



KARPAGA VINAYAGA INSTITUTE OF MEDICAL SCIENCES AND RESEARCH CENTRE

GST Road, Chinnakolambakkam, Madhuranthagam, Tamilnadu -603308

Ph.no: 044-27598484/27565195; Fax: 044-27565170; E-mail:kims.medical@yahoo.com; principaloffice@kims.edu.in.

Course outcome for all courses

The National Medical Council has clearly defined learning outcomes and medical attributes and the institution follows the same.

I MBBS (Anatomy): At the end of the course the student shall be able to

(a) Describe the normal anatomy and cross-sectional anatomy of the various structures in the body in relevance to clinical practice

(b) Identify and describe the important microscopic structures in relation to various disease process.

(c) Describe the basic structure and connections of the central nervous system to analyze the integrative and regulative functions of the organs and systems.

(d) Acquire basic knowledge about development of the organs and important developmental anomalies.

I MBBS Physiology: At the end of the course, the student shall be able to

1. Explain functioning of various physiological systems of the body and their homeostasis.
2. Apply the knowledge of physiological process in diseased and for the treatment.
3. Perform basic laboratory tests which are important in clinical practice.
4. Perform clinical examination to assess body systems.

I MBBS Biochemistry: At the end of the course, the student shall be able to:

1. Describe important biochemical pathways of clinical importance.
2. Summarize the biochemistry of enzymes, carbohydrates, Proteins, vitamins and its clinical implication in day to day practice.
3. Describe the process of maintenance of body fluids and blood PH.
4. Apply the basics of biochemistry in common diseases/ disorders and identify normal and abnormal values of the related test.
5. Acquire knowledge on recent development on biochemical diagnostics.
6. Analyze and interpret basic biochemical investigational details.

II MBBS Pharmacology: At the end of the course, the student shall be able to:

1. To prescribe the appropriate drugs for common disorders of clinical practice.
2. To describe mechanism of actions, adverse effects of commonly used drugs.



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3. Tell the important antidotes with their doses for specific poisoning.
4. Acquire knowledge on pharmacovigilance, pharmacogenetics and essential drug concept.
5. Prescribe the drugs during specific situations like elderly, neonates, pregnancy and lactation.
6. List important vaccines with their doses.
7. Perform procedures like IM, IV injection and Nebulization on manikins as per the SOP.
8. To acquire knowledge on Drug addiction and deaddiction therapy.
9. Discuss the various stages of clinical trial and its ethical background.

II MBBS Microbiology: at the end of the course, the student shall be able to:

1. Describe morphology, classification, pathogenesis of bacteria, viruses, parasites of common clinical importance.
2. Explain sterilization procedures and preventive practices.
3. Discuss basic immunology and principles of vaccination.
4. Perform laboratory diagnosis of various infectious diseases.
5. Narrate details of antibiotic policy and antimicrobial resistance.
6. List healthcare associated infections and its preventive measures.
7. Learn basic staining techniques in Microbiology.
8. Interpret the common serological tests.
9. Explain the Principles of Biomedical waste management system.
10. Acquire knowledge on various culture techniques.

II MBBS Pathology: at the end of the course, the student shall be able to:

1. Describe the cellular structure of pathological organs.
2. Discuss cell death and repair process.
3. Describe various blood components and its judicious use in clinical practice.
4. Explain Pathological process in malignancy.
5. Identify common staining techniques in pathology.
6. Highlight on hemovigilance.
7. Interpret the common important blood tests.
8. Explain the importance pathological procedures like bone marrow aspiration, FNAC and Lumber puncture.

II MBBS Forensic Medicine: at the end of the course, the student shall be able to:

1. Deal with the medicolegal cases, procedures.
2. Acquire knowledge about various medicolegal laws and its punishments.



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3. Acquire basic knowledge about autopsy signs and symptoms of various poisoning.
4. Learn medical ethics and professional secrecy.
5. Conduct medicolegal examination independently.
6. Write details of the medicolegal certificates.
7. Know how to conserve medicolegal records.
8. Tell about medical negligence and medical indemnity.

III MBBS OPHTHALMOLOGY: at the end of the course, the student shall be able to:

1. Diagnose and manage common ophthalmic diseases and ocular emergencies
2. Acquire knowledge about the common ophthalmic investigations
3. Diagnose ocular manifestations of systemic disease
4. Treat ocular injuries, foreign body in eye and first aid to chemical injuries
5. Describe objectives of national blindness control program

III MBBS ENT: at the end of the course, the student shall be able to:

1. Diagnose and manage common ENT diseases
2. Treat epistaxis and foreign body in oto-rhinolaryngology
3. Acquire knowledge about the common ENT investigations
4. Diagnose the need of tracheostomy and Assist confidently in tracheotomy, nasal endoscopy and video laryngoscopy
5. Manage post-operative patients of tonsillectomy and other ENT surgery
6. Interpret the audiometry findings

III MBBS COMMUNITY MEDICINE: at the end of the course, the student shall be able to:

1. Understand the concept of health and prevention
2. Apply basic tests of statistics to the research study
3. Describe various awareness program and its importance
4. Diagnose and manage maternal health and child health problems
5. Describe the methods of nutritional assessments
6. Discuss immunization schedule
7. Describe the importance of water and sanitation in human health; identify and investigate the environmental and occupational hazards, disaster, disease outbreak and apply management techniques for their control
8. List important natural disaster and able to plan out action plan



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FINAL MBBS GENERAL MEDICINE: at the end of the course, the student shall be able to ..

1. Take history of the patient and able to examine the patient
2. Diagnose the patient after doing thorough clinical examination
3. Possess required knowledge about the common disease, its etiology, manifestations and management strategy
4. Treat commonly faced emergencies in clinical practice
5. Interpret the ECG and X ray findings and should be able to refer a case to higher center if needed
6. Acquire important medical ethics
7. Communicate effectively with a patient admitted in ICU and high dependency unit
8. Acquire skill in certain procedures like lumbar puncture, pleural tapping , ascitic tapping etc.

FINAL MBBS GENERAL SURGERY: at the end of the course, the student shall be able to

1. Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies, in adults and children.
2. Examine a surgical patient and able to write appropriate investigations
3. Assist in surgical procedures confidently
4. Take care of surgical patients after surgery
5. Demonstrate empathy and humane approach towards patients, relatives and attendants, by effective communication skills, involving the patients' surgical condition its management and outcome.
6. Do thorough clinical examination of acute abdomen and decide the plan of management effectively
7. Describe common malignancies in the country and their management including prevention
8. Decide about the timely surgical intervention of acute surgical cases.

FINAL MBBS ORTHOPAEDICS : at the end of the course, the student shall be able to

1. Impart knowledge to diagnose common orthopaedic ailments.
2. Manage multitrauma cases effectively and should be able to judge the need of blood transfusion in such cases.
3. To put splint and casts for fracture patients.
4. Communicate effectively with elderly patients of malunited fractures.
5. Assist confidently in all orthopedic procedures.
6. Interpret X-rays of common ailments.



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7. Elicit relevant history and perform a thorough clinical examination in the locomotor system and related general examination of all systems in adults and children and arrive a clinical diagnosis after history taking and examination without causing discomfort to the patients.

FINAL MBBS OBGY : at the end of the course, the student shall be able to

1. Understand anatomy, physiology and pathophysiology of the reproductive system.
2. Do Clinical Examination in a patient with obstetrical and gynecological problem.
3. Familiar with normal menstrual cycle, etiopathology and management of menstrual abnormalities.
4. Recognize the changes and adaptation that occur in the mother during normal pregnancy, labor and puerperium.
5. Understand the implications of medico legal and ethical issues concerning the specialty.
6. Portray methods of contraceptive measures and shall be able to communicate its advantages.
7. Assist normal labor and operative vaginal deliveries.
8. List the leading causes of maternal and perinatal morbidity and mortality.
9. Enlist the drugs that are contraindicated in pregnancy.
10. Describe the principles of national program of maternal and child health and family welfare and their implementation at various level.
11. Perform obstetrical and gynecological examinations and certain minor investigations and diagnostic operative procedures like taking cervical smear for cytology, wet vaginal smear for trichomonas vaginalis, moniliasis and gram stain for gonorrhea. Interpretation of data of investigations like biochemical, histopathological, imaging etc
12. Evaluate couples with infertility

FINAL MBBS PAEDIATRICS: at the end of the course, the student shall be able to

1. Resuscitate the newborn and recognize congenital anomalies.
2. Elicit the history from the parents and do the thorough clinical examination in pediatric patients.
3. Enlist congenital disorders.
4. describe the normal growth and development during fetal life, neonatal period, childhood and adolescence and outline deviations thereof.
5. Outline national programs relating to child health including immunization programs.
6. Diagnose and manage foreign bodies in children.

Learning outcomes: CRRI



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At the end of the CRRI training, student shall be able to

1. To diagnose common clinical conditions in medical practice and able to take timely decision for referral to higher center when required.
2. To prescribe drugs rationally and use blood and blood products judiciously
3. To manage all types of emergencies at primary level
4. To develop leadership qualities to function effectively as a leader of Health care system
5. To provide services to chronically ill patients and able to communicate effectively to the patients and relatives
6. Able to maintain professional secrecy wherever needed
7. Able to acquire knowledge about the various national schemes and program in health sector

Assessment methods:

The interns are provided with log book where they have to complete during the respective posting period. Based on the record of the work, students are graded with the score from 0-5 on five-point Likert scale. (0-poor, 1- below average, 2-fair, 3-average, 4-above average, 5-excellent) A Score of less than 3 in any of above items will represent unsatisfactory completion of internship.

1. Proficiency of knowledge required for each case
2. The competency in skills expected to attain
 - A) Competency for performance of self-performance,
 - B) Competency of having assisted in procedure,
 - C) Competency of having observed.
3. Responsibility, punctuality, work up of case, involvement in treatment, follow-up reports
4. Capacity to work in a team (Behavior with colleagues, nursing staff and relationship with paramedical staff).
5. Initiative, participation in discussions, research aptitude

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