

Institute of Management Studies,
Devi Ahilya Vishwavidyalaya, Indore

MBA (Hospital Administration) 5 Years
Batch 2023-2028

PROGRAM STRUCTURE

Semester II

Code	Subject		Credit
MS6B-102	Business Statistics-1	Compulsory	3
MS6B-104	Basics of Community Medicine	Compulsory	3
MS6B-106	Introduction to Pathology and Microbiology	Compulsory	3
MS6B-108	Intro to Pharmacology	Compulsory	3
MS6B-110	English	Compulsory	3
MS6B-112	Financial Accounting	Compulsory	3
MS6B-114	IT Environment	Compulsory	3
MS6B-116	Environment Sustainability and Climate change	Compulsory	3
MS6B-152	Comprehensive Viva Voce		3*
	Total Credits		24+3*

INSTITUTE OF MANAGEMENT STUDIES(DAVV, INDORE)
M.B.A. (HOSPITAL ADMINISTRATION) 5 Years
Batch 2023-28
Semester II

SubjectName	BusinessStatistics-I	Subject Code	MS6B-102
		TotalCredits	03
SubjectNature:Interdisciplinary			
CourseObjective:			
<ul style="list-style-type: none"> • Toteachtheconceptsofbusinessstatisticsanditsprinciples. • Todevelopunderstandingofstatisticalconceptstoincludeprobability,sampling,hypothesistesting,regressionetc. 			
LearningOutcome:			
At theend ofthecoursestudentsshouldbeableto;			
<ul style="list-style-type: none"> • Independentlycalculatebasicstatisticalparameters(mean,dispersion,correlationcoefficient) • Basedontheacquiredknowledgetointerpretthemeaningofthecalculatedstatisticalindicators. • Chooseastatisticalmethodforsolvingpracticalproblems. 			
Examinationscheme:			
The faculty member will award internal marks out of 40 based on three assessments of 20 markseach of which best two will be considered. The end semester examination will be worth 60 markshavingtheoryandcases/practicalproblems.			
CourseContents			
UNIT-1 Introduction toQuantitative Techniques	1.1 IntroductiontoQuantitativeTechniquesandStatistics		
Unit- 2Introduction toStatistical Methods	Introductionto statisticalmethods – Collectionofdata, Securityofdata, Presentationofnumericaldata anditsdiagrammatic representation.		
Unit- 3Centr al Measurements	MeasuresofCentralTendencyandDispersion– ArithmeticMean Median,Mode,Range,Meandeviationandstandarddeviation.		
Unit- 4Concept ofProbabili ty	BasicConceptsofprobability. ProbabilityDistribution– Binominal, PoissonandNormalDistribution.		

Unit-5 Sampling Methodology	Sampling, Sampling methods, sampling Nonsampling errors
Unit-6 Decision Theory	6.1 Decision Theory Introduction to Decision Theory.
Unit-7 Correlation and Regression	Simple Correlation and Regression Simple Regression and Simple Correlation, Trend Analysis using Regression line, Correlation Analysis
Learning Resources: Text Books: 1. Business Statistics – J.K. Sharma, Pearson Education 2. Fundamentals of Statistics, D.N. Elhance 3. Statistical Methods, Prof. S.P. Gupta 4. Statistics for Management, Prof. R.I. Levin 5. Statistics Theory, Methods and Applications, Sancheti and Kapoor.	

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (HOSPITAL ADMINISTRATION)			
Batch 2023-28			
Semester II			
Subject Name	BASICS OF COMMUNITY MEDICINE	Subject Code	MS6B-104
		Total Credits	03
Subject Nature: CORE			
Course Objective: The objectives of this course are to enable students to learn and appreciate the significance of preventive and social medicine, necessary for hospital administrators.			
Learning Outcome: At the end of the course, the learner shall be : <ul style="list-style-type: none"> • Aware of the physical, social, psychological, economic, and environmental health determinants of health and disease. • Able to apply the clinical skills to recognize and manage common health problems including their physical, emotional and social aspects at the individual, family and community levels and deal with public health emergencies. 			
Examination Scheme: The faculty member will award internal marks out of 40 based on three assessments of 20 marks each, of which best two will be considered. The end semester examination will be worth 60 marks having theory and case/practical problems.			
			Class Room Contact Sessions
Course Contents			
Unit –1	1. Evolution of Medicine, Community Medicine and Public Health. 2. Levels of prevention and intervention 3. Modes of Transmission of diseases – communicable diseases 4. Principles of Epidemiology	8	
Unit-2 Waterborne Diseases	2.1 Typhoid, Cholera, Amoebiasis 2.2 Control and prevention of waterborne diseases	3	
Unit-3 Droplet Infections (Air borne)	3.1 Mode of spread and control 3.2 Tuberculosis and National TB control program RNTCP	4	

Unit – 4 Viral Disease	4.1 Chickenpox and Herpes zoster, 4.2 Measles, Poliomyelitis, Viral Hepatitis	4
Unit- 5 Diseases Transmitted through Vectors and their Control	5.1 Malaria and Modified malaria control program. 5.2 Filaria and Filaria control program	4
Unit – 6 Diseases Transmitted through Contacts	6.1 Leprosy – Leprosy Eradication Program 6.2 Sexually Transmitted Disease – Transmission and Control 6.3 Syphilis, Gonorrhoea, LGV, Chaneroid, Treatment and Control 6.4 AIDS, Hepatitis B, Trachoma.	9
Unit – 6 Nosocomial Infection	6.1 Hospital acquired infection	2
Unit – 7 Disposal of Waste	7.1 Non communicable diseases, Hypertension, Heart disease, Diabetes Mellitus, cancer, Accidents 7.2 Family welfare services, Population control, Reproductive and child health program 7.3 ICD concept and need	9
Unit – 8 Misc.	8.1 Tetanus	2
	TOTAL CLASSROOM CONTACT SESSIONS IN HOURS	45
Learning Resources: Text Reading : K. Park. “ Text Book of Preventive and Social Medicine”, XVIIth Edition		

INSTITUTE OF MANAGEMENT STUDIES(DAVV, INDORE)
M.B.A. (HOSPITAL ADMINISTRATION) 5 Years
Batch 2023-28

Semester II

Subject Name	INTRODUCTION TO PATHOLOGY & MICROBIOLOGY	Subject Code	MS6B-106
		Credit	03

Subject Nature: Core

COURSE OBJECTIVE :

The aim of the course is to enable students to have a good understanding of Pathology & Microbiology necessary for hospital administration. The students at the end of the semester should be able to: Acquire the necessary knowledge. To appreciate the laboratory investigations to be done in a given simulated clinical problem. Appreciate the underlying principles of pathology/microbiology involved in a laboratory investigation and its application to diagnosis of the disease in question. Identify abnormal from normal values of common investigations & appreciate the difference between laboratory investigations done for screening, definitive diagnosis and those done for monitoring the course of the disease.

LEARNING OUTCOME:

At the end of the course students should be able to: To understand latest practices in Pathology & Microbiology

EXAMINATION SCHEME:

The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks.

COURSE CONTENT

Unit-1	1.1 Inflammation acute & chronic 1.2 Neoplasia : aetiology, clinical types and clinical course of disease. 1.3 Haemo-stasis :Hemorrhage, shock & thrombosis . 1.4 Basics of Immune system and its role in aetiology and prevention of Disease 1.5 Respiratory System:Pulmonary tuberculosis and sputum examination. Carcinoma of lung. Bronchial asthma 1.6 Neoplasia : aetiology, clinical types and clinical course of disease. Haemo-stasis : Hemorrhage, shock & thrombosis
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Unit-2	2.1 Diseases of GIT and Liver: Infectious hepatitis. Infectious diarrheas. ,Peptic Ulcer 2.2 Genito-urinary Tract: urinary tract infections; Nephritis, Renal failure Pathology of venereal diseases , including AIDS
Unit-3	3.1 Laboratory Investigations: Various profiles like Pyrexia, Lipid, Cardiac, Renal ,Hepatic ,Fertility, Obesity ,Cancers &hematological etc. 3.2 Principles of Blood Banking. Pathology of some common diseases .Coronary Heart Disease, cerebro-vascular accidents, hypertension ..Diabetes mellitus
Unit-4	Microbiology & Parasitology: 4.1 Parasitology , with special emphasis on the prevailing parasitic diseases of India specially Plasmodium, Amoeba & Giardia, Ascaris, Enterobius, Taenia, Woucheria , Dracunculus,Hydatid etc. Morphology and Physiology of bacteria, fungi and viruses.
Unit-5	5.1 Introduction to microbe's Standard microbial laboratory processes and methods. 5.2 Major bacterial, fungal and viral diseases and their findings. Drugs of Microbial origin.
Unit-6	Basic Immunology 6.1 Immunity 6.2 Antigen 6.3 Antibodies 6.4 Immune Response 6.5 Immune deficiency& hypersensitivity
<p>Learning Resources:</p> <p>Text Books. (Latest Edition)</p> <ol style="list-style-type: none"> 1. Basic Pathology Robin 5th ed. 1992 W.B. Saunders 2. Walter and Israel: General Pathology, 6th ed. Churchill andLivengstone. 3. Hand book of resource material for II Prof. MBBS students of Pathology preparedby Dept. of Pathology MGM Medical College, Indore. 4. Hand book of laboratory Investigations. Microbiology by Ananthnarayan Parasitology 	

INSTITUTE OF MANAGEMENT STUDIES			
B.B.A. (HOSPITAL ADMINISTRATION)			
Batch 2023-28			
Semester II			
Subject Name	INTRODUCTION TO PHARMACOLOGY	Subject Code	MS6B-108
		Total Credits	03
Subject Nature: CORE			
Course Objective: For proper selection of drugs, it is essential to have a basic knowledge about the disease and the drug 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.			
Learning Outcome: Upon completion of this course students will be able to understand pharmacological concepts, drug categories and drug treatments.			
Examination Scheme: The faculty member will award internal marks out of 40 based on three assessments of 20 marks each, of which the best two will be considered. The end semester examination will be worth 60 marks having theory and case/practical problems.			
Course Contents			Class Room Contact Sessions
UNIT –I General Pharmacology	1.1 Drug – Definition, Sources, Nomenclature 1.2 Drug Laws, Sources of Drug information. 1.3 Dosage forms of drugs, Routes of drug administration. 1.4 Drug absorption, Distribution, Half-life of Drugs 1.5 Bio – availability, Fixed dose combinations 1.6 Drug poisoning and its management.	9	
Unit-2 Autonomic Nervous System	2.1 Cholinomimetic drugs, 2.2 Sympathomimetic drugs 2.3 Antimuscarinic agents 2.4 Sympathetic blocking drugs 2.5 Neuromuscular blocking agents.	8	
Unit-3	3.1 General anesthetics, Sedatives and Hypnotics		

Central Nervous System	3.2 Antipileptics 3.3 Analgesics – Narcotic and Nonsteroidalant inflammatory agents.	4
Unit- 4 Gastrointestinal System	4.1 Acid – peptic disease 4.2 Antiemetics, Purgatives 4.3 Drug therapy of Diarrhea	4
Unit – 5 Respiratory System	5.1 Drug therapy of Cough 5.2 Bronchial asthma	3
Unit – 6 Cardiovascular System and Blood	6.1 Drug treatment of Angina Pectoris, Hypertension, Shock, Anticoagulants, Thrombolytic agents, Fibrinolytic agents.	6
Unit – 7 Genito Urinary System	7.1 Diuretic 7.2 Drug acting on Uterus	2
Unit – 8 Hormones	8.1 Thyroid and antithyroid drugs 8.2 Corticosteroids, Antidiabetic drugs.	3
Unit – 9 Chemotherapeutic Agents	9.1 General principles, Sulfonamides, Penicillins, 9.2 Cephalosporins, Fluroquinolones, Macrolides, Chloramphenicol, 9.3 Antifungal agents, Antiviral agents, 9.4 Anticancer drugs and Immunosuppressive	6
TOTAL CLASSROOM CONTACT SESSIONS IN HOURS		45
Learning Resources: Text Reading: Essentials of Medical Pharmacology, K.D. Tripathi, Jaypee Publish: Pharmacology and Pharmacotherapeutics R.S. Satoskar, S.D. Popular PrakashBhandarkar, S.S. Ainpure, Goodman and Gillman’s pharmacology		

<p style="text-align: center;">INSTITUTE OF MANAGEMENT STUDIES(DAVV, INDORE) M.B.A. (HOSPITAL ADMINISTRATION) 5 Years Batch 2023-28 Semester II</p>			
Subject Name	English	Subject Code	MS6B-110
SUBJECT NATURE : ABILITY ENHANCEMENT			
OBJECTIVE : The objectives of the course are to enable students to learn and to have a good working practice of English.			
EXAMINATION: The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks.			
LEARNING OUTCOME: After completion of this course students will be capable to understand English language			
CONTENT			
Unit-1	Prose (A.G. Gardiner) 1. On Saying 'Please' 2. On Habits 3. On Courage 4. On Fear 5. On Keyhole Morals.		
Unit-2	Poetry 1. On His Blindness – John Milton 2. It is not Growing Like a Tree – Ben Jonson 3. Elegy Written in a Country Churchyard – Thomas Gray		
Unit-3	English Grammar& Usages		
Unit-4	Concord; Agreement of the verb with its subject, structure of sentence, Element of a series, Active & Passive Voice, Reported Speech		
Unit-5	Paragraph Writing		
Unit-6	Precis-Writing		
Unit-7	Letter & Application – Writing		
Unit-8	Essay Writing		
Text Books: (Latest Edition) 1. Kumkum Bhardwaj, Professional Communication , I.K. International Publication, New Delhi 2. Solomon Ambuchelvan , What is what of English , Acme Learning 3. Deepshikha Jain , Communicative English Parshva Publishers 4. Rajshri Dewan , English and Business communication Acme learning			

INSTITUTE OF MANAGEMENT STUDIES(DAVV, INDORE)
M.B.A. (HOSPITAL ADMINISTRATION) 5 Years
Batch 2023-28
Semester II

Subject Name	Financial Accounting	Subject Code	MS6B-112
Subject Nature: Generic			
OBJECTIVE: The objective of this course is to help students to acquire basic accounting concepts and use them as a tool of decision making.			
EXAMINATION : The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The end semester examination will be worth 60 marks.			
LEARNING OUTCOME: After completion of this course students will be capable to understand Accounting practices and how to apply in business and other fields.			
CONTENT			
Unit-1	Introduction to Accounting: Meaning of Accounting, The process of Accounting, Advantages of Accounting, Financial Accounting, Financial Statements, Uses of Financial Statements, and Limitations of Accounting. Relationship with other functional areas.		
Unit-2	Accounting concepts and Mechanics: Generally Accepts Accounting Principles (GAAP), Basic Concepts, Concepts of Double entry system of accounting rules of debit credit entries, types of accounts, Journalizing the transactions, posting entries in ledger accounts and concept of trial balance, Cash Books, Subsidiary Books.		
Unit-3	Preparation of Financial Statements, Trading Account, Profit and Loss Account, Balance Sheet and Adjustment Entries.		
Unit-4	Bank Reconciliation Statement.		
Unit-5	Depreciation: Meaning, Objectives, Methods of Depreciation		
TEXT READINGS: (Latest Edition) 1.T.S.Grewal, Introduction to Accountancy , Sultan and Sons, New Delhi. 2. T.S.Grewal, Double Entry System of Book Keeping, Sultan Chand and Sons 3.Maheswari, Financial Accounting, Vikas Publications, New Delhi.			

INSTITUTE OF MANAGEMENT STUDIES(DAVV, INDORE)
M.B.A. (HOSPITAL ADMINISTRATION) 5 Years
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Semester II

Subject Name	INFORMATION TECHNOLOGY ENVIRONMENT	Subject Code	MS6B-114
		Credit	03

Subject Nature: Generic

COURSE OBJECTIVE :

The objectives of the course is to provide the students basic concepts of information technology and its applications so as to enable them to make more efficient use of IT.

LEARNING OUTCOME:

After completion of this course students will be capable to understand Information Technology practices and how to apply in business and other fields.

EXAMINATION SCHEME:

The faculty member will award internal marks out of 40 based on three assessments of 20 marks each of which best two will be considered. The endsemester examination will be worth 60 marks.

COURSE CONTENT

Unit-1	<ul style="list-style-type: none"> 1.1 Information Technology Concept 1.2 Definition, Characteristics and interpretation 1.3 Data its logical and physical concepts 1.4 Technology and its relevance in information age Interpretation and elaboration of IT
Unit-2	<p>Fundamental of Communication Technology Media of Communication</p> <ul style="list-style-type: none"> 2.1 Guided and Unguided media 2.2 Data transmission rate 2.3 Channel capacity 2.4 Transmission impairments 2.5 Signal and Noise 2.6 Encoding / Decoding 2.7 A to D A& D to A conversion 2.8 Modulation 2.9 Multiplexing 2.10 FDM 2.11 TDM

Unit-3	3.1 Communication Techniques 3.2 Circuit Switching Message switching packet switching-Their advantages &disadvantages
Unit-4	4.1 Internet Basics & extended services 4.2 www, hypertext http 4.3 search engines 4.4 internet applications 4.5 types of internet connection h/w & s/w requirements
Unit-5	5.1 Multimedia Introduction Tools 5.2 Graphics 5.3 Sound 5.4 Video Animation
Unit-6	Artificial Intelligence Basic Concept of Artificial intelligence and Expert system.
Unit-7	Exposure to application IT in various area of management function & corporate world.
Learning Resources Text Books: (Latest Edition) 1. The Internet Complete – Pearson Education 2. The Internet Book – Douglas e-Commerce, PHI 3. Multimedia Making Work – Tayvauchan, Tata McGraw Hill. 4. Computer Today – Suresh Basandra, Galgotia Publication. 5. Computer Networks – Andrews Tanehbaum, PHI	

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M.B.A. (HOSPITAL ADMINISTRATION) 5 Years
Batch 2023-28
Semester II

Subject Name	Environmental Sustainability and Climate Change Mitigation	Subject Code	MS6B-116
		Total Credits	03

Subject Nature: Foundation Course

Course Objective:

The objective of this course is to develop global perspective about the environmental management and to develop understanding of how environmental and ecosystem services are crucial elements to reduce disaster risk in Hospital. Climate change mitigation CDM and other options for sustainable development, Carbon trading a new concept.

Learning Outcome:

Upon successful completion of this course students will be capable to understand how environmental and ecosystem services are crucial elements to reduce disaster risk in hospitals

Examination Scheme:

The faculty member will award internal marks out of 40 based on three assessments of 20 marks each, of which best two will be considered. The end semester examination will be worth 60 marks having theory and case/practical problems.

Course Contents

Unit I Introduction	1. Basic concept of environment and ecosystem, 2. Global environmental issues, environmental sustainability, from unsustainable to sustainable development. 3. Path to sustainability, Global environmental summits. 4. Objective and the components of environmental management.
Unit II Environmental Impact Assessment	1. Management tools Environmental impact assessment. 2. The millennium ecosystem assessment. 3. Brief introduction of HYOGO framework Biosafety category protocol.
Unit III Risk and Challenges	1. Environmental risk, global climate changes: causes, impact, 2. Ozone depletion and its consequences. 3. Kyoto protocol and Montreal protocol
Unit IV Climate Change Mitigation	1. Case studies of climate related disasters: Climate change mitigation CDM, 2. Carbon trading.
Unit V National and International Efforts	1. Role and efforts of International Agencies in Strengthening nations for sustainable development special Reference to UNEP, WRI, WORLD BANK 2. Indian Ecosystem and Role of Education in Disaster Management 3. Case Studies

Text Books : (Latest Edition)

1. Environmental Management, N.K. Liberoi, Excell Books.
2. Environmental Science, G. Taylor Miller, Jr. Cengage Learning.