

Hygiene

Five - year course

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Epidemiology

- Populations and considering illness in populations
- Use of routinely available data in epidemiology
- Measures of disease
- Direct and indirect standardisation, years of life lost, life expectancy and DALYS
- Absolute and relative measures of risk
- Causality, bias and confounding
- Study design including cross-sectional, case control, cohort, clinical trials, ecological studies
- Evidence based medicine
- Systematic review, meta-analysis, guidelines

Disease Prevention

- Targeted and population approaches to disease prevention/screening
- Prevention paradox
- Primordial, primary, secondary, tertiary and quaternary prevention

Screening

- Principles, methods and applications of screening; sensitivity, specificity, positive and negative predictive values
- Ethical and economic aspects of screening
- Planning, operation and evaluation of screening programmes
- Evidence for widely implemented screening programmes

Health protection

- Surveillance and methods of control
- Investigation of outbreaks
- Organisation of infection control; elementary molecular biology as related to microbiology
- Understanding of non-communicable, environmental and chemical hazards
- International aspects of communicable disease control

Vaccinology

- Principle of vaccination
- General recommendations on immunization
- Immunization strategies
- Vaccine safety
- Vaccine administration

Epidemiology and management of common and important infectious diseases

- Diphtheria

- Haemophilus Influenzae
- Hepatitis B
- Hepatitis A
- Hepatitis C
- HIV
- Human Papillomavirus
- Influenza
- Legionella
- Measles
- Meningococcal diseases
- Mumps
- Pertussis
- Pneumococcal diseases
- Poliomyelitis
- Rotavirus
- Rubella
- Tetanus
- Tuberculosis
- Varicella

Hospital management

- Hospital hygiene: disinfection, hand hygiene, biomedical waste
- Infection control and prevention of health-care associated infection
- Principles of risk management

Food safety

- Principal of food safety
- Foodborne intoxication
- Foodborne infections: Salmonellosis, Botulism, Staphylococcus aureus, Clostridium perfringens, Bacillus cereus, Campylobacter jejuni
- HACCP

Epidemiology and prevention of non-communicable disease

- Cardiovascular diseases
- Cancers
- Obesity and diabetes
- Chronic respiratory diseases
- Health disorders related to indoor and outdoor air pollution
- Active aging

Travel medicine

- Burden of travel related diseases
- Travel diarrhoea
- Vector-borne diseases
- General recommendation about the prevention of malaria
- Vaccinations recommended for international travellers
- Heat and cold related illness

Migrants health

Principles of international health organization

Environmental health

- Water hygiene
- Waste management
- Air pollution and management

Recommended textbook

Johan Giesecke. Modern Infectious Disease Epidemiology, Second Edition. Arnold
Charles Guest, Walter Ricciardi, Ichiro Kawachi, and Iain Lang. Oxford Handbook of Public Health Practice. Third Edition. Oxford University Press

Professor workplace

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Professor contacts

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Final examination

Oral exam