



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. sbsnm@mgmuhs.com/Website : www.mgmsbsnm.edu.in

CHOICE BASED CREDIT SYSTEM (CBCS)

(Academic Year 2024 - 25)

Curriculum for

B.Sc. Allied Health Sciences

B.Sc. Operation Theater & Anesthesia Technology

Semester I to VIII

OUTLINE OF COURSE CURRICULUM														
B.Sc. Operation Theatre and Anaesthesia Technology														
Semester I														
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		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)	Total
Theory														
BATOT 101 L	Human Anatomy Part I	2	-	-	-	2	30	-	-	-	30	10	40	50
BATOT 102 L	Human Physiology Part I	2	-	-	-	2	30	-	-	-	30	10	40	50
BATOT 103 L	General Biochemistry & Nutrition	3	-	-	-	3	45	-	-	-	45	10	40	50
BATOT 104 L	Introduction to National Health Care System	2	-	-	-	2	30	-	-	-	30	10	40	50
Practical														
BATOT 101 P	Human Anatomy Part I	-	-	1	-	-	-	-	15	-	15	-	-	-
BATOT 102 P	Human Physiology Part I	-	-	1	-	-	-	-	15	-	15	-	-	-
BATOT 103 P	General Biochemistry Nutrition	-	-	1	-	-	-	-	15	-	15	-	-	-
BATOT 105 P	Community Engagement & Clinical Visit (Including related practicals to the Parent course)	-	-	-	24	8	-	-	-	360	360	-	50	50
Ability Enhancement Course														
AEC 001 L	English & Communication skills	4	-	-	-	4	60	-	-	-	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

OUTLINE OF COURSE CURRICULUM														
B.Sc. Operation Theatre and Anaesthesia Technology														
Semester II														
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		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
Theory														
BATOT 106 L	Human Anatomy Part II	2	-	-	-	2	30	-	-	-	30	10	40	50
BATOT 107 L	Human Physiology Part II	2	-	-	-	2	30	-	-	-	30	10	40	50
BATOT 108 L	General Microbiology	3	-	-	-	3	45	-	-	-	45	10	40	50
BATOT 109 L	Basic Pathology & Hematology	4	-	-	-	4	60	-	-	-	60	10	40	50
BATOT 110 L	Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary)	3	-	-	-	3	45	-	-	-	45	10	40	50
Practical														
BATOT 106 P	Human Anatomy Part II	-	-	1	-	-	-	-	15	-	15	-	-	-
BATOT 107 P	Human Physiology Part II	-	-	1	-	-	-	-	15	-	15	-	-	-
BATOT 108 P	General Microbiology	-	-	1	-	-	-	-	15	-	15	-	-	-
BATOT 109 P	Basic Pathology & Hematology	-	-	1	-	-	-	-	15	-	15	-	-	-
BATOT 111 P	Community Engagement & Clinical Visit (Including related practicals to the Parent course)	-	-	-	24	8	-	-	-	360	360	-	50	50
Skill Enhancement Elective Course														
SEC 001 L	Medical Bioethics & IPR	3	-	-	-	3	45	-	-	-	45	10	40	50
SEC 002 L	Human Rights & Professional Values													
Total		17	0	4	24	25	255	0	60	360	675	60	290	350

OUTLINE OF COURSE CURRICULUM														
B.Sc. Operation Theatre and Anaesthesia Technology														
Semester III														
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		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
Theory														
BOTAT 112 L	Introduction To Operation Theatre Technology (OT)	2	-	-	-	2	30	-	-	-	30	20	80	100
BOTAT 113 L	Introduction To Anesthesia Technology (AT)	2	-	-	-	2	30	-	-	-	30	20	80	100
BOTAT 114 L	Principles of Anesthesia	2	-	-	-	2	30	-	-	-	30	20	80	100
BOTAT 115 CP	OTAT Directed Clinical Education-I	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BOTAT 112 P	Introduction To Operation Theatre Technology (OT)	-	-	2	-	1	-	-	30	-	30	10	40	50
BOTAT 113 P	Introduction To Anesthesia Technology (AT)	-	-	2	-	1	-	-	30	-	30	10	40	50
Generic Elective Course														
GEC 001 L	Pursuit of Inner Self Excellence (POIS)	3	-	-	-	3	45	-	-	-	45	10	40	50
GEC 002 L	Organisational Behaviour													
Total		9	0	4	27	20	135	0	60	405	600	90	410	500

OUTLINE OF COURSE CURRICULUM														
B.Sc. Operation Theatre and Anaesthesia Technology														
Semester IV														
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		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
Theory														
BOTAT 116 L	Basic Techniques of Anesthesia	2	-	-	-	2	30	-	-	-	30	20	80	100
BOTAT 117 L	Medical Emergencies & Its Management	3	-	-	-	3	45	-	-	-	45	20	80	100
BOTAT 118 L	Medicine Relevant to OT Technology	3	-	-	-	3	45	-	-	-	45	20	80	100
BOTAT 119 CP	OTAT Directed Clinical Education-II	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BOTAT 116 P	Basic Techniques of Anesthesia	-	-	2	-	1	-	-	30	-	30	10	40	50
Ability Enhancement Elective Course														
AEC 003 L	Computer and Applications	3	-	-	-	3	45	-	-	-	45	10	40	50
AEC 004 L	Good Clinical Laboratory Practice and Research Skills													
Total		11	0	2	27	21	165	0	30	405	600	80	370	450

OUTLINE OF COURSE CURRICULUM														
B.Sc. Operation Theatre and Anaesthesia Technology														
Semester V														
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		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
Theory														
BOTAT 120 L	Basics of Surgical Procedures	2	-	-	-	2	30	-	-	-	30	20	80	100
BOTAT 121 L	CSSD Procedures	2	-	-	-	2	30	-	-	-	30	20	80	100
BOTAT 122 L	Advance Anesthetic Techniques	2	-	-	-	2	30	-	-	-	30	20	80	100
BOTAT 123 CP	OTAT Directed Clinical Education-III	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BOTAT 120 P	Basics of Surgical Procedures	-	-	2	-	1	-	-	30	-	30	10	40	50
BOTAT 122 P	Advance Anesthetic Techniques	-	-	2	-	1	-	-	30	-	30	10	40	50
Discipline Specific Elective														
DSE 001 L	Basics of Clinical Skill Learning	3	-	-	-	3	45	-	-	-	45	10	40	50
DSE 002 L	Hospital Operation Management													
Total		9	0	4	27	20	135	0	60	405	600	90	410	500

OUTLINE OF COURSE CURRICULUM														
B.Sc. Operation Theatre and Anaesthesia Technology														
Semester VI														
Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		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
Theory														
BOTAT 124 L	Basic Intensive Care	4	-	-	-	4	60	-	-	-	60	20	80	100
BOTAT 125 L	Specialized Surgery and Anesthesia	4	-	-	-	4	60	-	-	-	60	20	80	100
BOTAT 126 L	Electronics & Record Keeping for Surgery and Anesthesia	3	-	-	-	3	45	-	-	-	45	20	80	100
BOTAT 127 CP	OTAT Directed Clinical Education-IV	-	-	-	27	9	-	-	-	405	405	-	50	50
Practical														
BOTAT 124 P	Basic Intensive Care	-	-	2	-	1	-	-	30	-	30	10	40	50
Total		11	0	2	27	21	165	0	30	405	600	70	330	400

OUTLINE OF COURSE CURRICULUM**B.Sc. Operation Theatre and Anaesthesia Technology****Semester VII & VIII**

Code No.	Core Course	Credits		Marks							
		Clinical Posing/ Rotation (CP)	Total Credits (C)	Internal Assement (IA)	Semester End Exam (SEE)	Total					
BOTAT 128	B.Sc. OT & AT Internship (Semester VII)	20	20	20	80	100					
BOTAT 129	B.Sc. OT & AT 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.

Internal Assessment Exam Pattern (IA) for Semester VII & VIII (Internship Program)		Scheme of University Semester End Examination (SEE) for Semester VII & VIII (Internship Program)				Attendance (10 marks) of the student. It was decided that weightage be given to attendance as per following scheme	
Internal exam pattern: Total 20 marks with following breakup		Practical exam pattern: Total 80 marks with following breakup				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 = 20 Marks		QNo 4	Log Book	10 M		86-90	8
		QNo 5	Attendance	10 M		91-95	9
		Total = 80 Marks				96-100	10



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A++' Accredited by NAAC

Sector-01, Kamothe, Navi Mumbai - 410209

Tel 022-27432471, 022-27432994, Fax 022-27431094

E-mail- registrar@mgmuhs.com Website : www.mgmuhs.com

