



TAGORE MEDICAL COLLEGE & HOSPITAL

Rathinamangalam, Melakkottaiyur Post, Chennai - 600127.
Phone : 044-30101111, Fax : 044-222 5555, Email: tagoremch@gmail.com



(Affiliated to the Tamil Nadu Dr.MGR Medical University & Recognized by the Ministry of Health & Family welfare. Govt. of India New Delhi)

MBBS - PROGRAM OUTCOMES -COURSE OUTCOMES ATTAINMENT

COURSE OUTCOME ASSESSMENT

The individual CO attainment for each course was done by assessing the direct attainment taking continuous internal assessment (CIA) and End year examination (EYE) marks as CO assessment tools.

Aspect	Threshold T	Weightage	Average performance of students	Overall course direct assessment
Internal Assessment	50%	20%	A	0.20*A+ 0.80*B = A1
End year Exam	50%	80%	B	

Course Outcome Attainment

A threshold (target) level was fixed for the CIA and EYE marks of all the courses in each program to calculate the attainment of COs and the POs.

Assessment Methods	Attainment Levels	
Internal Assessment	Level 1	Less than 50% of students scoring more than 50% marks
	Level 2	50% to 70% of students scoring more than 50% marks
	Level 3	More than 70% of students scoring more than 50% marks
End Year Exam	Level 1	Less than 50% of students scoring more than 50% marks
	Level 2	50% to 60% of students scoring more than 50% marks
	Level 3	More than 60% of students scoring more than 50% marks

Based on the marks obtained assessment table is given below.

Assessment Table

Particulars	Internal Assessment (A)	End Year Exam (B)
Total Number of Students Appeared (X)	150	150
Number of students Scoring above threshold (Y)	124	138
Percentage (Y/X*100)	82.7	92
Attainment Level	3	3

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Weightage	0.20*3 =0.6	0.80*3=2.4
Attainment factor (A1) (0.20*A+ 0.80*B) = (A1)	3	

CO -PO ARTICULATION MATRIX

The course outcomes (CO) of all the courses in the MBBS programs were mapped with all the program outcomes (PO). The CO-PO mapping was done with correlation levels of 3, 2, 1 and '-'. The notation of 3, 2 and 1 denotes that the concerned CO correlates with the PO substantially (high), moderately (medium) and slightly (low). The notation '-' denotes no correlation between the concerned CO and the PO. The average weightage of CO attainment level for each PO is obtained from the CO-PO matrix.

COURSE – HUMAN ANATOMY

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	2	2
CO2	3	3	3	3	3	3	3	3	3	3	2
CO3	3	3	3	3	3	2	3	3	3	2	3
CO4	3	3	3	2	2	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	2	3	3	2	3	3	2	2
CO7	3	3	2	2	2	2	2	3	3	2	2
Average weightage	3	3	2.9	2.5	2.7	2.7	2.7	3	3	2.4	2.4

COURSE – PHYSIOLOGY

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	2	2
CO2	3	3	3	3	3	3	3	3	3	3	2

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PO CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO3	3	3	3	3	3	2	3	3	3	2	3
CO4	3	3	3	3	2	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3	3	3	3	3	3	2	3
CO7	3	3	3	2	2	2	3	3	3	2	3
Average weightage	3	3	3	2.9	2.7	2.7	3	3	3	2.4	2.7

COURSE – BIOCHEMISTRY

PO CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	2	2
CO2	3	3	3	3	3	3	3	3	3	3	2
CO3	3	3	3	3	2	2	3	3	3	2	3
CO4	3	3	3	2	2	3	3	3	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	2	2	3	3	3	3	2	3
CO7	3	3	2	2	2	2	3	3	3	2	3
Average weightage	3	3	2.9	2.6	2.4	2.7	3	3	3	2.4	2.5


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COURSE - PHARMACOLOGY

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	2	2
CO2	3	3	3	2	3	3	2	3	3	3	2
CO3	3	3	3	2	2	3	2	3	3	2	2
CO4	3	3	3	2	2	3	3	3	3	3	2
CO5	3	3	3	3	3	3	2	3	3	3	2
CO6	3	3	3	2	2	3	2	3	3	2	3
CO7	3	3	3	2	2	2	3	3	2	2	3
Average weightage	3	3	3	2.4	2.4	2.8	2.4	3	2.7	2.4	2.3

COURSE – PATHOLOGY

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	2	3
CO2	3	3	3	3	3	3	2	3	2	2	2
CO3	3	3	3	2	3	2	2	3	3	2	2
CO4	3	3	3	2	2	3	3	3	3	3	2
CO5	3	3	3	3	3	3	2	3	2	3	3
CO6	3	3	3	2	2	2	2	3	3	2	3
Average weightage	3	3	3	2.5	2.7	2.7	2.3	3	2.7	2.3	2.5

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COURSE – MICROBIOLOGY

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	2	2	3	3	3
CO2	3	3	3	3	3	3	2	2	3	3	2
CO3	3	3	3	3	3	2	2	2	3	2	2
CO4	3	3	3	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3	3	3	3	3	3	3	3
Average weightage	3	3	3	3	3	2.8	2.5	2.3	3	2.8	2.7

COURSE – FORENSIC MEDICINE & TOXICOLOGY

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	2	2	2	2
CO2	3	3	3	3	3	3	3	2	3	3	2
CO3	3	3	3	3	3	2	2	2	3	2	2
CO4	3	3	3	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3	3	3	3	3	3	3	3
CO7	3	3	3	3	3	3	3	3	3	3	3
CO8	3	3	3	3	3	3	3	3	3	3	3
Average weightage	3	3	3	3	3	2.8	2.8	2.3	2.8	2.7	2.5

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COURSE – OPHTHALMOLOGY

PO CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	2	3	3	3	3	3	3	2
CO3	3	3	3	2	2	3	2	3	3	2	2
CO4	3	3	3	2	2	3	3	3	3	3	2
CO5	3	3	3	3	3	3	2	3	3	3	2
CO6	3	3	3	2	2	3	2	3	3	2	3
CO7	3	3	3	2	2	2	3	3	2	2	3
Average weightage	3	3	3	2.4	2.4	2.8	2.6	3	2.7	2.6	2.5

COURSE – OTORHINOLARYNGOLOGY

PO CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	2
CO3	3	3	3	3	3	3	3	2	3	2	2
CO4	3	3	3	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3	3	3	3	3	3	3	3
CO7	3	3	3	3	3	3	2	3	3	3	3
CO8	3	3	3	3	3	3	2	3	3	3	3
Average weightage	3	3	3	3	3	3	3	2.7	3	2.8	2.7

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COURSE - COMMUNITY MEDICINE

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	2
CO5	3	3	3	3	3	3	2	3	3	3	2
CO6	3	3	3	3	3	3	2	3	3	2	3
CO7	3	3	3	3	3	3	3	3	2	2	3
Average weightage	3	3	3	3	3	3	2.8	3	2.7	2.8	2.7

COURSE - GENERAL MEDICINE

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	2	3	2	3
CO4	3	3	3	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3	3	3	3	3	3	3	3
CO7	2	2	2	2	2	2	3	3	3	3	3
CO8	3	3	3	3	3	3	3	3	3	3	3
Average weightage	2.9	2.9	2.9	2.9	2.9	3	3	2.7	3	2.8	3


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COURSE - GENERAL SURGERY

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	2	3	2	3
CO4	3	3	3	3	3	3	3	2	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
CO6	3	3	3	3	3	3	3	3	2	3	2
CO7	3	3	3	3	3	3	3	3	2	3	2
CO8	3	3	3	3	3	3	3	3	3	3	2
Average weightage	3	3	3	3	3	3	3	2.7	2.9	2.8	2.8

COURSE – OBSTETRICS & GYNECOLOGY

CO \ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	2	3	2	3
CO4	3	3	3	3	3	3	3	2	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	2
CO6	3	3	3	3	3	3	3	3	3	3	2
CO7	2	2	2	2	2	2	3	3	3	3	2
CO8	3	3	3	3	3	3	2	3	3	3	2
CO9	3	3	3	3	3	3	2	3	3	3	2

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CO10	3	3	3	3	3	3	2	3	3	3	2
CO11	3	3	3	3	3	3	2	3	3	3	2
CO12	3	3	3	3	3	3	2	3	3	3	3
Average weightage	3	3	3	3	3	3	3	2.7	3	2.8	2.5

COURSE – PEDIATRICS

PO CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO1	3	3	3	3	3	3	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	3	2	2
CO3	3	3	3	3	3	3	3	2	3	2	2
CO4	3	3	3	3	3	3	3	2	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3	2
CO6	3	3	3	3	3	3	3	3	2	3	2
CO7	3	3	3	3	3	3	3	3	2	3	3
CO8	3	3	3	3	3	3	3	3	3	3	3
Average weightage	3	3	3	3	3	3	3	2.7	2.9	2.6	2.3

OVERALL COURSE ATTAINMENT (DIRECT):

CO contribution to Programme Outcomes:

PO ATTAINMENT:

The overall PO attainment level of the batch of students was calculated using the formula:

= weighted average value of each PO × overall CO attainment average (A1) /3

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2017-2018 MBBS BATCH

OVERALL CO ATTAINMENT

Course name	Total Number of Students Appeared (X)	Number of students Scoring above threshold (Y)	Percentage (Y/X*100)	Threshold based CO attainment level (A1)	Percentage based CO attainment (Average % marks per course)
Human Anatomy	149	149	100	3	65.5
Physiology	149	149	100	3	69.3
Biochemistry	149	149	100	3	68.9
Pharmacology	149	149	100	3	67.9
Pathology	149	149	100	3	67.6
Microbiology	149	149	100	3	68.2
Forensic Medicine & Toxicology	149	149	100	3	69.3
Ophthalmology	149	149	100	3	63.1
Otorhinolaryngology	149	148	100	3	68.2
Community Medicine	149	148	100	3	70.9
General Medicine	149	148	100	3	62.2
General Surgery	149	148	100	3	64.5
Obstetrics & Gynecology	149	148	100	3	69.9
Pediatrics	149	148	100	3	65.0

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PO ATTAINMENT:

The overall PO attainment level of the batch of students was calculated using the formula:

$$= \text{weighted average value of each PO} \times \text{overall CO attainment average (A1)} / 3$$

Course name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Human Anatomy	3	3	2.9	2.5	2.7	2.7	2.7	3	3	2.4	2.4
Physiology	3	3	3	2.9	2.7	2.7	3	3	3	2.4	2.7
Biochemistry	3	3	2.9	2.6	2.4	2.7	3	3	3	2.4	2.5
Pharmacology	3	3	3	2.4	2.4	2.8	2.4	3	2.7	2.4	2.3
Pathology	3	3	3	2.5	2.7	2.7	2.3	3	2.7	2.3	2.5
Microbiology	3	3	3	3	3	2.8	2.5	2.3	3	2.8	2.7
Forensic Medicine & Toxicology	3	3	3	3	3	2.8	2.8	2.3	2.8	2.7	2.5
Ophthalmology	3	3	3	2.4	2.4	2.8	2.6	3	2.7	2.6	2.5
Otorhinolaryngology	3	3	3	3	3	3	3	2.7	3	2.8	2.7
Community Medicine	3	3	3	3	3	3	2.8	3	2.7	2.8	2.7
General Medicine	2.9	2.9	2.9	2.9	2.9	3	3	2.7	3	2.8	3
General Surgery	3	3	3	3	3	3	3	2.7	2.9	2.8	2.8
Obstetrics & Gynecology	3	3	3	3	3	3	3	2.7	3	2.8	2.5
Pediatrics	3	3	3	3	3	3	3	2.7	2.9	2.6	2.3
Weighted average value of each PO	2.99	2.99	2.98	2.8	2.8	2.85	2.79	2.79	2.88	2.61	2.57

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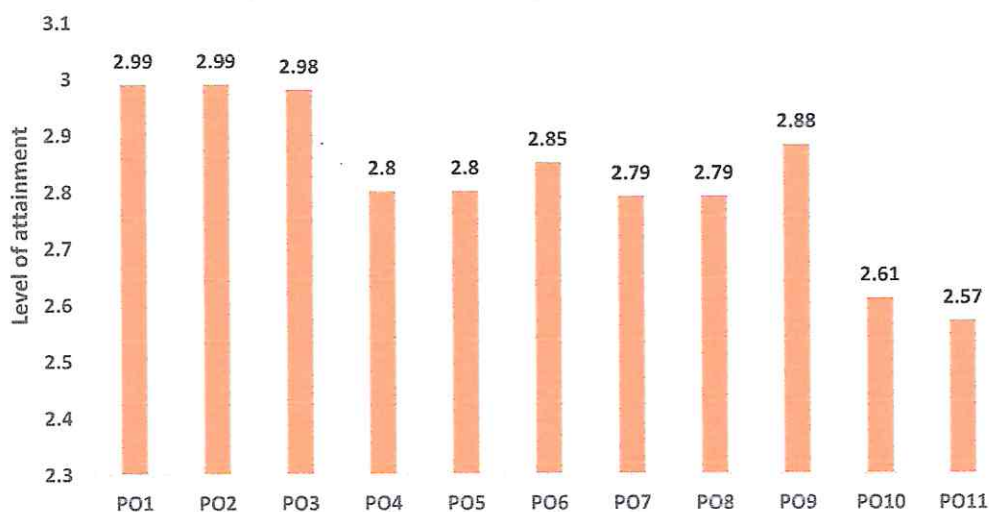


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Overall PO attainment

PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
2.99	2.99	2.98	2.8	2.8	2.85	2.79	2.79	2.88	2.61	2.57

MBBS 2017-2018 BATCH - OVERALL PO ATTAINMENT



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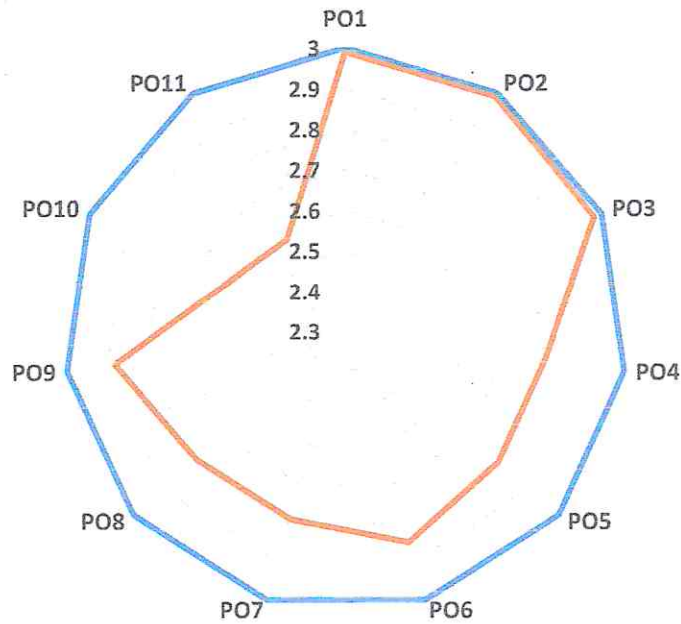


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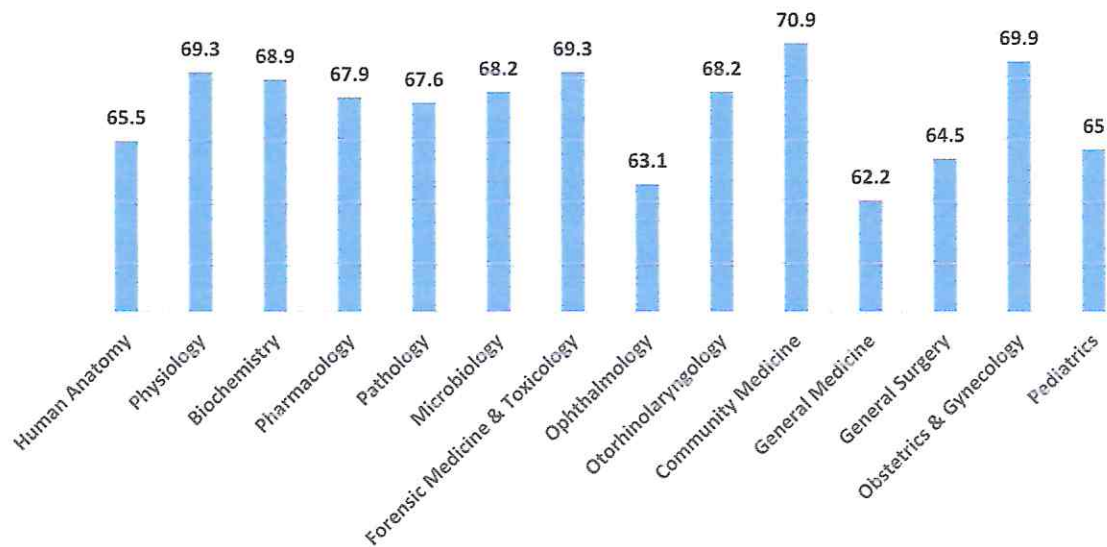
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PERCENTAGE MARKS BASED ATTAINMENT



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