

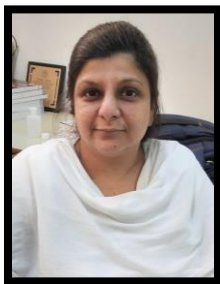
DEPARTMENT OF PHYSIOLOGY AT MMC

INTRODUCTION:

Physiology is the science of the functions of living organisms and their parts. It forms the foundation of all medical sciences. Physiology is a very broad scientific discipline that sits at the heart of many related subjects. As a subject, it spans from the molecular and cellular level through organ, tissue and whole system level. It provides the bridge between scientific discoveries and their application to medical science.

Physiology, the Science of life is the foundation of clinical medicine. The knowledge of the intricate workings of different body systems and their complex interrelationships forms the core of the subject. This understanding enables the students to correlate the pathology of a disease and its treatment in contributing to the development of the core skills of a competent doctor.

HEAD OF THE DEPARTMENT:



Dr. Tanu Aggarwal

Professor and Head of The Department

Dr. Tanu Aggarwal is an MBBS from LLRM Medical College, Meerut and has done her M.D. from S.N. Medical College, Agra. She has a professional experience of more than 11 years with more than 11 publications in various National and International Journals like Eosinophil Count in Petrol Pump Workers in and around the Muzaffarnagar City National Journal of Physiology, Pharmacy, and Pharmacology; 2014, Pranayama Has Additive Beneficial Effects Along with Medication in Bronchial Asthma Patients. Journal of Physiology and Pharmacology Advances in December; 2013, Heart rate variability in non-diabetic offspring of type 2 diabetic patients. Journal of advance researches in biological sciences; 2013, Plasma leptin levels & body mass index in north Indian subjects: correlation with insulin resistance. Journal of advance research in biological sciences; 2013, and many more.

Awards and Achievements:

1. 2nd prize as speaker in Biochemistry Workshop.
2. Participated as speaker in Revised Basic Course Workshop & Curriculum Implementation Support Programme.

3. Ongoing Advance Course in Medical Education (ACME)
4. Member of – Animal Ethical Committee
 - Foundation Course Committee
 - Curriculum Committee
 - Medical Education Unit

VISION OF THE DEPARTMENT:

Our vision is to improve the standards of teaching for both undergraduate and postgraduate students that cope with the global levels and work towards being a leading department where we aim to conduct researches that can solve many significant problems in our community and contribute significantly to the advancement of scientific and medical knowledge

MISSION OF THE DEPARTMENT:

To provide educational services in the field of physiology, teaching and practical training for undergraduate and post graduate students and conducting research in the field of Medical Physiology.

COURSES:

1. UG

- General information- Teaching Physiology to phase I MBBS Students.
- Total No. of seats- 150/year.
- Eligibility requirements-
 - 10+2
 - Selection Procedure Details Merit list as per NEET examination.
- Accommodation -Hostel facilities available

2. PG

- General information- MD Physiology by Muzaffarnagar Medical College, 3 years course.
- Total no. of seats-2/year.
- Eligibility requirements – As per NMC Rules.
- Selection Procedure Details- By PG NEET Examination.
- Accommodation -Hostel facilities available

FACILITIES AND EQUIPMENT:

For Under Graduate Students:

- One lecture hall with a capacity of 150 students and 2 demonstration rooms with 75 seating capacity for each and equipped with audio-visual aids are available.
- Separate hematology, clinical Physiology, amphibian, mammalian and research laboratory with requisite space, capacity, platforms with water supply, drainage and adequate lighting arrangement and necessary types of equipment as per NMC norms are available.
- National Medical Commission curriculum is followed.
- Teaching and evaluation (internal and external) as per National Medical Commission recommendation.

POST GRADUATE DEPARTMENT:

- Postgraduate students participate in undergraduate teaching.
- PG students maintain logbook of each and every aspect of training given in the department of Physiology and other departments where they are posted.
- Regular schedule of interactive PG lectures, 2 seminars per week, journal club, group discussion and PG practicals are followed.
- Department possesses a seminar room with adequate space, and audio-visual aids for PG classes.
- Departmental research laboratory is well equipped and offers facilities to carry out research work
- On spirometer, Autonomic function tests, Nerve Conduction Velocity, Brainstem Evoked Response
- Audiometry.
- Lectures/seminars on sports physiology, physiology of yoga, geriatric physiology, Neonatal physiology, blood bank technology, Marine physiology, space physiology are conducted in the department.
- For training in research methodology integrated teaching classes on Sampling, Data Analysis, Bioinformatics- use of Databases and Sources of databases on the web, and how to write and publish scientific papers are conducted.
- PG students in our department are posted during 2nd year residency in the following departments:-
- General Medicine, Emergency medicine, Blood bank and Pathology department, Ophthalmology, Biochemistry department, Cardiology department, ENT department, Psychiatry department, PSM department.

Academic Activities:

UG

- One month Foundation course
- Theory and Practical Classes which includes – Lectures
Small Group Discussion
Self-Directed Learning
Early Clinical Exposure

Integrated Classes
Demonstrations
DOAP Sessions

Standard operating procedures (SOP):

Policies regarding general departmental functioning, laboratories, and library.

- 1) SOP for general departmental functioning
- 2) SOP for the students in physiology laboratories
- 3) SOP for departmental library