



## **SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)**

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade(3.58/4)| Awarded Category- 1 by UGC

Founder: Prof. Dr. S. B. Mujumdar, M.Sc.,Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

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### **The Syllabus of Healthcare Management and Public Health**

#### **Unit 1: Introduction to Public Health**

Evolution of Public Health. Important Public Health Acts, Health problems of developed and developing countries, Health problems in India, Environment, and Health.

#### **Unit 2: Basic Epidemiology**

Definition and Concepts of Epidemiology, Concepts of Health and Disease.

Role of Genetics in Health and Disease, Levels of Prevention, Types of Epidemiology, Uses of Epidemiology.

#### **Unit 3: Health Systems in India**

Health planning in India including various committees and National Health Policy and Health Goals set from time to time. Organized sector with reference to Centre, State, District, and Block level structures and local bodies and Panchayati Raj Organisation and functions of community health centers and Primary Health Centres (PHCs).

Health Manpower, Primary Health care, and concept, Alternative systems of medicine, like Ayurveda, Homeopathy, etc. Holistic Approach

Non-Governmental Organisations (NGOs) and Private Voluntary Organisations (PVOs). Unorganized Sector.

#### **Unit 4: Population Indicators**

Definition, scope, and evolution. Problems of Population growth, Birthrates, death rates, fertility rates, age-specific mortality rates, MMR, CPR, etc. Approaches and methods of contraception, Medical Termination of Pregnancy.

#### **Unit 5: Nutrition and Communicable & Non-communicable diseases** Major nutritional problems, etiology, manifestations, and prevention.

Family Welfare and Planning, Reproductive and Child health- Components of RCH care, Need and package of services under RCH Programme.

Communicable and Non-communicable diseases- Epidemiology, Etiology, Pathogenesis, Prevention and Control of Communicable Diseases- Malaria, Cholera, Tuberculosis, Leprosy, Diarrhoea, ARI, Poliomyelitis, Viral Hepatitis, Measles, Dengue, Rabies, AIDS, etc.

Non-communicable diseases- coronary heart disease, hypertension, diabetes mellitus, cancers, etc.



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### **Unit 6: Introduction to Management**

The evolution of Management, Definition, and importance of Management, Different schools of Management thought- classical school, Management Sciences School, Behavioral School,

Human Relation School, Operational approach, system approach and contingency approach to Management. Hospital Planning, Organizing, Staffing, directing and controlling.

### **Unit 7: Hospital Operation Management**

Epidemiological basis for healthcare management. Management development-towards development of professional management of Indian Hospitals. Management of Indian Hospitals- challenges & strategies. Modern Techniques of hospital management. Operation concept- use of models. Health services research & formalized managerial methods.

### **Unit 8: Hospital Operational Management**

Management of Quality Assured services of professional service units of hospitals. Quality control mechanisms.

### **Unit 9: Outpatient & In-Patient Services in the Following Fields (Basic knowledge only)**

Radiotherapy, Nuclear medicine, surgical units, and OT Medical units, G & Obs. units & LR. Pediatric, neonatal units, Critical care units, Physical Medicine & Rehabilitation. Skin, Eye, ENT, Neurology, Dental, Gastroenterology, Endoscopy, Pulmonology, Cardiology, Cath lab, Nephrology & Dialysis, Urology, Orthopedics, Transplant units, Burn Unit.

### **Unit 10: Medical Record Science**

Definition and types of medical record, Importance of medical record, Flow chart of function, Statutory requirements of maintenance, coding, indexing and filing, Computerization of record, Report and returns by the record department, Statistical information and ICD.

### **Unit 11: Inventory Control & Purchase Management**

Inventory Control & Purchase Management-meaning & significance. Purchasing & procurement- Principles of sourcing, purchase methods & procedures, legal aspects of purchasing. Reference to Contract Act, Sale of Goods Act, Drug Control Act in respect to purchase activities. Import substitution.

Quality Control & quality management- Principles & methods.

Principles of storage & stores accounting- types of storage care & preservation of materials & equipment in inventory control.

Distribution management (Logistics Management) - distribution of materials to various departments & auxiliary services.



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Exceptional management needs in Healthcare Units- Management of Blood Bank, Donated Organs, Morgues, and Dispensaries.

### **Unit-12 Research Methodology and Biostatistics:**

Research Methodology- Types of research, Types of research designs, Qualitative and quantitative research, applied research, Sampling methods, and Preparation of a research proposal.

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Basic statistics- Measures of central tendencies, dispersion, Uses of graphs and tables, Software in statistical analysis, Probability, Types of errors in statistics, Tests of significance, and Sample Size.