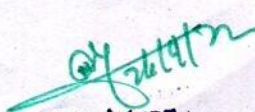


**PROGRAM AND**  
**COURSE OUTCOMES –**  
**MBBS, MD/MS,**  
**MCH/DM**

  
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## PROGRAM OUTCOMES – MBBS

### (MUM – 01MBB)

1. Clinician who understands and provides preventive, promotive, curative, palliative and holistic care with compassion.
2. Leader and member of the health care team and system with capabilities to collect, analyze, synthesize and communicate health data appropriately.
3. Communicator with patients, families, colleagues and community.
4. Lifelong learner committed to continuous improvement of skills and knowledge.
5. Professional, who is committed to excellence, is ethical, responsive and accountable to patients, community and profession.

## COURSE OUTCOMES - MBBS

Course Code	Course	CO code	Course outcomes
MBS-101	ANATOMY	CO - I	TO STUDY GROSS ANATOMY OF UPPER LIMB, LOWER LIMB, THORAX, HEAD AND NECK REGION, ABDOMEN & PELVIS.
MBS-	ANATOMY	CO-	TO STUDY GENERAL HISTOLOGY, SYSTEMIC

  
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101		II	HISTOLOGY AND NEURO ANATOMY
MBS-101	ANATOMY	CO-III	TO STUDY GENERAL AND SYSTEMIC EMBRYOLOGY INCLUDING GENERAL ANATOMY AND MEDICAL GENETICS.
MBS-102	PHYSIOLOGY	1	TO EXPLAIN GENERAL PHYSIOLOGY OF CELL AND MEMBRANE AND DESCRIBE VARIOUS TRANSPORT MECHANISM ACROSS CELL MEMBRANE.
MBS-102	PHYSIOLOGY	2	TO EXPLAIN INTEGRATED PHYSIOLOGY OF VARIOUS OF VARIOUS SYSTEMS AND ITS CLINICAL DEMONSTRATION TO BUILD CONCEPT.
MBS-102	PHYSIOLOGY	3	TO MAKE STUDENTS UNDERSTAND THE PHYSIOLOGICAL CHANGES IN BODY DURING EXERCISE AND AT VARIOUS ATMOSPHERIC PRESSURE AND ALTITUDES.
MBS-103	BIOCHEMISTRY	1	DESCRIPTION OF CHEMISTRY OF BIOMOLECULES, THEIR METABOLISM AND RELATED DISORDERS.
MBS-103	BIOCHEMISTRY	2	REVIEW OF VITAMINS, MINERALS, NUTRITION AND ASSESSMENT OF ORGAN FUNCTION TESTS.


  
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MBS-103	BIOCHEMISTRY	3	DESCRIPTION OF MOLECULAR BIOCHEMISTRY AND GENETICS.
MBS-201	PATHOLOGY	CO-I	STUDENTS SHOULD UNDERSTAND THE ETIOPATHOGENESIS AND DESCRIBE THE PATHOLOGY AND DIAGNOSIS OF DISEASES OF GENERAL PATHOLOGY.
MBS-201	PATHOLOGY	CO-II	STUDENTS SHOULD IDENTIFY AND DISTINGUISH THE ETIOPATHOGENESIS OF VARIOUS DISEASES OF HEMATOPATHOLOGY.
MBS-201	PATHOLOGY	CO-III	STUDENTS SHOULD BE ABLE TO DEFINE THE ETIOPATHOGENESIS AND ELABORATE THE PATHOLOGY OF DISEASES OF SYSTEMIC PATHOLOGY.
MBS-202	MICROBIOLOGY	CO-1	TO IDENTIFY THE MICROBIOLOGICAL ETIOLOGIES OF DIFFERENT INFECTIONS AND TO STUDY THE MORPHOLOGY, CULTURAL CHARACTERS AND METHODS OF CULTIVATION IN LABORATORY
MBS-202	MICROBIOLOGY	CO-2	TO DISCUSS THE VARIOUS VIRULENCE FACTORS RESPONSIBLE FOR DISEASE PROGRESSION, HOST DEFENSE MECHANISMS, SIGNS, SYMPTOMS AND COMPLICATIONS OF

  
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			THE DISEASE
MBS-202	MICROBIOLOGY	CO-3	TO DESCRIBE VARIOUS SPECIMEN COLLECTION PROCEDURES AND METHODS OF LABORATORY DIAGNOSIS OF INFECTIONS
MBS-203	PHARMACOLOGY	CO-1	TO CLASSIFY THE DRUGS BY THEIR MECHANISM OF ACTIONS AND THERAPEUTIC STATUS
MBS-203	PHARMACOLOGY	CO-2	TO DISCUSS THE ADVERSE EFFECTS, CONTRAINDICATIONS AND INTERACTIONS OF COMMONLY USED DRUGS
MBS-203	PHARMACOLOGY	CO-3	TO DESCRIBE THE THERAPEUTIC INDICATIONS OF DRUGS AND MANAGEMENT OF COMMON DISORDERS
MBS-301	COMMUNITY MEDICINE	CO - 1	TO DESCRIBE THE EPIDEMIOLOGICAL FACTORS AND PREVENTION OF VARIOUS COMMUNICABLE DISEASES AND NON COMMUNICABLE DISEASES.
MBS-301	COMMUNITY MEDICINE	CO - 2	TO IDENTIFY THE KEY AREAS IN MATERNAL AND CHILD HEALTH AND STUDY THE VARIOUS STRATEGIES PERTAINING TO MCH.
MBS-	COMMUNITY	CO -	TO IDENTIFY CONCEPTS OF HEALTH,

  
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301	MEDICINE	3	PREVENTION, PRIMARY HEALTH CARE, HEALTH CARE MANAGEMENT ETC.
MBS 302	OPHTHALMOLOGY	CO 1	TO LEARN ABOUT ANATOMY AND PHYSIOLOGY OF EYE AND TO UNDERSTAND BASICS OF OPTICS AND REFRACTION
MBS 302	OPHTHALMOLOGY	CO 2	TO DESCRIBE VARIOUS DISEASES OF EYE AND TO LEARN ABOUT OCULAR THERAPEUTICS
MBS 302	OPHTHALMOLOGY	CO 3	TO EXPLAIN VARIOUS ASPECTS OF SYSTEMIC, COMMUNITY AND PRACTICAL OPHTHALMOLOGY
MBS 303	ENT	CO 1	TO LEARN ABOUT ANATOMY AND PHYSIOLOGY OF EAR , NOSE & THROAT
MBS 303	ENT	CO 2	TO DESCRIBE VARIOUS DISEASES OF ENT.
MBS 303	ENT	CO 3	TO EXPLAIN VARIOUS SURGICAL PROCEDURES & ROUTINE OPD PROCEDURES IN ENT
MBS 204	FMT	CO1.	TO CLASSIFY COURTS OF INDIA ACCORDING TO HIERARCHY AND DESCRIBE FUNCTIONS OF EACH COURT.
MBS	FMT	CO 2	TO CLASSIFY TYPES OF MECHANICAL




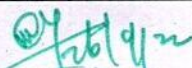
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204			ASPHYXIA AND DROWNING IN DETAIL.
MBS 204	FMT	CO 3	CLASSIFY POISONS. EXPLAIN GENERAL MANAGEMENT OF POISONING.
MBS- 401	GENERAL MEDICINE	CO- 1	TO STUDY ALTERATIONS IN CIRCULATORY AND RESPIRATORY FUNCTIONS
MBS- 401	GENERAL MEDICINE	CO- 2	TO STUDY ALTERATIONS IN GASTROINTESTINAL FUNCTIONS
MBS- 401	GENERAL MEDICINE	CO- 3	TO STUDY ALTERATIONS IN RENAL AND URINARY TRACT FUNCTIONS
MBS- 402	GENERAL SURGERY	CO I	TO IDENTIFY COMMON SURGICAL PROBLEMS RELATED TO MAJOR SYSTEMS OF HUMAN BODY.
MBS- 402	GENERAL SURGERY	CO II	TO SELECT APPROPRIATE INVESTIGATIONS TO CONFIRM THE PROVISIONAL DIAGNOSIS OF COMMON SURGICAL PROBLEMS.
MBS- 402	GENERAL SURGERY	CO III	TO FORMULATE BASIC TREATMENT TO THE PATIENTS WITH COMMON SURGICAL PROBLEMS.
MBS 403	OBSTETRICS AND GYNAECOLOGY	CO1	THE STUDENT MUST BE ABLE TO DO ANC. EXAMINATION , NORMAL LABOUR AND ITS MANAGEMENT , POSTNATAL CARE IN PNC

  
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			PATIENT
MBS 403	OBSTETRICS AND GYNAECOLOGY	CO2	THE STUDENT MUST BE ABLE TO DISCUSS VARIOUS GYNAECOLOGICAL DISORDERS AND ITS MANAGEMENT
MBS 403	OBSTETRICS AND GYNAECOLOGY	CO3	THE STUDENT MUST BE ABLE TO EXPLAIN BASICS OF REPRODUCTION AND MENSTRUAL CYCLE AND ITS ABNORMALITIES
MBS- 404	PEDIATRICS	CO 1	TO LEARN VARIOUS CASE DEFINITIONS OF DISEASES
MBS- 404	PEDIATRICS	CO 2	TO KNOW VARIOUS ETIOLOGIES OF DIFFERENT DISEASES AND THEIR PATHOPHYSIOLOGIES
MBS- 404	PEDIATRICS	CO 3	TO LEARN HOW TO PLAN INVESTIGATIONS AND PROCEED WITH MANAGEMENT, PREVENTION AND COUNSELLING

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## PROGRAM OUTCOME : MD ( ANATOMY)

AT THE END OF THE PROGRAM STUDENTS MUST BE ABLE TO

- 1) EXPLAIN AND DISSECT GROSS ANATOMY , EMBRYOLOGY & MICROSCOPIC ANATOMY OF TISSUES AND ORGANS
- 2) EXPLAIN GENERAL PRINCIPLES OF GENETICS, CYTOGENETICS AS APPLICABLE TO MEDICINE AND DIFFERENT GENETIC DISORDERS, GENE THERAPY.
- 3) EXPLAIN NEUROANATOMY AND ITS APPLIED ASPECTS.
- 4) EXPLAIN CLINICAL AND APPLIED ASPECT OF ANATOMY

### COURSE OUTCOME


PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MD ANATOMY	MUMP-03AT	PGM-101-1	GROSS ANATOMY, EMBRYOLOGY, MICROSCOPIC ANATOMY OF HUMAN BODY ABOVE THE DIAPHRAGM	AT THE END OF THE PROGRAM STUDENTS MUST UNDERSTAND THOROUGHLY:  A) GROSS ANATOMY OF HUMAN BODY ABOVE THE DIAPHRAGM  B) EMBRYOLOGY &


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				<p>MICROSCOPIC ANATOMY OF TISSUES AND ORGANS ABOVE THE DIAPHRAGM.</p> <p>C) METHODS OF PRESERVATION OF HUMAN BODY AND ITS PARTS, RADIOLOGICAL ANATOMY, SECTIONAL ANATOMY</p>
MD ANATOMY	MUMP-03AT	PGM-101-2	<p>GROSS ANATOMY, EMBRYOLOGY, MICROSCOPIC ANATOMY OF HUMAN BODY BELOW THE DIAPHRAGM</p>	<p>AT THE END OF THE PROGRAM STUDENTS MUST UNDERSTAND THOROUGHLY:</p> <p>A) GROSS ANATOMY OF HUMAN BODY BELOW THE DIAPHRAGM I.E. LOWER LIMB, ABDOMEN, PELVIS.</p> <p>B) EMBRYOLOGY &amp; MICROSCOPIC ANATOMY OF TISSUES AND ORGANS BELOW THE DIAPHRAGM.</p> <p>C) GENERAL HISTOLOGY, GENERAL EMBRYOLOGY</p> <p>D) PRINCIPLES OF LIGHT,</p>

  
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				TRANSMISSION AND SCANNING ELECTRON MICROSCOPY, CONFOCAL, VIRTUALMICROSCOPY.
MD ANATOMY	MUMP-03AT	PGM-101-3	NEUROANATOMY & GENETICS	AT THE END OF THE PROGRAM STUDENTS MUST UNDERSTAND THOROUGHLY:  A) NEUROANATOMY - GROSS AND APPLIED ASPECTS.  B) GENERAL PRINCIPLES OF GENETICS, CYTOGENETICS AS APPLICABLE TO MEDICINE AND DIFFERENTGENETIC DISORDERS, GENE THERAPY.
MD ANATOMY	MUMP-03AT	PGM-101-4	RECENT ADVANCES AND APPLIED	AT THE END OF THE PROGRAM STUDENTS MUST UNDERSTAND



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			ANATOMY IN MEDICAL SCIENCES	THOROUGHLY:  A) COMPARATIVE AND EVOLUTIONARY ANATOMY  B) CLINICAL AND APPLIED ASPECT OF ANATOMY  C) RECENT ADVANCES IN THE APPLICATION OF KNOWLEDGE OF ANATOMY ON HUMAN BODY  D) BASICS OF PRINCIPLES OF ORGAN DONATION FROM RECENTLY DEAD BODIES.
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## **PROGRAMME OUTCOME MD (PHYSIOLOGY):**

A POST GRADUATE STUDENT HAVING QUALIFIED THE MD (PHYSIOLOGY) EXAMINATION SHOULD BE ABLE TO:

1. UNDERSTAND AND DEAL WITH ALL ASPECTS OF GENERAL, SYSTEMIC AND APPLIED PHYSIOLOGY.
2. TEACH EFFECTIVELY THE BASIC PHYSIOLOGICAL MECHANISMS OF HUMAN BODY WITH REFERENCE TO THEIR IMPLICATIONS IN THE PATHOGENESIS OF DISEASES (PATHOPHYSIOLOGY) AFFECTING VARIOUS ORGAN SYSTEMS AND THE PHYSIOLOGICAL BASIS OF THEIR MANAGEMENT TO UNDERGRADUATE MEDICAL, PARAMEDICAL AND ALL OTHER BASIC SCIENCE STUDENTS.
3. UNDERSTAND GENERAL PRINCIPLES OF MEDICAL EDUCATION (USE OF APPROPRIATE TEACHING TECHNIQUES AND RESOURCES).
4. EXPLAIN HOW THE KNOWLEDGE OF PHYSIOLOGY CAN BE EFFECTIVELY USED IN A VARIOUS CLINICAL SETTINGS TO SOLVE DIAGNOSTIC AND THERAPEUTIC PROBLEMS.
5. INTERPRET AND EVALUATE RESEARCH PUBLICATIONS CRITICALLY.
6. USE THE LIBRARY FACILITIES (LITERATURE DATABASE USING COMPUTER, CD ROM, INTERNET SEARCH AND ANY OTHER AVAILABLE NEWER TECHNIQUES).
7. CONDUCT RELEVANT CLINICAL/EXPERIMENTAL RESEARCH WHICH MAY HAVE SIGNIFICANT BEARING ON HUMAN HEALTH AND PATIENT CARE.



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8. INTERPRET THE RESEARCH FINDINGS IN THE LIGHT OF ITS BASIC AND APPLIED SIGNIFICANCE.

9. ACQUIRE SKILLS IN CONDUCTING COLLABORATIVE RESEARCH IN THE FIELD OF PHYSIOLOGY WITH ALLIED SCIENCES, CLINICAL SCIENCES AND BIOMEDICAL ENGINEERING.

10. INTERACT WITH THE ALLIED DEPARTMENTS AND RENDER SERVICES IN ADVANCED LABORATORY INVESTIGATIONS.


11. SERVE AS INTERFACE WITH SOCIETY AT LARGE.

12. ACQUIRE ADMINISTRATIVE SKILLS TO SET UP CONCERNED DEPARTMENT / LABORATORIES AND INITIATE PURCHASE PROCEDURE AND PROCURE NECESSARY ITEMS FOR RUNNING SUCH LABORATORIES.

13. FUNCTION AS A MEMBER OF A TEACHING OR RESEARCH TEAM.

### COURSE OUTCOME:

PROGRA MME NAME	PROGR AMME CODE	COUR SE CODE	COURSE NAME	COURSE OUTCOME
MD(PHY SIOLOG Y)	MUMP- 03PY	PGM- 102-1	GENERAL AND CELLULAR PHYSIOLOGY INCLUDING GENETIC	PHYSIOLOGY OF CELL, VARIOUS CELLULAR MECHANISMS AND GENETIC CONTROL MECHANISMS. 2.

  
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			<p>BASIS AND HISTORICAL PERSPECTIVES:</p>	<p>VARIOUS PRINCIPLES OF PHYSICS AND PHYSICAL CHEMISTRY INVOLVED IN PHYSIOLOGICAL PHENOMENON E.G. HAEMO-DYNAMICS, BIO-ELECTRICAL POTENTIALS, BODY FLUIDS, METHODS OF MEASUREMENTS. 3. HISTORY OF PHYSIOLOGY. 4. BIostatISTICS, BIOPHYSICS, BIOCHEMISTRY, MICRO-ANATOMY. 5. GROWTH AND DEVELOPMENT INCLUDING AGING. 7 6. EXCRETION, PH, WATER AND ELECTROLYTE BALANCE.</p>
<p>MD(PHY SIOLOG Y)</p>	<p>MUMP- 03PY</p>	<p>PGM- 102-2</p>	<p>SYSTEMIC PHYSIOLOGY (SYSTEM PROVIDING TRANSPORT, NUTRITION AND ENERGY) INCLUDING COMPARATIVE</p>	<p>BLOOD AND IMMUNITY. 2. CARDIOVASCULAR SYSTEM. 3. RESPIRATORY SYSTEM. 4. GASTRO- INTESTINAL TRACT (GIT) AND DIETARY REQUIREMENTS.</p>



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			PHYSIOLOGY.	
<b>MD(PHY SIOLOG Y)</b>	MUMP- 03PY	PGM- 102-3	SYSTEMIC PHYSIOLOGY (SYSTEM CONCERNED WITH PROCREATION, REGULATION AND NEURAL CONTROL)	NERVE-MUSCLE PHYSIOLOGY INCLUDING MUSCLE MECHANICS 2. ENDOCRINE PHYSIOLOGY 3. NERVOUS SYSTEM (CENTRAL, PERIPHERAL AND AUTONOMIC) 4. SPECIAL SENSES 5. REPRODUCTION & FAMILY PLANNING/FOETAL & NEONATAL PHYSIOLOGY
<b>MD(PHY SIOLOG Y)</b>	MUMP- 03PY	PGM- 102-4	APPLIED PHYSIOLOGY INCLUDING RECENT ADVANCES	PATHO-PHYSIOLOGY PERTAINING TO SYSTEMIC PHYSIOLOGY 2. PHYSIOLOGICAL BASIS OF VARIOUS CLINICAL INVESTIGATION TESTS 3. INTERACTION OF HUMAN BODY IN AMBIENT ENVIRONMENT- HIGH ALTITUDE, SPACE AND DEEP SEA 4. SPORTS PHYSIOLOGY 5. YOGA AND MEDITATION 6. RECENT ADVANCES



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				RELEVANT TO PHYSIOLOGY 7. SOCIAL RESPONSIBILITIES OF PHYSIOLOGISTS
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## PROGRAM OUTCOME: MD (BIOCHEMISTRY)

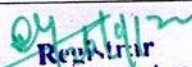
AT THE END OF STUDENTS MUST BE ABLE TO:

1. EXPLAIN CONCEPTS AND PRINCIPLES OF BIOCHEMISTRY AND ACQUISITION OF KNOWLEDGE.
2. EXPLAIN RESEARCH METHODOLOGY AND CLINICAL BIOCHEMISTRY.
3. TEACH THE PRINCIPLES OF MOLECULAR BIOLOGY TO THE UNDERGRADUATES.
4. TO CARRY OUT THE TEACHING SKILL AND PRACTICAL ACTIVITIES ALONG WITH RESEARCH ACTIVITIES.
5. ABLE TO CARRY OUT DIAGNOSTIC SERVICES.

### COURSE OUTCOME:

PROGRA M NAME	PROGR AM CODE	COUR SE COD	COURSE NAME	COURSE OUTCOME
MD (BIOCHE MISTRY)	MUMP- 03BC	PGM- 103-1	BIMOLECULE S, CELL BIOLOGY, BIOCHEMICA L TECHNIQUES,	1. BIMOLECULES, CLASSIFICATION, FUNCTIONS, PROPERTIES AND IMPORTANCE OF CHO, PROTEIN AND LIPIDS. 2. CHEMISTRY OF NUCLEOTIDES AND NUCLEIC ACIDS. 3. ANALYTICAL TECHNIQUES,

  
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			BIOSTATISTIC S AND RESEARCH METHODOLO GY, BASICS OF MEDICAL EDUCATION IN TEACHING AND ASSESSMENT OF BIOCHEMIST RY.	NANOTECHNOLOGY, BIOSTATISTICS AND RESEARCH METHODOLOGY IN BIOCHEMISTRY. 4. MEDICAL EDUCATION IN TEACHING AND ASSESSMENT OF BIOCHEMISTRY
<b>MD (BIOCHE MISTRY)</b>	<b>MUMP- 03BC</b>	<b>PGM- 103-2</b>	ENZYMES, BIOENERGETI CS, BIOLOGICAL OXIDATION, INTERMEDIA RY METABOLISM AND REGULATION, INBORN	<ol style="list-style-type: none"> <li>1. ENZYMES, BIOLOGICAL OXIDATION, RESPIRATORY CHAIN AND OXIDATIVE PHOSPHORYLATION.</li> <li>2. METABOLISM OF CARBOHYDRATES, LIPIDS, AMINO ACID &amp; PROTEINS, NUCLEOTIDES, HAEM AND XENOBIOTICS.</li> <li>3. NUTRITION, VITAMINS AND MINERALS</li> <li>4. FREE RADICALS AND ANTI-OXIDANT DEFENCE SYSTEMS</li> </ol>



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			ERRORS OF METABOLISM AND NUTRITION	
MD (BIOCHEMISTRY)	MUMP-03BC	PGM-103-3	MOLECULAR BIOLOGY, MOLECULAR AND GENETIC ASPECTS OF CANCER, IMMUNOLOGY AND EFFECTS OF ENVIRONMENTAL POLLUTANTS ON THE BODY	<ol style="list-style-type: none"> <li>1. HIGHER ORGANIZATION OF GENES, DNA REPLICATION, TRANSCRIPTION, TRANSLATION AND GENETIC CODE &amp; MUTATION.</li> <li>2. REGULATION OF GENE EXPRESSION, RECOMBINANT DNA TECHNOLOGY AND BASICS OF BIOINFORMATICS</li> <li>3. CANCER AND IMMUNOLOGY.</li> </ol>



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<p>MD (BIOCHEMISTRY)</p>	<p>MUMP-03BC</p>	<p>PGM-103-4</p>	<p>CLINICAL BIOCHEMISTRY AND MOLECULAR DIAGNOSTICS RELATED TO DIFFERENT BODY SYSTEMS/ORGANS, ENDOCRINOLOGY, AND RECENT ADVANCES IN BIOCHEMISTRY</p>	<ol style="list-style-type: none"> <li>1. PRINCIPLE AND PRACTICE OF CLINICAL BIOCHEMISTRY. CLINICAL CORRELATES AND ANALYTICAL PROCEDURE.</li> <li>2. REGULATION OF FLUID, ELECTROLYTES AND ACID- BASE BALANCE AND ASSOCIATED DISORDERS.</li> <li>3. BIOCHEMISTRY OF THE ENDOCRINE, CARDIOVASCULAR, RESPIRATORY, KIDNEY, GASTROINTESTINAL AND NERVOUS SYSTEM.</li> <li>4. HEMATOPOIETIC DISORDERS, HOMEOSTASIS AND THROMBOSIS.</li> <li>5. TEACHING METHODOLOGY, JOURNAL CLUB, THESIS, TEACHING OF UNDERGRADUATES (HORIZONTAL &amp; VERTICAL) TRAINING ON BASIC MEDICAL EDUCATION, TECHNOLOGY AND CLINICAL BIOCHEMISTRY.</li> <li>6. ROTATION IN CLINICAL BIOCHEMISTRY AND LOG BOOK.</li> </ol>
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## PROGRAM OUTCOME: MD PATHOLOGY

AT THE END OF PROGRAM STUDENTS MUST BE ABLE TO:

1. TO EXPLAIN CONCEPTS & PATHOGENESIS OF DISEASES.
2. TO BE ABLE TO CARRY OUT CLINICOPATHOLOGICAL CORRELATIONS FOR BETTER PATIENT CARE.
3. TO DIAGNOSE WITH REASONABLE ACCURACY, VARIOUS LESIONS ON HISTOPATHOLOGY AND CYTOPATHOLOGY SLIDES.
4. TO COMMENT UPON PERIPHERAL SMEAR AND CORRELATE WITH OTHER HEMATOLOGICAL FINDINGS.
5. TO CARRY OUT RESEARCH PERTAINING TO DIAGNOSTIC TECHNIQUES.
6. TO TEACH PATHOLOGY TO UNDERGRADUATE MEDICAL STUDENTS.

### COURSE OUTCOME:

PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MD (PATHOLOGY)	MUMP-03PA	PGM-105-1	GENERAL PATHOLOGY, PATHOPHYSIOLOGY, IMMUNOPATHOLOGY & CYTOPATHOLOGY	1. SHOULD KNOW ABOUT NORMAL CELL, TISSUE STRUCTURE AND



				<p>FUNCTIONS, CAUSES OF DISEASE AND PATHOGENESIS, REACTION OF CELLS AND TYPES OF INJURY.</p> <p>2. SHOULD KNOW AND INTERPRET ELISA, RIA HLA ETC TECHNIQUES.</p> <p>3. 2. SHOULD DIAGNOSE AT LEAST 75% OF CASES IN CYTOPATHOLO GY, ABLE TO IDENTIFY SUSPICIOUS/TU MOR CELLS AND DOCUMENT THE PRESENCE</p>
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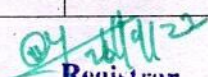


				OF ORGANISMS, FUNGI AND PARASITES.
MD (PATHOLOG Y)	MUMP- 03PA	PGM- 105-2	SYSTEMIC	1. BE CONVERSANT WITH VARIOUS PARAFFIN SECTIONS LIKE H AND E, PAS, IRON ETC.  2. BE ABLE TO CARRY OUT TISSUE PROCESSING AND THE TECHNIQUE OF FROZEN SECTION.  3. INTERPRETATION OF HP SLIDES ALONG WITH IHC.
MD (PATHOLOG Y)	MUMP- 03PA	PGM- 105-3	HEMATOLOGY, TRANSFUSION MEDICINE (BLOOD BANKING) & LAB MEDICINE	1. SHOULD BE ABLE TO PERFORM HEMOGRAM, BONE MARROW ASPIRATION, BIOPSY AND STAINING,



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				<p>BLOOD SMEAR STAINING, STAINS FOR LEUKEMIA.</p> <p>2. SHOULD PERFORM INDEPENDENTLY PT,APTT, ELECTROPHORESIS.</p> <p>3.INTERPRETATION OF ALL HEMATOLOGY PARAMETERS.</p> <p>4.SHOULD BE ABLE TO SCREEN AND BLEED DONORS, PREPARATION OF BLOOD COMPONENTS,, PERFORM ABO RH BLOOD GROUPING AND CROSS MATCH, ANTE NATAL AND NEONATAL WORK UP AND TESTING FOR TTDS.</p>
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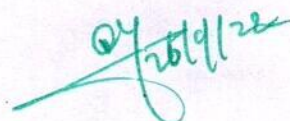
  
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				5.TO PERFORM URINE ANALYSIS, RFTS, LFTS, ENDOCRINE FUNCTIONS ETC.
MD (PATHOLOG Y)	MUMP- 03PA	PGM- 105-4	RECENT ADVANCES & APPLIED ASPECTS	1.SHOULD BE UPDATED ABOUT QUALITY CONTROL IN LABORATORY.  2.SHOULD HAVE WORKING KNOWLEDGE ABOUT MOLECULAR DIAGNOSTICS, AUTOMATED IHC, FISH, NGS, FLOW CYTOMETRY AND BLOOD COMPONENT THERAPY.



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## PROGRAM OUTCOME: MD MICROBIOLOGY

PROGRAM OUTCOME : MD MICROBIOLOGY

AT THE END OF THE PROGRAM STUDENT MUST BE ABLE TO :

- DEMONSTRATE COMPETENCE AS A CLINICAL MICROBIOLOGIST
- PLAY A PIVOTAL ROLE IN HOSPITAL INFECTION CONTROL, INCLUDING FORMULATION OF ANTIBIOTIC POLICY AND MANAGEMENT OF BIOMEDICAL WASTE.
- CONDUCT SUCH CLINICAL/EXPERIMENTAL RESEARCH AS WOULD HAVE SIGNIFICANT BEARING ON HUMAN HEALTH AND PATIENT CARE
- ESTABLISH GOOD CLINICAL MICROBIOLOGICAL SERVICES IN A HOSPITAL AND IN THE COMMUNITY IN THE FIELDS OF BACTERIOLOGY, VIROLOGY, PARASITOLOGY, IMMUNOLOGY AND MYCOLOGY.
- PLAN, EXECUTE AND EVALUATE TEACHING ASSIGNMENTS IN MEDICAL MICROBIOLOGY

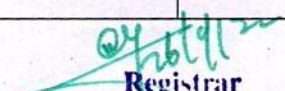
### COURSE OUTCOME:

PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MD,MICROBIOLOGY	MUMP-03MB	PGM-106-1	MICRO B1	



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			<p>GENERAL MICROBIOLOGY AND IMMUNOLOGY</p>	<p>AT THE END OF THE SESSION STUDENTS MUST BE ABLE TO UNDERSTAND:</p> <ol style="list-style-type: none"> <li>1. IMPORTANT HISTORICAL EVENTS AND DEVELOPMENTS IN MICROBIOLOGY</li> <li>2. BASIC AS WELL AS ADVANCED KNOWLEDGE IN VARIOUS MICROSCOPES AND MICROSCOPIC TECHNIQUES USED IN DIAGNOSTIC MICROBIOLOGY</li> <li>3. VARIOUS BIO-SAFETY ISSUES INCLUDING PHYSICAL AND BIOLOGICAL CONTAINMENT, UNIVERSAL CONTAINMENT, PERSONAL PROTECTIVE EQUIPMENT</li> </ol>
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				<p>FOR BIOLOGICAL AGENTS</p> <p>4. VARIOUS ISOLATION PRECAUTIONS INCLUDING STANDARD AND TRANSMISSION BASED PRECAUTIONS</p> <p>5. IN-DEPTH KNOWLEDGE ABOUT VARIOUS METHOD OF STERILIZATION, DISINFECTION AND LYOPHILIZATION</p> <p>6. NOMENCLATURE, CLASSIFICATION AND MORPHOLOGY OF BACTERIA AS WELL AS OTHER MICROORGANISMS</p> <p>7. VARIOUS TYPES AND SIGNIFICANCE OF NORMAL FLORA OF HUMAN BODY IN HEALTH AND DISEASE STATES.</p> <p>8. REQUIREMENTS FOR</p>
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				<p>GROWTH AND NUTRITION OF BACTERIA ALONG WITH BACTERIAL METABOLISM</p> <p>9. VARIOUS TYPES AND ROLE OF BACTERIAL TOXINS AND BACTERIOCINS</p> <p>10. MICROBIOLOGY OF AIR, MILK, WATER AS WELL AS HOSPITAL ENVIRONMENT</p> <p>11. VARIOUS TYPES OF HOST-PARASITE RELATIONSHIP AND THEIR SIGNIFICANCE.</p> <p>12. VARIOUS ANTIMICROBIAL AGENTS AND MECHANISMS DRUG RESISTANCE</p> <p>13. BACTERIAL GENETICS,</p>
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				<p>BACTERIOPHAGES AND MOLECULAR GENETICS RELEVANT FOR MEDICAL MICROBIOLOGY.</p> <p>14. APPLICATIONS OF QUALITY ASSURANCE, QUALITY CONTROL IN MICROBIOLOGY AND ACCREDITATION OF LABORATORIES.</p>
MD,MICROBIOLOGY	MUMP-03MB	PGM-106-2	SYSTEMATIC BACTERIOLOGY	<p>1. DEMONSTRATE KNOWLEDGE AND SKILLS IN VARIOUS TECHNIQUES FOR ISOLATION AND IDENTIFICATION OF BACTERIA 2. DEMONSTRATE KNOWLEDGE ABOUT EPIDEMIOLOGY,</p>

  
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				MORPHOLOGY, BIOCHEMICAL PROPERTIES, ANTIGENIC NATURE, PATHOGENESIS, COMPLICATIONS, LABORATORY DIAGNOSIS TREATMENT AND PREVENTION OF MAJOR BACTERIAL PATHOGENS OF MEDICAL IMPORTANCE.
MD,MICROBIOLOGY	MUMP- 03MB	PGM- 106-3	VIROLOGY PARASITOLOGY AND MYCOLOGY	1. EXPLAIN GENERAL CHARACTERISTICS INCLUDING MORPHOLOGY, REPRODUCTION AND CLASSIFICATION OF FUNGI  2. DEMONSTRATE KNOWLEDGE AND SKILLS FOR ISOLATION AND IDENTIFICATION OF FUNGI  3. EXPLAIN TISSUE REACTIONS TO FUNGI  4. DEMONSTRATE



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				<p>KNOWLEDGE ABOUT          EPIDEMIOLOGY,          MORPHOLOGY,          BIOCHEMICAL          PROPERTIES, ANTIGENIC          NATURE, PATHOGENESIS,          COMPLICATIONS,          LABORATORY DIAGNOSIS          TREATMENT AND          PREVENTION OF MAJOR          FUNGAL PATHOGENS OF          MEDICAL IMPORTANCE.</p> <p>5. DEMONSTRATE          KNOWLEDGE ABOUT          GENERAL PROPERTIES,          CLASSIFICATION,          MORPHOLOGY, VIRUS          REPLICATION AND          GENETICS, DISEASE          PRODUCED AND          LABORATORY DIAGNOSIS          OF VIRUSES OF MEDICAL          IMPORTANCE.</p> <p>6. DEMONSTRATE</p>
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				KNOWLEDGE ABOUT GENERAL CHARACTERS, CLASSIFICATION AND METHODS OF IDENTIFICATION OF PARASITES, PATHOGENESIS, LABORATORY DIAGNOSIS AND TREATMENT OF PARASITIC INFECTION.
MD, MICROBIOLOGY	MUMP-03MB	PGM-106-4	APPLIED MICROBIOLOGY AND RECENT ADVANCES	<p>1. DEMONSTRATE KNOWLEDGE ABOUT EPIDEMIOLOGY OF INFECTIOUS DISEASES</p> <p>2. DEMONSTRATE KNOWLEDGE ABOUT ANTIMICROBIAL PROPHYLAXIS AND THERAPY</p> <p>3. DEMONSTRATE KNOWLEDGE ABOUT HOSPITAL ACQUIRED INFECTIONS</p> <p>4. DEMONSTRATE</p>



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				<p>KNOWLEDGE ABOUT MANAGEMENT OF BIOMEDICAL WASTE</p> <p>5. EFFECTIVELY INVESTIGATE AN INFECTIOUS OUTBREAK IN HOSPITAL AND COMMUNITY</p> <p>6. DEMONSTRATE KNOWLEDGE ABOUT INFECTIONS OF VARIOUS ORGANS AND SYSTEMS OF HUMAN BODY VIZ. RESPIRATORY TRACT INFECTIONS, URINARY TRACT INFECTIONS, CENTRAL NERVOUS SYSTEM INFECTIONS, CONGENITAL INFECTIONS, REPRODUCTIVE TRACT INFECTIONS, GASTROINTESTINAL INFECTIONS, HEPATITIS, PYREXIA OF UNKNOWN</p>
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			<p>ORIGIN, INFECTIONS OF EYE, EAR AND NOSE, SEPTICAEMIA, ENDOCARDITIS, HAEMORRHAGIC FEVER ETC.</p> <p>7. DEMONSTRATE KNOWLEDGE ABOUT OPPORTUNISTIC INFECTIONS</p> <p>8. DEMONSTRATE KNOWLEDGE ABOUT VARIOUS SEXUALLY TRANSMITTED DISEASES</p> <p>9. DEMONSTRATE KNOWLEDGE ABOUT PRINCIPLES, METHODS OF PREPARATION, ADMINISTRATION AND TYPES OF VACCINES</p> <p>10. EFFECTIVELY USE INFORMATION TECHNOLOGY</p>
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				<p>(COMPUTERS) IN MICROBIOLOGY</p> <p>11. DEMONSTRATE KNOWLEDGE AND APPLICATIONS OF AUTOMATION IN MICROBIOLOGY</p> <p>12. DEMONSTRATE KNOWLEDGE AND APPLICATIONS ABOUT MOLECULAR TECHNIQUES IN THE LABORATORY DIAGNOSIS OF INFECTIOUS DISEASES</p> <p>13. DEMONSTRATE KNOWLEDGE IN STATISTICAL ANALYSIS OF MICROBIOLOGICAL DATA AND RESEARCH METHODOLOGY</p> <p>14. DEMONSTRATE KNOWLEDGE IN ANIMAL AND HUMAN ETHICS</p>
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				INVOLVED IN MICROBIOLOGY  15. DEMONSTRATE KNOWLEDGE IN SAFETY IN LABORATORY AND LABORATORY MANAGEMENT
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## PROGRAM OUTCOME: MD (PHARMACOLOGY)

AT THE END OF PROGRAM STUDENTS MUST BE ABLE TO:

1. EXPLAIN CONCEPTS AND PRINCIPLES OF PHARMACOTHERAPY
2. EXPLAIN DRUG DEVELOPMENT PROCEDURE
3. TEACH THE PRINCIPLES OF DRUG USE TO THE UNDERGRADUATES OF HEALTHCARE SYSTEM
4. TO CARRY OUT THE RESEARCH & TEACHING ACTIVITIES

### COURSE OUTCOME:

PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MD (PHARMACOLOGY)	MUM P-03PH	PGM-104-1	GENERAL PHARMACOLOGY &	AT THE END OF SESSION STUDENTS MUST BE ABLE TO:  1. DISCUSS THE PHARMACOLOGICAL

  
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GY)			EVALUATION OF DRUGS	BASIS OF THE DRUG USE 2. DISCUSS THE EVALUATION OF DRUG 3. DISCUSS THE BASIS OF PRE-CLINICAL & CLINICAL TRIALS
MD (PHARMACOLOGY)	MU MP-03PH	PGM-104-2	CLINICAL PHARMACOLOGY	AT THE END OF SESSION STUDENTS MUST BE ABLE TO: 1, SELECT AND PRESCRIBE AN APPROPRIATE DRUG FOR VARIOUS CLINICAL DISORDERS 2.DISCUSS ADVERSE EFFECTS OF DRUGS & THEIR MANAGEMENT 3. DESCRIBE THE INTERACTIONS AND CONTRAINDICATIONS TO VARIOUS DRUGS
MD (PHARMACOLOGY)	MUM P-03PH	PGM-104-3	SYSTEMIC PHARMACOLOGY	AT THE END OF SESSION STUDENTS MUST BE ABLE TO: 1. IDENTIFY AND CLASSIFY THE COMMONLY USED DRUG BY THEIR ACTION AND MECHANISM OF ACTION 2. DISCUSS THE THERAPEUTIC INDICATIONS OF COMMONLY USED DRUG 3. DISCUSS THE THERAPEUTIC STATUS (MERITS



  
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				& DEMERITS ) OF THE AVAILABLE OPTIONS OF PHARMACOTHERAPY
MD (PHA RMA COLO GY)	MUM P- 03PH	PGM- 104-4	RECENT ADVANC ES IN PHARMA COLOGY	AT THE END OF SESSION STUDENTS MUST BE ABLE TO:  1. DISCUSS THE ADVANCEMENT IN PHARMACOTHERAPY OF VARIOUS DISORDER  2. APPLY THE CONCEPT OF PHARMACOVIGILANCE AND PHARMACOECONOMICS ON RECENTLY DEVELOPED DRUGS  3. EVALUATE THE STATUS OF NEWER DRUGS WITH RESPECT TO OLD, ESTABLISHED DRUGS



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# PROGRAM OUTCOME: MD (COMMUNITY MEDICINE)

AT THE END OF THE PROGRAM STUDENTS MUST BE ABLE TO:

1. TO APPLY PRINCIPLES OF PUBLIC HEALTH, COMMUNITY MEDICINE AND APPLIED EPIDEMIOLOGY, CONTRIBUTING MEANINGFULLY IN FORMULATING NATIONAL HEALTH POLICIES & PROGRAMMES WITH A SYSTEMATIC APPROACH.
2. TO FORMULATE THE TEACHING & TRAINING APPROACHES AT POST-GRADUATE LEVEL, FOR COMMUNITY MEDICINE.
3. RESEARCH: TO UNDERSTAND AND EXECUTE RESEARCH METHODOLOGY, FORMULATE RESEARCH QUESTIONS, DO REVIEW OF LITERATURE, AND BECOME ABLE TO CONDUCT STUDY WITH AN APPROPRIATE STUDY DESIGN AND STUDY TOOL BY COLLECTING AND ANALYZING DATA AND PREPARE A REPORT.

## COURSE OUTCOME:

PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
				AT THE END OF THE SESSION STUDENTS MUST BE ABLE TO:




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<p>MD</p> <p>(COMMUNITY MEDICINE)</p>	<p>MUMP-03CM</p>	<p>PGM-107-1</p>	<p>CONCEPTS OF PUBLIC HEALTH AND COMMUNITY MEDICINE</p>	<p>1. TO UNDERSTAND AND EXECUTE PUBLIC HEALTH ACTIVITIES.</p> <p>2. TO CONTROL AND PREVENT COMMUNICABLE AND NON COMMUNICABLE DISEASES.</p> <p>3. TO IMPROVE HEALTH CARE DELIVERY SYSTEM.</p>
<p>MD</p> <p>(COMMUNITY MEDICINE)</p>	<p>MUMP-03CM</p>	<p>PGM-107-2</p>	<p>NATIONAL HEALTH PROGRAMS, MCH CARE, MANAGEMENT TECHNIQUES.</p>	<p>1. TO CONDUCT SURVEY ON NUTRITION, ENVIRONMENTAL, IMMUNIZATION AND VARIOUS FAMILY</p>

  
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				PLANNING METHODS. 2. TO IMPLEMENT NATIONAL HEALTH PROGRAMS
MD  (COMMUNITY MEDICINE)	MUMP- 03CM	PGM- 107-3	SOCIOLOGY, HEALTH EDUCATION, RESEARCH METHODOLOGY, LOCAL AND IHR	1. TO USE HEALTH EDUCATION TOOLS FOR SOCIAL AND MENTAL HEALTH. 2. TO UNDERSTAND RESEARCH METHODOLOGY AND ITS APPROPRIATE USE. 3. TO CONDUCT SURVEILLANCE FOR LOCAL AND INTERNATIONAL HEALTH DISORDERS



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<p>MD</p> <p>(COMMUNITY MEDICINE)</p>	<p>MUMP- 03CM</p>	<p>PGM- 107-4</p>	<p>RECENT ADVANCES IN COMMUNITY MEDICINE</p>	<ol style="list-style-type: none"> <li>1. TO DISCUSS THE ADVANCEMENT IN PUBLIC HEALTH, HEALTH POLICY PLANNING.</li> <li>2. INTEGRATION OF ALTERNATIVE HEALTH SYSTEMS.</li> <li>3. IMPROVE HEALTH ECONOMICS.</li> </ol>
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# PROGRAM OUTCOME: MS OPHTHALMOLOGY

## PROGRAM OUTCOMES:-

- **PO1.** TO IMPART KNOWLEDGE ON GROWTH AND DEVELOPMENT OF THE HUMAN EYE AND THE PHYSIOLOGY IN PARTICULAR.
- **PO2.** TO ENHANCE THE UNDERSTANDING OF THE COMMON AND SYSTEMIC DISEASES AFFECTING THE CORNEA, SCLERA INCLUDING THE ETIOLOGY, CLINICAL MANIFESTATIONS, AND DIFFERENTIAL DIAGNOSES.
- **PO3.** TO ENHANCE THE UNDERSTANDING AND LEARN DETAILED PATHOLOGIES OF VITREOUS,RETINA, CHOROID AND OPTIC NERVEAND SHOULD BE FAMILIAR WITH VARIOUS THERAPIES AVAILABLE TO TREAT THOSE CASES.
- **PO4.** TO IMPART TRAINING ON INSTRUMENTS AND TECHNIQUES FOR VARIOUS PROCEDURES FOR GLAUCOMA TREATMENT.
- **PO5.** ENCOURAGES STUDENTS TO CRITICALLY ANALYSE CASE FINDINGS AND UTILISE APPROPRIATE DIAGNOSTIC AIDS JUDICIOUSLY, DIRECTED TOWARDS A SOUND DIAGNOSIS AND TREATMENT OF ANY OCULAR SURGICAL PROBLEM.
- **PO6.** TO DEVELOP KNOWLEDGE ABOUT UPDATES ON RECENT ADVANCES OF OPHTHALMOLOGY.



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## COURSE OUT COMES:-

PROGRAMME NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MS IN OPHTHALMOLOGY	MUMP-02OP	PGM-118-1	APPLIED BASIC SCIENCES: ANATOMY, PHYSIOLOGY, OPTICS AND REFRACTION.	<p>1. TO LEARN ABOUT DETAILED EMBRYOLOGY, DEVELOPMENT ANATOMY AND PHYSIOLOGY OF HUMAN EYE.</p> <p>2. SHOULD HAVE AN UNDERSTANDING AND DETAILED KNOWLEDGE OF OPTICS AND REFRACTION.</p>
MS IN OPHTHALMOLOGY	MUMP-02OP	PGM-118-2	EMBRYOLOGICAL DEVELOPMENT, PATHOPHYSIOLOGY AND DISEASES RELATED TO	1. SHOULD HAVE AN UNDERSTANDING ABOUT DIFFERENT LAYERS OF CORNEA AND SCLERA.


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			CORNEA, SCLERA.	<p>2. SHOULD HAVE A SOUND KNOWLEDGE OF THE ETIOPATHOGENESIS AND APPLY IT IN DIAGNOSING VARIOUS DISEASES.</p> <p>3. SHOULD BE FAMILIAR WITH VARIOUS THERAPIES AVAILABLE TO TREAT THOSE CASES.</p>
MS IN OPHTHALMOLOGY	MUMP-02OP	PGM-118-3	EMBRYOLOGICAL DEVELOPMENT AND ETIOPATHOGENESIS OF VITREOUS, RETINA, CHOROID AND OPTIC NERVE.	<p>1. SHOULD HAVE A SOUND KNOWLEDGE OF THE ETIOPATHOGENESIS AND APPLY IT IN DIAGNOSING VARIOUS DISEASES OF RETINA, VITREOUS, CHOROID AND OPTIC NERVE SHOULD BE FAMILIAR</p>

  
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				<p>WITH VARIOUS THERAPIES AVAILABLE TO TREAT THOSE CASES.</p> <p>2.EVALUATE THE RESULTS OF THE TREATMENT AND TO CARRY OUT ANY FURTHER PROCEDURES REQUIRED TO MAINTAIN OR IMPROVE THE OBTAINED TREATMENT OUTCOMES INCLUDING MANAGEMENT OF VARIOUS DISEASE.</p>
MS IN OPTHALM	MUMP-02OP	PGM-118-4	RECENT ADVANCES IN	1.SHOULD HAVE AN UPDATED



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<p>LOGY</p>			<p>OPHTHALMOLOGY</p>	<p>KNOWLEDGE ON THE RECENT ADVANCEMENTS AND BE ABLE TO MODIFY THEIR TREATMENT ACCORDINGLY.</p> <p>2. EVALUATE THE STATUS OF NEWER DRUGS WITH RESPECT TO OLD, ESTABLISHED DRUGS.</p>
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## PROGRAM OUTCOME: MS ENT


AT THE END OF PROGRAM STUDENTS MUST BE ABLE TO:

1. EXPLAIN CONCEPTS OF VARIOUS ENT DISORDERS.
2. EXPLAIN VARIOUS RELEVANT SURGICAL PROCEDURES.
3. TEACH THE PRINCIPLES OF ENT TO THE UNDERGRADUATES OF HEALTHCARE SYSTEM
4. TO CARRY OUT THE RESEARCH AND TEACHING ACTIVITIES

## COURSE OUTCOME:

PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MS ENT	MUMP-02OT	PGM-119-1	BASIC SCIENCES RELATED OTOLARYNGOLOGY	AT THE END OF SESSION STUDENTS MUST BE ABLE TO:  1.DISCUSSTHE ANATOMY & PHYSIOLOGY OF ASPECTS RELATED TO OTOLARYNGOLOGY.

  
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MS ENT	MUMP-020T	PGM-119-2	PRINCIPLES AND PRACTICES OF OTOLARYNGOLOGY	<p>AT THE END OF SESSION STUDENTS MUST BE ABLE TO:</p> <p>1. DISCUSS THE CLINICAL METHODOLOGY AND EXAMINATION OF ENT DISEASES.</p> <p>2. SURGICAL PATHOLOGY OF OTOLARYNGOLOGY AND HEAD- NECK.</p> <p>3. BASIC KNOWLEDGE OF ANAESTHESIA, AUDIOLOGY &amp; RADIOLOGY RELATED TO ENT.</p>
MS ENT	MUMP-020T	PGM-119-3	RECENT ADVANCES IN	AT THE END OF SESSION STUDENTS



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			OTOLARYNGOLOGY & HEAD- NECK SURGERY,	MUST BE ABLE TO:  1.DISCUSS RELATED RECENT DEVELOPMENTS IN DIAGNOSIS, PATHOGENESIS AND TREATMENT OF ENT DISEASES.
MS ENT	MUMP- 02OT	PGM- 119-4	GENERAL SURGICAL PRINCIPLES AND HEAD- NECK SURGERY.	AT THE END OF SESSION STUDENTS MUST BE ABLE TO:  1. DISCUSS THE VARIOUS SURGICAL TECHNIQUES.

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## PROGRAM OUTCOME (MS SURGERY)

PO I – TO PERFORM VARIOUS TYPES OF SURGERIES WHICH ARE INCLUDED IN THE SPECTRUM OF GENERAL SURGERY, WITH OR WITHOUT ANY EXPERT'S ASSISTANCE.

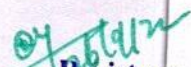
PO II - TO MANAGE OF ALL TYPES OF COMMON SURGICAL EMERGENCIES LIKE PERITONITIS, INTESTINAL OBSTRUCTION, HEAD INJURY, ROAD TRAFFIC ACCIDENT ETC.

PO II – TO MANAGE ALL TYPES OF POST-OPERATIVE COMPLICATIONS WHICH ARE RELATED TO THE OPERATIONS IN SPECTRUM OF GENERAL SURGERY.

### COURSE OUTCOME:

PROGRAMME	PROGRAMME CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MS (GENERAL SURGERY)	MUMP-02GS	PGM-115-1	BASIC SCIENCES	AT THE END OF THE SESSION, STUDENT MUST BE ABLE TO:  1. DISCUSS ABOUT THE

  
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				<p>BASIC PRINCIPLES OF SURGERY</p> <p>2.DESCRIBE AND IMPLEMENT THE CONCEPT OF ETHICS IN SURGICAL PRACTICE</p> <p>3.DISCUSS ABOUT THE BASIC PRINCIPLES OF PLASTIC AND RECONSTRUCTIVE SURGERY</p>
MS (GENERAL SURGERY)	MUMP-02GS	PGM-115-2	PRINCIPLES AND PRACTICE OF SURGERY	<p>AT THE END OF THE SESSION, STUDENT MUST BE ABLE TO:</p> <p>1.DESCRIBE SURGICAL MANAGEMENT OF VARIOUS CONGENITAL ANOMALIES OF FACE.</p> <p>2.DESCRIBE MANAGEMENT OF VARIOUS THYROID DISORDERS</p>



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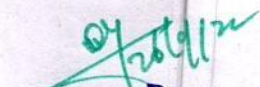


				3.DESCRIBE THE BASIC KNOWLEDGE OF SURGERY OF HEART AND PERICARDIUM
MS (GENERAL SURGERY)	MUMP-02GS	PGM-115-3	PRINCIPLES AND PRACTICE OF SURGERY	AT THE END OF THE SESSION, STUDENT MUST BE ABLE TO:  1.DESCRIBE SURGICAL MANAGEMENT OF VARIOUS TYPES OF PROBLEMS RELATED TO GASTROINTESTINAL TRACT  2. DESCRIBE SURGICAL MANAGEMENT OF VARIOUS TYPES OF HERNIA  3.DESCRIBE THE PRINCIPLES OF LAPAROSCOPIC SURGERY
MS (GENERAL SURGERY)	MUMP-02GS	PGM-115-4	RECENT ADVANCES	AT THE END OF THE SESSION, STUDENT MUST




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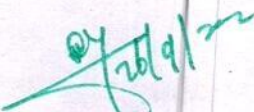
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			IN SURGERY	BE ABLE TO:  1. DISCUSS ABOUT THE RECENT ADVANCEMENT IN VARIOUS ASPECTS OF SURGERY.  2. DESCRIBE SURGICAL MANAGEMENT OF VARIOUS TYPES OF PROBLEMS RELATED TO GENITO-URINARY TRACT  3. DISCUSS THE BASIC CONCEPT OF NEUROSURGICAL PROBLEMS AND THEIR MANAGEMENT.
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# PROGRAM OUTCOME – MS OBSTETRICS AND GYNAECOLOGY

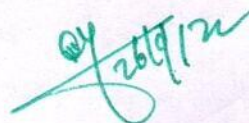
AT THE END OF PROGRAM STUDENTS MUST BE ABLE TO :

1. EXPLAIN BASICS OF REPRODUCTION AND MENSTRUAL CYCLE .
2. NORMAL AND ABNORMAL LABOUR AND ITS MANAGEMENT
3. EXPLAIN VARIOUS GYNAECOLOGICAL DISORDERS AND MANAGEMENT
4. DISCUSS VARIOUS HIGH RISK PREGNANCY AND MANAGEMENT
5. TO CARRY OUT RESEARCH AND TEACHING ACTIVITIES



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PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MS OBSTETRICS AND GYNAECOLOGY	MUMP-02 GY	PGM117- 1	BASIC SCIENCE IN OBSTETRICS AND GYNAECOLOGY	1. AT THE END OF SESSION STUDENT MUST BE ABLE TO KNOW  1. DESCRIBE ANATOMY OF FEMALE REPRODUCTIVE SYSTEM AND ANATOMY OF PLACENTA  2. DIAGNOSIS OF PREGNANCY AND PHYSIOLOGICAL CHANGES THAT OCCUR DURING PREGNANCY  3. DESCRIBE ANTENATAL EXAMINATION ,



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				<p>CARE OF ANC PATIENT AND ANTENATAL ASSESSMENT OF FETAL WELLBEING</p> <p>4. ASSESMENT OF MATERNAL PELVIS , CONDUCTION AND MANAGEMENT OF NORMAL LABOUR</p>
MS OBSTETRICS AND GYNAECOLOGY	MUMP-02 GY	PGM117-2	CLINICAL OBSTETRICS INCLUDING NEWBORN	<p>1. DISCUSS THE PATHOPHYSIOLOGY OF VARIOUS HIGH RISK PREGNANCY</p> <p>2. DISCUSS THE COMPLICATIONS AND MANAGEMENT OF HIGH RISK PREGNANCY</p> <p>3. DESCRIBE</p>



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				<p>VARIOUS INDICATION OF C.S. , HOW TO PERFORM C.S. , COMPLICATION OF C.S. AND ITS MANAGEMENT</p> <p>4.DESCRIBE VARIOUS MALPOSITION AND MALPRESENTATION DIAGNOSIS AND MANAGEMENT OF ABNORMAL LABOUR</p>
MS OBSTETRICS AND GYNAECOLOGY	MUMP-02 GY	PGM117-3	CLINICAL GYNAECOLOGY	<p>1.DESCRIBE ENDOCRINOLOGY OF FEMALE MENSTRUAL CYCLE AND ABNORMALITIES OF MENSTRUATION</p> <p>2.DISCUSS</p>



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				<p>PATHOPHYSIOLOGY OF VARIOUS GYNAECOLOGICAL CONDITION</p> <p>3.DISCUSS MALIGNANCIES OF FEMALE GENITAL TRACT , SCREENING AND DIAGNOSIS AND MANAGEMENT OF MALIGNANCIES</p> <p>4.DISCUSS CAUSE OF INFERTILITY ; WORKUP OF INFERTILE COUPLE AND PHARMACOLOGICAL MANAGEMENT OF INFERTILITY</p>
MS OBSTETRICS AND GYNAECOLOGY	MUMP-02 GY	PGM117-4	RECENT ADVANCE IN OBSTETRICS AND GYNAECOLOGY	1.DISCUSS RECENT GUIDELINES BEFORE MANAGEMENT OF VARIOUS

  
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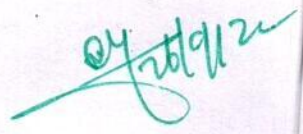
  
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				OBSTETRICS CONDITION  2.RECENT ADVANCE IN DIAGNOSIS AND MANAGEMENT OF GYNAECOLOGICAL CONDITION  3.RECENT ADVANCE IN FIELD OF PRENATAL GENETIC DIAGNOSIS
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# PROGRAM OUTCOME :MD GENERAL

## MEDICINE

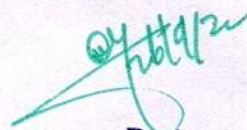
AT THE END OF THE PROGRAM STUDENTS MUST BE ABLE TO:

1. PRACTICE EFFICIENTLY INTERNAL MEDICINE SPECIALTY, BACKED BY SCIENTIFIC KNOWLEDGE INCLUDING BASIC SCIENCES AND SKILLS
2. DIAGNOSE AND MANAGE MAJORITY OF CONDITIONS IN HIS SPECIALTY (CLINICALLY AND WITH THE HELP OF RELEVANT INVESTIGATIONS)
3. EXERCISE EMPATHY AND A CARING ATTITUDE AND MAINTAIN PROFESSIONAL INTEGRITY, HONESTY AND HIGH ETHICAL STANDARDS
4. PLAN AND DELIVER COMPREHENSIVE TREATMENT USING THE PRINCIPLES OF RATIONAL DRUG THERAPY
5. PLAN AND ADVISE MEASURES FOR THE PREVENTION AND REHABILITATION OF PATIENTS BELONGING TO HIS SPECIALTY;
6. MANAGE EMERGENCIES EFFICIENTLY BY PROVIDING BASIC LIFE SUPPORT (BLS) AND ADVANCED LIFE SUPPORT (ALS) IN EMERGENCY SITUATIONS



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## COURSE OUTCOME:

PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MD GENERAL MEDICINE	MUMP- 03GM	PGM- 108-1	BASIC MEDICAL SCIENCES	AT THE END OF THE SESSION STUDENTS MUST BE ABLE TO:  1.DISCUSS THE BASIC MANAGEMENT (SYMPTOMATIC)  2.DISCUSS THE CLINICAL ASPECT OF DRUG USE AND INDICATIONS  3. DISCUSS APPROACH TOWARDS DIAGNOSIS AND TREATMENT OF COMMON DISEASES
MD GENERAL MEDICINE	MUMP- 03GM	PGM- 108-2	MEDICINE AND APPLIED SPECIALITIES	AT THE END OF THE SESSION STUDENTS MUST BE ABLE TO:

  
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			<p>INCLUDING PAEDIATRICS, DERMATOLOGY, PSYCHIATRY</p>	<ol style="list-style-type: none"> <li>1. CO-RELATESYMPTOMS AND MANAGEMENT WITH DISEASES INVOLVING OTHER DEPARTMENTS</li> <li>2. DISCUSS THE IMPROVEMENTS IN PROGNOSIS OF DISEASES INVOLVING MULTIPLE DEPARTMENTS</li> <li>3. DISCUSS THE SIDE EFFECTS OF DRUGS INVOLVING MULTIPLE SYSTEMS THAT ARE NOT INCLUDED IN</li> </ol>
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				MEDICINE.
MD GENERAL MEDICINE	MUMP- 03GM	PGM- 108-3	TROPICAL MEDICINE AND INFECTIOUS DISEASES	AT THE END OF THE SESSION STUDENTS MUST BE ABLE TO:  1.DISCUSS THE PREVALENCE OF DISEASES IN DIFFERENT REGIONS  2.DISCUSS THE SPREAD OF INFECTIOUS DISEASES AND PREVENTION OF OUTBREAK  3.IDENTIFY AND CLASSIFY COMMON INFECTIOUS DISEASES AND THERE METHOD OF SPREAD
MD GENERAL MEDICINE	MUMP- 03GM	PGM- 108-4	RECENT ADVANCES IN MEDICINE	1.DISCUSS DEVELOPEMENT OF DIFFERENT COVID



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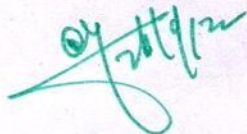
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				<p>VACCINES AND THEIR INDICATIONS IN NEW STRAINS OF COVID 19</p> <p>2.DISCUSS THE USE OF STEROIDS AND ARTHRITIS DUGS IN COVID 19 PATIENTS AND IMPROVEMENT IN OVERALL PROGNOSIS.</p> <p>3. DISCUSS THE NEW ORAL ANTIBIOTC ADVANCING CYSTIC FIBROSIS TREATMENT AND OTHER NON DIRECT USES OF ANTIBIOTICS.</p>
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## PROGRAM OUTCOME: MD (PAEDIATRICS)

AT THE END OF PROGRAM STUDENTS MUST BE ABLE TO:

1. KNOW CASE DEFINITIONS AND AWARENESS ABOUT COMMUNITY PAEDIATRICS.
2. KNOW PATHOPHYSIOLOGY OF DISEASE AND MANAGEMENT.
3. RELATED SKILLS, PROCEDURES AND NEWER DRUGS AND VACCINES.
4. TO CARRY OUT RESEARCH AND TEACHING ACTIVITIES.

### COURSE OUTCOME:

PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MD PAEDIATRICS	MUMP-03PE	PGM-109-1	GENERAL PAEDIATRICS	AT THE END OF SESSION, STUDENTS MUST BE ABLE TO:  1. DISCUSS APPROACH TO IMPORTANT CLINICAL

  
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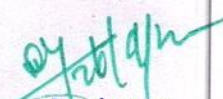
  
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				<p>PROBLEMS RELATED TO GROWTH AND DEVELOPMENT.</p> <p>2. DISCUSS NUTRITIONAL DISORDERS IN CHILDREN AND THEIR APPROACH.</p> <p>3. RECOGNISE EMOTIONAL AND BEHAVIOURAL CHARACTERISTICS OF CHILDREN.</p>
MD PAEDIATRICS	MUMP- 03PE	PGM- 109-2	NEONATOLOGY	<p>1. APPLY NRP FLOWCHART AT RESUSCITATION CORNER.</p> <p>2. APPROACH TO MANAGEMENT OF RESPIRATORY DISTRESS, APNEA, INFECTION, JAUNDICE, NEUROLOGICAL DISORDERS, INBORN ERRORS OF METABOLISM ETC. IN NEONATES.</p> <p>3. KNOW ABOUT CONGENITAL MALFORMATIONS AND CHROMOSOMAL</p>

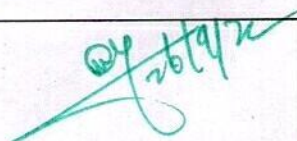


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				<p>DISORDERS.</p> <p>4. UNDERSTANDING OF PERINATAL MEDICINE.</p> <p>5. UNDERSTANDING OF THERMOREGULATION AND ITS DISORDERS.</p>
MD PAEDIATRICS	MUMP- 03PE	PGM- 109-3	SYSTEMIC PAEDIATRICS	<p>1. KNOW APPROACH TO VARIOUS SYSTEMIC DISORDERS.</p> <p>2. TO KNOW VARIOUS CASE DEFINITIONS AND PATHOPHYSIOLOGIES.</p> <p>3. MANAGEMENT OF CHILDHOOD EMERGENCIES.</p>
MD PAEDIATRICS	MUMP- 03PE	PGM- 109-4	RECENT ADVANCES	<p>1. AWARENESS ABOUT NATIONAL HEALTH PROGRAMS.</p> <p>2. AWARENESS ABOUT VACCINE PREVENTABLE DISEASES, INCLUDING NEWER VACCINES.</p> <p>3. UPDATE ABOUT CHILD ADOPTION, CHILD ABUSE, RIGHTS OF CHILDREN,</p>



				<p>NATIONAL POLICIES OF CHILD HEALTH AND POPULATION, JUVENILE DELINQUENCY.</p> <p>4. RECENT UPDATE ON NEWER DRUGS FOR VARIOUS DISEASES.</p> <p>5. 5. AWARENESS ABOUT APPROACH TO NEWER DISEASES.</p>
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## PROGRAM OUTCOME: MD (DERMATOLOGY)

AT THE END OF THE PROGRAM STUDENT MUST BE ABLE TO:

1. STUDENT SHOULD HAVE ACQUIRED PRACTICAL AND PROCEDURAL SKILLS RELATED TO THE SUBJECT.
2. CRITICALLY EVALUATE, INITIATE INVESTIGATION AND CLINICALLY MANAGE CASES IN DERMATOLOGY, VENEREOLOGY AND LEPROSY WITH THE HELP OF RELEVANT INVESTIGATIONS.
3. SHOULD PLAN AND ADVISE MEASURES FOR THE PREVENTION AND REHABILITATION OF PATIENTS WITH VARIOUS DERMATOLOGICAL CONDITIONS.
4. ABLE TO ENSURE THE IMPLEMENTATION OF NATIONAL HEALTH PROGRAMMES, PARTICULARLY IN SEXUALLY TRANSMITTED DISEASES (STD) AND LEPROSY.
5. ACQUIRE TRAINING SKILLS IN RESEARCH METHODOLOGY, PROFESSIONALISM, ATTITUDE AND COMMUNICATION SKILLS.
6. TO CARRY OUT THE RESEARCH AND TEACHING ACTIVITIES.



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## COURSE OUTCOME:

<u>Program Name</u>	<u>Program Code</u>	<u>Course Code</u>	<u>Course Name</u>	<u>Course Outcome</u>
MD(Dermatology, venereology and leprosy)	MUMP-03DB	PGM-111-1	Basic Science as applied to Dermatology, STDs and Leprosy	<p>At the end of the session, the student must be able to:</p> <ol style="list-style-type: none"><li>1. Student should have knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology) as applied to dermatology.</li><li>2. The student should acquire in-depth knowledge of his subject.</li><li>3. Student should learn the basic methodology of teaching and develop competence in</li></ol>



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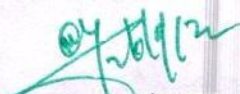
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				teaching medical/paramedical students.
MD(Dermatology, venereology and leprosy)	MUMP-03DB	PGM-111-2	Dermatology	<p>At the end of the session, the student must be able to:</p> <ol style="list-style-type: none"> <li>1. Student should have acquired practical and procedural skills related to the subject.</li> <li>2. Critically evaluate, initiate investigation and clinically manage cases in Dermatology, Venereology and Leprosy with the help of relevant investigations.</li> <li>3. Should plan and advise measures for the prevention and rehabilitation of patients</li> </ol> <p>with various dermatological</p>



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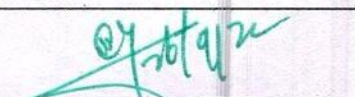
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				conditions.
MD(Dermatolog y, venereology and leprosy)	MUMP- 03DB	PGM- 111-3	STD & Leprosy	<p>At the end of the session, the student must be able to:</p> <ol style="list-style-type: none"> <li>1. Able to ensure the implementation of National Health Programmes, particularly in sexually transmitted diseases (STD) and leprosy.</li> <li>2. Student should have acquired practical and procedural skills related to the subject.</li> <li>3. Should plan and advise measures for the prevention and rehabilitation of patients with leprosy</li> </ol>




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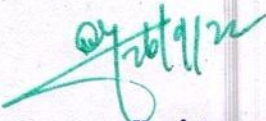


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MD(Dermatology, venereology and leprosy)	MUMP-03DB	PGM-111-4	Recent advances in field of Dermatology, Applied Sciences pertaining to skin /VD & internal medicine and skin	At the end of the session, the student must be able to:  1. The student should acquire in-depth knowledge of his subject including recent advances.  2. The student should be fully conversant with the bedside procedures (diagnostic and therapeutic) and having knowledge of latest diagnostics and therapeutics available.
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## PROGRAM OUTCOME:

### MD PULMONARY MEDICINE

#### PROGRAM OUT COMES:-

- **PO1.** TO IMPART KNOWLEDGE ON GROWTH AND DEVELOPMENT OF THE LUNGS AND THE PHYSIOLOGY IN PARTICULAR.
- **PO2.** TO ENHANCE THE UNDERSTANDING OF THE COMMON AND SYSTEMIC DISEASES AFFECTING THE LUNGS, PLEURA INCLUDING THE ETIOLOGY, CLINICAL MANIFESTATIONS, AND DIFFERENTIAL DIAGNOSIS.
- **PO3.** TO LEARN ABOUT THE RESPIRATORY ANATOMY AND PHYSIOLOGY AND THEIR PATHOLOGIES.
- **PO4.** TO IMPART TRAINING ON TECHNIQUES FOR VARIOUS PROCEDURES LIKE THORACENTESIS.
- **PO5.** ENCOURAGES STUDENTS TO CRITICALLY ANALYZE CASE FINDINGS AND UTILIZE APPROPRIATE DIAGNOSTIC AIDS JUDICIOUSLY, DIRECTED TOWARDS A SOUND DIAGNOSIS AND TREATMENT OF ANY RESPIRATORY PROBLEM.
- **PO6.** TO DEVELOP KNOWLEDGE ABOUT RECENT ADVANCES AND UPDATES OF PULMONARY MEDICINE.



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## COURSE OUT COMES:-

PROGRAMME NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MD IN PULMONARY MEDICINE	MUMP-03TV	PGM-110-1	APPLIED BASIC SCIENCES: ANATOMY, PHYSIOLOGY	1.TO LEARN ABOUT DETAILED EMBRYOLOGY, DEVELOPMENT ANATOMY AND PHYSIOLOGY OF HUMAN LUNGS  2. SHOULD HAVE AN UNDERSTANDING AND DETAILED KNOWLEDGE OF RESPIRATORY SYSTEM
MD IN PULMONARY MEDICINE	MUMP-03TV	PGM-110-2	EMBRYOLOGICAL DEVELOPMENT, PATHOPHYSIOLOGY AND DISEASES RELATED TO LUNGS AND PLEURA.	1.SHOULD HAVE AN UNDERSTANDING ABOUT THOROUGH RESPIRATORY SYSTEM EXAMINATION.  2. SHOULD HAVE A SOUND KNOWLEDGE



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				<p>OF THE ETIOPATHOGENESIS AND APPLY IT IN DIAGNOSING VARIOUS DISEASES.</p> <p>3.SHOULD BE FAMILIAR WITH DIFFERENT DIFFERENTIATING SOUNDS OF RESPIRATION.</p>
MD IN PULMONARY MEDICINE	MUMP-03TV	PGM-110-3	CLINICAL RESPIRATORY SYSTEM ANALYSIS	<p>1.SHOULD HAVE A SOUND KNOWLEDGE OF THE ETIOPATHOGENESIS AND APPLY IT IN DIAGNOSING VARIOUS DISEASES OF LUNG AND PLEURA SHOULD BE FAMILIAR WITH VARIOUS THERAPIES AVAILABLE TO TREAT</p>



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					<p>THOSE CASES.</p> <p>2.EVALUATE THE RESULTS OF THE TREATMENT AND TO CARRY OUT ANY FURTHER PROCEDURES REQUIRED TO MAINTAIN OR IMPROVE THE OBTAINED TREATMENT OUTCOMES INCLUDING MANAGEMENT OF VARIOUS DISEASE.</p> <p>3.TO LEARN ABOUT DIFFERENT PROCEDURES OF RESPIRATORY SYSTEM LIKE THORACENTESIS</p>
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<p>MD IN PULMONARY MEDICINE</p>	<p>MUMP- 03TV</p>	<p>PGM- 110-4</p>	<p>TUBERCULOSIS</p>	<p>1.SHOULD HAVE AN UPDATED KNOWLEDGE ON THE RECENT ADVANCEMENTS AND BE ABLE TO MODIFY THEIR TREATMENT ACCORDINGLY.</p> <p>2. EVALUATE THE STATUS OF NEWER DRUGS WITH RESPECT TO OLD, ESTABLISHED DRUGS.</p> <p>3. SHOULD HAVE PROPER DETAILS OF NTEP, ANTI- TUBERCULAR DRUGS, THEIR SIDE EFFECTS AND ALL THE REGIMENS</p>
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## PROGRAM OUTCOME: MD (RADIO- DIAGNOSIS)

AT THE END OF PROGRAM STUDENTS MUST BE ABLE TO:

1. ACQUIRE GOOD BASIC KNOWLEDGE IN THE VARIOUS SUB-SPECIALTIES OF RADIOLOGY SUCH AS CHEST RADIOLOGY, NEURO-RADIOLOGY, GI-RADIOLOGY, URO-RADIOLOGY, CARDIO-VASCULAR RADIOLOGY, MUSCULOSKELETAL, INTERVENTIONAL RADIOLOGY, EMERGENCY RADIOLOGY, PEDIATRIC RADIOLOGY AND WOMEN'S IMAGING.
2. INDEPENDENTLY CONDUCT AND INTERPRET ALL ROUTINE AND SPECIAL RADIOLOGIC AND IMAGING INVESTIGATIONS.
3. PROVIDE RADIOLOGICAL SERVICES IN ACUTE EMERGENCY AND TRAUMA INCLUDING ITS MEDICO LEGAL ASPECTS.
4. ELICIT INDICATIONS, DIAGNOSTIC FEATURES AND LIMITATION OF APPLICATIONS OF ULTRASONOGRAPHY, CT AND MRI AND SHOULD BE ABLE TO DESCRIBE PROPER COST EFFECTIVE ALGORITHM OF VARIOUS IMAGING TECHNIQUES IN A GIVEN PROBLEM SETTING.
5. DECIDE ON THE VARIOUS IMAGE-GUIDED INTERVENTIONAL PROCEDURES TO BE DONE FOR DIAGNOSIS AND THERAPEUTIC MANAGEMENT.
6. ABLE TO DECIDE ON FURTHER SPECIALIZATION TO BE UNDERTAKEN IN ANY OF THE BRANCHES IN RADIO DIAGNOSIS SUCH AS GASTROINTESTINAL RADIOLOGY,



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URO-RADIOLOGY, NEURO-RADIOLOGY, VASCULAR RADIOLOGY,  
MUSCULOSKELETAL RADIOLOGY, INTERVENTIONAL RADIOLOGY ETC.

7. ABLE TO FORMULATE BASIC RESEARCH PROTOCOLS AND CARRY OUT  
RESEARCH IN THE FIELD OF RADIOLOGY- RELATED CLINICAL PROBLEMS.

8. ACQUIRE KNOWLEDGE AND TEACHING CAPABILITIES TO WORK AS A POST  
GRADUATE STUDENT /CONSULTANT IN RADIODIAGNOSIS AND CONDUCT  
TEACHING PROGRAMMES FOR UNDERGRADUATES, POST GRADUATES AS WELL  
AS PARAMEDICAL AND TECHNICAL PERSONNEL.

9. INTERACT WITH OTHER SPECIALISTS AND SUPER-SPECIALISTS SO THAT  
MAXIMUM BENEFIT ACCRUES TO THE PATIENT.

10. SHOULD BE ABLE TO ORGANIZE CME ACTIVITIES IN THE SPECIALTY UTILIZING  
MODERN METHODS OF TEACHING AND EVALUATION.

11. ACQUIRE KNOWLEDGE TO IMPART TRAINING IN BOTH CONVENTIONAL  
RADIOLOGY AND MODERN IMAGING TECHNIQUES SO THAT THE POST GRADUATE  
STUDENT IS FULLY COMPETENT TO PRACTICE, TEACH AND DO RESEARCH IN THE  
BROAD DISCIPLINE OF RADIOLOGY INCLUDING ULTRASOUND, COMPUTED  
TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING.

12. ACQUIRE KNOWLEDGE OF INTERVENTIONAL RADIOLOGY.



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## COURSE OUTCOME:

PROGRAM NAME:	PROGRAM CODE:	COURSE CODE:	COURSE NAME:	COURSE OUTCOME:
MD (RADIO-DIAGNOSIS)	MUMP-03RD	PGM-114-1	BASIC SCIENCES RELATED TO RADIOLOGY	AT THE END OF SESSION STUDENTS MUST BE ABLE TO: <ol style="list-style-type: none"> <li>1. DISCUSS &amp; UNDERSTAND THE ANATOMY.</li> <li>2. DISCUSS &amp; UNDERSTAND THE PATHOLOGY</li> <li>3. DISCUSS &amp; UNDERSTAND THE BASIC AND RADIATION PHYSICS</li> <li>4. DISCUSS &amp; UNDERSTAND THE IMAGING TECHNIQUES, AND FILM PROCESSING.</li> </ol>
MD (RADIO-DIAGNOSIS)	MUMP-03RD	PGM-114-2	SYSTEMIC RADIOLOGY-1	AT THE END OF SESSION STUDENTS MUST BE ABLE TO: <ol style="list-style-type: none"> <li>1. DISCUSS &amp; INTERPRET CHEST</li> <li>2. DISCUSS &amp; INTERPRET CVS, CNS INCLUDING HEAD &amp; NECK, EYE,</li> </ol>



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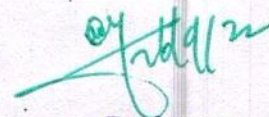


					<p>ENT PATHOLOGY.</p> <p>3. DISCUSS &amp; INTERPRET MUSCULO-SKELETAL PATHOLOGY.</p> <p>4. DISCUSS &amp; INTERPRET PEDIATRIC RADIOLOGY AND MAMMOGRAPHY.</p>
MD (RADIO-DIAGNOSIS)	MUMP-03RD	PGM-114-3	SYSTEMIC RADIOLOGY-2	AT THE END SESSION STUDENTS MUST BE ABLE TO:	<p>1. DISCUSS AND INTERPRET ABDOMINAL IMAGING INCLUDING GI</p> <p>2. DISCUSS AND INTERPRET HEPATOBILIARY SYSTEM.</p> <p>3. DISCUSS AND INTERPRET ENDOCRINE AND METABOLIC SYSTEM.</p> <p>4. DISCUSS AND INTERPRET OBSTETRICS AND GYNECOLOGY AND INTERVENTIONAL RADIOLOGY.</p>



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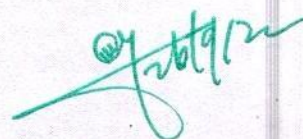
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MD (RADIO- DIAGNOSIS)	MUMP- 03RD	PGM- 114-4	RECENT ADVANCES IN RADIOLOGY	AT THE END OF THE SESSION STUDENTS MUST BE ABLE TO:  1. DISCUSS THE ADVANCEMENT IN RADIOLOGY AND NUCLEAR MEDICINE  2. APPLY AND UNDERSTAND NEWER CONCEPTS AND TECHNOLOGICAL ADVANCEMENT IN RADIOLOGY.  3. PRACTICE THE NEWER APPROACH/ADVANCEMENT IN INTERVENTIONAL RADIOLOGY.
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## PROGRAM OUTCOME:MS(ORTHOPAEDICS)

AT THE END OF PROGRAM STUDENTS MUST BE ABLE TO:

1. DIAGNOSE ORTHOPAEDICS DISORDERS ON BASICS OF CLINICAL,DIAGNOSTIC IMAGING INTERPRETATIONS.
2. PERFORM ALL CLINICAL SKILL RELATED TO THE BRANCH.
3. UNDERSTAND AND APPLY BASIC BIOMECHANICS PATHOLOGY AND PHARMACOLOGICAL ASPECT IN DIAGNOSIS AND TREATMENT OF PATIENT.
4. REPORT RARE CASES AND CARRY OUT RESEARCH WORK IN FIELD OF ORTHOPAEDICS.

### COURSE OUTCOME:

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MS  (ORTH OPAEDI CS)	MUMP - 02OR	PGM-  116-1	BASIC SCIENCE	AT THE END OF SESSION STUDENT MUST BE ABLE TO:  <ul style="list-style-type: none"> <li>• APPLY CLINICAL ASPECT OF PHYSIOLOGICAL KNOWLEDGE</li> <li>• APPLY CLINICAL ASPECT ANATOMICAL KNOWLEDGE</li> <li>• APPLY PATHOLOGICAL INTERPRETATION IN DIAGNOSIS AND TREATMENT.</li> <li>• INSTRUMENTS AND MACHINES.</li> </ul>
MS (ORTHO PAEDICS	MUMP- 02OR	PGM- 116-2	TRAUMATOL OGY AND REHABILITATI ON	AT THE END OF SESSION STUDENT MUST BE ABLE TO:  <ul style="list-style-type: none"> <li>• DIAGNOSE THE MUSCULOSKETAL DISEASE</li> <li>• TREAT AND PERFORM ALL THE ORTHO PAEDICS SURGRIES</li> <li>• PRESCRIBE, TRAIN THE PATIENT FOR POST OP REHABILITATION</li> </ul>




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MS (ORTHO PAEDICS	MUMP- 02OR	PGM- 116-3	ORTHOPAEDI CS DISEASES	AT THE END OF SESSION STUDENT MUST BE ABLE TO: <ul style="list-style-type: none"> <li>• EARLY DIAGNOSIS OF NON TRAUMATIC AND DEGENERATIVE ALIMENTS</li> <li>• APPLY AND MONITOR STANDARD TREATMENT PROTOCOL OF NON TRAUMATIC ORTHOPAEDICS DISORDER</li> <li>• ABLE TO REVIEW THE LITERATURE AND PERFORM RESEARCH WORK RELEATED TO ORTHOPAEDICS TREATMENT AND DISORDERS.</li> </ul>
MS (ORTHO PAEDICS	MUMP - 02OR	PGM- 116-4	RECENT ADVANCES	AT THE END OF SESSION STUDENT MUST BE ABLE TO: <ul style="list-style-type: none"> <li>• UNDERSTANDING OF RECENT ADVANCES IN SURGICAL FIELD OF</li> </ul>

  
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ORTHOPAEDICS

- UNDERSTANDING OF RECENT TREATMENT INNOVATIONS.
- KNOWLEDGE AND SKILLS TO PERFORM THE RECENT ADVANCE TREATMENT PROTOCOL WHICH ARE APPROVED BY THE ORTHOPAEDICS FATHERNITY



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**PROGRAM OUTCOME : MD**  
**(ANAESTHESIOLOGY)**

AT THE END OF PROGRAM STUDENTS MUST BE ABLE TO:

1. EXPLAINS BASIC SCIENCE IN GIVING ANAESTHESIA.
2. PRACTICE APPROPRIATE AND SAFE ANAESTHESIA IN PATIENT WITH SYSTEMIC AND MEDICAL DISEASES.
3. PRACTICE OF ANAESTHESIA IN RELATION TO SUBSPECIALTIES/SUPERSPECIALTIES.
4. INTENSIVE CARE MEDICINE, PAIN MEDICINE AND RECENT ADVANCES.

**COURSE OUTCOME:**

PROG RAM NAME	PROG RAM CODE	COUR SE CODE	COURSE NAME	COURSE OUTCOME
MD (ANAE STHESI OLOG Y)	MUM P- 03AN	PGM- 113-1	BASIC SCIENCE	AT THE END OF SESSION STUDENT MUST BE ABLE TO :  <ul style="list-style-type: none"> <li>• APPLY PHYSIOLOGY KNOWLEDGE</li> <li>• APPLY ANATOMY KNOWLEDGE</li> <li>• APPLY PATHOLOGY AND PHARMACOLOGICAL KNOWLEDGE IN GIVING ANAESTHESIA.</li> </ul>


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				<ul style="list-style-type: none"> <li>• INSTRUMENTS AND MACHINES.</li> </ul>
MD (ANAE STHESI OLOG Y)	MUM P- 03AN	PGM- 113-2	PRACTICE OF ANAESTHESI A IN RELATION TO ASSOCIATED SYSTEMIC AND MEDICAL DISEASES.	<p>AT THE END OF SESSION STUDENT MUST BE ABLE TO :</p> <ul style="list-style-type: none"> <li>• DELIVER APPROPRIATE AND SAFE ANAESTHESIA IN PATIENT WITH SYSTEMIC AND MEDICAL DISEASES IN PAEDIATRIC AND PREGNANT PATIENT.</li> </ul>
MD (ANAE STHESI OLOG Y)	MUM P- 03AN	PGM- 113-3	PRACTICE OF ANAESTHESI A IN RELATION TO SUBSPECIAL TIES/ SUPERSPECI ALTIES.	<p>AT THE END TO SESSION STUDENT MUST BE ABLE TO :</p> <ul style="list-style-type: none"> <li>• APPLY KNOWLEDGE TO DELIVER SAFE AND APPROPRIATE ANAESTHESIA IN PATIENT RELATED TO NEURO, CARDIAC DISEASES.</li> <li>• IN THORACIC ANAESTHESIA.</li> <li>• AND IN ORGAN TRANSPLANT.</li> </ul>
MD (ANAE STHESI	MUM P- 03AN	PGM- 113-4	INTENSIVE CARE MEDICINE,	<p>AT THE END OF SESSION STUDENT MUST BE ABLE TO :</p> <ul style="list-style-type: none"> <li>• APPLY THEIR KNOWLEDGE IN PAIN</li> </ul>

  
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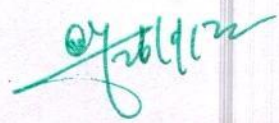
  
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OLOG Y)		PAIN MEDICINE AND RECENT ADVANCES.	MEDICINE. • IN TREATING CRITICAL PATIENTS. • USE RECENT ADVANCES.
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## PROGRAM OUTCOME IN MD PSYCHIATRY

AT THE END OF THE PROGRAM STUDENTS MUST BE ABLE TO:

1. EXPLAIN CONCEPTS AND PRINCIPLES OF PSYCHIATRY
2. TO TREAT PSYCHIATRIC DISORDERS AND TO PROVIDE HOLISTIC PSYCHIATRIC CARE TO PATIENTS
3. TEACH THE PRINCIPLES AND BASICS OF MENTAL HEALTH CARE TO THE UNDERGRADUATES OF HEALTH CARE SYSTEM
4. TO CARRY OUT RESEARCH AND TEACHING ACTIVITIES

### COURSE OUTCOME:

PROGRAM NAME	PROGRAM CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MD PSYCHIATRY	MUMP-03PS	PGM-112-1	BASIC SCIENCES AS RELATED TO PSYCHIATRY	AT THE END OF COURSE, STUDENTS MUST BE ABLE TO - <ul style="list-style-type: none"><li>• DESCRIBE BASIC ANATOMICAL,</li></ul>




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				<p>BIOCHEMICAL AND PHYSIOLOGICAL WORKINGS OF THE HUMAN BRAIN</p> <ul style="list-style-type: none"> <li>• TO BE ABLE TO DISCUSS IN DETAIL REGARDING PSYCHOLOGICAL THEORIES AND THE WORK OF FAMOUS PERSONALITIES IN THE FIELD OF PSYCHOLOGY</li> <li>• BASICS OF STATISTICS AND USE OF STATS IN RESEARCH WORK</li> <li>• CONCEPTS OF ETHOLOGY AND SOCIAL PSYCHIATRY</li> </ul>
MD PSYCHIATRY	MUMP- 03PS	PGM- 112-2	CLINICAL PSYCHIATRY	<p>AT THE END OF COURSE, STUDENTS MUST BE ABLE TO -</p> <ul style="list-style-type: none"> <li>• DESCRIBE IN DETAIL THE PSYCHIATRIC DISORDERS UNDER THE HEADINGS OF EPIDEMIOLOGY, ETIOPATHOGENESIS,</li> </ul>

  
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				<p>CLINICAL FEATURES, PHARMACOTHERAPY AND PSYCHOTHERAPY.</p> <ul style="list-style-type: none"> <li>● EXPLAIN IN DETAILS ABOUT THE VARIOUS BIOLOGICAL RHYTHMS AND SLEEP PHYSIOLOGY</li> <li>● UNDERSTAND THE NEED AND SCOPE OF CONSULTATION LIAISON PSYCHIATRY</li> <li>● BASICS OF NEUROIMAGING AND DIAGNOSTIC TOOLS USED IN PSYCHIATRY</li> </ul>
MD PSYCHIATRY	MUMP- 03PS	PGM- 112-3	PSYCHIATRIC THEORY  AND PSYCHIATRIC SPECIALTIES	<p>AT THE END OF COURSE, STUDENTS MUST BE ABLE TO -</p> <ul style="list-style-type: none"> <li>● KNOW ABOUT THE PSYCHOPHARMACOLOGY IN DETAIL</li> <li>● DISCUSS IN DETAIL ABOUT</li> </ul>


  
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				<p>THE VARIOUS THERAPEUTIC PROCEDURES APART FROM PSYCHOPHARMACOLOGY - ECT, DBS, RTMS, PSYCHOSURGERIES ETC.</p> <ul style="list-style-type: none"> <li>● DISCUSS ABOUT EMERGENCY , FORENSIC AND COMMUNITY ASPECTS OF PSYCHIATRY</li> <li>● DISCUSS AND TO BE ABLE TO APPLY PSYCHOTHERAPIES IN RELEVANT PATIENT SETTING</li> </ul>
MD PSYCHIATRY	MUMP- 03PS	PGM- 112-4	NEUROLOGY AND GENERAL MEDICINE AS RELATED TO	<p>AT THE END OF COURSE, STUDENTS MUST BE ABLE TO -</p> <ul style="list-style-type: none"> <li>● KNOW AND DISCUSS IN DETAILS REGARDING PRINCIPLES OF NEUROLOGY</li> </ul>

  
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PSYCHIATRY

- DISCUSS NEUROLOGICAL DISORDERS UNDER THE HEADINGS OF EPIDEMIOLOGY, ETIOPATHOGENESIS, CLINICAL FEATURES, PHARMACOTHERAPY AND OTHER INTERVENTIONS AND PSYCHOTHERAPY.
- DISCUSS PSYCHIATRIC ASPECTS OF NEUROLOGICAL DISORDERS AND UNDERSTAND ELEMENTS OF LONG TERM PSYCHIATRIC CARE IN SUCH PATIENTS
- TO BE WELL VERSED WITH NEWER RESEARCH HAPPENING IN THE FIELD OF PSYCHIATRY AND TO BE KNOWN REASONABLY THE RECENT ADVANCES OCCURRING IN THE FIELD



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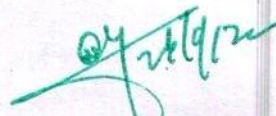
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## MCH PEDIATRIC SURGERY


PO I - TO PERFORM VARIOUS TYPES OF SURGERIES WHICH ARE INCLUDED IN THE SPECTRUM OF PEDIATRIC SURGERY, WITH OR WITHOUT ANY EXPERT'S ASSISTANCE.

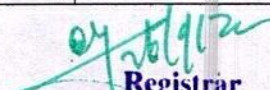
PO II - TO MANAGE OF ALL TYPES OF COMMON PEDIATRIC SURGICAL EMERGENCIES LIKE MALROTATION, INTESTINAL OBSTRUCTION, ANORECTAL MALFORMATIONS ETC.

PO III - TO MANAGE ALL TYPES OF POST-OPERATIVE COMPLICATIONS WHICH ARE RELATED TO THE OPERATIONS IN SPECTRUM OF PEDIATRIC SURGERY.

### COURSE OUTCOME (MCH PAEDIATRIC SURGERY)

PROGRAMME	PROGRAMME CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
MCH(PAEDIATRIC SURGERY)	MUMCH-42P	SSPGM-102/I	BASIC SCIENCES IN PEDIATRIC	AT THE END OF THE SESSION,

  
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			<p>SURGERY, TRAUMA, TRANSPLANTATION</p>	<p>STUDENT MUST BE ABLE TO:</p> <ol style="list-style-type: none"> <li>1. DISCUSS ABOUT THE BASIC PRINCIPLES OF PEDIATRIC SURGERY</li> <li>2. DESCRIBE THE MANAGEMENT OF VARIOUS TYPES OF TRAUMA (INCLUDING BIRTH TRAUMA) IN PEDIATRIC PATIENTS.</li> <li>3. DISCUSS ABOUT THE GENERAL PRINCIPLES OF COMMON ORGAN TRANSPLANTATIONS (LIKE LIVER, BONE MARROW ETC.) IN PEDIATRIC</li> </ol>
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				PATIENTS.
MCH(PAEDIATRIC SURGERY)	MUMCH-42P	SSPGM -102/II	REGIONAL PEDIATRIC SURGERY (HEAD AND NECK, THORAX), PEDIATRIC ONCOSURGERY	AT THE END OF THE SESSION, STUDENT MUST BE ABLE TO:  1. DESCRIBE SURGICAL MANAGEMENT TYPES OF CONGENITAL ANOMALIES OF FACE IN CHILDREN.  2. DISCUSS THE MANAGEMENT OF VARIOUS TYPES OF CONGENITAL THORACIC DEFORMITIES IN CHILDREN.  3. DESCRIBE THE MANAGEMENT OF VARIOUS COMMON


  
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				PEDIATRIC SURGICAL MALIGNANCIES, INCLUDING THE ROLE OF RADIOTHERAPY AND CHEMOTHERAPY.
MCH(PAEDIATRIC SURGERY)	MUMCH-42P	SSPGM -102/III	REGIONAL PEDIATRIC SURGERY (ABDOMED, GENITOURINARY)	AT THE END OF THE SESSION, STUDENT MUST BE ABLE TO:  1.DESCRIBE SURGICAL MANAGEMENT OF VARIOUS TYPES OF CONGENITAL AND ACQUIRED PROBLEMS RELATED TO GASTROINTESTINAL TRACT IN CHILDREN


  
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				<p>2.DESCRIBE SURGICAL MANAGEMENT OF VARIOUS TYPES OF CONGENITAL AND ACQUIRED PROBLEMS RELATED TO GENITOURINARY TRACT IN CHILDREN</p> <p>3.DISCUSS ABOUT THE MANAGEMENT OF INGUINAL HERNIA AND HYDROCELE IN PEDIATRIC AGE GROUP.</p>
MCH(PAEDIATRIC SURGERY)	MUMCH-42P	SSPGM -102/IV	RECENT ADVANCES IN PEDIATRIC SURGERY	<p>AT THE END OF THE SESSION, STUDENT MUST BE ABLE TO:</p> <p>1.DISCUSS ABOUT</p>

  
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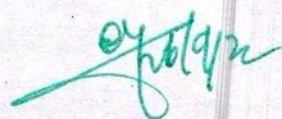
  
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				<p>THERECENT ADVANCEMENT IN ANTENATAL DIAGNOSIS AND MANAGEMENT OF CONGENITAL SURGICAL ANOMALIES.</p> <p>2. DISCUSS ABOUT THE RECENT ADVANCEMENT IN MANAGEMENT OF MALIGNANCIES IN PEDIATRIC AGE GROUP.</p> <p>3. DISCUSS ABOUT THE RECENT ADVANCEMENTS IN ENDOUROLOGICAL SURGERY IN PEDIATRIC AGE GROUP.</p>
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## PROGRAM OUTCOME: DM (ENDOCRINOLOGY)

AT THE END OF THE COURSE THE CANDIDATE WHO IS ELIGIBLE FOR A DM DEGREE IN ENDOCRINOLOGY SHOULD ACQUIRE:

- A. KNOWLEDGE IN THE BASIC, COMPARATIVE AND TRANSLATIONAL AND CLINICAL ENDOCRINOLOGY, DIABETES AND METABOLISM,
- B. CLINICAL DIAGNOSTIC CRITICAL THINKING, PROBLEM SOLVING, SELF-DIRECTED LEARNING AND PROCEDURAL SKILLS,
- C. SKILLS AS RELATED TO FORMULATING RESEARCH QUESTIONS, INITIATING, CONDUCTING AND ANALYSING TRANSLATIONAL, CLINICAL AND EPIDEMIOLOGIC RESEARCH,
- D. TEAM LEADERSHIP AND NETWORKING SKILLS,
- E. COMMUNICATION SKILLS NECESSARY FOR WORKING WITH AND EDUCATING PATIENTS AND TEAM MEMBERS,
- F. ATTITUDES AND VALUES THAT WILL ALLOW HIM OR HER TO PROVIDE COMPASSIONATE, RESPONSIVE AND RESPECTFUL ETHICAL CARE TO THE PATIENT.



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## COURSE OUTCOME:

PROGRAMME	PROGRAMME CODE	COURSE CODE	COURSE NAME	COURSE OUTCOME
DM (ENDOCRINOLOGY)	MUDM-41EN	SSPGM-101/I	BASIC SCIENCES OF ENDOCRINOLOGY AND METABOLISM	AT THE END OF SESSION STUDENTS MUST BE ABLE TO: <ol style="list-style-type: none"><li>1. DISCUSS THE BASIC PHYSIOLOGY OF HORMONES, THE RECEPTORS THROUGH WHICH IT ACTS AND RECEPTOR BIOLOGY.</li><li>2. MOLECULAR ASPECTS OF HORMONE REGULATION.</li><li>3. GENETICS IN ENDOCRINOLOGY.</li></ol>
DM (ENDOCRINOLOGY)	MUDM-41EN	SSPGM-101/II	CLINICAL ASPECTS AND DIAGNOSIS OF ENDOCRINOLOGY	AT THE END OF SESSION STUDENTS MUST BE ABLE TO: <ol style="list-style-type: none"><li>1. TO UNDERSTAND THE</li></ol>

  
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			AND METABOLISM DISORDERS	PATHOLOGY, CLINICAL FEATURES, DIAGNOSTIC TESTS FOR DIFFERENT ENDOCRINOLOGICAL DISORDERS. 2. TO UNDERSTAND THE VARIOUS MODALITIES OF DIAGNOSIS OF DIFFERENT ENDOCRINE DISEASES.
DM (ENDOCRINOLOGY)	MUDM-41EN	SSPGM- 101/III	THERAPEUTIC ASPECTS OF ENDOCRINOLOGY AND METABOLISM AND LABORATORY TECHNOLOGY PAPER	AT THE END OF SESSION STUDENTS MUST BE ABLE TO: 1. TO KNOW ABOUT DIFFERENT TREATMENT MODALITIES IN VARIOUS ENDOCRINE DISORDERS. 2. TO KNOW THE MOA, CLINICAL EFFECTS , DOSE, SIDE-EFFECTS OF VARIOUS DRUGS. 3. TO KNOW VARIOUS LAB TECHNIQUES USED

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				TO ESTIMATE THE HORMONE CONCENTRATION.
DM (ENDOCRINOLOGY)	MUDM-41EN	SSPGM- 101/IV	RECENT ADVANCES AND TRENDS IN ENDOCRINOLOGY AND METABOLISM	AT THE END OF SESSION STUDENTS MUST BE ABLE TO: 1. TO UNDERSTAND THE RECENT ADVANCES IN THE FIELD OF ENDOCRINOLOGY. 2. TO UNDERSTAND THE NEWER DRUG THERAPIES IN ENDOCRINE PRACTICE. 3. TO KNOW ABOUT THE RECENT REVIEW AND JOURNAL ARTICLES.



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