1. Purpose

To provide objective methodology to evaluate the attainment of the stated departmental competencies, Program Specific Objectives (PSOs) and Indian Medical graduate (IMG) attributes.

2. Scope

The scope of this SOP involves undergraduate medical (MBBS course) undertaken in the department. It includes:

- To provide objective methodology to calculate the attainment of the stated department specific competencies.
- To evaluate the attainment of the PSOs
- To evaluate the attainment of the IMG attributes.

3. Responsibility

- It is the responsibility of the Head of the Department (HOD) along with mapping co-ordinator of the department to coordinate with the mapping subcommittee under the guidance of the Medical education Unit (MEU) to sensitize, initiate and track the departmental progress of the mapping module.
- MEU co-ordinator and the chairperson will finalize all methodologies related to the mapping module. MEU will organize faculty development programs to update and train faculty on the mapping module.

4. Detailed Methodology

The mapping module involves four major steps:

- Alignment of the graduate attributes, PSOs and competencies
- Calculate Competency attainment
- Calculate PSO attainment
- Calculate IMG attribute attainment

4. 1. ALIGNMENT OF THE GRADUATE ATTRIBUTES, PSOs AND COMPETENCIES

PSO statements need to be in alignment with the competencies and Indian Medical Graduate (IMG) attributes stated by National Medical Commission (NMC) of India.

Step 1: Refine your Program Specific Outcomes (PSOs) statements in alignment with IMG roles, namely clinician, professional, leadership, communicator, life-long learner.

Step 2: List your competency statements

Step 3: List your Program Specific Outcomes (PSOs) statements

Step 4: Align your Graduate Attributes with PSOs

Step 5: Align the competencies with the stated PSOs.

Note: A single competency can be mapped to a single or more PSOs as per the department consensus.

4. 2 CALCULATE COMPETENCY ATTAINMENT

4.2.1 Initial Competency attainment

Initial competency attainment can be done after each formative or summative assessment (Theory, practical/ clinical postings, clerkship)

Step 1: Prepare the Answer Keys/ checklist with competency number & Bloom's taxonomy for the question paper for which competency attainment has to be calculated

Step 2: Enter the individual question wise answer marks for each student in Excel sheet

Step 3: Calculate the average score obtained for each question

Step 4: Fix the threshold for attainment for each question Based on the difficulty level:

- ✓ Lower Order Thinking (LOT) recall based questions -90% of the total mark
- ✓ LOT Understanding based questions-70% of the total mark
- ✓ Higher Order Thinking (HOT)-50% of the total mark
- ✓ For MCQs and structured viva- 0/1 (Threshold fixation not needed; either 0 or 1)
- ✓ If a question has both components of LOT and HOT- calculate the average

Step 5: Calculate the number & percentage of students who attain the threshold levels.

Step 6: Fix the target level for each question as given below:

Level	Target for attainment
0	<30 of students scoring more than threshold
1	31-49% of students scoring more than threshold
2	50-70% of students scoring more than threshold
3	>70% of students scoring more than threshold

Step 7: Analyze the competencies of the topics tested. Calculate the average if same competency is tested multiple times

Step 8: Discuss the attained, unattained and not addressed competencies.

Step 9: Discuss the action plan for the unattained and not addressed competencies.

4.2.2 Final Competency Attainment

Final Competency attainment can be done at the end of the academic year after all formative and summative assessment have been carried out.

Step 1: Enter the initial competency attainment scores for all the stated competencies. A single competency may be addressed multiple times in different tests

Step 2: Take the average of all the competency attainment scores for each competency.

4.3 CALCULATE PSO ATTAINMENT

4.3.1 Initial PSO attainment

Calculate the average level of attainment score for the stated PSOs mapped with the respective competencies. This gives the initial PSO attainment.

4.3.2 Final PSO attainment

Final PSO attainment can be calculated after the University results are declared. Both direct and indirect assessments are taken into account for calculating the final PSO attainment.

Step 1: Calculate the university pass percentage

No. of students passed/No. of students appeared*100

Step 2: Fix the targets for attainment and grade the university pass percentages separately as 0,1,2,3. (Department consensus)

Step 3: Find the average score obtained by all the students appearing for a particular university exam

Step 4: Fix the targets for attainment and grade the average score as 0,1,2,3. (Department consensus)

Step 5: **Direct assessment** is calculated based on the grading-80% weightage to the initial PSO attainment, 10 % weightage to university pass percentage and 10% weightage to the university average scores.

Step 6: Indirect assessment can be done using course exit survey/faculty feedback/parents' feedback/feedback from student support system, feedback from attenders, clerks and technicians. Percentage for each competency will be calculated, average will be taken and graded as 0,1,2,3 (Department consensus).

Step 7: Final PSO attainment is calculated based on the weightage as: 80-90% direct assessment+10-20% Indirect assessment

Step 8: Level of attainment is equal to or greater than 2 is considered to be attained. Less than 2 is not attained

Step 9: Analyze the attained and unattained PSOs

Step 10: Discuss the action plan

4. 4 CALCULATE IMG ATTRIBUTE ATTAINMENT

Step1: Sum the final PSO attainment scores for the aligned IMG graduate attributes

Step 2: Discuss for action plan for the unattained and unaddressed IMG roles

GLOSSARRY

- *Competency:* The ability of a health professional that can be observed. It encompasses various components such as knowledge, skills, values, and attitudes. Competency is the application of competencies in an actual setting, and an individual who is able to do so is considered competent.
- *Program Specific Outcomes (PSOs):* The knowledge, skills, attitudes and techniques learnt at the end of the professional year.
- *Program Specific Outcome (PSOs) statements:* These are the statements that define the overall knowledge, skills and attitudes to be learnt at the end of the professional year.
- *Indian Medical graduate (IMG):* The aggregate knowledge, skills and attitude acquired by a health professional at the end of the entire MBBS degree
- Lower Order Thinking (LOT): As per the Blooms taxonomy, educational goals were categorized into lower order thinking namely; remember (recall facts and basic concepts) and understand (explain ideas and concepts).
- Higher Order Thinking (HOT): As per the Blooms taxonomy, educational goals were categorized into higher order thinking namely; apply (use information in new situation), analyze (draw connections among ideas), evaluate (justify a stand or decision) and create (produce new or original work).

	Designation	Signature
Prepared by	Dr. K. Soundariya MEU Co-ordinator	K. Soundary.
	Dr.Deepika Associate Professor	
Reviewed by	Dr. G. Kalaiselvan Dean (Research)	
Approved by	Dr. R. N. Kagne Deputy Director and Dean	
Issued by	Dr. D. Rajagovindan Director	

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KDS Model of Mapping Module for measuring competency attainment

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MAPPING PROTOCOL

1. COMPETENCY ATTAINMENT

1.1 Initial Competency attainment

Step 1: Prepare the Answer Keys with competency number & Bloom's taxonomy for the question paper for which competency attainment has to be calculated

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Step 2: Enter the individual question wise answer marks for each student in Excel sheet

Step 3: Calculate the average score obtained for each question

Step 4: Fix the threshold for attainment for each question (based on the difficulty level: LOT recall based -90% of the total; LOT Understanding-70% of the total; HOT-50% of the total)

- For MCQs and structured viva- 0/1 (Threshold fixation not needed; either 0 or 1)
- If a question has both components of LOT and HOT- calculate the average

Step 5: Calculate the number & percentage of students who attain the threshold levels.

Step 6: Fix the target level for each question as given below:

Level	Target for attainment
0	<30 of students scoring more than threshold
1	31-49% of students scoring more than threshold
2	50-70% of students scoring more than threshold
3	>70% of students scoring more than threshold

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Step 7: Analyze the competencies of the topics tested.

Step 8: Discuss the attained, not attained, not tested competencies, competencies addressed in practical.

Note: Calculate the average if same competency is tested multiple times. Discuss the action plan

Step 9: Analyze all the competencies in each topic and check for their level of attainment

1.2 Final Competency attainment

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Step 1: **Internal attainment:** Enter separately all the individual topic wise competency attainments (Direct tools: Internal assessments, summative assessments, formative assessments, structured viva etc.)

Step 2: Calculate the average of all the direct assessments (Value x)

Step 4: **External Attainment**: Calculate the university pass percentage in theory and practical's separately and fix the threshold (Department consensus).

Step 5: Fix the targets for attainment and grade the theory and practical percentages separately as 0,1,2,3. (Department consensus)

Step 6: Overall **Final attainment** is calculated based on the grading-20% weightage to internal attainment and 80 % weightage to external attainment (60% weightage to theory and 20% weightage to practical and viva together).

Step 7: Indirect assessment (course exit survey/faculty feedback/others), percentage for each cy will be calculated, average will be taken and graded as 0,1,2,3 (Department).

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Step 8: Final assessment (80% direct assessment+20% Indirect assessment)

Step 9: Fix the target levels of attainment (e.g., 75% of 2 is attained or else not attained)

Step 10: Analyze the attained and non-attained topics based on the overall competencies

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2. PROGRAM SPECIFIC OUTCOMES ATTAINMENT

2.1 Initial Correlation Matrix (Each Competency Vs Program Specific Outcomes)

Step1: List your competency statements

- Theory competency statements topic wise
- Skill competency statements topic wise

Step 2: List your Program Specific Outcomes (PSOs) statements

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Step 3: Mapping your competency statements to PSOs

- Map the competencies to the respective PSOs in each topic as 3, 2, 1
- 3- High correlation
- 2-Moderate correlation
- 1-Low correlation

Step 4: Calculate the average of correlation matrix for each topic wise competency and PSOs

Topic 1 PSO1= (PY1=Average of PY1.1+PY1.2…..PY1.9/9)

PSO2=(PY1=Average of PY1.1+PY1.2…..PY1.9/9)

Note: Similarly, Calculate the average for each topic for each PSO

Step 5: Final competency attainment value for each PSO

=Calculate the total average of all the topic wise competencies attainment **(X)**

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2.2 Final Correlation Matrix (Each Competency Vs Program Specific Outcomes)

Step1: Final Correlation matrix between overall topic wise competency and each PSO

Step2: Calculate the average of all correlation matrix for all topic taken together

PSO1=(Average=PY1+PY2+PY3…..PY11/11)…….Y

Step 3: Calculate the attainment as:

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(Average of the correlation levels calculated for PSO / 3)* Final competency attainment value

(Y/3)*X……A

Step 4: Fix the target levels of attainment (e.g., 75% of 2 is attained or else not attained)

Step 5: Analyze the attained and non-attained PSOs

Step 6: Discuss and action plan to be taken

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3. GRADUATE ATTRIBUTE ATTAINMENT

3.1 Initial Correlation Matrix (Each Program Specific Outcomes Vs Graduate Attributes)

Step1: List your Graduate Attributes (Clinician, Professional, Leader, Lifelong learner and Communicator)

Step 2: List your Program Specific Outcomes (PSOs) statements

Step 3: Map your Graduate Attributes with PSOs

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3- High correlation

- 2-Moderate correlation
- 1-Low correlation

Step 4: Calculate the average of correlation matrix for each graduate attribute ....P

Step 5: *Step 3:* Calculate the attainment as:

(Average of the correlation levels calculated for each graduate attribute / 3)* Final competency PSO attainment value

(P/3)*A

Step 4: Fix the target levels of attainment (e.g., 75% of 2 is attained or else not attained)

Step 5: Analyze the attained and non-attained Graduate attributes

Step 6: Discuss and action plan to be taken

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Table: Represents the sample process of measuring the competency attainment

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Question	Long Answer		Short answer						Very short answers										Total
Competency	1.1	1.2	1.6	1.4	1.3	1.7	1.5	1.8	1.9	1.10	1.11	1.15	1.12	1.13	1.14	1.15	1.17	1.18	
No.																			
Blooms taxonomy	U	U	R	Ap	U	An	R	An	U	U	U	Ap	An	U	An	U	U	R	
Roll no																			
1	8.5	8	5	4	3	1	2	-	3	2	1	2	0	0	0	0	2	2.5	44
2	8	8	3.5	2.5	4	1.5	3.5	-	3	3	3	3	1	3	2	3	3	2	57
3	7.5	7.5	3.5	-	4	2	4	0.5	1.5	0	3	0	0	1	0	0	1	0	35.5
4	7	7	5	2	2.5	1	4	3	3	1	3	2	1	1	1	3	3	2.5	52
5	8	6	4	2	3	2	3	-	3	2	3	3	0	2	3	3	3	2	52
AGGREGATE of all students	7.8	7.3	4.2	2.6	3.3	1.5	3.3	1.75	2.7	1.6	2.6	2	0.4	1.4	1.2	1.8	2.4	1.8	
Question wise max mark	10	10	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	
Competency 60% of threshold	6	6	3	3	3	3	3	3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
No. of students equal to or above threshold	5	4	5	1	4	0	4	1	4	3	4	4	0	2	2	3	4	4	
Percentage	100	80	100	20	80	0	80	20	80	60	80	80	0	40	40	60	80	80	
Correlation level	3	3	3	0	3	0	3	0	3	1	3	3	0	0	0	1	3	3	
Attainment	A	A	A	NA	A	NA	A	NA	A	NA	A	A	NA	NA	NA	NA	A	A	
	Level 0 (NA): <30% of students scoring threshold target, Level 1 (NA):31-49% of students scoring threshold target, Level 2 (A):50-70% of students scoring threshold target, Level 3 (A):>70% of students scoring threshold target																		

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Table: Correlation matrix showing Competency Vs Program Specific Outcomes (PSOs)

Competencies	PSO1	PSO2	PSO3
Comp 1	3	1	0
Comp 2	2	3	0
Comp 3	3	2	1
Comp 4	3	1	0
Comp 5	2	3	0
Comp 6	3	2	1
Average			
Attainment value	(Average of the correlation levels calculated for PSO/3) * Final competency attainment value		

Final competency attainment value=Average of all attainment scores calculated at the end of all assessments

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Table: Final Competency assessment

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Course	Competency	Assessment Tools	Test				UNIV Result				Direct Final Attainment	Indirect Assessment			Assessment	Attainment	Target	Attained/Notattained*
			IA/ME	AETCOM	Practicals	Average	Univ result		Practicals		60% UNIV+20% INT+20% Pract	Course exit survey	Faculty Feedback	Average	80% DA+20%IDA			
Physiology	PY1	Formative & Summative	2.3	1.16		1.7	94.00	3	94.00	3	2.75	3	3	3	2.80	2.80	2.00	Attained
	PY2		1.43	1.16	3.00	1.9	94.00	3	94.00	3	2.77	2	2	2	2.62	2.62	2.00	Attained
	PY3		2.3	1.16		1.7	94.00	3	94.00	3	2.75	1	2	1.5	2.50	2.50	2.00	Attained
	PY4		2.3	1.16		1.7	94.00	3	94.00	3	2.75	3	3	3	2.80	2.80	2.00	Attained
	PY5		1.65	1.16	1.00	1.3	94.00	3	94.00	3	2.65	2	3	2.5	2.62	2.62	2.00	Attained
	PY6		2.64	1.16	3.00	2.3	94.00	3	94.00	3	2.85	1	2	1.5	2.58	2.58	2.00	Attained
	PY7		2.01	1.16		1.6	94.00	3	94.00	3	2.72	3	3	3	2.77	2.77	2.00	Attained
	PY8		1.97	1.16		1.6	94.00	3	94.00	3	2.71	2	2	2	2.57	2.57	2.00	Attained
	PY9		1.93	1.16		1.5	94.00	3	94.00	3	2.71	1	2	1.5	2.47	2.47	2.00	Attained
	PY10		2.79	1.16	3.00	2.3	94.00	3	94.00	3	2.86	3	3	3	2.89	2.89	2.00	Attained
	PY11		1.75	1.16		1.5	94.00	3	94.00	3	2.69	3	3	3	2.75	2.75	2.00	Attained

*=IF(R6>=75%*S6,"Attained",Not attained)

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KALITHEERTHALKUPPAM,
PUDUCHERRY-605107.

Sri MANAKULA VINAYAGAR
Medical College and Hospital
Department of Anatomy

UNDER GRADUATES – MBBS – Phase I – [Batch 2021-2022]

Generic outcome

To provide comprehensive knowledge of the gross and microscopic structure and development of the human body t provide a basis for understanding the clinical correlation of organs of structures involved and the anatomical basis for the disease presentation.

Program Specific Outcome

1. Understanding of the gross and microscopic structure and development of the human body

2. Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.

3. Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.

4. Identify the organs and tissues under the microscope.

5. Knowing the principles of Karyotyping and identify the gross congenital anomalies.

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Department of Anatomy

Refined PSO (UG Medical)

Alignment of program specific outcomes with Indian medical graduate (IMG) attributes

REFINED PSO STATEMENT		
Department	**PSO**	**PSO statements**
Anatomy	PSO1	Understanding of the gross and microscopic structure and development of the human body
	PSO2	Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.
	PSO3	Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.
	PSO4	To instill professionalism by developing communication, leadership skills with ethical and moral values
	PSO5	To develop life-long learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development

INDIAN MEDICAL GRADUATE GOALS	
1	Clinician
2	Professional
3	Leadership
4	Communicator
5	Lifelong learner

1	Clinician	PSO1,PSO2, PSO3
2	Professional	PSO1, PSO2, PSO3, PSO4,PSO5
3	Leadership	PSO4
4	Communicator	PSO4
5	Lifelong learner	PSO5

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Alignment of competencies with program specific outcomes

PSO – Department of Anatomy

Department	PSO	PSO statements	Competencies Mapping
Anatomy	PSO1	Understanding of the gross and microscopic structure and development of the human body	Normal functioning related competencies (Compentencies not covered by PSO 2, 3,4 & 5)
	PSO2	Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.	Functional correlation AN 2.5, AN 3.1, AN 4.1, AN 4.2, AN 4.4, AN 5.4, AN 5.7, AN 21.9
	PSO3	Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.	Clinical correlation AN 4.4, AN 6.3, AN 8.6, AN 10.6, AN 10.3, AN 11.3, AN 12.4, AN 12.8, AN 12.10, AN 12.13, AN 15.4, AN 16.2, AN 16.3, AN 17.2, AN 18.3, AN 18.7, AN 19.4, AN 19.6, AN 19.7, AN 20.4, AN 20.5, AN 22.4, AN 28.7, AN 28.8, AN 28.10, AN 29.2, AN 29.3, AN 30.4, AN 31.3, AN 33.4, AN 34.2, AN 35.8, AN 37.3, AN 38.3, AN 39.2, AN 40.4, AN 40.5, AN 44.5, AN 44.7, AN 46.4, AN 46.5, AN 47.3, AN 47.4, AN 47.6, AN 47.7, AN 47.11, AN 49.5, AN 50.4, AN 57.5, AN 58.4, AN 60.3, AN 61.3, AN 63.2
	PSO4	To instill professionalism by developing communication, leadership skills with ethical and moral values	AETCOM
	PSO5	To develop life-long learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development	Self-directed learning (SDL) and early clinical exposure (ECE) -related competencies AN 11.2, AN 12.2, AN 12.7, AN 12.12, AN 32.1, AN 35.4, AN 44.4, AN 44.6, AN 47.2, AN 47.5, AN 62.6.

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Post Graduate PSO – Department of Anatomy

A post graduate student having qualified the MD (Anatomy) examination should be able to

1. Acquire competencies in gross and surface anatomy, neuroanatomy, embryology, genetics, histology, radiological anatomy, applied aspects and recent advances of the above mentioned branches of anatomy to clinical practice. These are given in detail in subsequent sections.

2. Acquire mastery in dissection skills, embalming, tissue preparation, staining and museum preparation.

3. Acquire skills in teaching, research methodology, epidemiology & basic information technology.

4. Acquire knowledge in the basic aspects of Biostatistics and research methodology.

5. Has knowledge to plan the protocol of a thesis, carry out review of literature, execution of research project and preparation of report.

6. Has ability to use computer applications Microsoft office (Microsoft word, excel, power point), Internet, Searching scientific databases (e.g. PubMed, Medline, Cochrane reviews).

7. Acquire skills in paper & poster preparation, writing research papers and Thesis.

8. Acquire capacity of not letting his/her personal beliefs, prejudices, and limitations come in the way of duty.

9. Acquire attitude and communication skills to interact with colleagues, teachers and students.

10. Practicing different methods of teaching-learning

11. Demonstrate the ability to identify applied implications of the knowledge of anatomy and discuss information relevant to the problem, using consultation, texts, archival literature and electronic media.

12. Demonstrate the ability to correlate the clinical conditions to the anatomical/ embryological/hereditary factors.

13. Demonstrate the ability to evaluate scientific/clinical information and critically analyze conflicting data and hypothesis.

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Program Educational Objectives (PEOs)

PEOs are the broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

Program Educational Objectives (PEOs)	PEO Statements
PEO1	Acquisition and transfer of knowledge, skills, attitude and professionalism to undergraduate and postgraduate students for quality care and outcome
PEO2	Acquire, conduct, interpret, publish and translate knowledge and skills relevant in improving the contemporary medicine.
PEO3	Coordinate, communicate and collaborate with national and international networks to update and disseminate information related to human well being

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Mapping Report

I - Internal Assessment Exam – 02.05.22

AN 1-7, 64-72 – General Anatomy & General Histology

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 2.1	Attained	1. Questions of higher order in blooms taxonomy can be planned. 2.Threshold for attainment can be fixed to be more than 60 %
AN 2.5, AN 65.2, AN 70.2, AN 71.1, AN 4.4, AN 68.1, AN 3.2 and AN 65 - 72	Not attained	1.Case based learning 2.Early clinical exposure 3.Small group discussion 4.Assignments to be given
AN 1, AN 3	Not addressed	1.Small group discussion 2.Will be emphasized during Revision classes

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Mapping Report

II - Internal Assessment Exam – 06.06.22

AN 8 - 20 – Upper limb & Lower limb

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 18.4, AN10.11,AN 20.2, AN 8.2, AN 10.8, AN 10.10, AN 11.2, AN 12.2, AN 12.3, AN 12.5, AN 12.12, AN 12. AN 13, AN 8.2,AN 14.2, AN 20.9, AN 20.8, AN 20.7, AN 20.6, AN 18.3,17.2, AN 16.4, AN 15.3, AN 15.1, AN 16.2	Attained	Question of higher order in blooms taxonomy can be planned
1AN 10.3, AN 20.5, AN12.9,AN 12.10 AN 11.5, AN 19.2, AN 19.3	Not Attained	Case base learning Early clinical exposure Small Group discussion Assignment can be given
AN 14.1, AN 20.3 , AN 20.4, AN 18.1, AN 18.2	Not Tested	Small Group discussion Will be tested in revision exam

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Mapping Report

III - Internal Assessment Exam – 04.07.22

AN 27-35 – Head & Neck

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 27.3, AN- AN 35	Attained	Question of higher order in blooms taxonomy can be planned
AN 35.2, AN 30.3, AN 30.4,. AN 30.5, AN 28.9, AN 28.10, AN 32.1, AN 32.2, AN35.1, AN 28.1- 28.7, AN 29.1 -29.4, AN 27.1 , AN 27.2	Not Attained	Case base learning Early clinical exposure Small Group discussion Assignment can be given
AN 30.1, AN 30.2, AN 31	Not Tested	Small Group discussion Will be tested in revision exam

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Mapping Report

IV - Internal Assessment Exam – 01.08.22

AN 44-47- Abdomen

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 47.5, AN 47.10-47.12, 4, AN 44.3, AN 47.14	Attained	Question of higher order in blooms taxonomy can be planned
AN 47.6, AN 47.7, AN 47.2, AN 44.12 – AN 47.14	Not Attained	Case base learning Early clinical exposure Small Group discussion Assignment can be given
AN 44.1, AN 44.2, AN 44.6, AN 44.7, AN 45.1, AN 45.2, AN 45.3, AN 46.3, AN 46.5	Not Tested	Assignment to be planned Small Group discussion Will be cover under integrated anatomy Will be tested in revision exam

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V - Internal Assessment Exam –- 05.09.22

AN 48, 49 – Pelvis & Perineum

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 48.2, AN 48.1, AN 49.5	Attained	Question of higher order in blooms taxonomy can be planned
AN 49.4, AN 49.1, AN 48.2, AN 48.7, AN 48.1	Not Attained	Case base learning Early clinical exposure Small Group discussion Assignment can be given
AN 48.3, AN 48.4, AN 48.5, AN 48.6, AN 48.8	Not Tested	Small Group discussion Will be tested in revision exam

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VI - Internal Assessment Exam – 05.10.22

AN 56-63– Neuroanatomy

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

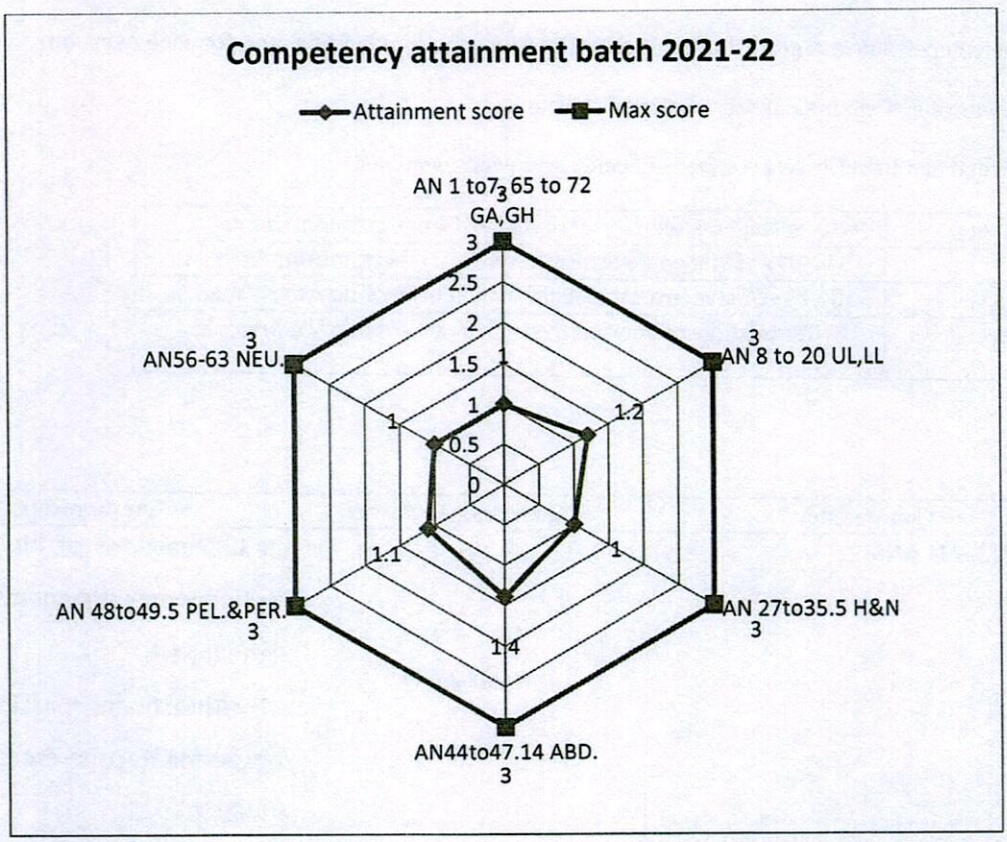
Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 56.2, AN 62.3	Attained	1. Questions of higher order in blooms taxonomy can be planned. 2.Threshold for attainment can be fixed to be more than 60 %
AN 60.1, AN 62.2, AN 59.2, AN 57.1, AN 62.5, AN 62.4 and AN 56-63	Not attained	1.Case based learning 2.Early clinical exposure 3.Small group discussion 4.Assignments to be given
AN 57.3, AN 57.5, AN 59.3, AN 60.3, AN 62.1, AN 63.2	Not addressed	1.Small group discussion 2.Will be emphasized during Revision classes

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Competency attainment by 2021-22 batch



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Program specific outcome- student attainment

Batch -2021-22

PSO	PSO statements	Average score
PSO1	Understanding of the gross and microscopic structure and development of the human body	2.18
PSO2	Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.	1
PSO3	Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.	1.43
PSO4	To instill professionalism by developing communication, leadership skills with ethical and moral values	2.2
PSO5	To develop life-long learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development	1.37

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Calculation of Final PSO attainment

Course	PSOs	PSO Average	UNIV Result				Direct Final Attainment	Indirect Assessment	Final Assessment
			Pass percentage		Average score obtained		80% PSO+20% Univ result	Course exit survey	90% DA+ 10%IDA
Anatomy	PSO1	2.18	80.00	3.00	63.00	2.00	2.24	3	2.32
	PSO2	1	80.00	3.00	63.00	2.00	1.30	3	1.47
	PSO3	1.43	80.00	3.00	63.00	2.00	1.64	3	1.78
	PSO4	2.2	80.00	3.00	63.00	2.00	2.26	3	2.33
	PSO5	1.37	80.00	3.00	63.00	2.00	1.60	3	1.74

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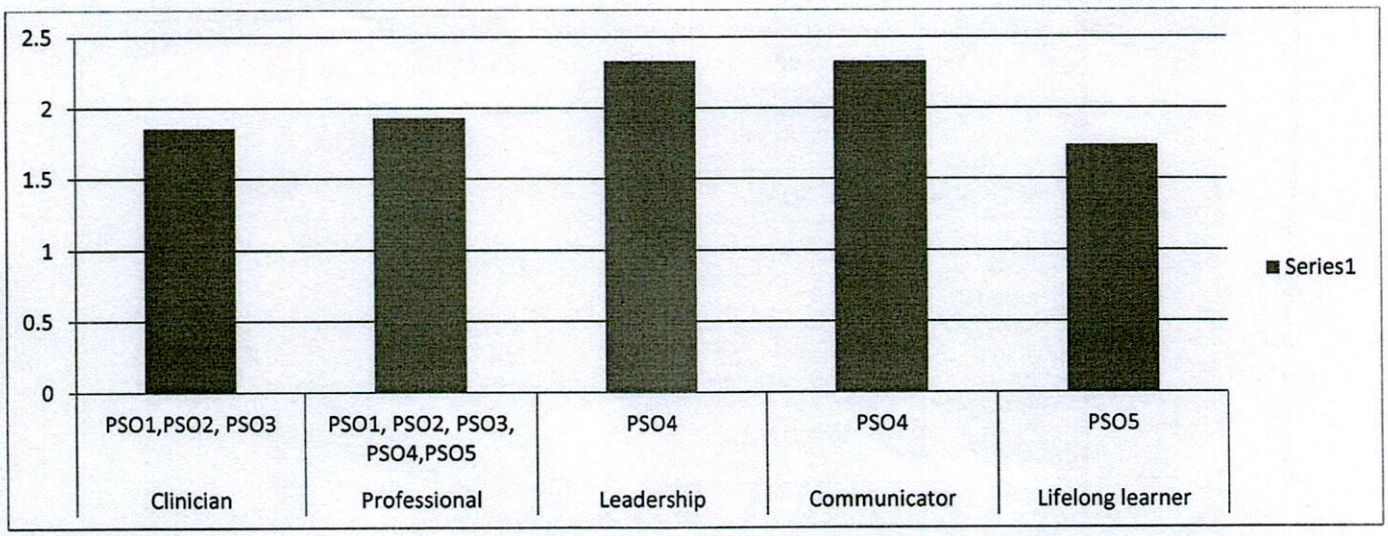
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CALCULATING INDIAN MEDICAL GRADUATE ATTRIBUTES

IMG Attributes	PSOs	Attainment
Clinician	PSO1,PSO2, PSO3	1.8564
Professional	PSO1, PSO2, PSO3, PSO4,PSO5	1.93
Leadership	PSO4	2.33
Communicator	PSO4	2.33
Lifelong learner	PSO5	1.74



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DEPARTMENT OF MICROBIOLOGY

UNDERGRADUATES

REFINED PROGRAM SPECIFIC OUTCOMES

Department	PSO	PSO Statements
Microbiology	PSO1	Understanding of role of microbial agents in health and disease
	PSO2	Understanding of the immune pathological mechanisms in health and disease
	PSO3	Ability to correlate the natural history, mechanisms and clinical manifestations of infectious diseases as they relate to the properties of microbial agents
	PSO4	Knowledge of the principles of infection control measures and implementation
	PSO5	An understanding of the basis of choice of laboratory diagnostic tests and their interpretation , antimicrobial therapy and communication

INDIAN MEDICAL GRADUATE GOALS	
1	Clinician
2	Professional
3	Leadership
4	Communicator
5	Life Long Learner

1	Clinician	**PSO1, PSO2, PSO3, PSO4, PSO5**
2	Professional	**PSO3, PSO4, PSO5**
3	Leadership	**PSO4,**
4	Communicator	**PSO4, PSO5**
5	Life Long Learner	**PSO1, PSO4, PSO5**

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POSTGRADUATES- GENERIC OUTCOME

M.D MICROBIOLOGY

A post graduate student upon successfully qualifying in the MD (Microbiology) examination should be able to

1. Demonstrate competence as a clinical microbiologist.

2. Interact effectively with the allied departments by rendering services in basic as well as advanced laboratory investigations.

3. Demonstrate application of microbiology in a variety of clinical settings to solve diagnostic and therapeutic problems along with preventive measures.

4. Play a pivotal role in hospital infection control, including formulation of antibiotic policy and management of biomedical waste.

Program Educational Objectives (PEOs)

PEOs are the broad statements that describe the career and professional accomplishment that the program is preparing graduates to achieve.

Program Educational Objectives (PEOs)	PEO Statements
PEO1	Acquire knowledge, skills, and professionalism and transfer it to under graduate and post graduate students
PEO2	Contribute to contemporary medicine by acquiring knowledge and skills in research and publishing
PEO3	Offer quality diagnostic services by practicing and collaborating with national quality control and accreditation agencies.
PEO4	To pursue specialization in various Microbiology branches like Infectious disease, Hospital infection control, Advanced Virology and Immunology.

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MAPPING REPORT

TOPIC: General Microbiology

COMPETENCY NOs:MI 1.1, MI 1.2, MI 1.3, MI 1.6, MI 8.9, MI 8.10

Date: 08.4.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 2 & 3 = Competency attained; Level 0 & 1 = Competency not attained

Competency	Competency Status	Action taken
MI 1.1, MI 1.2, MI 1.3, MI 1.6	Attained	Question of higher order in blooms taxonomy can be planned
MI 8.9, MI 8.10	Not Attained	Small Group Discussion & Assignments

TOPIC: Immunology

COMPETENCY NOs: MI 1.1, MI 1.2, MI 1.3, MI 1.6, MI 8.9, MI 8.10

Date: 08.4.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 1.1, MI 1.2, MI 1.3, MI 1.6	Attained	Question of higher order in blooms taxonomy can be planned
MI 8.9, MI 8.10	Not Attained	Small Group Discussion & Assignments
MI1.4, MI 1.5	Not tested	Addressed in revision

TOPIC: CVS

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COMPETENCY NOs: MI 2.1,2.2,2.3,2.4,2.5,2.6,2.7,1.1,8.13,8.15,8.16

Date: 8.7.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 2.7	Attained	Question of higher order in blooms taxonomy can be planned
MI 2.1, 2.1,2.2,2.3,2.4,2.5,2.6, ,3.3,3.4	Not Attained	Small Group Discussion & Assignments
MI1.1, 8.13.8.15,8.16	Attained	Question of higher order in blooms taxonomy can be planned

TOPIC: GIT

COMPETENCY NOs: MI 3.1,3.2,3.5,3.6,1.2,8.15

Date: 29.7.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 3.1,3.2,3.5,3.6,1.2,8.15	Attained	Question of higher order in blooms taxonomy can be planned

TOPIC: Skin and soft tissue infection

COMPETENCY NOs: MI 4.1,4.2,4.3,1.2,8.13, 8.15,8.16

Date: 9.9.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken

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MI 4.1,4.2,4.3,1.2,8.15,8.16,8.13	Attained	Question of higher order in blooms taxonomy can be planned

TOPIC:RS

COMPETENCY NOs:MI 6.1,6.2,6.3

Date:4.11.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 6.1,6.2,6.3	Attained	Question of higher order in blooms taxonomy can be planned

TOPIC: CNS & GUT

COMPETENCY NOs: MI 5.1,5.2,5.3,1.2,8.15,7.1,7.2,7.3,8.15

Date: 1.12.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

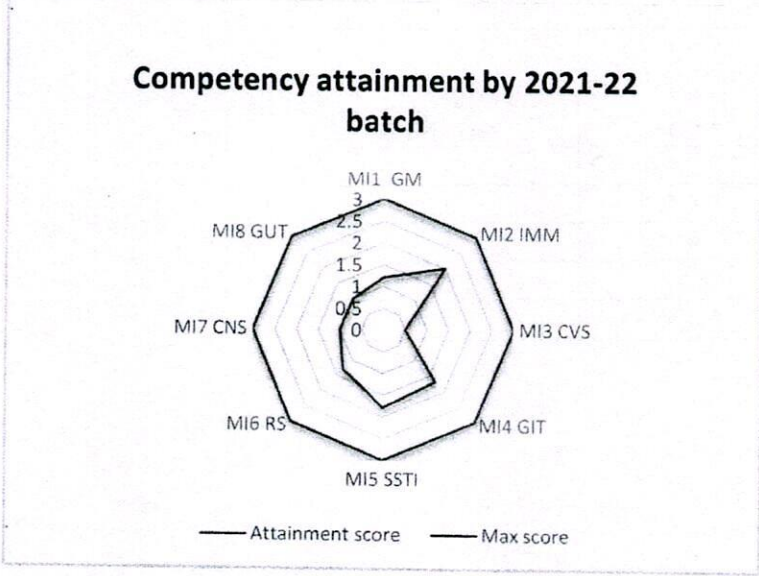
Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 5.1,5.2,5.3,8.16	Attained	Question of higher order in blooms taxonomy can be planned
MI 7.1,7.2	Not attained	Small group discussion

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Competency attainment by 2021-22 batch



CALCULATION OF INITIAL PSO ATTAINMENT

PSO	AVERAGE SCORE
PSO-1	1.4
PSO-2	1.8
PSO-3	1.4
PSO-4	2
PSO-5	1.4

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IMG	PSO	IMG ATTAINMENT
Clinician	1,2,3,4,5	2
Professional	3,4,5	2
Leadership	4	2
Communicator	4,5	2
Life long learner	1,4,5	2

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DEPARTMENT OF MICROBIOLOGY

Final Mapping – Overall Attainment

II – MBBS (2020 – 2021 Batch)

Course	PSOs	PSO Average	UNIV Result			Direct Final Attainment		Indirect Assessment	Final Assessment
			Pass percentage	Average score obtained		80% PSO+20% Univ result		Course exit survey	90% DA+ 10%IDA
Microbiology	PSO1	1.4	86	3	6	2	1.62	2	1.66
	PSO2	1.8	86	3	65	2	1.94	2	1.95
	PSO3	1.4	86	3	65	2	1.62	2	1.66
	PSO4	2	86	3	65	2	2.10	2	2.09
	PSO5	1.4	86	3	65	2	1.62	2	1.66

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DEPARTMENT OF OPHTHALMOLOGY

Under Graduates

Generic outcome

To provide knowledge and skills to the students that shall enable him to practice as a clinical and as a primary eye care physician and also to function effectively as a community health leader to assist in the implementation of National program for blindness and rehabilitation of the visually impaired.

Program Specific Outcome

1. Knowledge of common eye problems in the community.
2. Recognize, diagnose and manage common eye problems and identify indications for referral.
3. Ability to recognize visual impairment and blindness in the community and implement National program as applicable in primary care setting.

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Alignment of Program Specific Outcomes (PSOs) with Indian Medical Graduate (IMG) Attributes

REFINED PSO STATEMENT- DEPARTMENT OF OPHTHALMOLOGY

UNDER GRADUATES

PSO1 - Knowledge of common conditions causing visual impairment in the community

PSO2 - Ability to diagnose ocular emergencies and their need for referral

PSO3 - To work as a team in treating common eye disease and in implementing national program as applicable in primary care setting

PSO4 - Communicate effectively to patients about blindness and its prevention

PSO5 - To develop lifelong learning attitude by acquiring and upgrading existing skills in common eye disease

INDIAN MEDICAL GRADUATE GOALS

Clinician

Professional

Leadership

Communicator

Lifelong learner

IMG ATTRIBUTES MAPPED WITH PSOs

Clinician – PSO1, PSO 2

Professional - PSO1, PSO 2

Leadership - PSO3

Communicator - PSO4

Lifelong learner - PSO5

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DEPARTMENT OF OPHTHALMOLOGY

UNDER GRADUATES

REFINED PROGRAM SPECIFIC OUTCOMES

1. **PSO1** - Knowledge of common conditions causing visual impairment in the community
2. **PSO2** - Ability to diagnose ocular emergencies and their need for referral
3. **PSO3** - To work as a team in treating common eye disease and in implementing national program as applicable in primary care setting
4. **PSO4** - Communicate effectively to patients about blindness and its prevention
5. **PSO5** - To develop lifelong learning attitude by acquiring and upgrading existing skills in common eye disease

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POST GRADUATES

1. The student should possess basic knowledge of the structure, function and development of the human body as related to ophthalmology, of the factors which may disturb these mechanisms and the disorders of structure and function which may result thereafter.

2. The student should be able to practice and handle most day-to-day problems independently in ophthalmology. The student should recognize the limitations of his/her own clinical knowledge and know when to seek further help.

3. The student should understand the effects of environment on health and be familiar with the epidemiology of at least the more common diseases in the field of ophthalmology.

4. The student should be able to integrate the preventive methods with the curative and rehabilitative measures in the comprehensive management of the disease.

5. The student should be familiar with common eye problems occurring in rural areas and be able to deal with them effectively.

6. The student should also be made aware of Mobile Ophthalmic Unit and its working and components.

7. The student should be familiar with the current developments in Ophthalmic Sciences.

8. The student should be able to plan educational programmes in Ophthalmology in association with senior colleagues and be familiar with the modern methods of teaching and evaluation.

9. The student should be able to identify a problem for research, plan a rational approach to its solution, execute it and critically evaluate his/her data in the light of existing knowledge.

10. The student should reach the conclusions by logical deduction and should be able to assess evidence both as to its reliability and its relevance.

11. The student should have basic knowledge of medico-legal aspects of medicine.

12. The student should be familiar with patient counseling and proper consent taking.

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DEPARTMENT OF OPHTHALMOLOGY

PEOs are the broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

Programe Educational Objectives (PEOs)

Program Educational Objectives (PEOs)

PEO 1 – Acquisition and transfer of clinical knowledge, skills and professionalism to undergraduates and post graduates students for better quality care.

PEO 2 – Acquire, conduct, interpret, publish and translate knowledge and skills relevant in improving the field of Ophthalmology.

PEO 3 – Coordinate, communicate and collaborate with national and international networks to update and disseminate information related to human well being

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DEPARTMENT OF OPHTHALMOLOGY

Alignment of competencies Program Specific Outcomes

PSO	PSO statements	Competencies Mapping
PSO1	Knowledge of common conditions causing visual impairement in the community	**OP** 1.(1-5), **OP** 2.(1,2,4-8), **OP** 3.(1-7), **OP** 4.(1-7,9), **OP** 5.(1,2), **OP** 6. (1-9), **OP** 7.(1,2,4), **OP** 8.(1,2,4,5), **OP** 9.(2,3)
PSO2	Ability to diagnose ocular emergencies and their need for referral	**OP** 1.3, **OP** 2.(1-8), **OP** 3.(1,2,8,9), **OP** 4.(1,3), **OP** 5.2, **OP** 6.(6,7), **OP** 7.3, **OP** 8.3, **OP** 9.(1-3)
PSO3	To work as a team in treating common eye disease and in implementing national programme as applicable in primary care setting	**OP** 2.3, **OP** 3.(1-9), **OP** 4. 8, **OP** 7.5
PSO4	Communicate effectively to patients about blindness and its prevention	**OP** 1.(2,5), **OP** 2.(4-8), **OP** 4.(1-6,9,10), **OP** 6.10, **OP** 7.6, **OP** 8.(2,4), **OP** 9.(4,5)
PSO5	To develop lifelong learning attitude by aquiring and upgrading existing skills in common eye disease	**OP** 1.4, **OP** 4.6, **OP** 6.8, **OP** 7.4, **OP** 8.(2,4)

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DEPARTMENT OF OPHTHALMOLOGY

MAPPING REPORT

Topic – **Refractive error, Lids, Lacrimal Apparatus**

Exam date: 01.04.2022 – Internal Assessment Exam –I

Com No	Average LOA	Attainment	Action Plan
OP 1.1	2	Attained	
OP 1.2	3	Attained	
OP 1.4	1	Not attained	Assignment to be given
OP 1.5	1	Not attained	Small group discussion
OP2.1	2	Attained	

Topic – **Conjunctiva, Cornea, Orbit**

Exam date: 06.05.2022 – Internal Assessment Exam II

Com No	Average LOA	Attainment	Action Plan
OP 2.4	2	Attained	
OP 2.5	2	Attained	
OP 2.6	2	Attained	
OP 3.3	2	Attained	
OP 3.5	2	Attained	
OP 3.6	2	Attained	
OP 4.2	2	Attained	
OP 4.3	2	Attained	
OP 2.1	1	Not Attained	Assignment to be given
OP 3.4	1	Not Attained	Assignment to be given

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OP 4.1	0	Not Attained	Small group discussion
OP 2.7	-	Not tested	Will be addressed in revision exam
OP 2.8	-	Not tested	Will be addressed in revision exam
OP 3.7	-	Not tested	Will be addressed in revision exam
OP 4.4	-	Not tested	Will be addressed in revision exam
OP 4.5	-	Not tested	Will be addressed in revision exam
OP 4.6	-	Not tested	Will be addressed in revision exam
OP 4.7	-	Not tested	Will be addressed in revision exam

Topic – **Lens, Sclera, Uvea, Glaucoma**

Exam date: 05.08.2022 – Internal Assessment Exam III

Com No	**Average LOA**	**Attainment**	**Action Plan**
OP 5.1	2	Attained	
OP 5.2	2	Attained	
OP 6.5	2	Attained	
OP 6.6	2	Attained	
OP 6.7	2	Attained	
OP 6.9	2	Attained	
OP 6.10	2	Attained	
OP 7.1	2	Attained	
OP 7.2	2	Attained	
OP 6.1	0	Not Attained	Assignment to be given
OP 6.2	1	Not Attained	Small group discussion
OP 7.4	1	Not Attained	Small group discussion
OP 6.3	-	Not tested	Will be addressed in revision exam
OP 6.8	-	Not tested	Will be addressed in revision exam

-

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Topic – **Whole Portions**

Exam date: 21.12.2022 – Model examination

Com No	Average LOA	Attainment	Action Plan
OP 3.2	3	Attained	
OP 4.1	1	Not Attained	Small group discussion
OP 1.2	1	Not Attained	Assignment to be given
OP 3.3	3	Attained	
OP 4.6	1	Not Attained	Small group discussion
OP 1.2	3	Attained	
OP 3.7	2	Attained	
OP 4.9	2	Attained	
OP 4.2	2	Attained	
OP 2.1	3	Attained	
OP 2.6	3	Attained	
OP 2.4	0	Not Attained	Small group discussion
OP 2.5	3	Attained	
OP 3.6	3	Attained	
OP 3.4	3	Attained	

Calculation of Initial PSO attainment

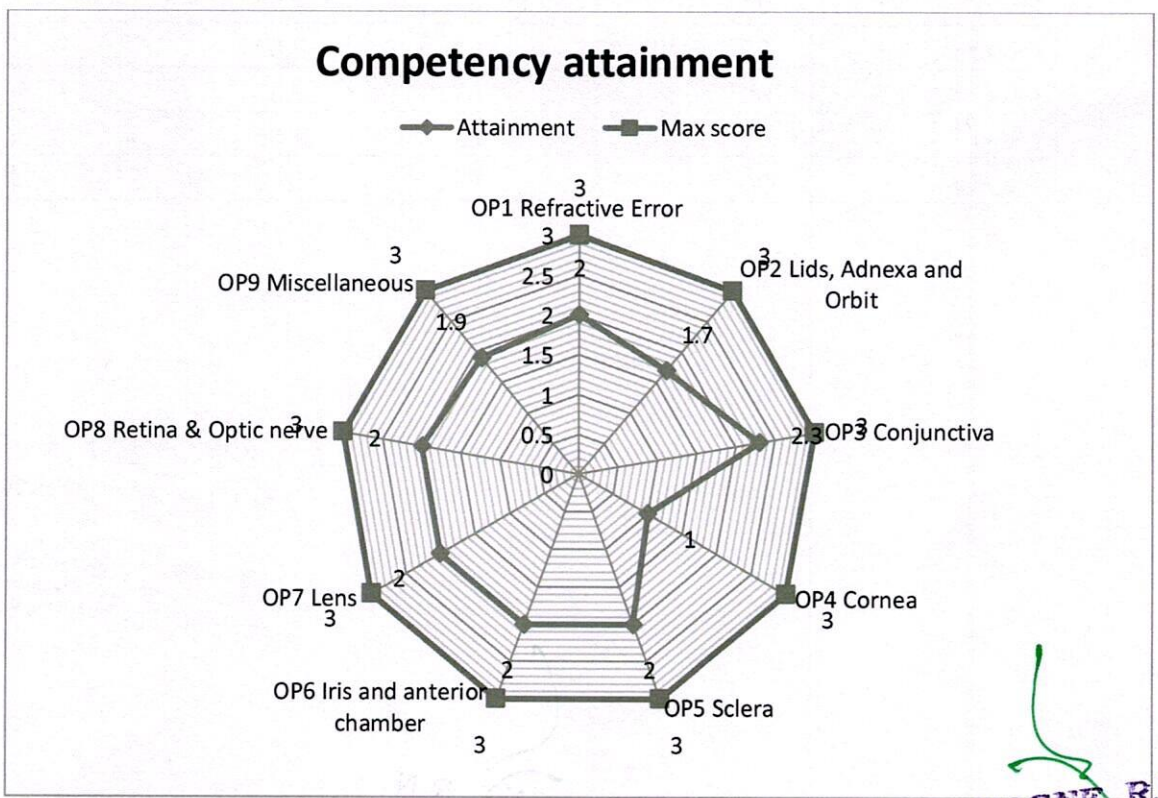
PSO	*Average score*
PSO1	1.8
PSO2	1.9
PSO3	2.3
PSO4	1.7
PSO5	1.5

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Calculation of Competency attainment

Competency no	Topic	Attainment	Max score
OP1	Refractive Error	2	3
OP2	Lids, Adnexa and Orbit	1.7	3
OP3	Conjunctiva	2.3	3
OP4	Cornea	1	3
OP5	Sclera	2	3
OP6	Iris and anterior chamber	2	3
OP7	Lens	2	3
OP8	Retina & Optic nerve	2	3
OP9	Miscellaneous	1.9	3

Competency attainment by 2019 – 24 Batch



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DEPARTMENT OF OPHTHALMOLOGY

Academic Year 2021-22

Final Mapping – Overall Attainment

MBBS Phase – III Part – 1 (2019 – 2025 Batch)

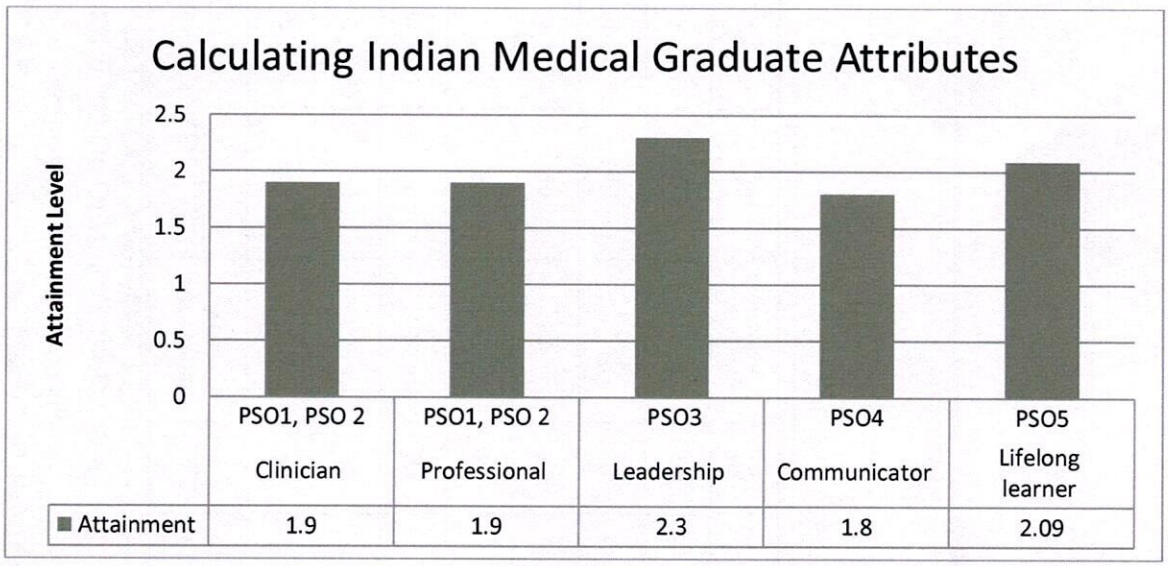
Course	PSOs	PSO Average	UNIV Result				Direct Final Attainment	Indirect Assessment	Final Assessment
			Pass percentage	Average score obtained	Average score obtained		80% PSO+20% Univ result	Course exit survey	90% DA+ 10%IDA
Ophthalmology	PSO1	1.8	90	3	63	2	1.94	2	1.946
	PSO2	1.9	90	3	63	2	2.02	2	2.018
	PSO3	2.3	90	3	63	2	2.34	2	2.306
	PSO4	1.7	90	3	63	2	1.86	2	1.874
	PSO5	2	90	3	63	2	2.1	2	2.09

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CALCULATING INDIAN MEDICAL GRADUATE ATTRIBUTES

IMG Attributes	PSOs	Attainment
Clinician	PSO1, PSO 2	1.9
Professional	PSO1, PSO 2	1.9
Leadership	PSO3	2.3
Communicator	PSO4	1.8
Lifelong learner	PSO5	2.09



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DEPARTMENT OF GENERAL MEDICINE
2018-23 BATCH MAPPING REPORT

Course	Program Specific Outcome	Assessment tools	IA	Attainment Value	University	Attainment Value	Pract	Attainment Value	Average Attainment	Target	Attanine /Not attained
General Medicine	PSO1	Summative and formative assessment	74	3	93	3	93	3	3	2	Attained
	PSO2	Summative and formative assessment	78	3	93	3	93	3	3	2	Attained
	PSO3	Summative and formative assessment	76	3	93	3	93	3	3	2	Attained
	PSO4	Summative and formative assessment	74	3	93	3	93	3	3	2	Attained
	PSO5	Summative and formative assessment	49	1	93	3	93	3	2.6	2	Attained
	PSO6	Summative and formative assessment	73	3	93	3	93	3	3	2	Attained
	PSO7	Summative and formative assessment	85	3	93	3	93	3	3	2	Attained
	PSO8	Summative and formative assessment	53	2	93	3	93	3	2.8	2	Attained

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DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

Mapping Report (2018- 23 batch)

2.6 Mapping and attainment calculation of Program specific Outcomes (PSO's)

Course	Course outcomes	CO statements	Blooms taxonomy	Assessment tools	IA	Level of attainment	University	Level of attainment	Practical	Level of attainment		Target	Attained/ Not attained
OG	PSO1	Provide peri□conceptional counseling and antenatal care	Apply	Summative and formative assessment	51	2	87	3	50	2	2.4	2	Attained
	PSO2	Identify high□risk pregnancies and refer appropriately	Apply		56	2	87	3	50	2	2.4	2	Attained
	PSO3	Conduct normal deliveries, using safe delivery practices in the primary and secondary care settings	Apply		51	2	87	3	50	2	2.4	2	Attained
	PSO4	Prescribe drugs safely and appropriately in pregnancy and lactation	Apply		47	1	87	3	50	2	2.1	2	Not attained
	PSO5	Diagnose complications of labor, institute primary care and refer in a timely manner	Apply		51	2	87	3	50	2	2.4	2	Attained
	PSO6	Perform early neonatal resuscitation	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO7	Provide postnatal care, including education in breast□feeding	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO8	Counsel and support couples in the correct choice of contraception	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO9	Interpret test results of laboratory and radiological investigations as they apply to the care of the obstetric patient	Analyze		51	2	87	3	50	2	2.4	2	Attained
	PSO10	Apply medico□legal principles as they apply to tubectomy, Medical Termination of Pregnancy (MTP) and Pre□conception and Prenatal Diagnostic Techniques (PC PNDT Act).	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO11	Elicit a gynecologic history perform appropriate physical, pelvic examination and PAP smear in the primary care setting	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO12	Recognize diagnose and manage common reproductive tract infections in the primary care setting	Apply		56	2	87	3	50	2	2.4	2	Attained
	PSO13	Recognize and diagnose common genital cancers and refer them appropriately.	Apply		51	2	87	3	50	2	2.4	2	Attained

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2-6-3.1

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Student Performance and Learning Outcomes

Calculating competency attainment and mapping with Program Specific Outcomes

Academic Year 2020-2021

Correlation Matrix

3	High Correlation
2	Moderate Correlation
1	Low correlation

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GAPS AND ACTION PLANS

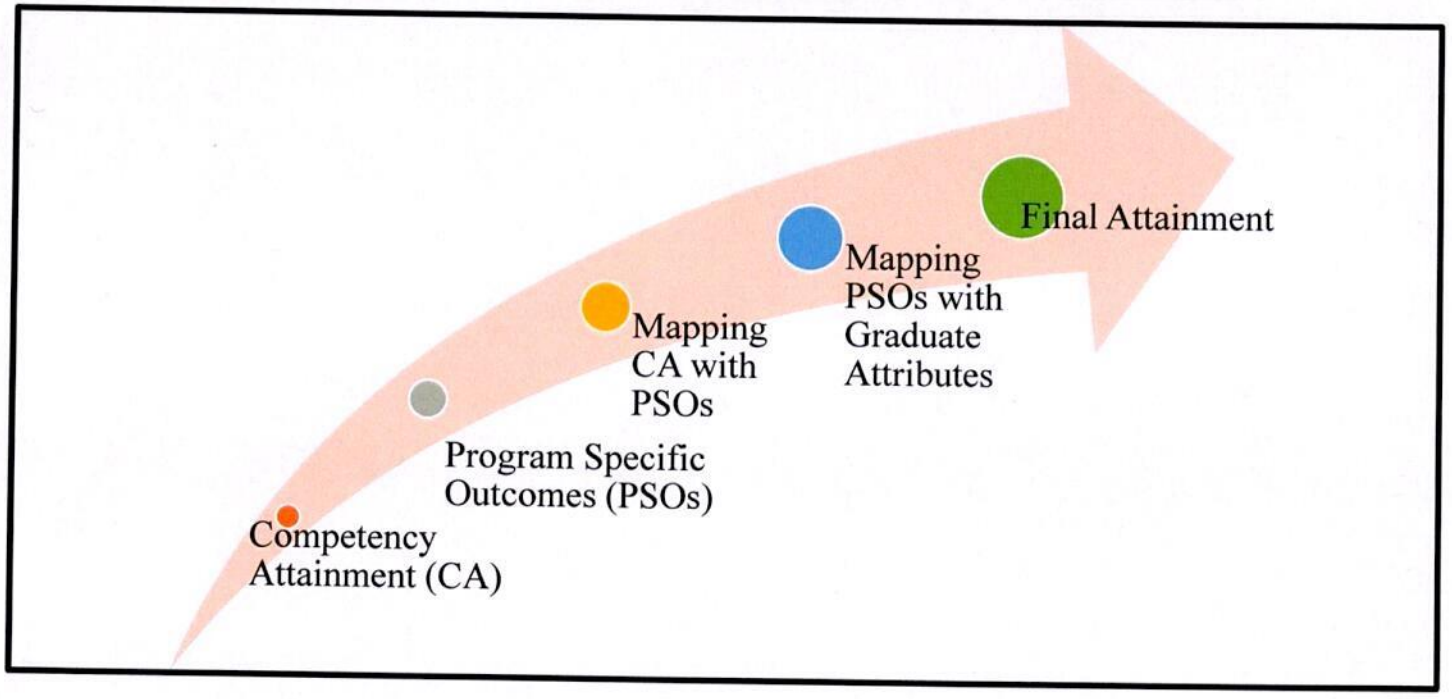
GAPS	ACTION PLANS
Non-attained competencies	↓ Remedial classes to be planned ↓ Small group discussions ↓ Case based learning (CBL) to be planned for the non-attained competencies to emphasize the concepts ↓ Assignments to be planned
Attained competencies	↓ Threshold to be fixed at higher levels /lower level based on the order of Bloom's taxonomy (higher order thinking in Bloom's taxonomy- 50% of the total score & lower order in Bloom's thinking if addressed- 70% of the total score)
Not-tested competencies	↓ Question paper to be prepared based on the Blueprint ↓ Question paper should be planned to cover the core competencies
Non CBME batches	↓ Mapping is done based on the older model, and to be replaced longitudinally with the new mapping module

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Mapping the Competency attainments with the Program Specific Outcomes

(2019-20 batch)

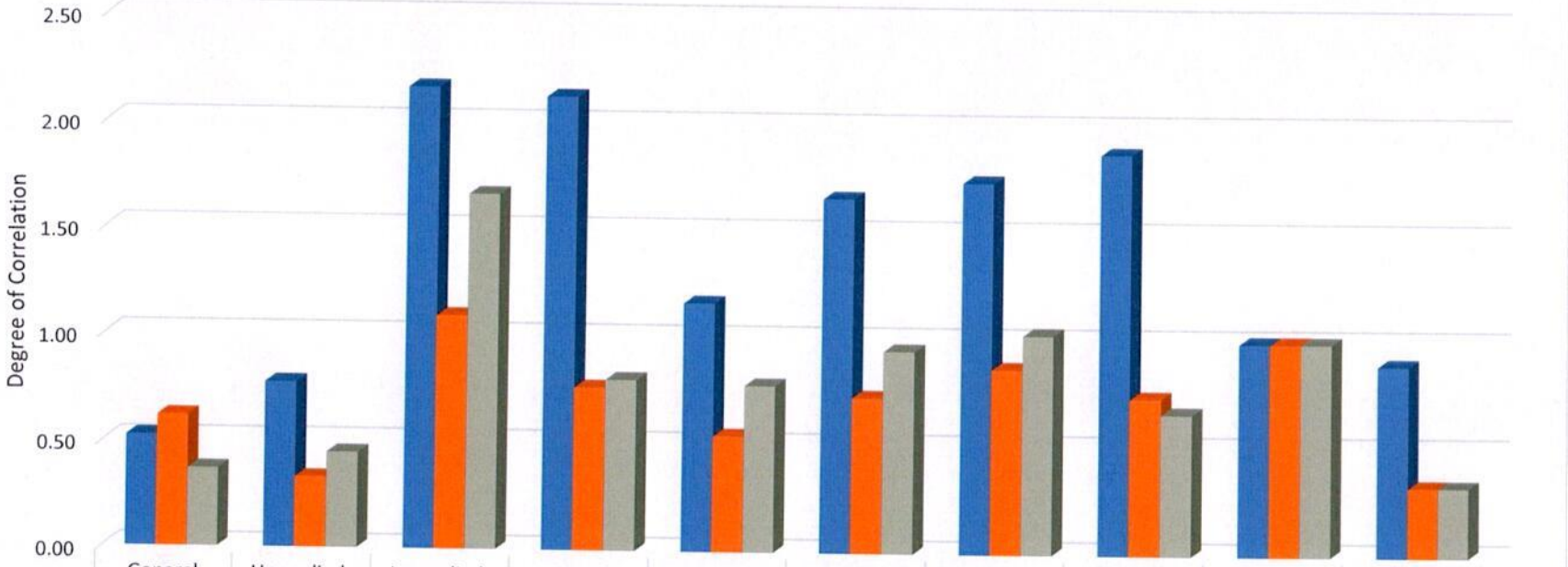
Steps to calculate Competency and PSO attainment



NOTE: Final attainment calculation and mapping with Graduate Attributes will be done after the declaration of the University results

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DEPARTMENT OF ANATOMY



	General Anatomy	Upper limb	Lower limb	Thorax	Head & Neck	Abdomen & Pelvis	Neuroanatomy	Histology	Genetics	Embryology
PSO1	0.52	0.78	2.17	2.13	1.17	1.66	1.74	1.88	1.00	0.90
PSO2	0.62	0.33	1.10	0.77	0.55	0.73	0.87	0.74	1.00	0.33
PSO3	0.37	0.45	1.67	0.81	0.78	0.95	1.03	0.67	1.00	0.33

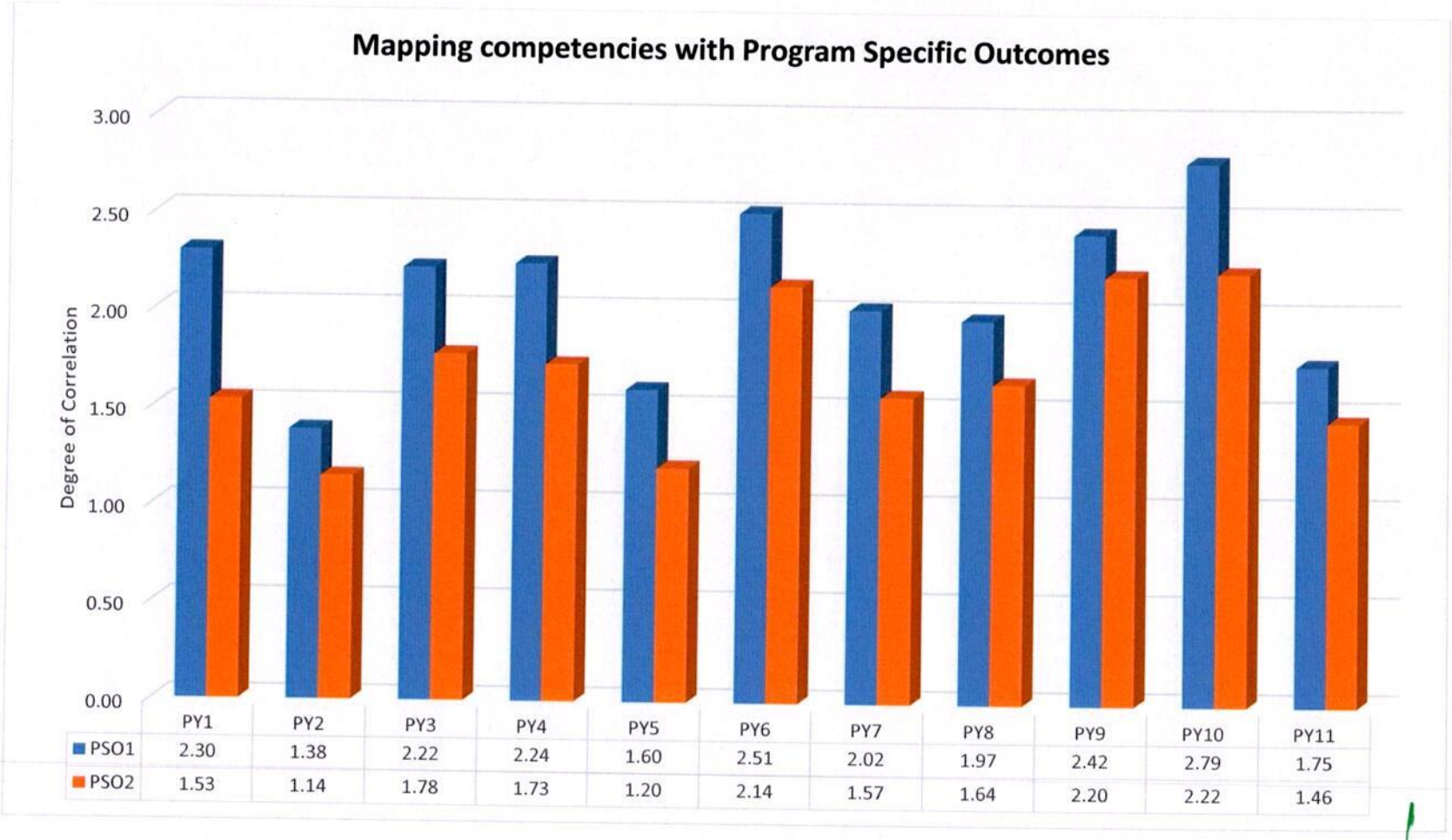
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FINAL ATTAINMENT

Course	Competency	Assessment Tools	UNIV Result					Direct Final Attainment	Indirect Assessment	Assessment	Attainment	Target	Attained/Notattained
			Test			Practicals		60% UNIV+20% INT+20% Pract	Course exit survey	80% DA+ 20%IDA			
			IA/ME	Univ result									
Anatomy	General anatomy	Formative & Summative	1.2	90.00	3.00	90.00	3.00	2.63	2	2.11	2.11	2.00	Attained
	Upper limb		0.71	90.00	3.00	90.00	3.00	2.54	2	2.03	2.03	2.00	Attained
	Lower limb		1.9	90.00	3.00	90.00	3.00	2.78	2	2.23	2.23	2.00	Attained
	Thorax		2	90.00	3.00	90.00	3.00	2.80	2	2.24	2.24	2.00	Attained
	Head and neck		1.75	90.00	3.00	90.00	3.00	2.75	2	2.20	2.20	2.00	Attained
	Abdomen and pelvis		2.39	90.00	3.00	90.00	3.00	2.88	2	2.30	2.30	2.00	Attained
	Neuroanatomy		2.58	90.00	3.00	90.00	3.00	2.92	1	2.33	2.33	2.00	Attained
	Histology		2	90.00	3.00	90.00	3.00	2.80	2	2.24	2.24	2.00	Attained
	Genetics		NT	90.00	3.00	90.00	3.00	NT	1	NT	NT	NT	NT
	Embryology		1.33	90.00	3.00	90.00	3.00	2.67	2	2.13	2.13	2.00	Attained

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DEPARTMENT OF PHYSIOLOGY



	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8	PY9	PY10	PY11
PSO1	2.30	1.38	2.22	2.24	1.60	2.51	2.02	1.97	2.42	2.79	1.75
PSO2	1.53	1.14	1.78	1.73	1.20	2.14	1.57	1.64	2.20	2.22	1.46

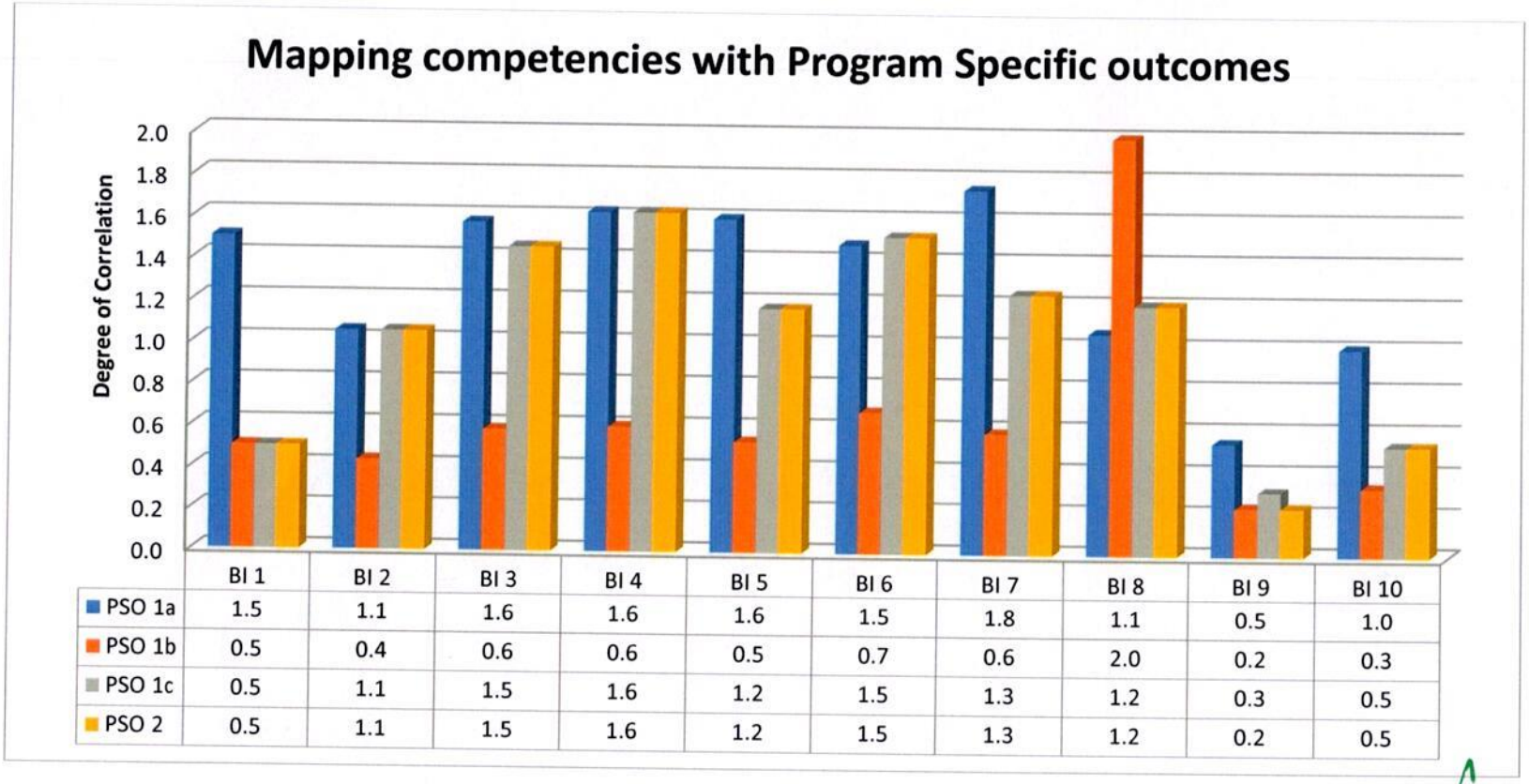
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FINAL ATTAINMENT

Course	Competency	Assessment Tools	Test				UNIV Result				Direct Final Attainment	Indirect Assessment	Assessment			
			IA	AETCOM	Practicals	Average	Univ result		Practicals		60% UNIV +20% INT+20% Pract	Course exit survey	80% DA+ 20%IDA	Attainment	Target	Attained/Not attained
Physiology	PY1	Formative & Summative	2.3	1.16		1.7	94.00	3	94.00	3	2.75	3	2.20	2.20	2.00	Attained
	PY2		1.43	1.16	3.00	1.9	94.00	3	94.00	3	2.77	2	2.22	2.22	2.00	Attained
	PY3		2.3	1.16		1.7	94.00	3	94.00	3	2.75	1	2.20	2.20	2.00	Attained
	PY4		2.3	1.16		1.7	94.00	3	94.00	3	2.75	3	2.20	2.20	2.00	Attained
	PY5		1.65	1.16	1.00	1.3	94.00	3	94.00	3	2.65	2	2.12	2.12	2.00	Attained
	PY6		2.64	1.16	3.00	2.3	94.00	3	94.00	3	2.85	1	2.28	2.28	2.00	Attained
	PY7		2.01	1.16		1.6	94.00	3	94.00	3	2.72	3	2.17	2.17	2.00	Attained
	PY8		1.97	1.16		1.6	94.00	3	94.00	3	2.71	2	2.17	2.17	2.00	Attained
	PY9		1.93	1.16		1.5	94.00	3	94.00	3	2.71	1	2.17	2.17	2.00	Attained
	PY10		2.79	1.16	3.00	2.3	94.00	3	94.00	3	2.86	3	2.29	2.29	2.00	Attained
	PY11		1.75	1.16		1.5	94.00	3	94.00	3	2.69	3	2.15	2.15	2.00	Attained

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DEPARTMENT OF BIOCHEMISTRY



	BI 1	BI 2	BI 3	BI 4	BI 5	BI 6	BI 7	BI 8	BI 9	BI 10
PSO 1a	1.5	1.1	1.6	1.6	1.6	1.5	1.8	1.1	0.5	1.0
PSO 1b	0.5	0.4	0.6	0.6	0.5	0.7	0.6	2.0	0.2	0.3
PSO 1c	0.5	1.1	1.5	1.6	1.2	1.5	1.3	1.2	0.3	0.5
PSO 2	0.5	1.1	1.5	1.6	1.2	1.5	1.3	1.2	0.2	0.5

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FINAL ATTAINMENT

Course	Competency	Assessment Tools	Test			UNIV Result				Direct Final Attainment	Indirect Assessment	Assessment			
			IA/ME	AETCOM	Average	Univ result		Practicals		60% UNIV+20% INT+20% Pract	Course exit survey	80% DA+ 20%IDA	Attainment	Target	Attained/Notattained
Biochemistry	BI 1	Formative & Summative	1.5	1	1.3	97.00	3	97.00	3	2.65	3	2.12	2.12	2.00	Attained
	BI 2		1.33	1	1.2	97.00	3	97.00	3	2.63	3	2.11	2.11	2.00	Attained
	BI 3		1.8	1	1.4	97.00	3	97.00	3	2.68	3	2.14	2.14	2.00	Attained
	BI 4		1.8	1	1.4	97.00	3	97.00	3	2.68	3	2.14	2.14	2.00	Attained
	BI 5		1.62	1	1.3	97.00	3	97.00	3	2.66	3	2.13	2.13	2.00	Attained
	BI 6		1.83	1	1.4	97.00	3	97.00	3	2.68	3	2.15	2.15	2.00	Attained
	BI 7		1.75	1	1.4	97.00	3	97.00	3	2.68	3	2.14	2.14	2.00	Attained
	BI 8		2	1	1.5	97.00	3	97.00	3	2.70	3	2.16	2.16	2.00	Attained
	BI 9		0.7	1	0.9	97.00	3	97.00	3	2.57	3	2.06	2.06	2.00	Attained
	BI 10		1	1	1.0	97.00	3	97.00	3	2.60	3	2.08	2.08	2.00	Attained
	BI 11			1	2.0	97.00	3	97.00	3	2.80	3	2.24	2.24	2.00	Attained

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Calculating the Program specific outcomes (PSOs) attainment for the

Academic year 2019-20

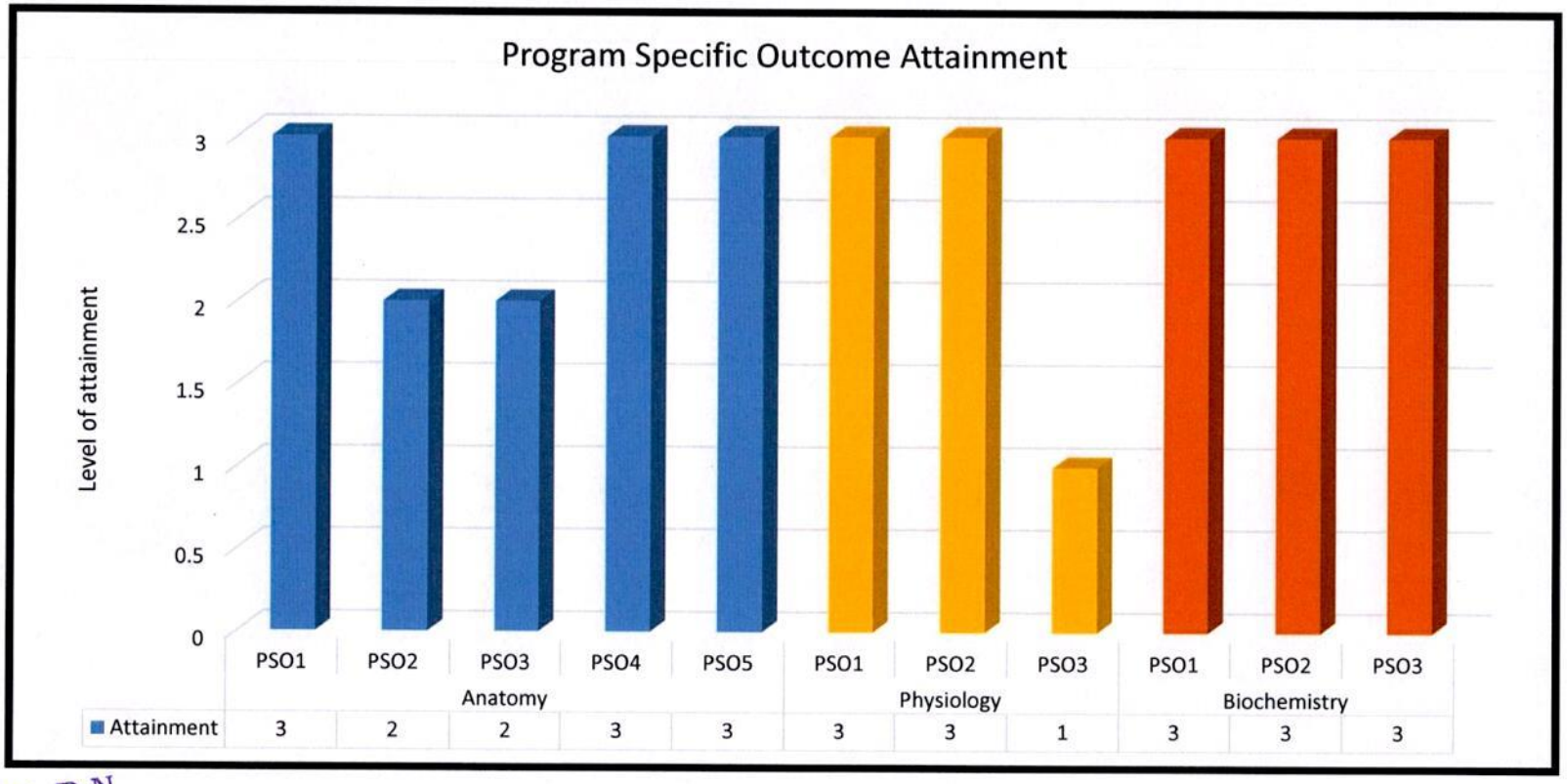
(excluding CBME batch)

Institutional Formative & Summative Assessments

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PSOs ATTAINMENT FOR FIRST YEAR MBBS (2018-19 batch)

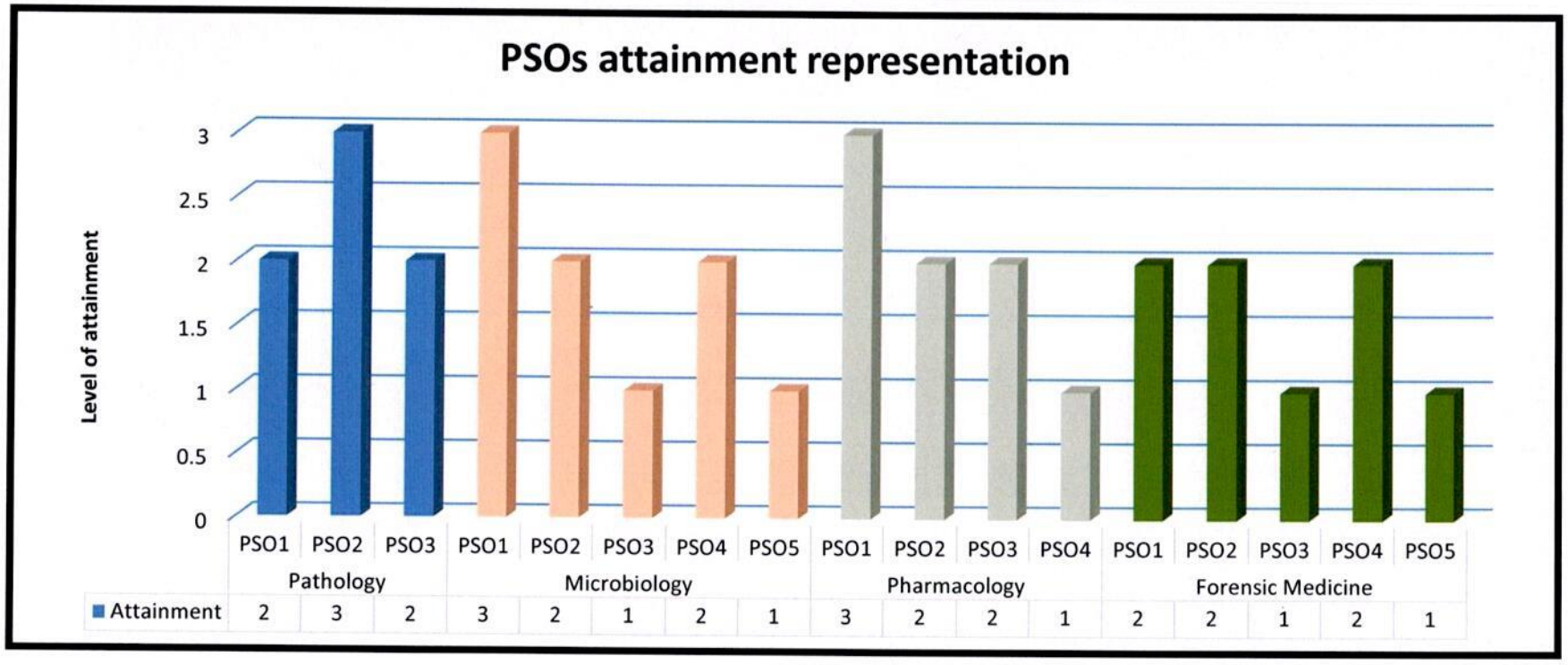
Anatomy, Physiology and Biochemistry



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PSOs ATTAINMENT FOR SECOND YEAR MBBS (2017-18 batch)

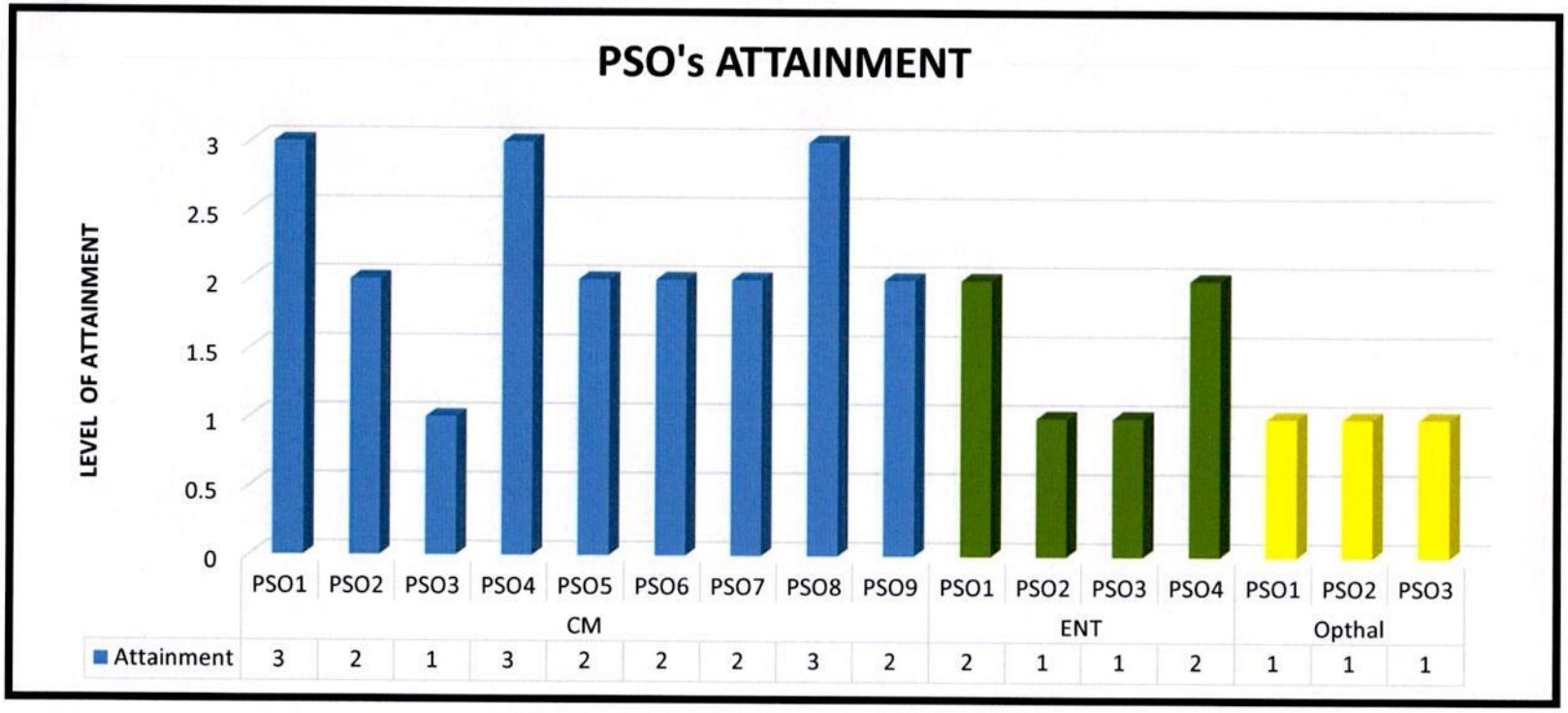
Pathology, Microbiology, Pharmacology and Forensic Medicine



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PSOs ATTAINMENT FOR THIRD YEAR MBBS (2016-17 batch)

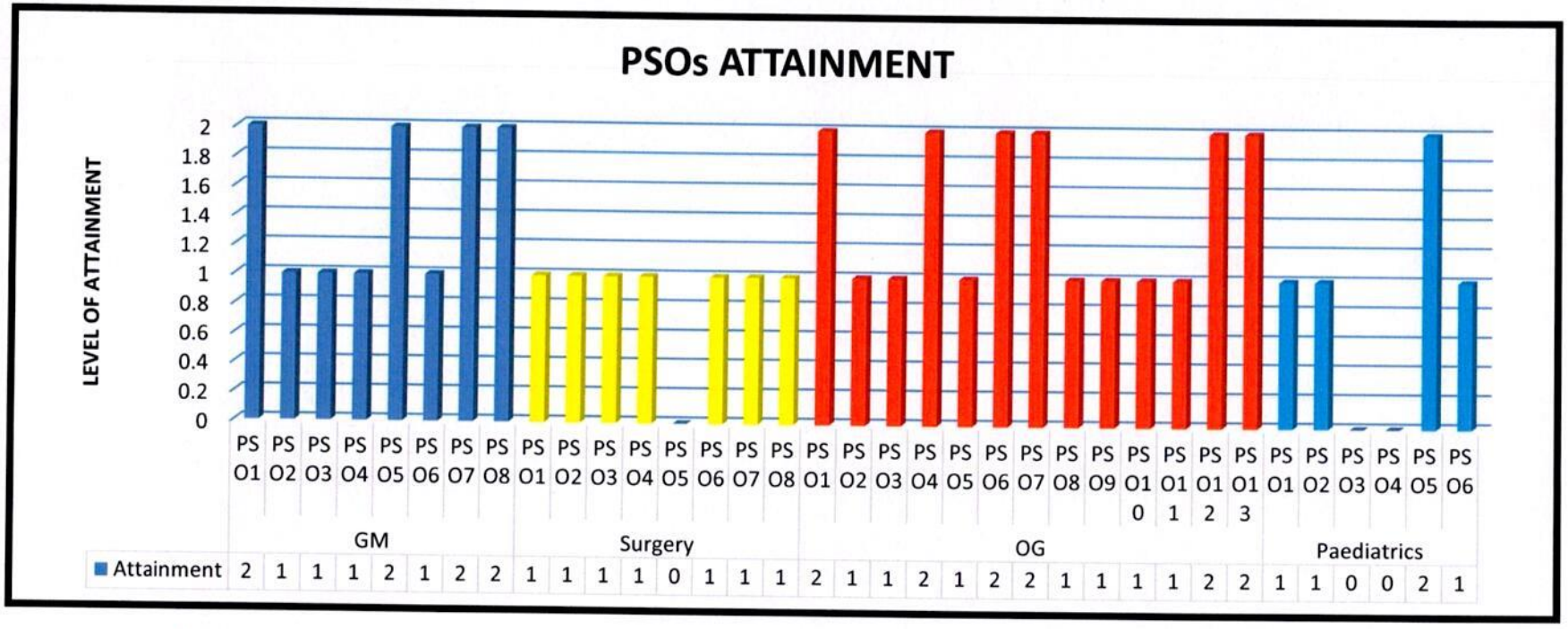
Community Medicine, ENT, Ophthalmology



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PSO's ATTAINMENT FOR FINAL YEAR MBBS (2015-16 batch)

General Medicine, General Surgery, Obstetrics and Gynecology, Pediatrics



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Final Program specific outcomes (PSOs) attainment for the

Academic year 2019-20

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FINAL PSOs ATTAINMENT FOR FIRST YEAR MBBS (2018-19 batch)

Anatomy, Physiology, Biochemistry

Department	PSO	IA		University		Pract		Viva			Target	Attained/ Not attained
Anatomy	PSO1	82	2	59	2	80	2	81	3	2.1	2	Attained
	PSO2	82	2	59	2	80	2	81	3	2.1	2	Attained
	PSO3	82	2	59	2	80	2	81	3	2.1	2	Attained
	PSO4	82	2	59	2	80	2	81	3	2.1	2	Attained
	PSO5	82	2	59	2	80	2	81	3	2.1	2	Attained
										2.1		
Physiology	PSO1	76	2	62	2	78	2	77	2	2	2	Attained
	PSO2	76	2	62	2	78	2	77	2	2	2	Attained
	PSO3	76	2	62	2	78	2	77	2	2	2	Attained
	PSO4	76	2	62	2	78	2	77	2	2	2	Attained
										2		
Biochemistry	PSO1	83	3	61	2	98	3	77	2	2.5	2	Attained
	PSO2	83	3	61	2	98	3	77	2	2.5	2	Attained
	PSO3	83	3	61	2	98	3	77	2	2.5	2	Attained
										2.5		

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FINAL PSOs ATTAINMENT FOR THIRD YEAR MBBS (2016-17 batch)

Community Medicine, ENT, Ophthalmology

Department	PSOs	IA		University		Practical	Viva			Target		Attained/Not attained
CM	PSO1	74	3	59	1	71	2	74	2	1.2	2	Not attained
	PSO2	62	2	59	1	71	2	74	2	1.8	2	Attained
	PSO3	58	1	59	1	71	2	74	2	1.6	2	Attained
	PSO4	70	3	59	1	71	2	74	2	1.4	2	Attained
	PSO5	66	2	59	1	71	2	74	2	1.8	2	Attained
	PSO6	69	2	59	1	71	2	74	2	1.6	2	Attained
	PSO7	58	2	59	1	71	2	74	2	1.6	2	Attained
	PSO8	73	3	59	1	71	2	74	2	1.6	2	Attained
	PSO9	64	2	59	1	71	2	74	2	1.8	2	Attained
										1.6		
ENT	PSO1	67	2	71	2	72	2	74	2	1.6	2	Attained
	PSO2	57	1	71	2	72	2	74	2	2	2	Attained
	PSO3	52	1	71	2	72	2	74	2	1.8	2	Attained
	PSO4	63	2	71	2	72	2	74	2	1.8	2	Attained
										1.8		
Opthal	PSO1	57	1	74	2	70	2	75	2	1.6	2	Attained
	PSO2	51	1	74	2	70	2	75	2	1.8	2	Attained
	PSO3	55	1	74	2	70	2	75	2	1.8	2	Attained
										1.7		

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FINAL PSOs ATTAINMENT FOR SECOND YEAR MBBS (2017-18)

Pathology, Microbiology, Pharmacology and Forensic Medicine

Departments	PSOs	IA		University		Practical		Viva			Target	Attained/Not attained
Pathology	PSO1	69	2	70	2	75	2	76	2	1.6	2	Attained
	PSO2	70	3	70	2	75	2	76	2	2	2	Attained
	PSO3	65	2	70	2	75	2	76	2	2.2	2	Attained
										1.93333		
Microbiology	PSO1	73	3	63	1	72	2	71	2	1.2	2	Not attained
	PSO2	63	2	63	1	72	2	71	2	1.8	2	Attained
	PSO3	60	1	63	1	72	2	71	2	1.6	2	Attained
	PSO4	62	2	63	1	72	2	71	2	1.4	2	Attained
	PSO5	59	1	63	1	72	2	71	2	1.6	2	Attained
										1.52		
Pharmacology	PSO1	72	3	64	1	86	2	76	2	1.2	2	Not attained
	PSO2	68	2	64	1	86	2	76	2	1.8	2	Attained
	PSO3	62	2	64	1	86	2	76	2	1.6	2	Attained
	PSO4	51	1	64	1	86	2	76	2	1.6	2	Attained
										1.55		
FM	PSO1	67	2	79	2	78	2	75	2	1.6	2	Attained
	PSO2	61	2	79	2	78	2	75	2	2	2	Attained
	PSO3	58	1	79	2	78	2	75	2	2	2	Attained
	PSO4	67	2	79	2	78	2	75	2	1.8	2	Attained
	PSO5	60	1	79	2	78	2	75	2	2	2	Attained
										1.88		

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FINAL PSO's ATTAINMENT FOR FINAL YEAR MBBS (2015-16 batch)

General Medicine, General Surgery, Obstetrics and Gynecology, Pediatrics

Department	PSOs	IA		University		Practical		Viva			Target	Attained/Not attained
GM	PSO1	63	2	63	2	59	1	78	2	1.3	2	Not attained
	PSO2	54	1	63	2	59	1	78	2	1.7	2	Attained
	PSO3	55	1	63	2	59	1	78	2	1.5	2	Attained
	PSO4	53	1	63	2	59	1	78	2	1.5	2	Attained
	PSO5	62	2	63	2	59	1	78	2	1.5	2	Attained
	PSO6	55	1	63	2	59	1	78	2	1.7	2	Attained
	PSO7	61	2	63	2	59	1	78	2	1.5	2	Attained
	PSO8	62	2	63	2	59	1	78	2	1.7	2	Attained
										1.6		
Surgery	PSO1	56	1	60	2	62	2	65	2	1.6	2	Attained
	PSO2	52	1	60	2	62	2	65	2	1.8	2	Attained
	PSO3	53	1	60	2	62	2	65	2	1.8	2	Attained
	PSO4	52	1	60	2	62	2	65	2	1.8	2	Attained
	PSO5	48	0	60	2	62	2	65	2	1.8	2	Attained
	PSO6	56	1	60	2	62	2	65	2	1.6	2	Attained
	PSO7	50	1	60	2	62	2	65	2	1.8	2	Attained
	PSO8	58	1	60	2	62	2	65	2	1.8	2	Attained
										1.8		

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Department	PSOs	IA		University		Practical		Viva			Target	Attained/Not attained
OG	PSO1	62	2	59	1	64	2	65	2	1.2	2	Not attained
	PSO2	54	1	59	1	64	2	65	2	1.6	2	Attained
	PSO3	56	1	59	1	64	2	65	2	1.4	2	Attained
	PSO4	61	2	59	1	64	2	65	2	1.4	2	Attained
	PSO5	51	1	59	1	64	2	65	2	1.6	2	Attained
	PSO6	61	2	59	1	64	2	65	2	1.4	2	Attained
	PSO7	61	2	59	1	64	2	65	2	1.6	2	Attained
	PSO8	54	1	59	1	64	2	65	2	1.6	2	Attained
	PSO9	56	1	59	1	64	2	65	2	1.4	2	Attained
	PSO10	54	1	59	1	64	2	65	2	1.4	2	Attained
	PSO11	50	1	59	1	64	2	65	2	1.4	2	Attained
	PSO12	61	2	59	1	64	2	65	2	1.4	2	Attained
	PSO13	61	2	59	1	64	2	65	2	1.6	2	Attained
										1.5		
Paediatrics	PSO1	58	1	56	1	67	2	65	2	1.2	2	Not attained
	PSO2	52	1	56	1	67	2	65	2	1.4	2	Attained
	PSO3	45	0	56	1	67	2	65	2	1.4	2	Attained
	PSO4	48	0	56	1	67	2	65	2	1.2	2	Not attained
	PSO5	69	2	56	1	67	2	65	2	1.2	2	Not attained
	PSO6	52	1	56	1	67	2	65	2	1.6	2	Attained
										1.3		

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RESULTS FOR THE ASSESSMENT YEAR (2021-22)		
1st year	**Pass Percentage**	**BATCH**
Anatomy	98%	**2020 batch**
Physiology	99%	
Biochemistry	99%	
2nd year		
Pharmacology	94%	**2019 batch**
Pathology	94%	
Microbiology	89%	
Forensic Medicine	NA	
3rd year		
Community Medicine	99%	**2018 batch**
Ophthalmology	94%	
ENT	92%	
4th year		
General Medicine	94%	**2017 batch**
General Surgery	98%	
OBG	98%	
Paediatrics	91%	

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RESULTS FOR THE ASSESSMENT YEAR (2020-21)		
1st year	**Pass Percentage**	**BATCH**
Anatomy	98%	**2019 batch**
Physiology	99%	
Biochemistry	99%	
2nd year		
Pharmacology	98%	**2018 batch**
Pathology	93%	
Microbiology	96%	
Forensic Medicine	97%	
3rd year		
Community Medicine	100%	**2017 batch**
Ophthalmology	99%	
ENT	99%	
4th year		
General Medicine	94%	**2016 batch**
General Surgery	93%	
OBG	92%	
Paediatrics	90%	

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RESULTS FOR THE ASSESSMENT YEAR (2019-20)		
1st year	**Pass Percentage**	**BATCH**
Anatomy	**93%**	**2018 batch**
Physiology	**99%**	
Biochemistry	**91%**	
2nd year		
Pharmacology	**99%**	**2017 batch**
Pathology	**98%**	
Microbiology	**97%**	
Forensic Medicine	**97%**	
3rd year		
Community Medicine	**99%**	**2016 batch**
Ophthalmology	**96%**	
ENT	**89%**	
4th year		
General Medicine	**78%**	**2015 batch**
General Surgery	**93%**	
OBG	**91%**	
Paediatrics	**95%**	

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RESULTS FOR THE ASSESSMENT YEAR (2018-19)		
1st year	**Pass Percentage**	**BATCH**
Anatomy	95%	2017 batch
Physiology	98%	
Biochemistry	93%	
2nd year		
Pharmacology	93%	2016 batch
Pathology	89%	
Microbiology	90%	
Forensic Medicine	98%	
3rd year		
Community Medicine	92%	2015 batch
Ophthalmology	92%	
ENT	90%	
4th year		
General Medicine	89%	2014 batch
General Surgery	92%	
OBG	92%	
Paediatrics	91%	

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RESULTS FOR THE ASSESSMENT YEAR (2017-18)		
1st year	**Pass Percentage**	**BATCH**
Anatomy	85%	2016 batch
Physiology	90%	
Biochemistry	88%	
2nd year		
Pharmacology	100%	2015 batch
Pathology	97%	
Microbiology	94%	
Forensic Medicine	97%	
3rd year		
Community Medicine	98%	2014 batch
Ophthalmology	82%	
ENT	91%	
4th year		
General Medicine	86%	2013 batch
General Surgery	85%	
OBG	82%	
Paediatrics	88%	

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Student Performance and Learning Outcomes

MAPPING MODULE FOR MEASURING COMPETENCY ATTAINMENT

The mapping module involves four major steps:

- Alignment of the graduate attributes, PSOs and competencies
- Calculate Competency attainment
- Calculate PSO attainment
- Calculate IMG attribute attainment

ALIGNMENT OF THE GRADUATE ATTRIBUTES, PSOs AND COMPETENCIES

PSO statements need to be in alignment with the competencies and Indian Medical Graduate (IMG) attributes stated by National Medical Commission (NMC) of India.

Step 1: Refine your Program Specific Outcomes (PSOs) statements in alignment with IMG roles, namely clinician, professional, leadership, communicator, life-long learner.

Step 2: List your competency statements

Step 3: List your Program Specific Outcomes (PSOs) statements

Step 4: Align your Graduate Attributes with PSOs

Step 5: Align the competencies with the stated PSOs.

Note: A single competency can be mapped to a single or more PSOs as per the department consensus.

CALCULATE COMPETENCY ATTAINMENT

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initial Competency attainment

Initial competency attainment can be done after each formative or summative assessment (Theory, practical/ clinical postings, clerkship)

Step 1: Prepare the Answer Keys/ checklist with competency number & Bloom's taxonomy for the question paper for which competency attainment has to be calculated

Step 2: Enter the individual question wise answer marks for each student in Excel sheet

Step 3: Calculate the average score obtained for each question

Step 4: Fix the threshold for attainment for each question Based on the difficulty level:

- ✓ Lower Order Thinking (LOT) recall based questions -90% of the total mark
- ✓ LOT Understanding based questions-70% of the total mark
- ✓ Higher Order Thinking (HOT)-50% of the total mark
- ✓ For MCQs and structured viva- 0/1 (Threshold fixation not needed; either 0 or 1)
- ✓ If a question has both components of LOT and HOT- calculate the average

Step 5: Calculate the number & percentage of students who attain the threshold levels.

Step 6: Fix the target level for each question as given below:

Level	Target for attainment
0	<30 of students scoring more than threshold
1	31-49% of students scoring more than threshold
2	50-70% of students scoring more than threshold
3	>70% of students scoring more than threshold

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Step 7: Analyze the competencies of the topics tested. Calculate the average if same competency is tested multiple times

Step 8: Discuss the attained, unattained and not addressed competencies.

Step 9: Discuss the action plan for the unattained and not addressed competencies.

Final Competency Attainment

Final Competency attainment can be done at the end of the academic year after all formative and summative assessment have been carried out.

Step 1: Enter the initial competency attainment scores for all the stated competencies. A single competency may be addressed multiple times in different tests

Step 2: Take the average of all the competency attainment scores for each competency.

CALCULATE PSO ATTAINMENT

Initial PSO attainment

Calculate the average level of attainment score for the stated PSOs mapped with the respective competencies. This gives the initial PSO attainment.

Final PSO attainment

Final PSO attainment can be calculated after the University results are declared. Both direct and indirect assessments are taken into account for calculating the final PSO attainment.

Step 1: Calculate the university pass percentage

No. of students passed/No. of students appeared*100

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Step 2: Fix the targets for attainment and grade the university pass percentages separately as 0,1,2,3. (Department consensus)

Step 3: Find the average score obtained by all the students appearing for a particular university exam

Step 4: Fix the targets for attainment and grade the average score as 0,1,2,3. (Department consensus)

Step 5: **Direct assessment** is calculated based on the grading-80% weightage to the initial PSO attainment, 10 % weightage to university pass percentage and 10% weightage to the university average scores.

Step 6: Indirect assessment can be done using course exit survey/faculty feedback/parents' feedback/feedback from student support system, feedback from attenders, clerks and technicians. Percentage for each competency will be calculated, average will be taken and graded as 0,1,2,3 (Department consensus).

Step 7: Final PSO attainment is calculated based on the weightage as: 80-90% direct assessment+10-20% Indirect assessment

Step 8: Level of attainment is equal to or greater than 2 is considered to be attained. Less than 2 is not attained

Step 9: Analyze the attained and unattained PSOs

Step 10: Discuss the action plan

CALCULATE IMG ATTRIBUTE ATTAINMENT

Step1: Sum the final PSO attainment scores for the aligned IMG graduate attributes

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Step 2: Discuss for action plan for the unattained and unaddressed IMG roles

GLOSSARRY

- *Competency:* The ability of a health professional that can be observed. It encompasses various components such as knowledge, skills, values, and attitudes. Competency is the application of competencies in an actual setting, and an individual who is able to do so is considered competent.
- *Program Specific Outcomes (PSOs):* The knowledge, skills, attitudes and techniques learnt at the end of the professional year.
- *Program Specific Outcome (PSOs) statements:* These are the statements that define the overall knowledge, skills and attitudes to be learnt at the end of the professional year.
- *Indian Medical graduate (IMG):* The aggregate knowledge, skills and attitude acquired by a health professional at the end of the entire MBBS degree
- Lower Order Thinking (LOT): As per the Blooms taxonomy, educational goals were categorized into lower order thinking namely; remember (recall facts and basic concepts) and understand (explain ideas and concepts).
- Higher Order Thinking (HOT): As per the Blooms taxonomy, educational goals were categorized into higher order thinking namely; apply (use information in new situation), analyze (draw connections among ideas), evaluate (justify a stand or decision) and create (produce new or original work).

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Student Performance and Learning Outcomes

PROTOCOL ON MAPPING MODULE FOR MEASURING COMPETENCY ATTAINMENT

1. COMPETENCY ATTAINMENT

1.1 Initial Competency attainment

Step 1: Prepare the Answer Keys with competency number & Bloom's taxonomy for the question paper for which competency attainment has to be calculated

Step 2: Enter the individual question wise answer marks for each student in Excel sheet

Step 3: Calculate the average score obtained for each question

Step 4: Fix the threshold for attainment for each question (based on the difficulty level: LOT recall based -90% of the total; LOT Understanding-70% of the total; HOT-50% of the total)

- For MCQs and structured viva- 0/1 (Threshold fixation not needed; either 0 or 1)
- If a question has both components of LOT and HOT- calculate the average

Step 5: Calculate the number & percentage of students who attain the threshold levels.

Step 6: Fix the target level for each question as given below:

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Level	Target for attainment
0	<30 of students scoring more than threshold
1	31-49% of students scoring more than threshold
2	50-70% of students scoring more than threshold
3	>70% of students scoring more than threshold

Step 7: Analyze the competencies of the topics tested.

Step 8: Discuss the attained, not attained, not tested competencies, competencies addressed in practical.

Note: Calculate the average if same competency is tested multiple times. Discuss the action plan

Step 9: Analyze all the competencies in each topic and check for their level of attainment

1.2 Final Competency attainment

Step 1: **Internal attainment:** Enter separately all the individual topic wise competency attainments (Direct tools: Internal assessments, summative assessments, formative assessments, structured viva etc.)

Step 2: Calculate the average of all the direct assessments (Value x)

Step 4: **External Attainment**: Calculate the university pass percentage in theory and practical's separately and fix the threshold (Department consensus).

Step 5: Fix the targets for attainment and grade the theory and practical percentages separately as 0,1,2,3. (Department consensus)

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Step 6: Overall **Final attainment** is calculated based on the grading-20% weightage to internal attainment and 80 % weightage to external attainment (60% weightage to theory and 20% weightage to practical and viva together).

Step 7: Indirect assessment (course exit survey/faculty feedback/others), percentage for each competency will be calculated, average will be taken and graded as 0,1,2,3 (Department consensus).

Step 8: Final assessment (80% direct assessment+20% Indirect assessment)

Step 9: Fix the target levels of attainment (e.g., 75% of 2 is attained or else not attained)

Step 10: Analyze the attained and non-attained topics based on the overall competencies

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2. PROGRAM SPECIFIC OUTCOMES ATTAINMENT

2.1 Initial Correlation Matrix (Each Competency Vs Program Specific Outcomes)

Step1: List your competency statements

- Theory competency statements topic wise
- Skill competency statements topic wise

Step 2: List your Program Specific Outcomes (PSOs) statements

Step 3: Map your competency statements to PSOs

- Map the competencies to the respective PSOs in each topic as 3, 2, 1
- 3- High correlation
- 2-Moderate correlation
- 1-Low correlation

Step 4: Calculate the average of correlation matrix for each topic wise competency and PSOs

Topic 1 PSO1= (PY1=Average of PY1.1+PY1.2…..PY1.9/9)

PSO2=(PY1=Average of PY1.1+PY1.2…..PY1.9/9)

Note: Similarly, Calculate the average for each topic for each PSO

Step 5: Final competency attainment value for each PSO

=Calculate the total average of all the topic wise competencies attainment (X)

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2.2 Final Correlation Matrix (Each Competency Vs Program Specific Outcomes)

Step1: Final Correlation matrix between overall topic wise competency and each PSO

Step2: Calculate the average of all correlation matrix for all topic taken together

PSO1=(Average=PY1+PY2+PY3…..PY11/11)…….Y

Step 3: Calculate the attainment as:

(Average of the correlation levels calculated for PSO / 3)* Final competency attainment value

(Y/3)*X……..A

Step 4: Fix the target levels of attainment (e.g., 75% of 2 is attained or else not attained)

Step 5: Analyze the attained and non-attained PSOs

Step 6: Discuss and action plan to be taken

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3. GRADUATE ATTRIBUTE ATTAINMENT

3.1 Initial Correlation Matrix (Each Program Specific Outcomes Vs Graduate Attributes)

Step1: List your Graduate Attributes (Clinician, Professional, Leader, Lifelong learner and Communicator)

Step 2: List your Program Specific Outcomes (PSOs) statements

Step 3: Map your Graduate Attributes with PSOs

- 3- High correlation
- 2-Moderate correlation
- 1-Low correlation

Step 4: Calculate the average of correlation matrix for each graduate attribute ….P

Step 5: *Step 3:* Calculate the attainment as:

(Average of the correlation levels calculated for each graduate attribute / 3)* Final competency PSO attainment value

(P/3)*A

Step 4: Fix the target levels of attainment (e.g., 75% of 2 is attained or else not attained)

Step 5: Analyze the attained and non-attained Graduate attributes

Step 6: Discuss and action plan to be taken

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2.6.3.1
Any other

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UNDER GRADUATES - MBBS - Phase I - [Batch 2021-2022]

Generic outcome

To provide comprehensive knowledge of the gross and microscopic structure and development of the human body t provide a basis for understanding the clinical correlation of organs of structures involved and the anatomical basis for the disease presentation.

Program Specific Outcome

1. Understanding of the gross and microscopic structure and development of the human body

2. Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.

3. Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.

4. Identify the organs and tissues under the microscope.

5. Knowing the principles of Karyotyping and identify the gross congenital anomalies.

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Refined PSO (UG Medical)

Alignment of program specific outcomes with Indian medical graduate (IMG) attributes

REFINED PSO STATEMENT		
Department	**PSO**	**PSO statements**
Anatomy	PSO1	Understanding of the gross and microscopic structure and development of the human body
	PSO2	Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.
	PSO3	Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.
	PSO4	To instill professionalism by developing communication, leadership skills with ethical and moral values
	PSO5	To develop life-long learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development

INDIAN MEDICAL GRADUATE GOALS	
1	Clinician
2	Professional
3	Leadership
4	Communicator
5	Lifelong learner

1	Clinician	PSO1,PSO2, PSO3
2	Professional	PSO1, PSO2, PSO3, PSO4,PSO5
3	Leadership	PSO4
4	Communicator	PSO4
5	Lifelong learner	PSO5

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Alignment of competencies with program specific outcomes

PSO – Department of Anatomy

Department	PSO	PSO statements	Competencies Mapping
Anatomy	PSO1	Understanding of the gross and microscopic structure and development of the human body	Normal functioning related competencies (Compentencies not covered by PSO 2, 3,4 & 5)
	PSO2	Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.	Functional correlation AN 2.5, AN 3.1, AN 4.1, AN 4.2, AN 4.4, AN 5.4, AN 5.7, AN 21.9
	PSO3	Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.	Clinical correlation AN 4.4, AN 6.3, AN 8.6, AN 10.6, AN 10.3, AN 11.3, AN 12.4, AN 12.8, AN 12.10, AN 12.13, AN 15.4, AN 16.2, AN 16.3, AN 17.2, AN 18.3, AN 18.7, AN 19.4, AN 19.6, AN 19.7, AN 20.4, AN 20.5, AN 22.4, AN 28.7, AN 28.8, AN 28.10, AN 29.2, AN 29.3, AN 30.4, AN 31.3, AN 33.4, AN 34.2, AN 35.8, AN 37.3, AN 38.3, AN 39.2, AN 40.4, AN 40.5, AN 44.5, AN 44.7, AN 46.4, AN 46.5, AN 47.3, AN 47.4, AN 47.6, AN 47.7, AN 47.11, AN 49.5, AN 50.4, AN 57.5, AN 58.4, AN 60.3, AN 61.3, AN 63.2
	PSO4	To instill professionalism by developing communication, leadership skills with ethical and moral values	AETCOM
	PSO5	To develop life-long learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development	Self-directed learning (SDL) and early clinical exposure (ECE) -related competencies AN 11.2, AN 12.2, AN 12.7, AN 12.12, AN 32.1, AN 35.4, AN 44.4, AN 44.6, AN 47.2, AN 47.5, AN 62.6.

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Post Graduate PSO – Department of Anatomy

A post graduate student having qualified the MD (Anatomy) examination should be able to

1. Acquire competencies in gross and surface anatomy, neuroanatomy, embryology, genetics, histology, radiological anatomy, applied aspects and recent advances of the above mentioned branches of anatomy to clinical practice. These are given in detail in subsequent sections.

2. Acquire mastery in dissection skills, embalming, tissue preparation, staining and museum preparation.

3. Acquire skills in teaching, research methodology, epidemiology & basic information technology.

4. Acquire knowledge in the basic aspects of Biostatistics and research methodology.

5. Has knowledge to plan the protocol of a thesis, carry out review of literature, execution of research project and preparation of report.

6. Has ability to use computer applications Microsoft office (Microsoft word, excel, power point), Internet, Searching scientific databases (e.g. PubMed, Medline, Cochrane reviews).

7. Acquire skills in paper & poster preparation, writing research papers and Thesis.

8. Acquire capacity of not letting his/her personal beliefs, prejudices, and limitations come in the way of duty.

9. Acquire attitude and communication skills to interact with colleagues, teachers and students.

10. Practicing different methods of teaching-learning

11. Demonstrate the ability to identify applied implications of the knowledge of anatomy and discuss information relevant to the problem, using consultation, texts, archival literature and electronic media.

12. Demonstrate the ability to correlate the clinical conditions to the anatomical/ embryological/hereditary factors.

13. Demonstrate the ability to evaluate scientific/clinical information and critically analyze conflicting data and hypothesis.

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Program Educational Objectives (PEOs)

PEOs are the broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

Program Educational Objectives (PEOs)	PEO Statements
PEO1	Acquisition and transfer of knowledge, skills, attitude and professionalism to undergraduate and postgraduate students for quality care and outcome
PEO2	Acquire, conduct, interpret, publish and translate knowledge and skills relevant in improving the contemporary medicine.
PEO3	Coordinate, communicate and collaborate with national and international networks to update and disseminate information related to human well being

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Mapping Report

I - Internal Assessment Exam – 02.05.22

AN 1-7, 64-72 – General Anatomy & General Histology

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 2.1	Attained	1. Questions of higher order in blooms taxonomy can be planned. 2.Threshold for attainment can be fixed to be more than 60 %
AN 2.5, AN 65.2, AN 70.2, AN 71.1, AN 4.4, AN 68.1, AN 3.2 and AN 65 - 72	Not attained	1.Case based learning 2.Early clinical exposure 3.Small group discussion 4.Assignments to be given
AN 1, AN 3	Not addressed	1.Small group discussion 2.Will be emphasized during Revision classes

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Mapping Report

II - Internal Assessment Exam – 06.06.22

AN 8 - 20 – Upper limb & Lower limb

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 18.4, AN10.11,AN 20.2, AN 8.2, AN 10.8, AN 10.10, AN 11.2, AN 12.2, AN 12.3, AN 12.5, AN 12.12, AN 12. AN 13, AN 8.2,AN 14.2, AN 20.9, AN 20.8, AN 20.7, AN 20.6, AN 18.3,17.2, AN 16.4, AN 15.3, AN 15.1, AN 16.2	Attained	Question of higher order in blooms taxonomy can be planned
1AN 10.3, AN 20.5, AN12.9,AN 12.10 AN 11.5, AN 19.2, AN 19.3	Not Attained	Case base learning Early clinical exposure Small Group discussion Assignment can be given
AN 14.1, AN 20.3 , AN 20.4, AN 18.1, AN 18.2	Not Tested	Small Group discussion Will be tested in revision exam

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III - Internal Assessment Exam – 04.07.22

AN 27-35 – Head & Neck

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 27.3, AN- AN 35	Attained	Question of higher order in blooms taxonomy can be planned
AN 35.2, AN 30.3, AN 30.4,. AN 30.5, AN 28.9, AN 28.10, AN 32.1, AN 32.2, AN35.1, AN 28.1- 28.7, AN 29.1 -29.4, AN 27.1 , AN 27.2	Not Attained	Case base learning Early clinical exposure Small Group discussion Assignment can be given
AN 30.1, AN 30.2, AN 31	Not Tested	Small Group discussion Will be tested in revision exam

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IV - Internal Assessment Exam – 01.08.22

AN 44-47- Abdomen

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 47.5, AN 47.10-47.12, 4, AN 44.3, AN 47.14	Attained	Question of higher order in blooms taxonomy can be planned
AN 47.6, AN 47.7, AN 47.2, AN 44.12 – AN 47.14	Not Attained	Case base learning Early clinical exposure Small Group discussion Assignment can be given
AN 44.1, AN 44.2, AN 44.6, AN 44.7, AN 45.1, AN 45.2, AN 45.3, AN 46.3, AN 46.5	Not Tested	Assignment to be planned Small Group discussion Will be cover under integrated anatomy Will be tested in revision exam

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Mapping Report

V - Internal Assessment Exam — 05.09.22

AN 48, 49 – Pelvis & Perineum

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

Competency No	Competency Status	Action Report
AN 48.2, AN 48.1, AN 49.5	Attained	Question of higher order in blooms taxonomy can be planned
AN 49.4, AN 49.1, AN 48.2, AN 48.7, AN 48.1	Not Attained	Case base learning Early clinical exposure Small Group discussion Assignment can be given
AN 48.3, AN 48.4, AN 48.5, AN 48.6, AN 48.8	Not Tested	Small Group discussion Will be tested in revision exam

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VI - Internal Assessment Exam – 05.10.22

AN 56-63– Neuroanatomy

The competency attainment was calculated by fixing the threshold of 60% for each question

The Levels of attainment was classified as below

Level 0 and Level 1: Not attained; Level 2and Level3: Attained

Level 0	<30 of students scoring more than 60% of maximum marks
Level 1	31-49% of students scoring more than 60% of maximum marks
Level 2	50-70% of students scoring more than 60% of maximum marks
Level 3	>70% of students scoring more than 60% of maximum marks

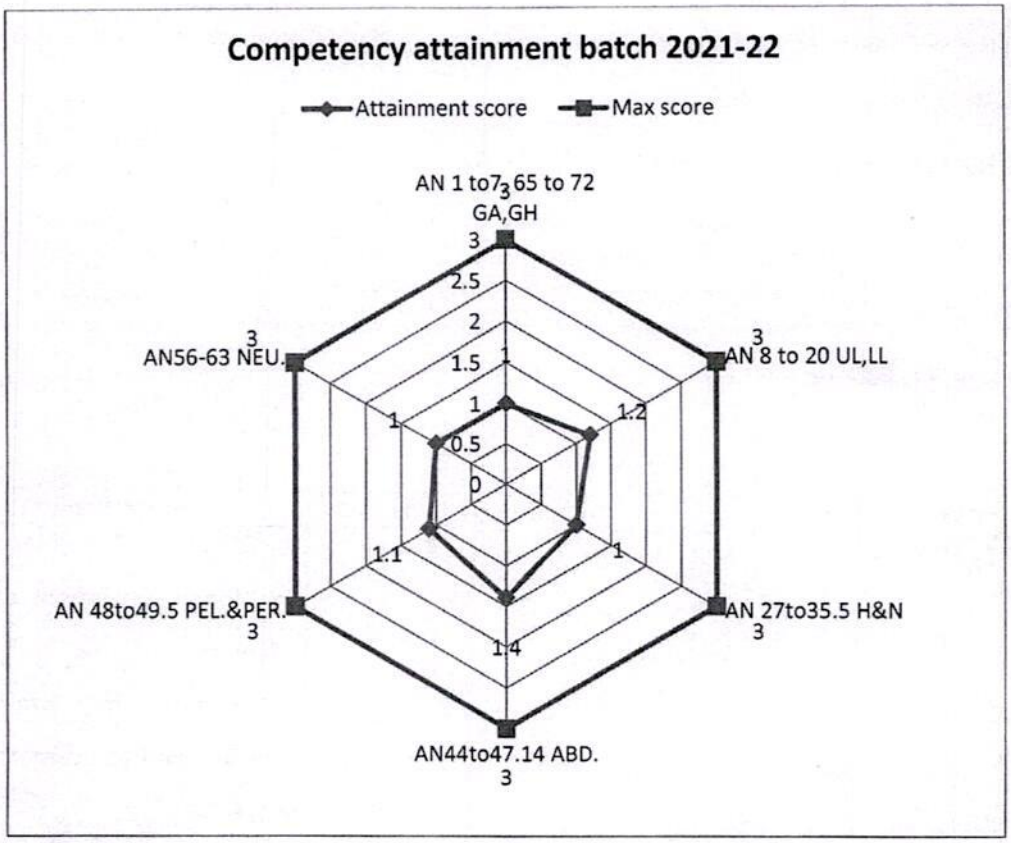
Competency No	Competency Status	Action Report
AN 56.2, AN 62.3	Attained	1. Questions of higher order in blooms taxonomy can be planned. 2.Threshold for attainment can be fixed to be more than 60 %
AN 60.1, AN 62.2, AN 59.2, AN 57.1, AN 62.5, AN 62.4 and AN 56-63	Not attained	1.Case based learning 2.Early clinical exposure 3.Small group discussion 4.Assignments to be given
AN 57.3, AN 57.5, AN 59.3, AN 60.3, AN 62.1, AN 63.2	Not addressed	1.Small group discussion 2.Will be emphasized during Revision classes

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Competency attainment by 2021-22 batch



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Department of Anatomy

Program specific outcome- student attainment

Batch -2021-22

PSO	PSO statements	Average score
PSO1	Understanding of the gross and microscopic structure and development of the human body	2.18
PSO2	Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.	1
PSO3	Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.	1.43
PSO4	To instill professionalism by developing communication, leadership skills with ethical and moral values	2.2
PSO5	To develop life-long learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development	1.37

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Calculation of Final PSO attainment

Course	PSOs	PSO Average	UNIV Result				Direct Final Attainment	Indirect Assessment	Final Assessment
			Pass percentage		Average score obtained		80% PSO+20% Univ result	Course exit survey	90% DA+ 10%IDA
Anatomy	PSO1	2.18	80.00	3.00	63.00	2.00	2.24	3	2.32
	PSO2	1	80.00	3.00	63.00	2.00	1.30	3	1.47
	PSO3	1.43	80.00	3.00	63.00	2.00	1.64	3	1.78
	PSO4	2.2	80.00	3.00	63.00	2.00	2.26	3	2.33
	PSO5	1.37	80.00	3.00	63.00	2.00	1.60	3	1.74

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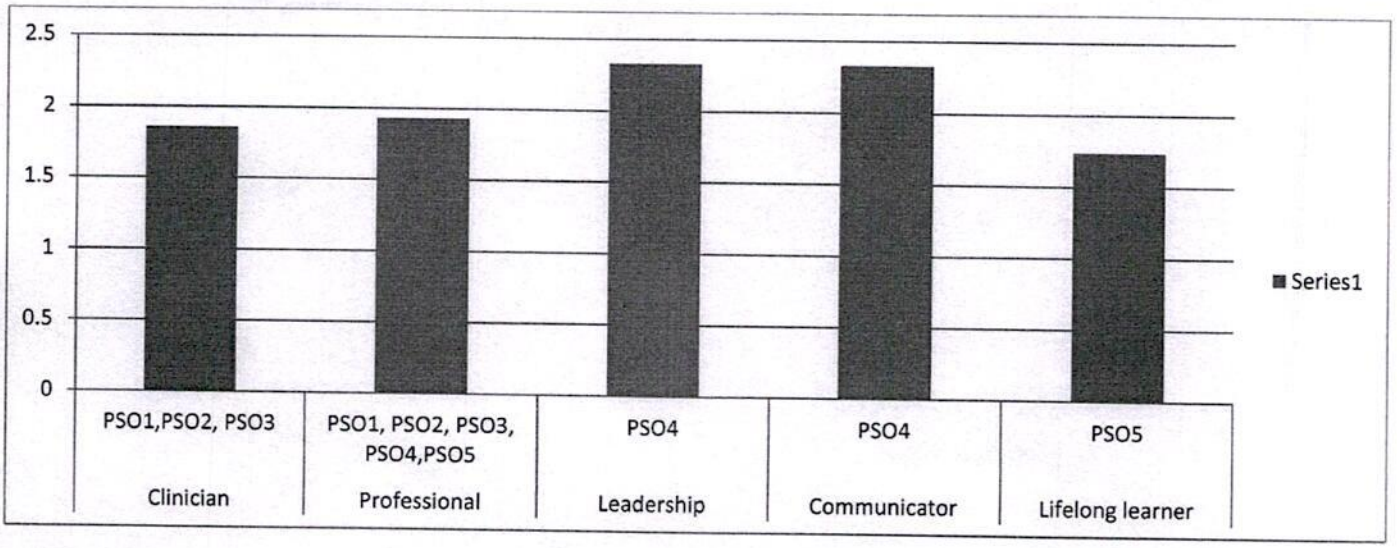
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Department of Anatomy

CALCULATING INDIAN MEDICAL GRADUATE ATTRIBUTES

IMG Attributes	PSOs	Attainment
Clinician	PSO1,PSO2, PSO3	1.8564
Professional	PSO1, PSO2, PSO3, PSO4,PSO5	1.93
Leadership	PSO4	2.33
Communicator	PSO4	2.33
Lifelong learner	PSO5	1.74



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DEPARTMENT OF MICROBIOLOGY

UNDERGRADUATES

REFINED PROGRAM SPECIFIC OUTCOMES

Department	PSO	PSO Statements
Microbiology	PSO1	Understanding of role of microbial agents in health and disease
	PSO2	Understanding of the immune pathological mechanisms in health and disease
	PSO3	Ability to correlate the natural history, mechanisms and clinical manifestations of infectious diseases as they relate to the properties of microbial agents
	PSO4	Knowledge of the principles of infection control measures and implementation
	PSO5	An understanding of the basis of choice of laboratory diagnostic tests and their interpretation , antimicrobial therapy and communication

INDIAN MEDICAL GRADUATE GOALS	
1	Clinician
2	Professional
3	Leadership
4	Communicator
5	Life Long Learner

1	Clinician	**PSO1, PSO2, PSO3, PSO4, PSO5**
2	Professional	**PSO3, PSO4, PSO5**
3	Leadership	**PSO4,**
4	Communicator	**PSO4, PSO5**
5	Life Long Learner	**PSO1, PSO4, PSO5**

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POSTGRADUATES- GENERIC OUTCOME

M.D MICROBIOLOGY

A post graduate student upon successfully qualifying in the MD (Microbiology) examination should be able to

1. Demonstrate competence as a clinical microbiologist.

2. Interact effectively with the allied departments by rendering services in basic as well as advanced laboratory investigations.

3. Demonstrate application of microbiology in a variety of clinical settings to solve diagnostic and therapeutic problems along with preventive measures.

4. Play a pivotal role in hospital infection control, including formulation of antibiotic policy and management of biomedical waste.

Program Educational Objectives (PEOs)

PEOs are the broad statements that describe the career and professional accomplishment that the program is preparing graduates to achieve.

Program Educational Objectives (PEOs)	PEO Statements
PEO1	Acquire knowledge, skills, and professionalism and transfer it to under graduate and post graduate students
PEO2	Contribute to contemporary medicine by acquiring knowledge and skills in research and publishing
PEO3	Offer quality diagnostic services by practicing and collaborating with national quality control and accreditation agencies.
PEO4	To pursue specialization in various Microbiology branches like Infectious disease, Hospital infection control, Advanced Virology and Immunology.

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MAPPING REPORT

TOPIC: General Microbiology

COMPETENCY NOs:MI 1.1, MI 1.2, MI 1.3, MI 1.6, MI 8.9, MI 8.10

Date: 08.4.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 2 & 3 = Competency attained; Level 0 & 1 = Competency not attained

Competency	Competency Status	Action taken
MI 1.1, MI 1.2, MI 1.3, MI 1.6	Attained	Question of higher order in blooms taxonomy can be planned
MI 8.9, MI 8.10	Not Attained	Small Group Discussion & Assignments

TOPIC: Immunology

COMPETENCY NOs: MI 1.1, MI 1.2, MI 1.3, MI 1.6, MI 8.9, MI 8.10

Date: 08.4.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 1.1, MI 1.2, MI 1.3, MI 1.6	Attained	Question of higher order in blooms taxonomy can be planned
MI 8.9, MI 8.10	Not Attained	Small Group Discussion & Assignments
MI1.4, MI 1.5	Not tested	Addressed in revision

TOPIC: CVS

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COMPETENCY NOs: MI 2.1,2.2,2.3,2.4,2.5,2.6,2.7,1.1,8.13,8.15,8.16

Date: 8.7.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 2.7	Attained	Question of higher order in blooms taxonomy can be planned
MI 2.1, 2.1,2.2,2.3,2.4,2.5,2.6, ,3.3,3.4	Not Attained	Small Group Discussion & Assignments
MI1.1, 8.13.8.15,8.16	Attained	Question of higher order in blooms taxonomy can be planned

TOPIC: GIT

COMPETENCY NOs: MI 3.1,3.2,3.5,3.6,1.2,8.15

Date: 29.7.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 3.1,3.2,3.5,3.6,1.2,8.15	Attained	Question of higher order in blooms taxonomy can be planned

TOPIC: Skin and soft tissue infection

COMPETENCY NOs: MI 4.1,4.2,4.3,1.2,8.13, 8.15,8.16

Date: 9.9.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken

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MI 4.1,4.2,4.3,1.2,8.15,8.16,8.13	Attained	Question of higher order in blooms taxonomy can be planned

TOPIC:RS

COMPETENCY NOs:MI 6.1,6.2,6.3

Date:4.11.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

Competency	Competency Status	Action taken
MI 6.1,6.2,6.3	Attained	Question of higher order in blooms taxonomy can be planned

TOPIC: CNS & GUT

COMPETENCY NOs: MI 5.1,5.2,5.3,1.2,8.15,7.1,7.2,7.3,8.15

Date: 1.12.2022

Threshold for Competency attainment: Higher order -70%; Lower order -50%.

Level 1,2 & 3 = Competency attained; Level 0 = Competency not attained

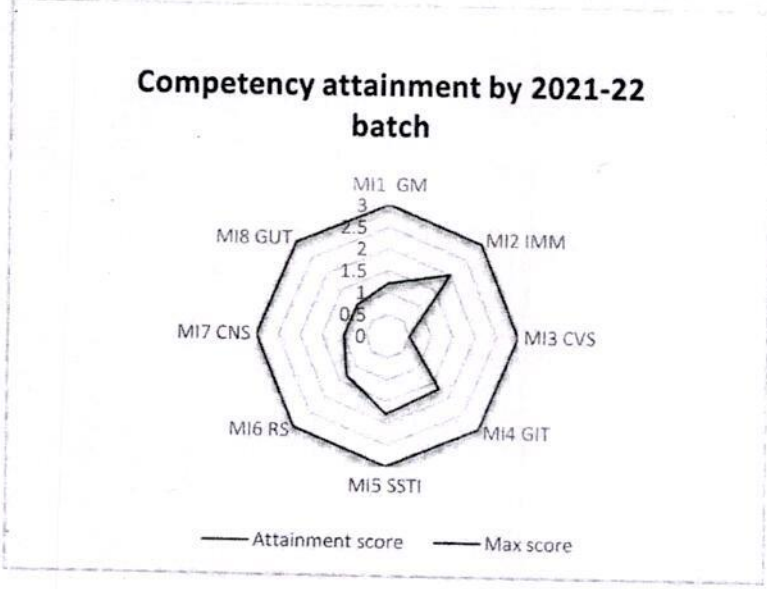
Competency	Competency Status	Action taken
MI 5.1,5.2,5.3,8.16	Attained	Question of higher order in blooms taxonomy can be planned
MI 7.1,7.2	Not attained	Small group discussion

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Competency attainment by 2021-22 batch



CALCULATION OF INITIAL PSO ATTAINMENT

PSO	AVERAGE SCORE
PSO-1	1.4
PSO-2	1.8
PSO-3	1.4
PSO-4	2
PSO-5	1.4

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IMG	PSO	IMG ATTAINMENT
Clinician	1,2,3,4,5	2
Professional	3,4,5	2
Leadership	4	2
Communicator	4,5	2
Life long learner	1,4,5	2

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DEPARTMENT OF MICROBIOLOGY

Final Mapping – Overall Attainment

II – MBBS (2020 – 2021 Batch)

Course	PSOs	PSO Average	UNIV Result			Direct Final Attainment		Indirect Assessment	Final Assessment
			Pass percentage	Average score obtained		80% PSO+20% Univ result		Course exit survey	90% DA+ 10%IDA
Microbiology	PSO1	1.4	86	3	6	2	1.62	2	1.66
	PSO2	1.8	86	3	65	2	1.94	2	1.95
	PSO3	1.4	86	3	65	2	1.62	2	1.66
	PSO4	2	86	3	65	2	2.10	2	2.09
	PSO5	1.4	86	3	65	2	1.62	2	1.66

DR. R. GOPAL
PROFESSOR & HEAD
DEPARTMENT OF MICROBIOLOGY

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DEPARTMENT OF OPHTHALMOLOGY

Under Graduates

Generic outcome

To provide knowledge and skills to the students that shall enable him to practice as a clinical and as a primary eye care physician and also to function effectively as a community health leader to assist in the implementation of National program for blindness and rehabilitation of the visually impaired.

Program Specific Outcome

1. Knowledge of common eye problems in the community.
2. Recognize, diagnose and manage common eye problems and identify indications for referral.
3. Ability to recognize visual impairment and blindness in the community and implement National program as applicable in primary care setting.

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DEPARTMENT OF OPHTHALMOLOGY

Alignment of Program Specific Outcomes (PSOs) with Indian Medical Graduate (IMG) Attributes

REFINED PSO STATEMENT- DEPARTMENT OF OPHTHALMOLOGY

UNDER GRADUATES

PSO1 - Knowledge of common conditions causing visual impairment in the community

PSO2 - Ability to diagnose ocular emergencies and their need for referral

PSO3 - To work as a team in treating common eye disease and in implementing national program as applicable in primary care setting

PSO4 - Communicate effectively to patients about blindness and its prevention

PSO5 - To develop lifelong learning attitude by acquiring and upgrading existing skills in common eye disease

INDIAN MEDICAL GRADUATE GOALS

Clinician

Professional

Leadership

Communicator

Lifelong learner

IMG ATTRIBUTES MAPPED WITH PSOs

Clinician – PSO1, PSO 2

Professional - PSO1, PSO 2

Leadership - PSO3

Communicator - PSO4

Lifelong learner - PSO5

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UNDER GRADUATES

REFINED PROGRAM SPECIFIC OUTCOMES

1. **PSO1 -** Knowledge of common conditions causing visual impairment in the community
2. **PSO2** - Ability to diagnose ocular emergencies and their need for referral
3. **PSO3** - To work as a team in treating common eye disease and in implementing national program as applicable in primary care setting
4. **PSO4** - Communicate effectively to patients about blindness and its prevention
5. **PSO5** - To develop lifelong learning attitude by acquiring and upgrading existing skills in common eye disease

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POST GRADUATES

1. The student should possess basic knowledge of the structure, function and development of the human body as related to ophthalmology, of the factors which may disturb these mechanisms and the disorders of structure and function which may result thereafter.

2. The student should be able to practice and handle most day-to-day problems independently in ophthalmology. The student should recognize the limitations of his/her own clinical knowledge and know when to seek further help.

3. The student should understand the effects of environment on health and be familiar with the epidemiology of at least the more common diseases in the field of ophthalmology.

4. The student should be able to integrate the preventive methods with the curative and rehabilitative measures in the comprehensive management of the disease.

5. The student should be familiar with common eye problems occurring in rural areas and be able to deal with them effectively.

6. The student should also be made aware of Mobile Ophthalmic Unit and its working and components.

7. The student should be familiar with the current developments in Ophthalmic Sciences.

8. The student should be able to plan educational programmes in Ophthalmology in association with senior colleagues and be familiar with the modern methods of teaching and evaluation.

9. The student should be able to identify a problem for research, plan a rational approach to its solution, execute it and critically evaluate his/her data in the light of existing knowledge.

10. The student should reach the conclusions by logical deduction and should be able to assess evidence both as to its reliability and its relevance.

11. The student should have basic knowledge of medico-legal aspects of medicine.

12. The student should be familiar with patient counseling and proper consent taking.

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PEOs are the broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

Programe Educational Objectives (PEOs)

Program Educational Objectives (PEOs)

PEO 1 – Acquisition and transfer of clinical knowledge, skills and professionalism to undergraduates and post graduates students for better quality care.

PEO 2 – Acquire, conduct, interpret, publish and translate knowledge and skills relevant in improving the field of Ophthalmology.

PEO 3 – Coordinate, communicate and collaborate with national and international networks to update and disseminate information related to human well being

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DEPARTMENT OF OPHTHALMOLOGY

Alignment of competencies Program Specific Outcomes

PSO	PSO statements	Competencies Mapping
PSO1	Knowledge of common conditions causing visual impairement in the community	**OP** 1.(1-5), **OP** 2.(1,2,4-8), **OP** 3.(1-7), **OP** 4.(1-7,9), **OP** 5.(1,2), **OP** 6. (1-9), **OP** 7.(1,2,4), **OP** 8.(1,2,4,5), **OP** 9.(2,3)
PSO2	Ability to diagnose ocular emergencies and their need for referral	**OP** 1.3, **OP** 2.(1-8), **OP** 3.(1,2,8,9), **OP** 4.(1,3), **OP** 5.2, **OP** 6.(6,7), **OP** 7.3, **OP** 8.3, **OP** 9.(1-3)
PSO3	To work as a team in treating common eye disease and in implementing national programme as applicable in primary care setting	**OP** 2.3, **OP** 3.(1-9), **OP** 4. 8, **OP** 7.5
PSO4	Communicate effectively to patients about blindness and its prevention	**OP** 1.(2,5), **OP** 2.(4-8), **OP** 4.(1-6,9,10), **OP** 6.10, **OP** 7.6, **OP** 8.(2,4), **OP** 9.(4,5)
PSO5	To develop lifelong learning attitude by aquiring and upgrading existing skills in common eye disease	**OP** 1.4, **OP** 4.6, **OP** 6.8, **OP** 7.4, **OP** 8.(2,4)

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MAPPING REPORT

Topic – **Refractive error, Lids, Lacrimal Apparatus**

Exam date: 01.04.2022 – Internal Assessment Exam –I

Com No	Average LOA	Attainment	Action Plan
OP 1.1	2	Attained	
OP 1.2	3	Attained	
OP 1.4	1	Not attained	Assignment to be given
OP 1.5	1	Not attained	Small group discussion
OP2.1	2	Attained	

Topic – **Conjunctiva, Cornea, Orbit**

Exam date: 06.05.2022 – Internal Assessment Exam II

Com No	Average LOA	Attainment	Action Plan
OP 2.4	2	Attained	
OP 2.5	2	Attained	
OP 2.6	2	Attained	
OP 3.3	2	Attained	
OP 3.5	2	Attained	
OP 3.6	2	Attained	
OP 4.2	2	Attained	
OP 4.3	2	Attained	
OP 2.1	1	Not Attained	Assignment to be given
OP 3.4	1	Not Attained	Assignment to be given

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OP 4.1	0	Not Attained	Small group discussion
OP 2.7	-	Not tested	Will be addressed in revision exam
OP 2.8	-	Not tested	Will be addressed in revision exam
OP 3.7	-	Not tested	Will be addressed in revision exam
OP 4.4	-	Not tested	Will be addressed in revision exam
OP 4.5	-	Not tested	Will be addressed in revision exam
OP 4.6	-	Not tested	Will be addressed in revision exam
OP 4.7	-	Not tested	Will be addressed in revision exam

Topic – **Lens, Sclera, Uvea, Glaucoma**

Exam date: 05.08.2022 – Internal Assessment Exam III

Com No	**Average LOA**	**Attainment**	**Action Plan**
OP 5.1	2	Attained	
OP 5.2	2	Attained	
OP 6.5	2	Attained	
OP 6.6	2	Attained	
OP 6.7	2	Attained	
OP 6.9	2	Attained	
OP 6.10	2	Attained	
OP 7.1	2	Attained	
OP 7.2	2	Attained	
OP 6.1	0	Not Attained	Assignment to be given
OP 6.2	1	Not Attained	Small group discussion
OP 7.4	1	Not Attained	Small group discussion
OP 6.3	-	Not tested	Will be addressed in revision exam
OP 6.8	-	Not tested	Will be addressed in revision exam

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Topic – **Whole Portions**

Exam date: 21.12.2022 – Model examination

Com No	Average LOA	Attainment	Action Plan
OP 3.2	3	Attained	
OP 4.1	1	Not Attained	Small group discussion
OP 1.2	1	Not Attained	Assignment to be given
OP 3.3	3	Attained	
OP 4.6	1	Not Attained	Small group discussion
OP 1.2	3	Attained	
OP 3.7	2	Attained	
OP 4.9	2	Attained	
OP 4.2	2	Attained	
OP 2.1	3	Attained	
OP 2.6	3	Attained	
OP 2.4	0	Not Attained	Small group discussion
OP 2.5	3	Attained	
OP 3.6	3	Attained	
OP 3.4	3	Attained	

Calculation of Initial PSO attainment

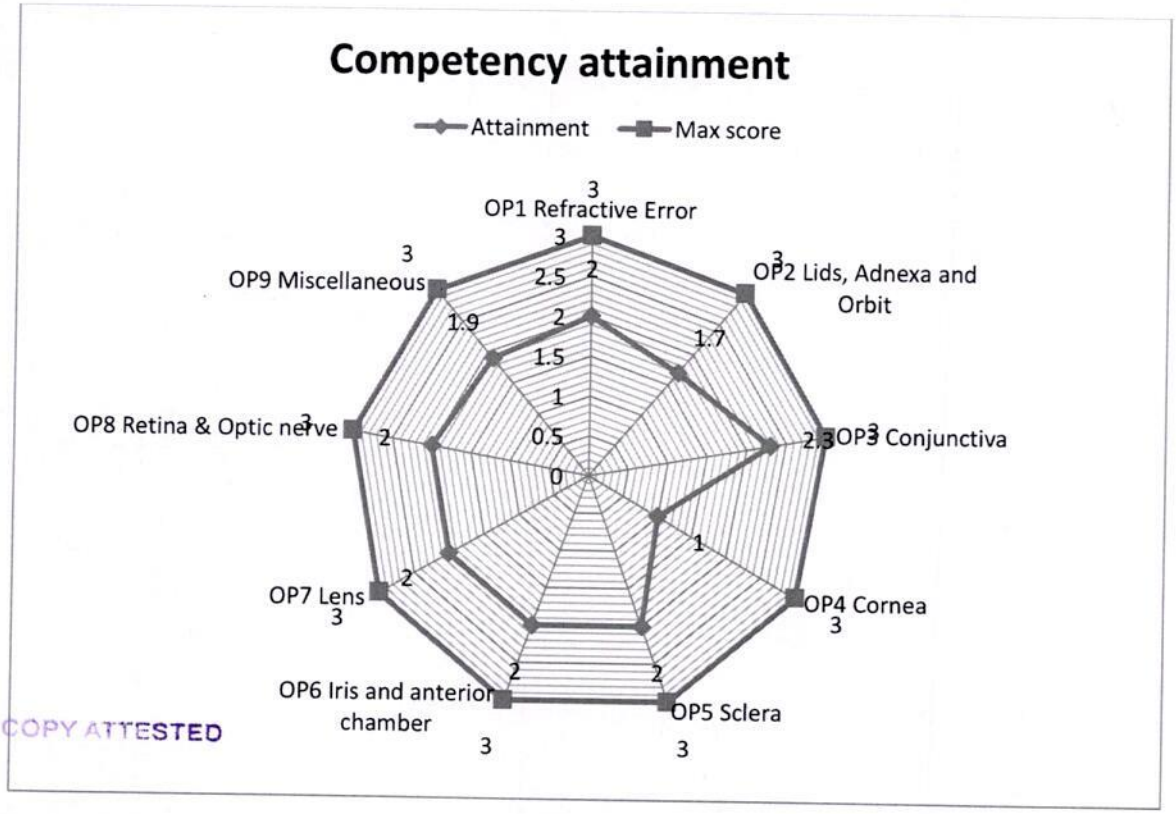
PSO	*Average score*
PSO1	1.8
PSO2	1.9
PSO3	2.3
PSO4	1.7
PSO5	1.5

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Calculation of Competency attainment

Competency no	Topic	Attainment	Max score
OP1	Refractive Error	2	3
OP2	Lids, Adnexa and Orbit	1.7	3
OP3	Conjunctiva	2.3	3
OP4	Cornea	1	3
OP5	Sclera	2	3
OP6	Iris and anterior chamber	2	3
OP7	Lens	2	3
OP8	Retina & Optic nerve	2	3
OP9	Miscellaneous	1.9	3

Competency attainment by 2019 – 24 Batch



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DEPARTMENT OF OPHTHALMOLOGY

Academic Year 2021-22

Final Mapping – Overall Attainment

MBBS Phase – III Part – 1 (2019 – 2025 Batch)

Course	PSOs	PSO Average	UNIV Result				Direct Final Attainment	Indirect Assessment	Final Assessment
			Pass percentage	Average score obtained	Average score obtained		80% PSO+20% Univ result	Course exit survey	90% DA+ 10%IDA
Ophthalmology	PSO1	1.8	90	3	63	2	1.94	2	1.946
	PSO2	1.9	90	3	63	2	2.02	2	2.018
	PSO3	2.3	90	3	63	2	2.34	2	2.306
	PSO4	1.7	90	3	63	2	1.86	2	1.874
	PSO5	2	90	3	63	2	2.1	2	2.09

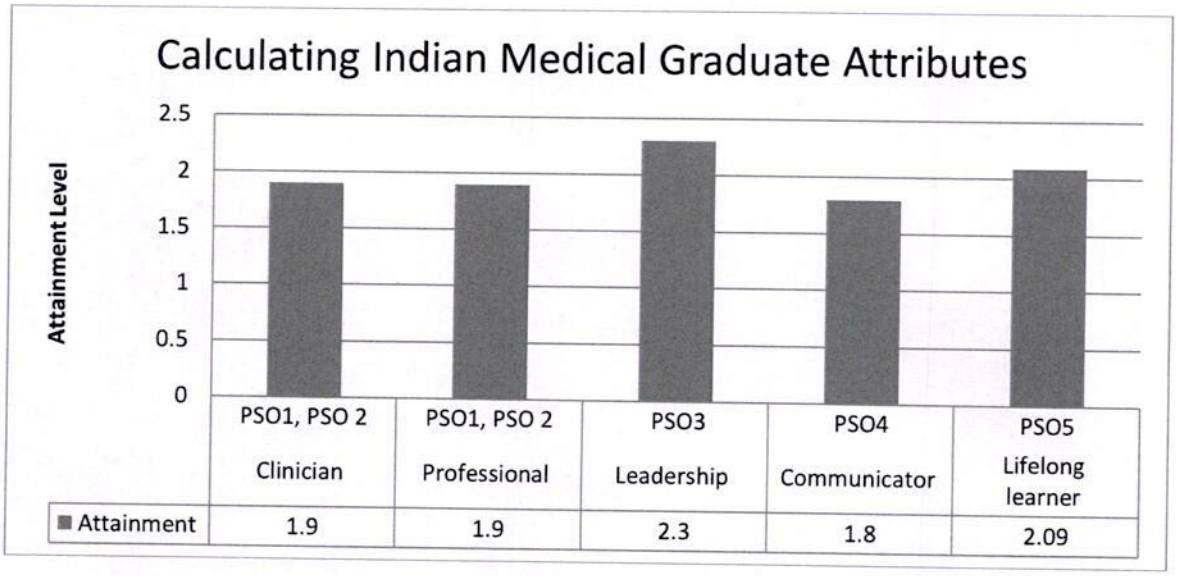
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DEAN
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KALITHEERTHALKUPPAM
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CALCULATING INDIAN MEDICAL GRADUATE ATTRIBUTES

IMG Attributes	PSOs	Attainment
Clinician	PSO1, PSO 2	1.9
Professional	PSO1, PSO 2	1.9
Leadership	PSO3	2.3
Communicator	PSO4	1.8
Lifelong learner	PSO5	2.09



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Medical College and Hospital

DEPARTMENT OF GENERAL MEDICINE
2018-23 BATCH MAPPING REPORT

Course	Program Specific Outcome	Assessment tools	IA	Attainment Value	University	Attainment Value	Pract	Attainment Value	Average Attainment	Target	Attanine /Not attained
General Medicine	PSO1	Summative and formative assessment	74	3	93	3	93	3	3	2	Attained
	PSO2	Summative and formative assessment	78	3	93	3	93	3	3	2	Attained
	PSO3	Summative and formative assessment	76	3	93	3	93	3	3	2	Attained
	PSO4	Summative and formative assessment	74	3	93	3	93	3	3	2	Attained
	PSO5	Summative and formative assessment	49	1	93	3	93	3	2.6	2	Attained
	PSO6	Summative and formative assessment	73	3	93	3	93	3	3	2	Attained
	PSO7	Summative and formative assessment	85	3	93	3	93	3	3	2	Attained
	PSO8	Summative and formative assessment	53	2	93	3	93	3	2.8	2	Attained

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DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

Mapping Report (2018- 23 batch)

2.6 Mapping and attainment calculation of Program specific Outcomes (PSO's)

Course	Course outcomes	CO statements	Blooms taxonomy	Assessment tools	IA	Level of attainment	University	Level of attainment	Practical	Level of attainment		Target	Attained/ Not attained
OG	PSO1	Provide peri□conceptional counseling and antenatal care	Apply	Summative and formative assessment	51	2	87	3	50	2	2.4	2	Attained
	PSO2	Identify high□risk pregnancies and refer appropriately	Apply		56	2	87	3	50	2	2.4	2	Attained
	PSO3	Conduct normal deliveries, using safe delivery practices in the primary and secondary care settings	Apply		51	2	87	3	50	2	2.4	2	Attained
	PSO4	Prescribe drugs safely and appropriately in pregnancy and lactation	Apply		47	1	87	3	50	2	2.1	2	Not attained
	PSO5	Diagnose complications of labor, institute primary care and refer in a timely manner	Apply		51	2	87	3	50	2	2.4	2	Attained
	PSO6	Perform early neonatal resuscitation	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO7	Provide postnatal care, including education in breast□feeding	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO8	Counsel and support couples in the correct choice of contraception	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO9	Interpret test results of laboratory and radiological investigations as they apply to the care of the obstetric patient	Analyze		51	2	87	3	50	2	2.4	2	Attained
	PSO10	Apply medico□legal principles as they apply to tubectomy, Medical Termination of Pregnancy (MTP) and Pre□conception and Prenatal Diagnostic Techniques (PC PNDT Act).	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO11	Elicit a gynecologic history perform appropriate physical, pelvic examination and PAP smear in the primary care setting	Apply		52	2	87	3	50	2	2.4	2	Attained
	PSO12	Recognize diagnose and manage common reproductive tract infections in the primary care setting	Apply		56	2	87	3	50	2	2.4	2	Attained
	PSO13	Recognize and diagnose common genital cancers and refer them appropriately.	Apply		51	2	87	3	50	2	2.4	2	Attained

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