MGM Institute of Health Sciences



Annexure-4 D

## 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 2018 - 19)

**Curriculum for** 

**B.Sc. Allied Health Sciences** 

**B.** Optometry

		0	DUTLIN	IE OF CO	DURSE	CURR							
				<b>B.</b> C	Optome	try							
				Se	mester	I							
			Cre	dits/Week				Hrs/Seme	ster			Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Total Cr (C)	edits L	ecture Tu (L)	torial P1 (T)	actical (P)	Total hrs	Internal Assessmen	Semester t Exam	Tota
					Theory								
SOPTOM 101 L	Human Anatomy Part I	3	-	-	3		45	-	-	45	20	80	10
BOPTOM 102 L	Human Physiology Part I	3	-	-	3		45	-	-	45	20	80	10
SOPTOM 103 L	General Biochemistry Nutrition	3	1	-	4		45	15	-	60	20	80	10
30PTOM 104 L	Introduction to National Health Care System (Multidisciplinary/ Interdisciplinary)	3	-	-	3		45	-	-	45	20	80	10
				]	Practical								
BOPTOM 101 P	Human Anatomy Part I	-	-	4	-		-	-	60	60	-	-	-
BOPTOM 102 P	Human Physiology Part I	-	-	4	-		-	-	60	60	-	-	-
BOPTOM 103 P	General Biochemistry	-	-	4	-		-	-	60	60	-	-	-
BOPTOM 105 P	Community Orientation & Clinical Visit (Including related practicals to the Parent course)	-	-	8	-		-	-	120	120	-	-	-
	• •		Abilit	ty Enhance	ement E	lective (	Course						
AEC 001 L	English & Communication skills	2					15				100		10
AEC 002 L	Envioronmental Sciences	3	-	-	3		45	-	-	45	100	-	10
	Total	15	1	20	16		225	15	300	540	180	320	50
		•		<b>B.</b> C	) Detome mester	try	ICULUN						
	1	I	Cuadit	s/Week	mester		Una	Semester				Marks	
			Creat		Total								
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Credits (C)	Lecture (L)	Tutorial (T)	Practica (P)	I Tot	al hrs.	Internal Assessment	Semester Exam	Total
	•				Theory								
BOPTOM 106 L	Human Anatomy Part II	2	-	-	2	30	-	-		30	10	40	50
BOPTOM 107 L	Human Physiology Part II	2	-	-	2	30	-	-		30	10	40	50
BOPTOM 108 L	General Microbiology	3	-	-	3	45	-	-		45	20	80	100
BOPTOM 109 L	Basic Pathology & Hematology Introduction to Quality and Patient	3	1	-	4	45	15	-		60	20	80	100
BOPTOM 110 L	safety (Multidisciplinary/Interdisciplinary)	3	-	-	3	45	-	-		45	20	80	100
				J	Practical								
	Human Anatomy Part II	-	-	4	-	-	-	60		60	-	-	-
BOPTOM 106 P	Human Physiology Part II	-	-	2	-	-	-	30		30	-	-	-
BOPTOM 107 P			-	4	-	-	-	60		60	-	-	-
BOPTOM 107 P	General Microbiology	-			1		-	60		60			-
BOPTOM 107 P BOPTOM 108 P	General Microbiology Basic Pathology & Hematology	-	-	4	-	-					-	-	
80PTOM 107 P 80PTOM 108 P 80PTOM 109 P	General Microbiology	-	-	4	-	-	-	120	1	120	-	-	-
	General Microbiology Basic Pathology & Hematology Community Orientation & Clinical Visit (Including related practicals to	-			- - ment Ele		- ourse		:		-	-	-
BOPTOM 107 P BOPTOM 108 P BOPTOM 109 P	General Microbiology Basic Pathology & Hematology Community Orientation & Clinical Visit (Including related practicals to	-		8	- - ment El 3		- ourse -				- 100	-	- 100

			OU	TLINE C	F COUI	RSE CU	IRRICU	LUM						
	<b>B.Optometry</b>													
	Semester III													
			C	redits/Weel	s			Hr	s/Semester				Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.	Internal Assessme nt	Semester Exam	Total
	Theory													
BOPTOM 112 L	Physical Optics	3	-	-	-	3	45	-	-	-	45	20	80	100
BOPTOM 113 L	Geometrical Optics	3	-	-	-	3	45	-	-	-	45	20	80	100
BOPTOM 114 L	Visual Optics I/II	4	-	-	-	4	60	-	-	-	60	20	80	100
BOPTOM 115 L	Ocular diseases I	4	-	-	-	4	60	-	-	-	60	20	80	100
BOPTOM 116 L	Clinical Examinations and Visual systems	2	-	-	-	2	30	-	-	-	30	20	80	100
	•				Prac	tical								
BOPTOM 112 P	Physical Optics	-	-	4	-	2	-	-	60	-	60	10	40	50
BOPTOM 113 P	Geometrical Optics	-	-	4	-	2	-	-	60	-	60	50	-	50
BOPTOM 114 P	Visual Optics I/II	-	-	4	-	2	-	-	60	-	60	50	-	50
BOPTOM 116 P	Clinical Examinations and Visual systems	-	-	4	-	2	-	-	60	-	60	10	40	50
				Ge	neric Ele	ctive Co	urse							
GEC 001 L	Pursuit of Inner Self Excellence (POIS)	3	-	-	-	3	45	-	-	-	45	100	-	100
GEC 002 L	Organisational Behaviour													
	Total	19	0	16	0	27	285	0	240	0	525	320	480	800

			OUT	LINE OI	F COUR	SE CU	RRICUL	UM						
					B.Opto	metry								
					Semest	er IV								
				Credits/We	ek			Hr	s/Semester			Marks		
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing /Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.	Internal Assessment	Semester Exam	Total
					Theo	ry								
BOPTOM 117 L	Optometric Optics I & II	4	-	-	-	4	60	-	-	-	60	20	80	100
BOPTOM 118 L	Ocular diseases II & Glaucoma	3	-	-	-	3	45	-	-	-	45	20	80	100
BOPTOM 119 L	Dispensing optics	3	0	-	-	3	45	-	-	-	45	20	80	100
BOPTOM 120 L	Optometric Instrumentation	3	-	-	-	3	45	-	-	-	45	20	80	100
BOPTOM 121 L	Basic & Occular Pharmacology	2	-	-	-	2	30	-	-	-	30	20	80	100
BOPTOM 122 CP	BOPTOM Directed Clinical Education- I	-	-	-	15	5	-	-	-	225	225	50	-	50
	•				Practi	cal								
BOPTOM 117 P	Optometric Optics I & II	-	-	6	-	3	-	-	90	-	90	10	40	50
BOPTOM 119 P	Dispensing optics	-	-	6	-	3	-	-	90	-	90	10	40	50
BOPTOM 120 P	Optometric Instrumentation	-	-	2	-	-	-	-	30	-	30	-	-	-
			A	bility Enh	ancemen	t Electiv	ve Course	•						
AEC 003 L	Computer and Applications	3				3	45		-	-	45	100		100
AEC 004 L	Biostatistics and Research Methodology	,	-	-	-	3	40	-					-	100
	Total	18	0	14	15	29	270	0	210	225	705	270	480	750

			οι	JTLINE	OF COU	RSE C	URRIC	ULUM							
					B.Opt	ometr	y								
					Seme	ester V									
		Credits/Week							Hrs/Semes	ter			Marks		
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.	Internal Assessment	Semester Exam	Total	
					Th	eory									
BOPTOM 123 L	Contact Lenses I	3	-	-	-	3	45	-	-	-	45	20	80	100	
BOPTOM 124 L	Binocular Vision I&II	4	-	-	-	4	60	-	-	-	60	20	80	100	
BOPTOM 125 L	Low Vision Aids	2	-	-	-	2	30	-	-	-	30	20	80	100	
BOPTOM 126 L	Systemic Disease	3	-	-	-	3	45	-	-	-	45	20	80	100	
BOPTOM 127 CP	BOPTOM Directed Clinical Education-II	-	-	-	27	9	-	-	-	405	405	50	-	50	
					Pra	ctical									
BOPTOM 123 P	Contact Lenses I	-	-	2		1	-	-	30	-	30	10	40	50	
BOPTOM 124 P	Binocular Vision I&II	-	-	2		1	-	-	30	-	30	10	40	50	
					Core Elec	tive Co	urse								
CEC 005 L	Basics of Clinical Skill Learning Hospital Operation Management	- 3	-	-	-	3	45	-	-	-	45	100	-	100	
	Total	15	0	4	27	26	225	0	60	405	690	250	400	650	

			0	JTLINE	OF COL	JRSE C	URRICU	JLUM						
					B.Op	tometr	у							
					Seme	ester V	I							
			С	redits/Weel	s			H	irs/Semeste		Marks			
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.	Internal Assessment	Semester Exam	Total
					Th	ieory								
BOPTOM 128 L	Contact Lenses II	2	-	-	-	2	30	-	-	-	30	20	80	100
BOPTOM 129 L	Sports Vision	2	-	-	-	2	30	-	-	-	30	20	80	100
BOPTOM 130 L	Pediatric and Geriatric Optometry	2	-	-	-	2	30	-	-	-	30	20	80	100
BOPTOM 131 L	Occupational Optometry	2	-	-	-	2	30	-	-	-	30	20	80	100
BOPTOM 132 CP	BOPTOM Directed Clinical Education-III	-	-	-	36	12	-	-	-	540	540	50	-	50
					Pra	ctical								
BOPTOM 128 P	Contact Lenses II	-	-	2	-	1	-	-	30	-	30	10	40	50
BOPTOM 130 P	Pediatric and Geriatric Optometry	-	-	2	-	1	-	-	30	-	30	10	40	50
	Total	8	0	4	36	22	120	0	60	540	720	150	400	550

	OUTLINE OF COURSE CURRICULUM													
	B.Optometry (Internship)													
	Semester VII & Semester VIII													
	Core Subjects		Credi	ts/Week		Hrs/Semester								
Code No.		Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.				
	Sem VII (Internship)	-	-	-	720	-	-	-	720	720				
	Sem VIII (Internship)				720				720	720				
	Total	0	0	0	1440	0	0	0	1440	1440				