

DEPARTMENT OF PHYSIOLOGY
NEELIMA INSTITUTE OF MEDICAL SCIENCES
ANURAG UNIVERSITY

REPORT ON PHYSIOLOGY CHARTS AND MODEL PRESENTATION

1. Introduction

The Department of Physiology organized a Chart and Model Presentation on various topics in Physiology for the First MBBS (Batch 2025) students on 4th July 2026, from 11:00 AM to 1:00 PM, in Lecture Hall-1. The activity was conceived as part of the department's ongoing efforts to promote active and experiential learning methodologies, moving beyond conventional didactic lectures to foster deeper conceptual understanding among students. By engaging students in the creation and presentation of charts and models, the exercise aimed to make abstract physiological concepts more tangible, visual, and memorable. The event was planned and executed under the guidance of the following faculty member viz. Dr. Santosh V Chidri, Dr. T Sowjanya, Mrs K Deepthi, Mrs Radhika Reddy, Dr. Afna Ansari, Dr Sneha Reddy and Dr Priyani.

2. Objectives

The activity was designed with the following objectives in mind:

- To enhance students' understanding of physiological concepts through visual and hands-on learning
- To develop creativity, teamwork, and communication skills among students
- To encourage active participation and peer learning

3. Structure of the Activity

To ensure structured and effective participation, the entire batch of First MBBS students was divided into 10 groups, with 20 students in each group. Each group was assigned a specific topic in Physiology and was expected to prepare a chart and/or model that visually represented the underlying physiological concept, mechanism, or process. Each group was allotted 5 minutes to present their chart or model to the audience. This was followed by a brief question-and-answer session, during which faculty members posed questions to assess the depth of the students' understanding and clarify any doubts. This interactive format ensured that the activity was not merely a display exercise but also a genuine test of conceptual clarity. To maximize visibility and engagement, live video capture of each presentation was arranged, with real-time projection onto the screen in the lecture hall.



Mechanism of Hearing



Skeletal Muscle Contraction



Conducting System of the Heart



Ascending and Descending Tracts



Signal Transduction



Brodmann's Areas of the Brain



Sensory and Motor Homunculus



Neural Regulation of Respiration



Immunity



ECG: Electrocardiogram

Each group's chart and model was evaluated by the faculty based on the following parameters:

- **Creativity & Imagination** –originality and innovation in the concept and design
- **Scientific Accuracy** – correctness and clarity of the physiological concept depicted
- **Economical & Eco-Friendly Approach** – judicious and sustainable use of low-cost, recyclable, or readily available materials
- **Presentation** – clarity of explanation, confidence, and effectiveness of delivery
- **Teamwork** – degree of coordination, collaboration, and equal participation within the group

3. Highlights of the Event

The students displayed exceptional enthusiasm, creativity, and scientific understanding throughout the activity. Their innovative charts and models reflected thorough preparation and effective application of physiological concepts. The interactive format encouraged active participation, with even the quieter students confidently engaging in the presentations and discussions.

Beyond content knowledge, the activity provided a platform for students to enhance their cognitive skills such as application, analysis, and synthesis of physiological concepts as well as their psychomotor skills, through the hands-on process of designing, building, and refining their charts and models. The exercise also nurtured interpersonal skills, as students had to coordinate within their groups, delegate responsibilities, and collectively troubleshoot challenges during preparation.

4. Conclusion

The Chart and Model Presentation was a highly successful academic activity that effectively combined creativity with scientific learning. It reinforced theoretical knowledge through experiential learning and promoted teamwork, confidence, and critical thinking among the students. The Department of Physiology appreciates the enthusiastic participation of the students and the dedicated support of the faculty members in making the event a memorable and enriching learning experience.