Institute of Management Studies,
Devi Ahilya Vishwavidyalaya, Indore
MBA (Hospital Administration)) MS6B 5 Yrs

SEMESTER III

INDIAN CULTURE AND FREEDOM STRUGGLE

Objective: The Objective if the course is to make students well aware of Indian Culture and Freedom Struggle

Examinations

The faculty member will award marks out of a maximum of 40 marks for the internal performance of the Student. The semester examination will be worth 60 marks. The Students are required to attempt 5 Question out of 7 Questions. All Questions carry equal Marks.

Course content :

1. Indian Art

Meaning of Art, Features of Indian Art.

Elementary Knowledge of Paintings, Music, Dancing, Sculpture, Archaeology,

Iconography and Other Social Arts.

2. Indian Literature

Ancient Indian Literature

Elementary Knowledge of Vedic Literature, Mahabharata, Ramayan and Other

Main Granthas.

(iii) Indian Freedom Struggle

Freedom Struggle of 1857, National Consciousness, Non-Cooperation Movement.

Civil Disobedient Movement, Quit India Movement.

Contribution of Revolutionaries in Freedom Struggle.

(iv) Indian Constitution

Introduction, Main features of Constitution, Fundamental Rights, Fundamental

Duties.

Text Book : English Language and Indian Cultue : Published by M.P. Hindi Granth Academy, Bhopal.

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SEMESTER III

BASICS OF COMMUNITY MEDICINE

Course Objectives: The objectives of the course are to enable students to learn and appreciate the significance of preventive and social medicine, necessary for hospital administrators.

Examinations

The faculty member will award marks out of a maximum of 40 marks for the internal performance of the Student. The semester examination will be worth 60 marks. The Students are required to attempt 5 Question out of 7 Questions. All Questions carry equal Marks.

Course Content:

Evolution of Medicine, Community medicine and Public Health.
Levels of Prevention and Intervention..
Modes of Transmission of diseases - communicable
diseases Principles of Epidemiology
Waterborne Diseases. Typhoid, Cholera, , Amoebiasis.
Control and Prevention of water borne Diseases.
Droplet Infections (air borne) - Mode of spread and control.
Tuberculosis and National TB control Programme RNTCP
Viral diseases Chickenpox and Herpes zoster, Measles, Poliomyelitis ,Viral Hepatitis ***Diseases Transmitted through vectors and their control*** Malaria and Modified Malaria control Programme.
Filaria and Filaria control Programme..
Diseases transmitted through contact.
Leprosy - Leprosy Eradication Programme.
Sexually transmitted diseases - Transmission and Control.
Syphilis, Gonorrhea, LGV, Chancroid, Treatment and
control. AIDS, Hepatitis B, Trachoma
Nosocomial infections - hospital acquired infections.
Disposal of waste..
Non communicable Diseases Hypertension, Heart Disease, Diabetes
mellitus, Cancer, Accidents
Family Welfare Services. Population Control, Reproductive & Child Health Program, ICDS concept and need
Misc. Tetanus

Text Reading:

K. Park, "Text Book of Preventive and Social Medicine", XVII th Edition.

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SEMESTER III

INTRODUCTION TO PHARMACOLOGY

Objectives For proper selection of drugs, it is essential to have a basic knowledge about the disease and the drugs available for its treatment. The series of lectures will provide the student, basic knowledge about the drugs used for the treatment of various diseases, commonly encountered in clinical practice.

Examinations

The faculty member will award marks out of a maximum of 40 marks for the internal performance of the Student. The semester examination will be worth 60 marks. The Students are required to attempt 5 Question out of 7 Questions. All Questions carry equal Marks.

Course Contents:

The Lectures will include:

This knowledge is expected to prepare the student in such a way that he can participate in discussions involving choice of drugs formation of drug policy for hospitals, cost effective and cost benefit analysis

1) GENERAL PHARMACOLOGY

Drug-Definition, Sources, Nomenclature, Drug laws, sources of Drug information.
Dosage forms of drugs, Routes of drug administration.
Drug absorption, Distribution, Half life of drugs,
Bio-availability, Fixed dose combinations.
Drug poisoning and its management

2) AUTONOMIC NERVOUS SYSTEM

Cholinomimetic drugs, Sympathomimetic Drugs, Antimuscarinic agents, Sympathetic blocking drugs, neuromuscular blocking agents

3) CENTRAL NERVOUS SYSTEM

General anesthetics, Sedatives and Hypnotics, Antiepileptics, Analgesics- Narcotic and Nonsteroidal antinflammatory agents.

4) GASTROINTESTINAL SYSTEM

Acid-Peptic diseases, Antiemetics, Purgatives, Drug Therapy of diarrhea.

5) RESPIRATORY SYSTEM

Drug therapy of cough, Bronchial asthma.

6) CARDIVOASCULAR SYSTEM AND BLOOD

Drug treatment of Angina pectoris, Hypertension, Shock., Anticoagulants, Thrombolytic agents, Fibrinolytic agents.

7) GENITO URINARY SYSTEM ---Diuretics, Drugs acting on Uterus

8) HORMONES -- Thyroid and Antithyroid drugs Corticosteroids , Antidiabetic drugs.

9) CHEMOTHERAPEUTIC AGENTS

general principles, Sulfonamides, Penicillins, Cephalosporins, Fluroquinolones, Macrolides, Chloramphenicol, Antifungal agents, Antiviral agents., anticancer drugs and immunosuppressives.

Text Reading :

Pharamcology and Pharamcotherapeutics R.S.Satoskar, S.D. Popular PrakasBhandarkar, S.S.Ainapure, Goodman and Gillman's pharmacology.

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SEMESTER III

INTRODUCTION TO ECONOMICS

Course Objectives: The objectives of the course are to acquaint the students with the basic knowledge and develop awareness about Macro Economics and Economic Environment.

Examinations

The faculty member will award marks out of a maximum of 40 marks for the internal performance of the Student. The semester examination will be worth 60 marks. The Students are required to attempt 5 Question out of 7 Questions. All Questions carry equal Marks.

Course Content

Macro Economics -Theory of income and employment. Importance of Macro Economics, Utility and limitations of Macro Economics analysis. National Income Accounting, Method of computing National Income, Problems in computing National Income

Theory of employment - Classical theory of employment, Keynesian theory of employment, Determination of effective demand, Aggregate supply and demand price, Equilibrium level of consumption, Keynes law of consumption , Post Keynesian's development.

Investment - Meaning, types, Factors affecting Investment marginal efficiency of capital.

Business cycles - Meaning, Characteristics of trade cycles, Keynes theory

Monetary and fiscal policies: Monetary policy, Measures of money stock, Monetary policy of money supply, Instruments of monetary policy

Fiscal Policy: The union budget, State budget, Finances of the Union and State. Public spending in Health Sector.

Money and Banking : Money, its functions, Supply, Effect of changes in value of money, Banking - Indian commercial banking structure, Public Sector Banks-vis-a vis Private Sector Banks, Reserve Bank of India- Role & Functions.

Text Readings:

1. M.L. Seth , "Macro Economics"
2. Davett, "Modern Economic Theories."
3. Macroeconomics by : M.C. Vaish, or H L Ahuja
4. Macroeconomics by : Dornbusch & Fishcher or Gregray Mankiv or Fred Gothiel

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SEMESTER III
COST AND MANAGEMENT ACCCOUNTING
III Semester

Objective: The aim of the course is to enable students to know and understand the various facets of accounting procedures and practices used in business management.

Examinations
The faculty member will award marks out of a maximum of 40 marks for the internal performance of the Student. The semester examination will be worth 60 marks. The Students are required to attempt 5 Question out of 7 Questions. All Questions carry equal Marks.
Course Contain:

1. **Introduction to cost accounting:** Purpose, Utility and interrelationship of Financial Accounting and Management Accounting with Cost Accounting.

2. **Elements of Costs :** Material, Labour and Overheads ; Fractions and Segment Classification of Cost; Direct and Indirect Cost Centers and Cost Units.

3. **Various types of Costs:** Product cost and period costs; Absorbed and Unabsorbed Costs; Expired and Unexpired Cost; Variable and fixed cost; Out of Pocket costs and Sunk Costs; Opportunity Cost and Liquidity Costs; Incremental, Marginal and Differential Costs.

4. **Materials :** Purchasing Procedure, Organisation Control and Records, Valuation of Inventory Control Over Materials, Inventory Control Techniques, Accounting for losses & Wastages Accounting for issue of Materials from stores.
5. **Labour :** Time keeping and Time Booking, Remuneration of Labour and Methods of Wage payments.
6. **Overhead :** Accounting and Control of Overhead, Classification and Absorption of Overheads.
7. **Methods of Costing:** Unit and Job costing and preparing Tenders; Contract Costing, Process Costing.

TEXT READINGS:

1. Cost Accounting – Pearson Education.
2. Cost Accounting methods & Problems – B.K. Bhar
3. Cost Analysis and Control – B.M. Nigam and G.L. Sharma, Himalaya Publishing House, 1992.
4. A.T.B. of Cost Accounting – M.N. Arora, New Delhi, Vikas Publishing House Pvt. Ltd., 1994 Third Revised Edition.

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SEMESTER III

Forensic Medicine and Toxicology

Course Objectives: The objectives of the course are to enable students to learn and appreciate the significance of Forensic Medicine and Toxicology, necessary for hospital administrators.

Examinations

The faculty member will award marks out of a maximum of 40 marks for the internal performance of the Student. The semester examination will be worth 60 marks. The Students are required to attempt 5 Question out of 7 Questions. All Questions carry equal Marks.

Course Contents :

Forensic Medicine –

Legal procedure – Definition- Court and their Jurisdiction ,Inquest ,Summons, Certificate, Dying declaration ,Dying deposition.
Medical Ethics –Medical Etiquette, Disciplinary control, consent in Medical practice.
Medical negligence ,Duties of doctor and rights of doctor.
Post Mortem Examination.
Death in a medico legal aspect.
Death from Asphyxia.-Handing strangulation, suffocation ,Drowning.
Injuries from Burn and Scalds.
Sexual offence –Rape.
Abortion and Medical termination of Pregnancy.
Injuries –Abrasions, Bruises, Incisions, Stab injury, Gunshot injury, Laceration.
Identity – Dactylography (Finger print).
Infanticide.
Insanity and its Medicolegal Aspect. (Mc Naughten's Rule).

Toxicology –

Corrosive Acid – Mineral Acid.
Metallic Poisoning – Arsenic ,Lead poisoning
Inebriant Cerebral Poisons.-Alcohol.
Somniferous Cerebral Poisons- Opium and its alkaloids.
Asphyxiants –Carbondioxide and Carbon monoxide .
Deliriant Cerebral Poisons.-Kennabis Indica (Bhang),Cocaine ,Bellodona.
Spinal Poisons –Nux Vomika.
Animal Poisons-Snake poison etc.
Inorganic Irritant Poisons –organphosphorus.
Cardiac Poisons –Tobacco ,Cyanide poisoning.

Text Reading:

Medical Jurisprudence & Toxicology by 1)Modi 2) C K Parikh
B.V Subramanyam,"Medical Jurisprudence and Toxicology", Butterworths India

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SEMESTER III

BIO-MEDICAL INSTRUMENTATION

Objective: The objective of the course is to enable students to have a good understanding of Bio-medical Instrumentation as is necessary for a Hospital Administrator.

Examinations

The faculty member will award marks out of a maximum of 40 marks for the internal performance of the Student. The semester examination will be worth 60 marks. The Students are required to attempt 5 Question out of 7 Questions. All Questions carry equal Marks.

Course Contains :

Physiology of heart, heart as a pump. Various types of electrodes their construction, performance and applications

Physiological transducers.

Measurement & Analytical Techniques

Blood Flowmeters, blood pressure and cardiac output measurement. Measurement of heart sounds, Plethysmography, E.C.G.,E.M.G.,E.E.G. etc.

Biomedical Recorders

Signal conditioning and processing circuits for medical recording systems. Bedside monitor ECG machine and cardiscope.

Patient care and monitoring. Electrical safety of medical equipments.

Therapeutic Equipments :

Pacemakers- Theory and design aspects, Difibrillaters, Laser applications in biomedical field. Artificial kidney and dialyses X-ray machines and Computed Topography. Magnetic resonance and Ultrasonic imaging systems. Ultrasound in medicines. Introduction to Thermograph.

Advance microprocessor and pc-based biomedical instruments.

Biomedical telemetry.

Laser, Robotics, Telemedicine, Videoconferencing, Endoscopes Surgery & Microsurgery

Biomedical Equipment Requirement to Hospitals Equipment Selection & Maintenance., Maintenance Contracts and Software Model.

Reference Books :

1. L. Cromwell, F.J. Weibell and E.A.Pfeiffer:"Biomedical Instrumentation and Measurements" PHI

2. R.S. Khandpur: "Handbook of Biomedical Instrumentation" TMH