



NETAJI SUBHAS MEDICAL COLLEGE AND HOSPITAL

(A Unit of Sitwanto Devi Mahila Kalyan Sansthan)

Adityapur, Seraikela Kharsawan, Jharkhand - 832 109

Approved by National Medical Commission, New Delhi

Department of Medical Science under Netaji Subhas University, Jamshedpur

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Ref. No: PRINCIPAL/ACAD/01/2025/016(2)

Date: 20th Dec. 2025

MBBS PROGRAMME OUTCOMES

At the end of MBBS program, the Indian Medical Graduate should be able to:

- PO 1:** Clinician: Demonstrate ability to provide evidence-based care that is compassionate, respectful of patients' differences, values, and preferences. Demonstrate the ability to listen, clearly inform, communicate and educate patients &/ caregivers for the promotion of health, diagnosis of disease and the treatment of illness; advocate for disease prevention, wellness and the promotion of healthy lifestyles including a focus on population health. Demonstrate ability to accurately evaluate relevant social and clinical information in the context of the patient's visit.
- PO 2:** Clinician: Demonstrate knowledge about established and evolving biomedical and clinical sciences. Demonstrate ability to apply this knowledge to the practice of medicine in routine, emergency and disaster situations. Demonstrate ability to appraise and assimilate scientific evidence into their own ongoing learning, research, and patient care.
- PO 3:** Professional: Demonstrate commitment to the highest standards of professional responsibility towards patient, colleagues, society and growth of medical professional and adhere to universally accepted code of ethics. Demonstrate personal attributes of compassion, honesty, integrity, accountability, empathy in patient encounters.



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PO 4: Communicator: Demonstrate ability to communicate effectively, respectfully, non-judgmental, empathetic manner with patients, their families and colleagues that will improve patient satisfaction, health care and encourages participation and shared decision making.

PO 5: Leader & Member of the health care: Demonstrate the ability to work effectively, efficiently & in rational way with his/her colleagues and other team members, educate & motivate the team members in a manner to maximize the health delivery potential of the team, considering various roles, responsibilities and competencies of the other health professionals. Identify the self-potential, functioning ability as a team leader in primary and secondary health care settings, utilize various indicators of the health care system and to promote appropriate, low cost, ethical, fair and qualitative health delivery.

PO 6: Life Long Learner: Demonstrate ability to acquire new knowledge, skills and reflect upon their experience to enhance personal and professional growth and apply the information in the care of the patient. Demonstrate self-motivation and awareness to their own limitations.



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MBBS PHASE-1

ANATOMY

At the end of the course, the student should be able to:

- CO 1:** Comprehend Dissect and Identify the normal disposition, inter-relationships, gross, functional and applied anatomy of the various structures in the Cadaver. Correlate anatomical basis of common clinical procedures i.e., intramuscular & intravenous injection, lumbar puncture, Hernia repair, Pleural effusion tap, kidney biopsy etc.
- CO 2:** Describe, Identify, Draw the microscopic structures of various tissues, and organs in the human body, and correlate the structure with the functions as a prerequisite for understanding the altered state in various disease processes.
- CO 3:** Ability to demonstrate the knowledge of the basic principles of embryology including genetic inheritance and stages involved in development of the organs and systems from the time of conception until birth. The student should recognize the critical stages of normal development and the effects of common teratogens, genetic mutations and environmental hazards on it. He/She should be able to explain the developmental basis of the occurrence of major variations, abnormalities and congenital anomalies.
- CO 4:** Demonstrate different movements of joints and palpate important bony landmarks, vessels and nerves of the body.
- CO 5:** Demonstrate the knowledge and applications of imaging techniques and interpretation of Radiogram, Computerized Tomography (CT) Scan, Magnetic Resonance Imaging and Sonogram. Draw various body sections at different levels.
- CO 6:** Ability to demonstrate appropriate attitudes in adopting an empathic, holistic approach towards Cadaver. Demonstrate the knowledge of body and organ donation and proper handling of biological tissues.



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CO 7: To have personal characteristics and attitudes required for professional life including personal integrity, sense of responsibility, dependability, and ability to relate to or show concern for other individuals, working as a team during dissection and practical work.

PHYSIOLOGY

At the end of the Course the student should be able to:

CO 1: Perform a full or focused physical examination on the subject in a logical sequence appropriate for the clinical problem directed from the clinical history. Demonstrate the knowledge of clinical signs

CO 2: Demonstrate knowledge about functioning of major organ systems & its physiological basis, dysfunction of organ system in relation to disease process, appropriate diagnostic tests & it's correlation with the clinical presentation, therapeutic recommendations for preventative, curative, and palliative therapies, expansion of medical knowledge through research.

CO 3: Demonstrate respect, compassion, accountability and empathy when interacting with peers & other persons in surroundings.

Demonstrating sensitivity and responsiveness to culture, race/ethnicity, age, socioeconomic status, gender, sexual orientation, spirituality, disabilities, and other aspects of diversity.

CO 4: Demonstrate ability to utilize communication strategies involving nonverbal, verbal and written modalities in an organized and clear manner in order to communicate, create rapport, effectively to communicate

CO 5: Demonstrate the ability to work effectively, efficiently & in rational way with his/her colleagues and other team members.

CO 6: Demonstrates life-long learning skills needed to stay informed of relevant scientific findings.



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BIOCHEMISTRY

At the end of the course, the student should be able to:

- CO 1:** Describe structure and function and interrelationship of biomolecules in health and Disease.
- CO 2:** Explain Importance of nutrition in health and disease
- CO 3:** Correlate the integration of various aspects of metabolism and its lab diagnosis
- CO 4:** Explain the biochemical basis of inherited disorders and their associated consequences
- CO 5:** Explain biochemical basis and rationale of clinical laboratory tests for inborn errors of metabolism, and interpret the results.
- CO 6:** Explain biochemical basis and rationale of clinical laboratory tests, and interpret these in the clinical context.
- CO 7:** Describe the molecular mechanism of gene expression and regulation, principles of genetic engineering and their application in medicine.
- CO 8:** Follow good laboratory practice, handle biological tissue and body fluid.



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MBBS-PHASE-2

PATHOLOGY

At the end of the course, students should be able to:

- CO 1:** Describe the structure and ultra-structure of a sick cell, the mechanisms of the cell degradation, cell death and repair and correlate structural and functional alterations in the sick cell.
- CO 2:** Explain the Patho physiological processes which governs the maintenance of homeostasis, mechanism of their disturbances and the morphological and clinical manifestation associated with it. Describe the mechanisms and patterns of tissue response to injury to appreciate the Pathophysiology of disease processes and their clinical manifestations.
- CO 3:** Correlate the gross and microscopic alterations of different organ systems in common diseases to the extent needed to understand disease processes and their clinical significance.
- CO 4:** Develop an understanding of neoplastic change in the body in order to appreciate need for early diagnosis and further management of neoplasia.
- CO 5:** Understand mechanisms of common haematological disorders and develop a logical approach in their diagnosis and management.



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CO 6: Describe the rationale and principles of technical procedures of diagnostic laboratory tests and perform simple bedside tests on blood, urine and other biological fluid samples. Interpret diagnostic laboratory tests and correlate with clinical and morphological features of diseases.

CO 7: Communicate with patient, colleagues regarding utility of diagnostic tests and maintain confidentiality.



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PHARMACOLOGY

At the end of the course, the student should be able to:

- CO 1:** Able to choose the appropriate, cost effective drug or therapy and interpret these with clinical context to prescribe rationally.
- CO 2:** Describe the pharmacokinetics and pharmacodynamics indications, contraindications, interactions and adverse reactions of essential and commonly used drugs.
- CO 3:** Explain pharmacological basis of prescribing drugs in special medical situations such as pregnancy, lactation, infancy and old age & integrate the list the drugs of addiction and recommend the management.
- CO 4:** Demonstrate ability to evaluate the ethics and modalities involved in the development and introduction of new drugs.
- CO 5:** Demonstrate communication with patient with empathy and ethics on aspects of drug use.
- CO 6:** Motivate patient with chronic disease to adhere to the prescribed management by the health care provider.
- CO 7:** Demonstrate how to interact with pharmaceutical representative to get authentic information of drug.
- CO 8:** Explain to the patient the relationship between cost of treatment and patient compliance.
- CO 9:** To prepare and explain a list of p-drug for a given condition.



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MICROBIOLOGY

At the end of the course the student shall be able to:

- CO 1:** Perform a full or focus on General Microbiology, overview of bacterial infections, demonstrate the knowledge of etiopathogenesis of different micro-organisms
- CO 2:** Demonstrate knowledge about normal human microbiota, Immunity, National immunization schedule 2020, Epidemiology of infectious diseases, Immunology, and major micro-organisms causing the infection, pathogenesis of the disease.
- CO 3:** Describe appropriate laboratory diagnostic tests for each microorganism and explain laboratory diagnosis of disease causing infections, epidemiology, prevention and prophylaxis of the disease.
- CO 4:** Demonstrate knowledge and application of ethics, communication skills and attitudinal behaviour pertinent to confidentiality, privacy, respect for samples and patients with sensitivity and responsiveness to personal, demographic, socioeconomic and other similar diversities. Demonstrate ability to utilize communication strategy in an organized and clear manner to communicate, create report and share relative information. Demonstrate ability to behave ethically while interacting with the peers & other persons in the surroundings & society.
- CO 5:** Demonstrate the ability to work effectively, efficiently and rationally with peers, colleagues and team members, educate and motivate the team members, identify the self and other potential functioning ability as a team leader to maximize the outputs. Demonstrate knowledge on hospital infection control (HIC), different



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types of infections, antimicrobial stewardship, and measures to address issues of infection, antibiotic resistance, personal safety and Biomedical waste management

CO 6: Demonstrates life-long learning skills needed to stay informed and updated to meet the unexpected health crisis in future Demonstrates reflective practice through self-assessment ability for self-improvement and further education. Demonstrate self-corrective behaviour, self-motivation ability to act on plans for self-improvement. Develops a personalized program for physical and mental health.



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MBBS-PHASE - 3 (PART-1)

FORENSIC MEDICINE & MEDICAL TOXICOLOGY

At the end of the course, the student shall be able:

- CO 1:** To understand professional misconduct; prevent unethical acts; understand the duties and rights of patients during treatment; ability to provide informed consent, giving first aid in any poisoning cases. To identify the basic Medico-legal aspects of hospital and general practice
- CO 2:** To define the Medico-legal responsibilities of a general physician while rendering community service either in a rural primary health centre or an urban health centre. To possess medio-legal knowledge related to causes of death by any means including injuries and toxicology
- CO 3:** To Explain the physician's responsibilities in criminal matters and respect for the codes of Medical ethics
- CO 4:** Shall have ability to elicit findings related to medico-legal cases, with utmost care to reserve patients right while issuing medicolegal certificates
- CO 5:** To detect occupational and environmental poisoning, prevention and epidemiology of common poisoning and their legal aspects particularly pertaining to Workmen's Compensation Act.
- CO 6:** To regularly gain knowledge related to recent changes in laws and apply this during medico-legal work



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COMMUNITY MEDICINE

At the end of the course, the student shall be able:

- CO 1:** Understand physical, social, psychological, economic and environmental determinants of health and disease.
- CO 2:** Recognize and manage common health problems including physical, emotional and Social aspects at individual, family and community level in the context of National Health Programs.
- CO 3:** Implement and monitor National Health Programs in the primary care setting.
- CO 4:** Explain knowledge of maternal and child wellness as they apply to national health care priorities and Programs.
- CO 5:** Elicit health issues and apply program activities regarding vulnerable groups appropriately (school children, adolescents, geriatrics population etc).
- CO 6:** Recognize, investigate, report, plan and manage common community health problems and emergencies.
- CO 7:** Explain descriptive epidemiology i.e., characterize the health of a community (community diagnosis) which has influence on health.
- CO 8:** Perform nutritional status assessment of individual and family and develop the plan to implement nutritional interventions.
- CO 9:** Explain the principle of biomedical waste management.
- CO 10:** Perform the basic biostatistics and analyse common national epidemiological data.



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At the end of the course, the student shall be able:

- CO 1:** Elicit history and examination related to common otorhinolaryngology and head and neck diseases.
- CO 2:** Recognise, diagnose, order appropriate investigations and manage common otorhinolaryngology problems in primary care settings.
- CO 3:** Elicit common otorhinolaryngology emergencies, provide initial care and refer timely.
- CO 4:** Interpret radiological investigations for common otorhinolaryngology and head and neck diseases.
- CO 5:** Recognise hearing impairment and refer for appropriate hearing rehabilitation program
- CO 6:** Perform a minor otorhinolaryngology procedure with documentation.
- CO 7:** Educate and counsel regarding noise pollution, congenital disorders, need for neonatal hearing screening.



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OPHTHALMOLOGY

At the end of the course, the student shall be able:

CO 1: Explain common eye problems in the community.

CO 2: Elicit history, examination advise appropriate investigation to diagnose and manage common eye problems.

CO 3: Recognize and document ophthalmic emergencies and timely referral.

CO 4: Participate in national programmes applicable in the primary care setting.

CO 5: Perform minor ophthalmic procedures.

CO 6: Communicate and counsel patients with common ophthalmic problem.



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MBBS-PHASE - 3 (PART-2)

GENERAL SURGERY & ALLIED

At the end of the course, the student shall be able:

- CO 1:** Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies in adults and children.
- CO 2:** Define indications and methods for fluid and electrolyte replacement therapy including blood transfusion;
- CO 3:** Define asepsis, disinfection and sterilization and recommend judicious use of antibiotics;
- CO 4:** Diagnose common surgical conditions both acute and chronic, in adult and children
- CO 5:** Plan various laboratory tests for surgical conditions and interpret the results;
- CO 6:** Identify and manage patients of haemorrhagic, septicaemia and other types of shock
- CO 7:** Be able to maintain patient air-way and resuscitate any critically ill patient
Monitor patients of head, chest, spinal and abdominal injuries, both in adults and children;
- CO 8:** Acquire principles of operative surgery, including pre-operative, operative and postoperative care and monitoring.



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CO 9: Treat open wounds including preventive measures against tetanus and gas gangrene;

CO 10: Diagnose neonatal and paediatric surgical emergencies and provide sound primary care before referring the patient to secondary / tertiary centres

CO 11: Recognize the importance of clinical Orthopaedics & diagnose and manage majority of the conditions in clinical Orthopaedics on the basis of clinical assessment & investigations

CO 12: Carry out Bag Mask Ventilation and Basic Life Support (BLS)

CO 13: Should know basic principles of various imaging modalities to diagnose various diseases and basic principles of recent advances



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GENERAL MEDICINE & ALLIED

At the end of the course the student shall be able to:

- CO 1:** Develop adequate knowledge to diagnose common clinical conditions with special reference to infectious diseases, nutritional disorder, metabolic disorders and environmental disorders and Propose diagnostic and investigative procedures and ability to interpret them
- CO 2:** Outline various modes of management including drug therapy especially doses, side effects, toxicity, indications, contraindications and interaction
- CO 3:** Provide first level management of acute emergencies promptly and efficiently and decide on the timing and level of referral if required
- CO 4:** Recognize geriatric disorders and their management
- CO 5:** Apply clinical skills of history taking, clinical examination to diagnose common medical disorders and medical emergencies
- CO 6:** Perform simple routine investigations like haemogram, stool, urine, sputum and other biological fluids
- CO 7:** To interpret simple X-Ray, ECG, CT scan and laboratory report findings
- CO 8:** Assist common bedside medical procedures like pleural tap, lumbar puncture, bone marrow aspiration, catheterization, insertion of Ryle's tube etc.
- CO 9:** Develop a sympathetic and compassionate attitude towards patient and their relatives
- CO 10:** Develop an aptitude for medical research.



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NETAJI SUBHAS MEDICAL COLLEGE AND HOSPITAL
NEAR 7TH PHASE, INDUSTRIAL AREA, ADITYAPUR
SARAIKELA-KHARSAWAN
JHARKHAND-832109

(Signature)
20/12/25



NETAJI SUBHAS MEDICAL COLLEGE AND HOSPITAL

(A Unit of Sitwanto Devi Mahila Kalyan Sansthan)

Adityapur, Seraikela Kharsawan, Jharkhand - 832 109

Approved by National Medical Commission, New Delhi

Department of Medical Science under Netaji Subhas University, Jamshedpur

☎1800 889 8518

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✉contact@nsmch.ac.in

🌐www.nsmch.ac.in

Ref. No: *PRINCIPAL/ACAD/01/2025/016(2)*

Date: *20th Dec 2025*

CO 11: Correctly record case files, medical documents and medical certificates

CO 12: Diagnose and manage common respiratory illness

CO 13: Diagnose provisionally common Psychiatric disorders

CO 14: Diagnose and manage common dermatology problems as physician of first contact

OBSTETRICS & GYNAECOLOGY

At the end of the course, the student shall be able:

CO 1: Conduct normal deliveries, using safe delivery practices in the primary and secondary care settings.

CO 2: Provide peri-conceptional counselling and antenatal care.

CO 3: Elicit history related to antenatal case, Perform serial obstetrics examination and analysis of findings.

CO 4: Identify high-risk pregnancies and refer appropriately.

CO 5: Prescribe drugs safely and appropriately in pregnancy and lactation.

CO 6: Diagnose complications of labour, institute primary care and refer in a timely manner.

CO 7: Perform early neonatal resuscitation.

CO 8: Provide postnatal care, including education in breast-feeding.



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- CO 9:** Counsel and support couples in the correct choice of contraception.
- CO 10:** Interpret test results of laboratory and radiological investigations as they apply to the care of the obstetric patient.
- CO 11:** Interpret test results of laboratory and radiological investigations as they apply to the care of the gynaecology patient.
- CO 12:** Apply medico-legal principles as they apply to tubectomy, Medical Termination of Pregnancy (MTP), Pre-conception and Prenatal Diagnostic Techniques (PC PNDT Act) and other related Act and perform accordingly.
- CO 13:** Elicit a gynaecologic history, perform appropriate physical and pelvic examinations and PAP smear in the primary care setting.
- CO 14:** Recognize, diagnose and manage common reproductive tract infections in the primary care setting,
- CO 15:** Recognize and diagnose common genital cancers and refer them appropriately.
- CO 16:** Elicit common post procedural complications and seek appropriate opinion
- CO 17:** Follow universal precaution, handle biological tissue and body fluid.



Dr. P. K.
20/12/25
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PAEDIATRICS

At the end of the course, the student shall be able:

- CO 1:** Assess and promote optimal growth, development and nutrition of children and adolescents and identify deviations from normal.
- CO 2:** Recognize and provide emergency and routine ambulatory and First Level Referral Unit care for neonates, infants, children and adolescents and refer as may be appropriate.
- CO 3:** Perform procedures as indicated for children of all ages in the primary care setting.
- CO 4:** Recognize children with special needs and refer appropriately.
- CO 5:** Promote health and prevent diseases in children.
- CO 6:** Participate in National Programmes related to child health and in conformation with the Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Strategy.
- CO 7:** Communicate appropriately and effectively with parents and child



AT
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