Maharashtra University of Health Sciences, Nashik

Date of Inspection : / /

Local Inquiry Committee Report

For Academic Year

(For Grant of Continuation / Extension of Affiliation for affiliated B.Sc. in Paramedical Technology Colleges

lame o	of College :	
Sr.	Particulars to be verified	Remark of the LIC
1	Course Conducted	
2	Numbers of Students Enrolled	
3	Separate Class available /Not available	
4	Curriculum Followed/ Not Followed	
5	Time table/Duty/ Theory/ Practical Conducted Yearly	
6	Separate List of Books for BPMT	
7	Library Reading Area : Available/ Not Available	
8	Hostel Facility : Available/ Not Available	

Data Verified by the Committee members:

Member Member	Member	Chairman
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College Code:



महाराष्ट्र आरोग्य वि**ज्ञान विद्यापीठ**, नाशिक

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK

BACHELOR OF PARA MEDICAL TECHNOLOGY (BPMT) Course Name :- Perfusion

3rdYear: Assessment System & Syllabus

Sr.	Paper	per Subject Subject		Theory			Practical			Total
No		- Junior Carlott	Code	IA	Final	Total	IA	Final	Total	Marks
1	Paper – I	Applied Perfusion Technology - I		30	60	90	30	80	110	200
2	Paper – II	Applied Perfusion Technology - II		30	60	90	30	80	110	200
3	Paper – III	Recent Advances - III		30	60	90	30	80	110	200

Paper – I
Applied Perfusion Technology-I

Sr. No.	Topics	Theory	Practical
1	Pharmacokinetics and pharmacodynamics of the drugs used in cardiopulmonary by pass	12	12
2	Physiology of pulsatile perfusion technology	12	12
3	Principles and methodology of cardiopulmonary bypass	12	12
4	Oxyginators : general considerations and principles	12	12
5	Heat exchangers: general considerations and principles and complications	12	12
6	Priming fluids:its principles and hemodilution	12	12
7	Blood cells trauma	12	12
8	Anticoagulation in bypass: its monitoring and complications	12	10

Paper – II
Applied Perfusion Technology-II

Sr. No.	Topics	Theory	Practical
1	Inflammatory response to cardiopulmonary bypass	24	24
2	Blood conservations and dialysis during cardiopulmonary bypass	24	22
3	Micro pore filters	24	24
4	Perfusion as a method of cardiopulmonary bypass	24	24
5	Complications and its management during cardiopulmonary bypass	24	24
6	Perfusionist in minimal invasive surgery	24	24

Paper – III Recent Advances

Sr. No.	Topics	Theory	Practical
1	Recent advances in perfusion technology	4	-
2	Cardiopulmonary resuscitation	12	12
3	Pediatric cardiac surgery*	48	48

^{*} It is a highly skilled work and required advanced and elaborate training to be a paediatric perfusion technician

PRACTICALS - PERFUSION TECHNOLOGY

- Calculation of PCV on CPB and amount of blood to be added to bring the PCV on CPB to particular level
- 2. Interpretation and correction of a given arterial blood gas
- 3. Interpretation and correction of a given electrolyte abnormally
- 4. Calculation of body surface area
- 5. Performing an ACT estimation and interpretation of results
- 6. Setting of a dummy CPB circuit
- 7. Managing a simulated perfusion accident on a dummy CPB circuit including changing oxygenators when on CPB, managing falling/leaking reservoir levels, venous airlocks, air in the arterial line, cardioplegia delivery failure, increased arterial line pressure, recognition of a possible dissection, run a way pump head, recognition of heat exchanger water leak into the CPB circuit, components and their uses, method of sterilization and complications related to them
- 8. Identification of various CPB circuit components and their uses, method of sterilization and complications related to them
- 9. Identification of drugs and their pharmacology
- 10. Calculating vascular resistance on CPB and management of increased perfusion pressure on bypass

LIST OF BOOKS

Subject/Topic	Author/Editor
Anatomy	BD Chaurasia
physiology	Chaudhary
Biochemistry	Satyanarayana
Pathology	Harsh Mohan
pharmacology	Tripathi
microbiology	Anantnarayan
Perfusion technology	Gravlee Marce
Perfusion technology	Christina vora
Bypass technology	Charles Reed
Management of Adult Cardia	c Surgery Bojar

	THEORY	PRACTICALS
PAPER 1	6 JULY 2024	11 JULY 2024
PAPER 2	7 JULY 2024	11 JULY 2024
PAPER 3	9 JULY 2024	11 JULY 2024

महाराष्ट्र आरोज्य विज्ञान विद्यापीठ, नाशिक MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK

BACHELOR OF PARA MEDICAL TECHNOLOGY (BPMT) Course Name :- Perfusion

3rdYear: Assessment System & Syllabus

	A second	the state of the s		Name of the Party		T	Practic		Total
		Subject		Theon	/		A CONTRACTOR OF THE PARTY OF TH	***************************************	Marks
Sr. Swell	Subject	Code	IĀ	Final	Total	IA	Final	Total	B142150
HO	Apriled Perfusion		30	- (4)	90	30	80	110	200
	Technology:							440	200
The Darwood	Applied Perfusion		30	60	90	30	80	110	200
	Technology - II		30	60	90	30	80	110	200
	Recent Advances - III		30	60	28V	1	L.		

Paper – I
Applied Perfusion Technology-I

Si.	Topics	Doctor Date
	Pharmacokinetics and pharmacodynamics of the drugs used in cardiopulmonary by pass	Dorkaran 3/2/m
	Physiology of pulsatile perfusion technology	D. Mond 1/2/m
	Principles and methodology of cardiopulmonary bypass	13 Harry 20/2/2
	Oxyginators : general considerations and principles	Dr. Sviapril 15/3/24
	Heat exchangers : general considerations and principles and complications	Da Tann 16/4/24
6	Priming fluids its principles and hemodilution	to Palak 2/5/24
7	Blood cells trauma	DayMold 1/5/24
8	Anticoagulation in bypass : its monitoring and complications	189- taran 21/5/24

Paper – II Applied Perfusion Technology-II

Sr	Topics	Doctor Date
No.		
	inflammatory response to cardiopulmonary bypass	Dr. Hann 1/6/24
	Blood conservations and dialysis during cardiopulmonary bypass	D. Parun 4/6/24
	Maa pore lilters	Dr. Swapent 16/3/20
6	Perfusion as a method of cardiopulmonary bypass	De- Kaan 2/3/24
5	Complications and its management during cardiopulmonary bypass	D-Nobe 10/3/2
6	Perfusionist in minimal invasive surgery	De. Herdr 16/3/2

Paper - III Recent Advances

Sr No.	Topics	Doctor	Date
	Recent advances in perfusion technology	Dafabe	3/8/24
	Cardiopulmonery resuscitation	D. Farun	10/8/26
	Padiatric cardiac surgery'	Da. Sapril.	16/2/24

DR., P.K SEN DEPT. OF CARDIOVASCULAR & THORACIC SURGERY

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Professor

Dr. Balaji Aironi

Associate Professor

Dr. Prashant Patil

Associate Professor



Dr. Uday Jadhav Professor & Head

Dr. Sushrut Potwar

Associate Professor

NAME OF FACULTY	SIGN
MR.ASHOK SARUK	
(JSO)	
MR.SHASHIKANT MEMANE	
(JSO)	Sanore
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