viral hemorrhagic fevers Crimean-Congo and haemorrhagic fever with renal syndrome.
- 35. Epidemiology and prevention of Mediterranean spotted fever
- 36. Epidemiology and prevention of plague, tularemia.
- 37. Epidemiology and prevention of Lime disease.
- 38. Epidemiology and prevention of rabies.
- 39. Epidemiology and prevention of tetanus.
- 40. Epidemiology and prevention of antrax.
- 41. Quarantine measures to combat infectious diseases. International Health Regulations.

CONSPECTUS OF SOCIAL MEDICINE - VI COURSE

- 1. Social medicine as a science. Public Health.
- 2. Social factors of health and disease. Socio-medical approach to health and disease.
- 3. Sociological methods in Medicine and health care.

- 4. Measuring disease frequency. Comparison of risks.
- 5. Analytical epidemiological studies.
- 6. Experimental epidemiological studies. Evidence based Medicine.
- 7. Disease prevention. Screening.
- 8. Health promotion.
- 9. Health culture and health education.
- 10. Demographic approach to population health. Demographic statics. Migration and health.
- 11. Population dynamics. Fertility and mortality.
- 12. Infant mortality, Under-5 mortality and Life expectancy.
- 13. Morbidity as a measure of population health.
- 14. Major diseases. DALYs. Major risk factors for chronic non-communicable diseases.
- 15. International health cooperation. International organizations, strategies and programs in the field of health.
- 16. Health as a social system. Health services.
- 17. Health legislation. Basic Health Laws Health Act, Health Insurance Act, Health Care Facilities Act.
- 18. Main types of healthcare systems.
- 19. Health policy. Priorities of health policy in developed countries.
- 20. Organization, current status and trends of primary health care.
- 21. Organization, current status and trends of hospital care.
- 22. Organization, current state and trends of emergency care.
- 23. Health and health care for mothers and children. National programs for maternal and child health.
- 24. Health and health care for the elderly.
- 25. Medical expertise of working ability.