

**Nizam's Institute of Medical Sciences, Hyderabad**  
**Core curriculum course (Research Methodology and Medical Ethics)**  
**Venue: Learning Centre, NIMS**  
**Class: 8.00 am to 8.45 am**

**Online Assessment (10 questions on the day's topic): 8.45 am to 9.00 am.**

S. No.	Date	Topic	Learning objectives	Presenters
1	01/12/23 Fri	Research Methodology	<ul style="list-style-type: none"> <li>● Importance of understanding research methodology</li> <li>● Outline of the Research Methodology course</li> <li>● Overview of the 'Basic Course in Biomedical Research' (NMC-mandated online BCBR course)</li> <li>● Enrolment &amp; assessment for the BCBR course</li> </ul>	Dr Megha Uppin Dr A Neelima
2	02/12/23 Sat	Hospital Finances	<ul style="list-style-type: none"> <li>● Overview of hospital financial management</li> <li>● Aarogyasri Scheme</li> <li>● Employees Health Scheme</li> <li>● Central Govt Health Scheme (CGHS)</li> <li>● Other insurance schemes</li> </ul>	Prof N Satyanarayana
3	04/12/23 Mon	Medical Ethics – I	<ul style="list-style-type: none"> <li>● Importance of ethics in medical practice</li> <li>● Principles of medical ethics</li> </ul>	Dr Jumana Hussain Dr Chandana
4	05/12/23 Tues	Medical Ethics - II & Patient Communication	<ul style="list-style-type: none"> <li>● Medical ethics in clinical practice</li> <li>● Principles of effective doctor-patient communication</li> <li>● Counselling of the patient/ family</li> <li>● Breaking bad news/ helping relatives cope with grief</li> </ul>	Role play: Dr Jumana Dr Shashidhar [with Social worker & Staff Nurses]
5	06/12/23 Wed	Antimicrobial Stewardship Program (AMSP)	<ul style="list-style-type: none"> <li>● Antibiotic misuse &amp; the impact of antimicrobial resistance</li> <li>● Understanding the Hospital Antibigram</li> <li>● Use of evidence-based guidelines for appropriate antibiotic usage</li> <li>● Interventions to improve patient care and minimize resistance</li> </ul>	Prof MVS Subbalaxmi Dr Roopali Somani
6	07/12/23 Thurs	Clinical Immunology	<ul style="list-style-type: none"> <li>● Cells and organs of the immune system</li> <li>● Innate immune system</li> <li>● T and B cell development and subsets</li> </ul>	Dr D Phani Kumar
6	08/12/23 Fri	Immunopathology	<ul style="list-style-type: none"> <li>● Basic principles of immunology</li> <li>● Role of immunopathology in disease causation</li> <li>● Laboratory assays for autoimmune pathology and immunodeficiency</li> </ul>	Prof Tara Roshni Paul Dr S Sukanya
8	09/12/23 Sat	Molecular Biology & Genetics	<ul style="list-style-type: none"> <li>● Basic principles of molecular biology and genetics</li> <li>● Molecular &amp; genetic basis of disease</li> <li>● Laboratory techniques for exploring the genetic basis of disease</li> </ul>	Dr Prajnya Ranganath Dr Krishna Mohan
9	11/12/23 Mon	Genetics in Medicine	<ul style="list-style-type: none"> <li>● Clinical genetics</li> <li>● Diagnostic molecular biology</li> <li>● Cancer genetics</li> <li>● Microbial genetics</li> </ul>	Dr Shagun Aggarwal Dr Rachana Ch Dr S Sukanya
10	12/12/23 Tues	Biomedical waste management	<ul style="list-style-type: none"> <li>● Basics of biomedical waste</li> <li>● Segregation and collection of biomedical waste</li> <li>● Treatment, processing, and disposal of biomedical waste</li> <li>● Patient and caregiver hygiene</li> </ul>	Dr N Lakshmi Bhaskar Dr K Padmaja
11	13/12/23 Wed	Basic mechanical ventilation	<ul style="list-style-type: none"> <li>● Indications for mechanical ventilation</li> <li>● Common modes of mechanical ventilation</li> <li>● Ventilator settings &amp; monitoring</li> <li>● Weaning off the ventilator</li> <li>● Non-invasive ventilation</li> </ul>	Dr J Kavitha

Prof. M.Nageswara Rao  
Associate Dean – Academic  
To

All the HODs/Unit Heads are requested to send the first year residents to attend the classes without fail as the classes are mandatory