



DR. KNS MEMORIAL
INSTITUTE OF MEDICAL SCIENCES
(Formerly known as Mayo Institute of Medical Sciences)

(A Unit of Bodhisatva Charitable Trust)

No MIMS/EX/2025/

Dated: 21.01.2025

DEPARTMENT OF MEDICAL EDUCATION

ELECTIVE MODULES
(BLOCK -1)

For

MBBS STUDENTS OF 2021-22 BATCH

AS PER

NMC - COMPETENCY BASED CURRICULUM

INDEX

BLOCK 1

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7.	Pathology	Thrombocytopenia
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BLOCK 1

Pre-/Para - clinical disciplines or in other basic sciences
laboratory or join ongoing research programs

BIOCHEMISTRY

BIOCHEMICAL LABORATORY TESTS - 1

Name of Block	Block 1
Name of Elective	Biochemistry
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. <ul style="list-style-type: none"> • Observe use of commonly used equipments/techniques in biochemistry laboratory including: <ul style="list-style-type: none"> • pH meter • Paper chromatography of amino acid • Protein electrophoresis • TLC / Electrolyte analysis by ISE • ABG analyzer • ELISA • Autoanalyser 2. Correlation of altered biochemical values with health and disease. 3. Elaborating precautions to be taken in Biochemistry Lab.
	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor to observe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. 2. Work daily with a supervisor to observe commonly used techniques in biochemistry laboratory

	<ol style="list-style-type: none"> 3. Work daily with a supervisor for Correlation of altered biochemical values with health and disease / precautions to be taken in Biochemistry Lab 4. Participate in departmentaleducation activities 5. Present at least two data 's done bystudent as a case work up
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentationdone
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	<p>Formative:</p> <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	NA

BIOCHEMICAL LABORATORY TESTS - 2

Name of Block	Block 1
Name of Elective	Biochemistry
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. 2. Explain the basis and rationale of biochemical tests done in the following conditions: <ul style="list-style-type: none"> - Diabetes Mellitus, - Dyslipidemia, - Myocardial Infarction, - Renal Failure, Gout, - Proteinuria, - Nephrotic Syndrome, - Edema, <ul style="list-style-type: none"> - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, -thyroid disorders. 3. Correlation of altered biochemical values with health and disease. 4. Elaborating precautions to be taken in Biochemistry Lab.
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor to observe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. 2. Work daily with a supervisor to observe the basis and rationale of biochemical tests done in the above conditions 3. Work daily with a supervisor for Correlation of altered

	biochemical values with health and disease / precautions to be taken in Biochemistry Lab 4. Participate in departmental education activities 5. Present at least two data's done by student as a case work up
Portfolio entries required	1. Documentation of worked up cases 2. Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a "meets expectation '(M)' grade"
Assessment	Formative: <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

MICROBIOLOGY

BIO-MEDICAL WASTE (BMW)

Name of Block	Block 1
Name of Elective	Microbiology- BMW
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Define Healthcare Associated Infections (HAI) and enumerate the types. Discuss the factors that contribute to the development of HAI and the methods for prevention 2. Describe the basics of Infection control 3. To assist in monitoring of Air & Surface surveillance of critical areas in hospital. 4. To observe and assist in segregation of BMW according to BMW guidelines 5. To assist in monitoring of transport and storage of BMW 6. Documentation and record maintenance
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook and Handouts will be provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor in observing, assisting and defining Healthcare Associated Infections 2. Work daily with a supervisor to assist in monitoring of Air & Surface surveillance of critical areas in hospital / To observe and assist in segregation of BMW according to BMW guidelines / To

	<p>assist in monitoring of transport and storage of BMW</p> <ol style="list-style-type: none"> 3. Participate in departmental activities of segregation & Transportation of BMW according to BMW guidelines 4. Participate in departmental education activities of Infection control measures 5. Keep record of at least 10 patients and Present at least two data's done by student as a case work up
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	<p>Formative:</p> <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

INFECTION CONTROL

Name of Block	Block 1
Name of Elective	Microbiology – Infection Control
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. To demonstrate the various causative agents of Infectious diseases & their role in health and disease. 2. To demonstrate various methods used in their detection / Gram Stain, ZN stain and stool routine microscopy / Culture / Serology 3. Describe the epidemiological basis of common infectious diseases 4. Demonstrate the different methods of sterilization and disinfection 5. Choose the most appropriate method of sterilization and disinfection to be used in specific situations in the laboratory, in clinical and surgical practice
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook will be provided

List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor inobserving, assisting and defining Infection control measures 2. Work daily with a supervisor To demonstrate various methods used in their detection / Gram Stain, ZN stain and stool routine microscopy / Culture / Serology -- Describe the epidemiological basis of common infectious diseases / Demonstrate the different methods of sterilization and disinfection 3. Work daily with a supervisor To Choose the most appropriate method of sterilization and disinfection to be used in specific situations in the laboratory, in clinical and surgical practice 4. Participate in departmental activities of sterilization and disinfection of samples & select most appropriate method / departmentaleducation activities of Infection control 5. Keep record of at least 10 patients and Present at least two data's done by student as a case work up
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Portfolio entries required	<ol style="list-style-type: none"> 6. Documentation of worked up cases 7. Documentation of presentation
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	Formative: <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

RESEARCH PROJECT: INCIDENCE PATTERN OF SKIN DISEASES IN SCHOOL GOING STUDENTS OF BARABANKI.

Name of Block	Block 1
Name of Elective	Microbiology & Dermatology: Incidence pattern of Skin diseases in school going students of Barabanki.
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning aims & objectives of elective	<ol style="list-style-type: none"> 1. To visit the schools in the district Barabanki to Document the presence of various skin disorders in the school going children upto class 8th. 2. Take samples whenever possible for culture and other diagnostic tests for diagnosis of the disease. 3. Propose primary treatment of the condition to these students as advised by the specialist guide. 4. Documentation and record maintenance and prepare a manuscript on the subject for publication.
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided

List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor to Document the presence of various skin disorders in the school going children upto class 8th. 2. Work daily with a supervisor to take samples whenever possible for culture and other diagnostic tests for diagnosis of the disease / Propose primary treatment of the condition to these students as advised by the specialist guide. 3. Participate in departmentaleducation activities related to skin & its control measures (diagnostic & therapeutic) . 4. Keep record of at least 10 patients and Present at least two data's done by student as a case work up
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Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	<p>Formative:</p> <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

PATHOLOGY

MEGALOBLASTIC ANEMIA

Name of Block	Block 1
Name of Elective	Pathology – Megaloblastic Anemia
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Describe laboratory investigations of Macrocytic anemia 2. The metabolism of Vitamin B12 and the etiology and pathogenesis of B12 deficiency 3. Perform in a team to do peripheral blood smear and identify picture of Macrocytic anemia 4. Enumerate the differences and describe the etiology and distinguishing features of Megaloblastic and non-Megaloblastic Macrocytic anemia
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor in observing, assisting and performing laboratory investigations of Macrocytic anemia 2. Perform in a team to do peripheral blood smear and identify picture of Macrocytic anemia 3. Perform in a team to Enumerate the differences and describe the etiology and distinguishing features of Megaloblastic and non-Megaloblastic Macrocytic anemia 4. Participate in departmental education activities 5. Keep record of at least 10 patients and Present at least two data's done by student as a case work up

Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	<p>Formative:</p> <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

THROMBOCYTOPENIA

Name of Block	Block 1
Name of Elective	Pathology – Thrombocytopenia
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Describe laboratory investigations of Thrombocytopenia 2. the metabolism of Platelets and the etiology and pathogenesis of Platelet B12 deficiency 3. Perform in a team to do peripheral blood smear and identify picture of Thrombocytopenia 4. Enumerate the differences and describe the etiology and distinguishing features of Thrombocytopenia and other causes of bleeding disorders.
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor in laboratory investigations of Thrombocytopenia Participate in departmental education activities 2. Perform in a team to do peripheral blood smear and identify picture of Thrombocytopenia 3. Perform in a team to enumerate the differences and describe the etiology and distinguishing features of Thrombocytopenia and other causes of bleeding disorders. 4. Keep record of at least 10 patients and Present at least two data's done by student as a case work up

Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	<p>Formative:</p> <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

BLOOD BANKING & TRANSFUSION.

Name of Block	Block 1
Name of Elective	Pathology – Blood Banking & Transfusion.
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Classify and describe blood group systems (ABO and RH) 2. Describe the indications, principles, and the steps of compatibility testing 3. Blood components and describe their clinical uses 4. Perform in a team to do blood transfusion. 5. Enumerate and describe infections transmitted by blood transfusion 6. Describe transfusion reactions and enumerate the steps in the investigation of a transfusion reaction
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor in Classify and describe blood group systems (ABO and RH) / compatibility testing 2. Work daily with a supervisor to Perform in a team to do blood transfusion 3. Work daily with a supervisor to find out infections transmitted by blood transfusion / its investigations & management 4. Participate in departmental education activities 5. Keep record of at least 10 patients and Present at least two data's done by student as a case work up

Portfolio entries required	<ol style="list-style-type: none">1. Documentation of worked up cases2. Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	Formative: <ul style="list-style-type: none">• attendance;• day-to-day participation in departmental activity• performance of assigned tasks and• presentation of worked up case in department
Other comments	

RESEARCH PROJECT: DIAGNOSTIC ACCURACY OF FNAC IN VARIOUS DISEASES

Name of Block	Block 1
Name of Elective	Pathology & other concerned Clinical Departments
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning aims & objectives of elective	<ol style="list-style-type: none"> 1. To enumerate diseases in which FNAC is advised. 2. To perform in a team to take FNAC samples. 3. To perform in a team to diagnose diseases in various samples. 4. To note diagnostic accuracy of FNAC in diagnosing various diseases coming to Department of Pathology.
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor to enumerate diseases in which FNAC is advised 2. To perform in a team to take FNAC samples. 3. To perform in a team to diagnose diseases in various samples. 4. Work daily with a supervisor To note diagnostic accuracy of FNAC in diagnosing various diseases coming to Department of Pathology 5. Participate in departmental education activities 6. Keep record of at least 10 patients and Present at least two data's done by student as a case work up

Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	<p>Formative:</p> <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

PHARMACOLOGY

PHARMACOVIGILANCE

Name of Block	Block 1
Name of Elective	Pharmacology - Pharmacovigilance
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Describe principles of Pharmacovigilance & ADR reporting systems 2. Define, identify and describe the management of adverse drug reactions (ADR) 3. Identify and describe the management of drug interactions 4. Functioning of Regulatory body for Pharmacovigilance 5. Department (clinical) visits to note adverse drug reactions in the last 6 months.
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor to understand principles of Pharmacovigilance & ADR reporting systems 2. Work daily with a supervisor to understand principles of management of adverse drug reactions (ADR) / drug interactions 3. Work daily with a supervisor for visits to note adverse drug reactions in the last 6 months. 4. Participate in departmental education activities 5. Keep record of at least 10 patients and Present at least two data's done by student as a case work up
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation done

Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	Formative: <ul style="list-style-type: none">• attendance;• day-to-day participation in departmental activity• performance of assigned tasks and• presentation of worked up case in department
Other comments	

COMMUNITY MEDICINE

PREVALENCE OF OBESITY IN DIABETIC PATIENTS IN RURAL BARABANKI

Name of Block	Block 1
Name of Elective	Community Medicine
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Evaluation of incidence of Obesity in known cases of diabetes patients in Barabanki. 2. Grading Obesity as per WHO criterias 3. Role of Obesity in severity of Diabetes 4. Incidence of Obesity with type of Diabetes.
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor in observing, assisting Evaluation of incidence of Obesity in known cases of diabetes patients in Barabanki. 2. Work daily with a supervisor in observing role of Obesity in severity of Diabetes 3. Work daily with a supervisor in observing Incidence of Obesity with type of Diabetes. 4. Participate in departmental education activities 5. Keep record of at least 10 patients and Present at least two

	data's done by student as a case work up
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Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a "meets expectation '(M)' grade"
Assessment	Formative: <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

KNOWLEDGE AND PRACTICE OF SCHOOL GOING CHILDREN ABOUT SANITATION HABITS AND ITS CORRELATION WITH HEALTH STATUS

Name of Block	Block 1
Name of Elective	Community Medicine
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Evaluation of Knowledge and practice of school going children about sanitation habits of children in Barabanki. 2. Awareness of these children towards: <ul style="list-style-type: none"> • Washing Hands • Covering mouth while coughing • Having regular baths & Shower • Brushing Teeth 3. Evaluation of parental awareness towards sanitation habits of children
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor in observing, assisting and collecting data on Knowledge and practice of school going children about sanitation habits of children in Barabanki. 2. Work daily with a supervisor in finding parental awareness towards sanitation habits of children

	<ol style="list-style-type: none"> 3. Participate in departmental education activities 4. Keep record of at least 10 patients and Present at least two data's done by student as a case work up
Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a "meets expectation '(M)' grade"
Assessment	Formative: <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

STUDY ON PROTEIN ENERGY MALNUTRITION AMONG UNDER 5YRS CHILDREN LIVING IN RURAL BARABANKI

Name of Block	Block 1
Name of Elective	Community Medicine
Location of hospital Lab or research facility	Medical College hospital
Name of internal preceptor(s)	Names will be mentioned after allotment
Name of external preceptor (if applicable)	N/A
Learning objectives of elective	<ol style="list-style-type: none"> 1. Evaluation of PEM in under 5years population in Barabanki. 2. Incidences of PEM in under 5years population in Barabanki. 3. Parental awareness towards PEM in these children. 4. Suggestions of measures for improvement including referrals.
Number of students that can be accommodated in this elective	10
Prerequisites for elective	Necessary immunizations, Universal precaution to be taken
Learning resources for students	Departmental handbook provided
List of activities of student participation	<ol style="list-style-type: none"> 1. Work daily with a supervisor Evaluation of PEM in under 5years population in Barabanki 2. Participate in departmental education activities related to PEM 3. Work daily with a supervisor towards Parental awareness towards PEM in these children. 4. Keep record of at least 10 patients and Present at least two records done by student as a case work up

Portfolio entries required	<ol style="list-style-type: none"> 1. Documentation of worked up cases 2. Documentation of presentation done
Log book entry required	Completion of posting signed by preceptor with a “meets expectation ‘(M)’ grade”
Assessment	<p>Formative:</p> <ul style="list-style-type: none"> • attendance; • day-to-day participation in departmental activity • performance of assigned tasks and • presentation of worked up case in department
Other comments	

DEPARTMENT OF MEDICAL EDUCATION

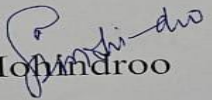
**ELECTIVE MODULES
(BLOCK -1)**

For

MBBS STUDENTS OF 2021-22 BATCH

AS PER

NMC - COMPETENCY BASED CURRICULUM


Dr. N.K. Mohindroo

Dean

Dr KNS MIMS