

MGM SCHOOL OF BIOMEDICAL SCIENCES (A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES)

(Deemed University u/s 3 of UGC Act 1956) Grade "A" Accredited by NAAC Sector 1, Kamothe Navi Mumbai-410209, Tel.No.:022-27437631, 27437632,27432890 Email. <u>sbsnm@mgmuhs.com</u>/Website : www.mgmsbsnm.edu.in

CHOICE BASED CREDIT SYSTEM (CBCS)

(Academic Year 2024 - 25)

Curriculum for

B.Sc. Allied Health Sciences

B. Optometry

Semester I to VIII

Curriculum for B. Optometry

			C	DUTLINE	OF COURS	E CURR	ICULUN	N							
					B.Optom	etry									
					Semeste	er I									
		Credits/Week					Hrs/Semester						Marks		
Code No.	Core Course	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Intern al Asse ment (IA)	Semeste r End Exam (SEE)	Total	
					Theory	y			~						
BOPTOM 101 L	Human Anatomy Part I	2	-		-	2	30	-	1.0	-	30	10	40	50	
BOPTOM 102 L	Human Physiology Part I	2	-	21	-	2	30	-	122	12	30	10	40	50	
BOPTOM103 L	General Biochemistry & Nutrition	3	-	-	÷	3	45	-	-	-	45	10	40	50	
BOPTOM 104 L	Introduction to National Health Care System	2	-	-	÷	2	30	-		1.5	30	10	<mark>4</mark> 0	50	
BOPTOM 101 P	Human Anatomy Part I	_	_	1	-	21		2	15	1	15		_		
BOPTOM 102 P	Human Physiology Part I	-	-	1	- 1	-	-	-	15		15	-	-	-	
BOPTOM 103 P	General Biochemistry Nutrition	-	-	1	-	-	-	-	15	-	15	-	-	-	
BOPTOM 105 P	Community Engagement & Clinical Visit (Including related practicals to the Parent course)	-	-	-	24	8	-	-	-	360	360	-	50	50	
				A	bility Enhancen	ient Cour	se	<u> </u>		1.5 25					
AEC 001 L	English & Communication skills	4	-	-		4	60	-	122	12	60	10	40	50	
AEC 002 L	Envioronmental Sciences	4	-	-	-	4	60	-	-	-	60	10	40	50	
	Total	17	0	3	24	25	255	0	45	360	660	60	290	350	

				COTL	NE OF COURS			•						
					B.Optom	·								
				0 14	Semeste	r II							M I	
		Credits/Week						-	Hrs/Sem	Marks				
Code No.	Core Course	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Asseme nt (IA)	Semester End Exam (SEE)	Tota
					Theory	y								
BOPTOM 106 L	Human Anatomy Part II	2	5		1.07	2	30	-	1.05		30	10	40	50
BOPTOM 107 L	Human Physiology Part II	2	<u>11</u>	1-	-	2	30	-	121	2	30	10	40	50
BOPTOM 108 L	General Microbiology	3	-			3	45	-	-	Ξ.	45	10	40	50
BOPTOM 109 L	Basic Pathology & Hematology	4	-	-	10.00	4	60	-	-	-	60	10	40	50
BOPTOM 110 L	Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary)	3	÷	-	-	3	45	-	-	-	45	10	40	50
	a distance in the conservation of a stratight block and a second second second second second second second seco			22 2	Practic	al		5 32				101		
BOPTOM 106 P	Human Anatomy Part II		-	1	-		-		15	÷	15	-	-	
BOPTOM 107 P	Human Physiology Part II	1.71		1			100		15	-	15	-	-	100
BOPTOM 108 P	General Microbiology		-	1	-	-	-	-	15	-	15	-	-	124
BOPTOM 109 P	Basic Pathology & Hematology	-	-	1			-		15	-	15	-	-	1.51
BOPTOM 111 P	Community Engagement & Clinical Visit (Including related practicals to the Parent course)	-	÷	-	24	8	-		-	360	360	-	50	<mark>5</mark> 0
	an a	6 20		Sk	ill Enhancement H	lective C	ourse			5 20			20 - 10 -	
SEC 001 L	Medical Bioethics & IPR						1000			8				
SEC 002 L	Human Rights & Professional Values	3	-	-		3	45	-	-	-	45	10	40	50
	Total	17	0	4	24	25	255	0	60	360	675	60	290	350

B. Optometry

MGM Institute of Health Sciences

			OUTL	INE OF		SE CUF	RICUL	LUM						
-					B.Opto									
					Semest	er III			10					
Code No.	Core Course	Lecture (L)		Credits/W Practical (P)	Clinical Posing/ Rotation	Total Credits (C)	Lecture (L)		s/Semeste Practical (P)	Clinical Posing/ Rotation	Total (hrs.)	Internal Assement (IA)	Marks Semester End Exam (SEE)	Total
8					(CP) Theo					(CP)				
BOPTOM 112 L	Physical Optics	2	-	-	-	2	30	-	-	-	30	20	80	100
	Geometrical Optics	2	-	-	-	2	30	-	-	-	30	20	80	100
BOPTOM 114 L	Visual Optics I/II	2	~~	12	12	2	30	12	10	12	30	20	80	100
BOPTOM 115 L	Ocular Diseases I	2		-	-	2	30	-	-		30	20	80	100
BOPTOM 116 L	Clinical Examinations and Visual Systems	2	-	11	-	2	30	-	-	-	30	20	80	100
BOPTOM 117 CP	OPTOM Directed Clinical Education- I		-	5 <u>1</u>	18	6	12	-	1	270	270	12	50	50
		5 · · · ·			Practi	ical	108	5.A			3		558 ×	0
BOPTOM 112 P	Physical Optics	-	-	2	-	1	2	-	30	Ŧ	30	10	40	50
BOPTOM 113 P	Geometrical Optics	-	-	2	-	1	-	-	30	-	30	10	40	50
BOPTOM 114 P	Visual Optics I/II	-	-	2	-	1	-	-	30		30	10	40	50
BOPTOM 116 P	Clinical Examinations and Visual Systems	-	-	4	-	2	-	-	60	-	60	10	40	50
				Ger	neric Elec	tive Course	e				8 8			
GEC 001 L	Pursuit of Inner Self Excellence (POIS)	3				3	45				45	10	40	50
GEC 002 L	Organisational Behaviour	2	-	1	-	3	43	-		5	45	10	40	50
	Total	13	0	10	18	24	195	0	150	270	615	150	650	800

			OUT	LINE O	F COUR	SE CUR	RICULU	M						
					B.Opto	metry								
					Semest	er IV								
	Core Course	Credits/Week						Hrs	Semeste	r			Marks	
Code No.		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	Semester End Exam (SEE)	Tota
6	,				Theo	ry								
BOPTOM 118 L	Optometric Optics I & II	3	F	-	-	3	45	-	-	-	45	20	80	100
BOPTOM 119 L	Ocular Diseases II & Glaucoma	3	F	-	-	3	45	-	-	-	45	<mark>20</mark>	80	100
BOPTOM 120 L	Dispensing Optics	3	-			3	45	- 1	-	-	45	20	80	100
BOPTOM 121 L	Optometric Instrumentation	3	21	-	-	3	45	20	20	<u>_</u>	45	20	80	100
BOPTOM 122 L	Basic & Occular Pharmacology	2	ā.			2	30	-	5	Ē	30	20	80	100
BOPTOM 123 CP	OPTOM Directed Clinical Education-II	-	e .	-	18	6	-	-	-	270	270	-	50	50
					Practi	ical								
BOPTOM 118 P	Optometric Optics I & II	-	-	2	-	1	-	-	30	-	30	10	40	50
BOPTOM 120 P	Dispensing Optics	-	-	2		1			30	-	30	10	40	50
BOPTOM 121 P	Optometric Instrumentation	÷	<u> </u>	2	-	1	- 1		30		30	10	40	50
			A	Ability Enh	ancemen	t Elective	Course							-
AEC 003 L	Computer and Applications	2					15				15	10	40	50
AEC 004 L	Good Clincal Laboratory Practice and Research Skills	3	3	-	-	3	45		ā 1	ā (45	10	40	50
	Total	17	0	6	18	26	255	0	90	270	615	140	610	750

					BO	otometry								
2						ester V								
s.		Credits/Week						Hrs	Semester	Marks				
Code No.	Core Course	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	Semester End Exam (SEE)	
					Т	heory								
BOPTOM 124 L	Contact Lenses I	4	-	-		4	60	-	1.7	-	60	20	80	100
BOPTOM 125 L	Binocular Vision I & II	3	-		(-)	3	45	-		-	45	20	80	100
BOPTOM 126 L	Low Vision Aids	2		-	-	2	30	-	123	(=3)	30	20	80	100
BOPTOM 127 L	Systemic Disease	3	12	1 <u>2</u> 1	2 <u>1</u>	3	45	-	720	120	45	20	80	100
BOPTOM 128 CP	OPTOM Directed Clinical Education-III		-	-	21	7	5.71	-	5.54	315	315	-	50	50
	,				Pı	actical								
BOPTOM 124 P	Contact Lenses I	-	-	2	-	1	-	-	30	-	30	10	40	50
BOPTOM 125 P	Binocular Vision I & II	-	-	2	-	1	-	-	30	-	30	10	40	50
				L	Discipline S	Specific El	ective							
DSE 001 L	Basics of Clinical Skill Learning										0.5		28	
DSE 002 L	Hospital Operation Management	3	-	-	-	3	45	-	-		45	10	40	50
	Total	15	0	4	21	24	225	0	60	315	600	110	490	600

					B.Opt	ometry								
		50 C				ster VI								
		Credits/Week						Hrs/Semester					Marks	
Code No.	Core Course	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	Semester End Exam (SEE)	Total
					The	eory						- 		
BOPTOM 129 L	Contact Lenses II	2	-	-	-	2	30	-	-		30	20	80	100
BOPTOM 130 L	Sports Vision	2	-	-	-	2	30	-			30	20	80	100
BOPTOM 131 L	Pediatric & Geriatric Optometry	2	-		-	2	30				30	20	80	100
BOPTOM 132 L	Occupational Optometry	2				2	30	8 - 1		6 - 8	30	20	80	100
BOPTOM 133 CP	OPTOM Directed Clinical Education-IV	-	- 1	-	27	9	-	-	-	405	405	-	50	50
					Pra	ctical								
BOPTOM 129 P	Contact Lenses II	5-3	-	2	-	1	-	() - (30	(- (30	10	40	50
BOPTOM 131 P	Pediatric & Geriatric Optometry		- 1	2	-	2	-		60	-	60	10	40	50
	Total	8	0	4	27	20	120	0	90	405	615	100	450	550

		OU	TLINE OF CO	OURSE CURF	RICULUM			
			B.C	Optometry				
			Semest	er VII & VII	I			
		Cr	edits]	Marks			
Code No.	Core Course	Clinical Posing/ Rotation (CP)	Total Credits (C)	Internal Assement (IA)	Semester End Exam (SEE)	Total		
BOPTOM 134	B.Optometry Internship (Semester VII)	20	20	20	80	100		
BOPTOM 135	B.Optometry Internship (Semester VIII)	20	20	20	80	100		

Internship is for 12 months (July-December; January-June) after deducting for national holidays/Sick Holidays/ sundays + Examination), (6 days/ week ;8 Hours/day). Minimum of 21 weeks/semester. Students are encouraged to involve in community outreach activities as part of their clinical postings without absenting himself/herself for the other regular classes. During Internship a candidate must have 100% attendance before the award of the degree. NOC from the Dean/Director, MGMSBS to be made mandatory while applying for Convocation Degree.

(IA) for Seme	Internal Assessment Exam Pattern (IA) for Semester VII & VIII (Internship Program)		of University S amination (SE VII & VIII (In Program)	E) for	Attendance (10 m student. It was d weightage be given t per following	lecided that o attendance as
and the second se	pattern: Total 20 llowing breakup		exam pattern: ith following b	and the second second second second	Attendance Percentage	Marks
Description	Marks	Exercise	Description	Marks	< 75	Zero
Internal exam (at department)	10 marks	Q No 1	Case Study	2 x15=30 M	75	5
Viva	5 marks	Q No 2	Station exercise	3 x 5=15 M	76-80	6
Log Book	5 marks	Q No 3	VIVA	15 M	81-85	7
Total =	Total = 20 Marks		Log Book	10 M	86-90	8
		QNo 5	Attendance	10 M	91-95	9
	Т	otal = 80 Marks		96-100	10	



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