



MEDICAL MICROBIOLOGY

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PREFACE

The **B.Sc. in Medical Microbiology (BMM)** course is to train students in the field of Medical Microbiology. Theoretical as well as practical training is imparted to the candidates in the subspecialties viz. Bacteriology, Virology, Parasitology, Immunology and Mycology so that they can participate in good patient care and prevention of infectious diseases in the community. They are introduced to basic research methodology so that they can conduct fundamental and applied research. They are also imparted training in teaching methods in the subject which may enable them to take up teaching assignments in Medical Colleges/Institutes.

OBJECTIVES OF THE COURSE

As a nation we have gone ahead in many respects. But there are still areas, which demand attention, care and concern. The area identified by our think-tanks is “global standards in Paramedical education and training. This course will provide trained, qualified, technical personnel in the field of Paramedical Science to support the medical profession. At the end of the course the students should be able to: Establish good clinical microbiological services in a hospital and in the community in the fields of bacteriology, virology, parasitology, immunology and mycology. They will be able to plan, execute and evaluate teaching assignments and research work in medical microbiology.

Abbreviations

Acquired Immunodeficiency Syndrome (AIDS)
Adenosine Diphosphate (ADP)
Allergic Bronchopulmonary Aspergillosis (ABPA)
Antibacterial Peptides (AMP)
Antiretroviral Therapy (ART)
Baculoviral Midgut Gland Necrosis Virus (BMN)
Baculovirus Penaei (BP)
Brain Heart Infusion (BHI)
Catheter Associated Urinary Tract Infections (CAUTI)
Centers for Disease Control (CDC)
Central line-associated bloodstream infections (CLABSI)
Cerebrospinal Fluid (CSF)
Chikungunya (CHIKV)
Cholera Toxin (CTX)
Chronic Obstructive Pulmonary Disease (COPD)
Complement Fixation Test (CFT)
Computed Tomography (CT)
Cutaneous Leishmaniasis (CL)
Cytomegalovirus (CMV)
Direct Agglutination Test (DAT)
Direct Fluorescent Antibody (DFA)
Direct Fluorescent Antibody Technique (DFAT)
Electroencephalogram (EEG)
Emerging Infectious Diseases (EIDs)
Endothelial Cells (ECs)
Enzyme-linked Immunosorbent Assay (ELISA)
Epstein-Barr virus (EBV)
Extended Prevalence of Infection in Intensive Care (EPIC II)
Extensively drug resistant tuberculosis (XDR TB)
Fecal Microbiota Transplantation (FMT)
Fever of Unknown Origin (FUO)
Fluorescent Antibody Technique (FAT)
Global Disease Burden (GBD)
Glyceryl Trinitrate (GTN)
Gross National Product (GNP)
Healthcare Associated Infections (HCAI)
Hepatic Uraemic Syndrome (HUS)

Hepatopancreatic Parvo Virus (HPV)
Herpes Simplex Virus (HSV)
Human Herpesvirus (HHV)
Human Immunodeficiency Virus (HIV)
Human Papillomavirus (HPV)
Immunoglobulin M (IgM)
Inactivated Poliovirus Vaccine (IPV)
Indirect Fluorescent Anti Body Technique (IFAT)
Individuals in critical care units (ICUs)
Infant Mortality Rates (IMR)
Infectious Hypodermal and Hematopoietic Necrosis Virus (IHHNV)
Injecting Drug Use (IDU)
International Classification of Diseases (ICD)
Japanese encephalitis virus (JEV)
Latent Tuberculosis Infection (LTBI)
Lipopolysaccharide (LPS)
Low- and Middle-Income Countries (LMICs)
Lumbar Puncture (LP)
Magneto Encephalography (MEG)
Men Who Have Sex with Men (MSM)
Methicillin-Resistant Staphylococcus Aureus (MRSA)
Minimal Hemolytic Dosage (MHD)
Monodon Baculovirus (MBV)
Mucocutaneous Leishmaniasis (MCL)
Multidrug-resistant tuberculosis (MDR TB)
Mycobacterium Tuberculosis (MDR-TB)
Necrotizing Fasciitis (NF)
Neonatal Mortality Rates (NMR)
Neurofibroma (NF)
Opioid Substitution Therapy (OST)
Oral Cholera Vaccines (OCVs)
Oral Poliovirus Vaccine (OPV)
Oral Rehydration Solution (ORS)
Oral Rehydration Therapy (ORT)
Para-Aminobenzoic Acid (PABA)
Pathogen-Associated Molecular Patterns (PAMPs)
Pattern Recognition Receptors (PRRs)
Phosphate Buffered Saline (PBS)
Plasmodium Falciparum (PF)
Plasmodium Vivax (PV)

Pneumocystis Jirovecii Pneumonia (PJP)
Polymerase Chain Reaction (PCR)
Post Kala-azar Dermal Leishmaniasis (PKDL)
Post-Exposure Prophylaxis (PEP)
Rapid Diagnostic Tests (RDTs)
Red Blood Cell (RBC)
Reverse Transcription (RT)
Reverse Transcription Polymerase Chain Reaction (RT-PCR)
Severe Acute Respiratory Syndrome (SARS)
Sexually Transmitted Diseases (STDs)
Sodium Polyanetholesulfonate (SPS)
Solomon Islands (SI)
Streptococcal Toxic Shock Syndrome (STSS)
Stripe Jack Nervous Necrosis Virus (SJNNV)
Surgical site infections (SSI)
Taura Syndrome Virus (TSV)
Tetanus Immune Globulin (TIG)
Thymidine Kinase (TK)
Toxic Shock Syndrome (TSS)
Trypticase Soy Broth (TSB)
Tuberculosis (TB)
United Nations Children's Fund (UNICEF)
Upper Respiratory Tract Infections (URTIs)
Urinary Tract Infections (UTIs)
Venezuela Equine Encephalitis (VEE)
Ventilator associated pneumonia (VAP)
Verbal Autopsy (VAs)
Visceral Leishmaniasis (VL)
Visual Analogy Scale (VAS)
Whole-Cell (WC)
World Health Organization (WHO)
Yellow Head Virus (YHV)

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ABOUT THE AUTHOR



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