

**No. D-11011/500/2024-AcademicCell (e-8284443)**

**Government of India  
National Medical Commission**

Sector-8, Dwarka  
New Delhi-110075  
12-09-2024

**Subject: Guidelines for Competency Based Medical Education (CBME) Curriculum 2024– regarding**

The revised guidelines for Competency Based Medical Education (CBME) Curriculum 2024 by the Under Graduate Medical Education Board (UGMEB) is enclosed herewith. All concerned stakeholders are requested to kindly take note of the same.

Encl.: As above

**Signed by B Srinivas**

**Date: 12-09-2024 14:52:16**

**DR B SRINIVAS  
SECRETARY**

Copy to:

- i. ACS/ PS/ Secretaries/ Department/s of Medical Education in all States/ Union Territories
- ii. PPS to Chairman, NMC
- iii. PPS to President(UGMEB)
- iv. DMMP-I System Integrator- for uploading of NMC Website
- v. Guard File



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**राष्ट्रीय आयुर्विज्ञान आयोग**  
**National Medical Commission**  
**Academic Cell**

**Undergraduate Medical Education Board**

No.D-11011/500/2024/AC

New Delhi, dated the 12/09/2024

**Subject: Revised Competency Based Medical Education Curriculum (CBME) Guidelines, 2024 - National Medical Commission.**

In response to the various queries raised by stakeholders in respect to the Disability Guidelines (Annexure-14) mentioned in the CBME Guidelines, 2024 and other issues raised in respect of Topics and Competencies of various departments mentioned in the Guidelines, all the requisite addition/deletion has been carried out after due consultation with the experts of each Subject group.

2. Accordingly, Under Graduate Medical Education Board in exercise of powers conferred by the National Medical Commission Act, 2019 particularly by sections 10, 24, 25 and 57 of the NMC Act, publishes the Modified Competency Based Medical Education Guidelines, 2024 along with CBME Topics and Competencies Volume-I, II and III.

3. These guidelines will supersede the earlier Guidelines issued by Undergraduate Medical Education Board (UGMEB) and will be implemented from the MBBS batch of 2024-25 onwards.

*Aruna V. Vanikar*  
(Aruna V. Vanikar)  
President (UGMEB)



# NATIONAL MEDICAL COMMISSION COMPETENCY BASED UNDERGRADUATE CURRICULUM FOR THE INDIAN MEDICAL GRADUATE



**Volume I-2024**

Number	COMPETENCY The student should be able to:	Predominant Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Number required to certify P
PY3.7	Describe properties, action potential and molecular basis of muscle contraction in skeletal muscle	K	KH	Y	LGT SGT Flipped Classroom	Written/Viva voce	
PY3.8	Describe properties, action potential and molecular basis of muscle contraction in smooth muscle	K	KH	Y	LGT SGT	Written/Viva voce	
PY3.9	Describe the mode of muscle contraction (isometric and isotonic), energy source, muscle metabolism and gradation of muscular activity	K	KH	Y	LGT	Written/Viva voce	
PY3.10	Enumerate and briefly discuss myopathies	K	KH	Y	LGT SGT	Written/Viva voce	
PY3.11	Perform Ergography and calculate the work done by a skeletal muscle	S	SH	Y	DOAPs	Practical/OSPE/Viva voce	01 EACH
PY3.12 ✓	Observe with Computer assisted learning (i) Amphibian nerve -muscle experiments (ii) Amphibian cardiac experiments	S	SH	Y	DOAPs	Practical/OSPE/Viva voce	
<b>Topic 4: Gastro-intestinal Physiology</b>		<b>Number of competencies: (12)</b>			<b>Number of competencies that require certification : (01)</b>		
PY4.1	Describe the functional anatomy of digestive system	K	KH	Y	LGT SGT	Written/Viva voce	
PY4.2	Enumerate various Gastrointestinal hormones (GI) hormones, discuss their functions and regulation	K	KH	Y	LGT SGT	Written/Viva voce	
PY4.3	Describe the composition, mechanism of secretion, functions, and regulation of saliva	K	KH	Y	LGT SGT	Written/Viva voce	
PY4.4	Describe the composition, mechanism of secretion, functions, and regulation of gastric juice. Discuss various gastric function tests	K	KH	Y	LGT	Written/Viva voce	
PY4.5	Describe the composition, mechanism of secretion, functions, and regulation of pancreatic juice including various pancreatic exocrine function tests	K	KH	Y	LGT	Written/Viva voce	
PY4.6	Describe the composition, mechanism of secretion, functions, and regulation of intestinal juices	K	KH	Y	LGT	Written/Viva voce	
PY4.7	Describe the physiology of digestion and absorption of nutrients	K	KH	Y	LGT SGT	Written/Viva voce	
PY4.8	Describe GIT movements, its regulation and physiological significance including defecation reflex and the role of dietary fibres	K	KH	Y	LGT SGT Flipped Classroom	Written/Viva voce	