

INTEGRAL UNIVERSITY, LUCKNOW INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF PARAMEDICAL SCIENCES

BACHELOR OF SCIENCE IN ANESTHESIOLOGY AND INTENSIVE CARE TECHNOLOGY (B. Sc. AICT)

SYLLABUS

YEAR/ SEMESTER: III/V



Integral University, Lucknow Department of Paramedical Sciences Study and Evaluation Scheme

Program: BAICT

Semester-V

S.	Course		Туре		eriod Pe week/se			Evaluat	tion Sch	eme	Sub.	G 1 ¹ 4	Total Credits						
N.	code	Course Title	of Paper	L	Т	Р	СТ	TA Total ESE		Total	Credit	Total Creatis							
			THEOR	IES															
1	AT301	Anesthesia for Patient with Medical Disorder	Core	2	1	0	40	20	60	40	100	2:1:0	3						
2	AT302	Central Sterile Supply Department (CSSD)Procedures	Core	2	1	0	40	20	60	40	100	2:1:0	3						
3	AT303	Basic Intensive Care	Core	3	1	0	40	20	60	40	100	3:1:0	4						
4	AT304	Advance Anesthesia Technique	Core	3	1	0	40	20	60	40	100	3:1:0	4						
5	AT305	Seminar	Core	3	1	0	40	20	60	40	100	3:1:0	4						
			PRACTIO	CAL															
1	AT306	Central Sterile Supply Department (CSSD)Procedures Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1						
2	AT307	Advance Anesthesia Technique Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1						
4	AT308	OT Posting	Core	0	0	2	40	20	60	40	100	0:0:1	1						
		Total		13	06	06	320	160	480	320	800	21	21						

S.	Course	Course Type Attributes								United Nation Sustainable	
N.	code	Course Title	of Paper	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Development Goal (SDGs)
TH	EORIES										
1	AT301	Anesthesia for Patient with Medical Disorder	Core	\checkmark		\checkmark				\checkmark	3,4
2	AT302	Central Sterile Supply Department (CSSD)Procedures	Core	\checkmark	\checkmark	\checkmark				\checkmark	3,4
3	AT303	Basic Intensive Care	Core	\checkmark	\checkmark	\checkmark				\checkmark	3,4
4	AT304	Advance Anesthesia Technique	Core	\checkmark	\checkmark	\checkmark				\checkmark	3,4
5	AT305	Seminar	Core			\checkmark				\checkmark	3,4
PRA	CTICAL										
1	AT306	Central Sterile Supply Department (CSSD)Procedures Lab	Core			\checkmark				\checkmark	3,4
2	AT307	Advance Anesthesia Technique Lab	Core			\checkmark				\checkmark	3,4
3	AT308	OT Posting	Core			\checkmark				\checkmark	3,4
	1	·		<u> </u>	<u> </u>				· ·	<u> </u>	

L: Lecture T: Tutorials P: Practical CT: Class Test TA: Teacher Assessment ESE: End Semester Examination, AE= Ability Enhancement, DSE- Discipline Specific Elective, Sessional Total: Class Test + Teacher Assessment Subject Total: Sessional Total + End Semester Examination (ESE)



Effective from Session: 2	2024-25						
Course Code	AT301	Title of the Course	ANESTHESIA FOR PATIENTS WITH	L	Т	Р	С
			MEDICAL DISORDERS				
Year	Ш	Semester	V	2	1	0	3
Pre-Requisite	Nil	Co-requisite	Nil				
			ell injury & changes produced thereby in different tissues &				
Course Objectives			opathogenesis, the pathological effects & the clinico-path	hologie	cal corr	relation	of
	common infectio	ns & noninfectious dise	ases				

	Course Outcomes
CO1	Students able to understand the Hypertension and Diabetes.
CO2	Students able to understand Respiratory Diseases.
CO3	Students able to understand Coronary Artery diseases.
CO4	Students able to understand about Thyroid Disorder and Obesity.
CO5	Students able to learn the Renal Failure.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO				
1	HYPERTENSION AND DIABETES	 Hypertension-Hypertension-commonly used antihypertensive - losartan, amlodepine, telmisartan, atenolol, methods to reduce hypertension intraoperatively, complications of intraoperative hypertension. Diabetes Mellitus Diabetes -insulin preparations, methods to reduce blood sugar levels, complications of uncontrolled diabetes intraoperative. 	6	CO1				
2	RESPIRATORY DISEASES	ISEASES anestnesta drugs precipitating an epiteptic attack, drugs used for treatment, Anemia- complications under anesthesia RONARY RY DISEASE Coronary artery diseases, thyroid diseases- Coronary artery disease-risk factors for having an myocardial/infarction under anesthesia, drugs used in their management, complications of ischemic heart disease patient undergoing non cardiac surgery Thyroid disorders-causes of hyper and hypothyroidism, challenges of anaesthetizing a						
3	CORONARY ARTERY DISEASE	having an myocardial/infarction under anesthesia, drugs used in their management,	6	CO3				
4	THYROID DISORDER AND OBESITY	SORDER Thyroid disorders-causes of hyper and hypothyroidism, challenges of anaesthetizing a thyroid patient, thyroid storm and its management, complications after thyroidectomy						
5	RENAL FAILURE	Renal failure-anesthetic challenges in renal failure patient, intraoperative complications in renal failure patients and its management.,important anesthetic challenges during renal transplant, Jaundice-intraoperative complications in a liver failure patient	6	CO5				
Refere	nce Books:							
1.	Comparative pharmacology	for anaesthetists- Vipin dhama.						
2.	Miller anaesthesia							
3.	Clinical Anaesthesiology – 6	th edition Morgan						
e-Lea	arning Source:							
1.	https://www.youtube.com/w	atch?v=MnVgGTv6EW0						
2.	https://www.youtube.com/w	atch?v=sBoRKzc7pdY						
3.	https://www.youtube.com/w	atch?v=AuTlwFreqlc						

https://www.youtube.com/watch?v=AuTlwFreqlc https://www.youtube.com/watch?v=S1kdYd4JGbg 4.

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CO4

CO5

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	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																	
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5	
СО	POI	POI PC	102	105	104	105	100	10/	108	109	1010	1011	1012	1301	1302	1505	1304	1305
CO1	3	3	-	3	-	2	-	-	1	2	-	1	3	-	1	1	-	
CO2	3	3	-	2	-	2	-	-	2	3	-	1	3	-	1	1	-	
CO3	3	3	-	3	-	2	-	-	1	2	-	1	3	-	2	2	-	

1 1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

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Attributes & SDGs

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Course Code	Course Title			Att	tributes				SDGs
AT301	ANESTHESIA FOR PATIENTS WITH	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
	MEDICAL DISORDERS								3,4



Effective from Sessi	on: 2024-25													
Course Code	AT302	Title of the Course	CENTRAL STERILE SUPPLY DEPARTMENT(CSSD)PROCEDURES	L	Т	Р	C							
Year	III	Semester	V	2	1	0	3							
Pre-Requisite	Nil Co-requisite Nil													
			will have sound knowledge of the sterilization a		-									
	sterilization, surg	ical instruments, criteri	ia for purchase and maintenance, Quality assurance	e pro	ogramn	ne, Us	e of							
Course Objectives	disinfections sorti	ing and classification of	equipment for cleansing purposes, Cleaning proces	s- Use	of det	ergent	s,							
	Special precaution	ns while handling instru	ments linen and other items used for patients with H	IIV. H	BV.H	CV.								

Course Outcomes

CO1	Students able to understand Sterilization and Techniques of sterilization.
CO2	
CO3	Students able to understand about surgical instrument and maintenance
CO4	Students able to understand use of disinfectant.

CO5 Students able to understand use of detergent and cleaning process.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	STRILZATION	General observations and principle of sterilization, Moist hear Sterilization, Dry hear sterilization, E2O gas sterilization, H2O2 gas plasma vapor sterilization. Calculation of capacity requirement of sterilizer.	6	CO1
2	AND TECHNIQUES	Sterilize operation, Sterilize basic trouble shooting methods, Sterilization recommended practices or Flash Sterilization, Cell back system in case of detection of Failure. Complete decontamination technique, Confirmation of cleaning process, Monitoring Techniques, Quality Assurance program.	6	CO2
3	SURGICAL INSTRUMENT	Surgical Instruments, Criteria for Purchase and Maintenance, Preparation and Supplies for Terminal Sterilization, Endoscopes and its sterilization, Surgical Procedures.	6	CO3
4	DISINFECTION USE	Collection of used items from user area, reception protective clothing and disinfections sage guards, Use of disinfections sorting and classification of equipment for cleansing purposes, sharps, blunt lighted etc. contaminated high risk baby care- delicate instruments or hot care instruments.	6	CO4
5	CLEANING PROCESS	Cleaning process- Use of detergents, Mechanical cleaning apparatus, Cleaning instruments, cleaning jars, receivers bowls etc. trays, basins and similar hand are utensils, Cleaning of catheters and tubing, cleaning glass ware, cleaning syringes and needles. Special precautions while handling instruments linen and other items used for patients with HIV, HBV, HCV.	6	CO5
Refe	erence Books:			
1.	Know your instruments I	Josper Joan M		
	Learning Source:			
	8	om/watch?v=LEiN-pkYeRs		
		om/wetch?w=kc2Win0UISE		

2. <u>https://www.youtube.com/watch?v=keXNin9IJSE</u>

3. https://www.youtube.com/watch?v=k_lxtI_9PMA

4. https://www.youtube.com/watch?v=kJ3VsW4gnO0

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
СО	101	102	105	104	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1504	1505	1500
CO1	3	3	-	1	-	1	-	-	1	1	-	1	2	-	1	1	-	3
CO2	2	3	-	2	-	2	-	-	-	1	-	2	3	-	2	2	-	2
CO3	3	3	-	1	-	1	-	-	1	1	-	1	2	-	1	1	-	3
CO4	2	3	-	1	-	2	-	-	-	1	-	2	2	-	1	1	-	2
CO5	2	3	-	1	-	2	-	-	-	1	-	2	3	-	1	1	-	2

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Attributes & SDGs

Course Code	Course Title		Attributes									
AT302	CENTRAL STERILE SUPPLY	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.			
	DEPARTMENT(CSSD) PROCEDURES	\checkmark	\checkmark	\checkmark	\checkmark		V	\checkmark	3,4			



Effective from Session	: 2024-25						
Course Code	AT303	Title of the Course	BASIC INTENSIVE CARE	L	Т	Р	C
Year	Ш	Semester	V	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	This course	deals with fundamentals of	basic intensive care.				

	Course Outcomes: After the successful course completion, learners will develop following attributes:
CO1	Students will be able to learn about respirator system.
CO2	Students will be able to learn about cardiovascular system.
CO3	Students will be able to learn about CNS.
CO4	Students will be able to learn about nutritional monitoring.
CO5	Students will be able to learn about care and maintenance of Intensive care unit.

Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
RESPIRATORY SYSTEM	Monitoring lung and chest wall mechanics, Compliance, Resistance, Pressures, Auto PEEP Volumes, Monitoring muscle strength, work of breathing, Maximum inspiratory and expiratory pressures, Monitoring patient ventilator system, Graphics monitoring, Bedside PFT	8	CO1
CARDIOVASCULAR SYSTEM	Assessment of Preload responsiveness static and dynamic parameters, Basic Echocardiography in ICU/ Ultrasound in Critical Care, Defibrillator and Cardio version ,PICCO ,Monitoring tissue perfusion ,Pulmonary artery catheters ,Temporary pacemaker	8	CO2
CNS	Monitoring brain stem function Unit 2: Sedation and analgesia scoring	8	CO3
NUTRIONAL MONITORING	Functional nutritional assessment (history and physical examination) ,Metabolic assessment ,Estimating nutritional requirements	8	CO4
AND MAINTAINACE	"Monitors: Stand-alone & multi-parameter, Cardiac Output monitors. ,ECG machine	8	CO5
ence Books:			
tical Care Secrets: Parso			
8			
	RESPIRATORY SYSTEM CARDIOVASCULAR SYSTEM CNS CNS NUTRIONAL MONITORING CARE AND MAINTAINACE OF ICU ence Books: an's Fundamentals of Re to ICU Book – Paul L Ma ctical Methods for Respi tical Care Secrets: Parso arning Source:	RESPIRATORY SYSTEMMonitoring lung and chest wall mechanics , Compliance , Resistance , Pressures , Auto PEEP Volumes, Monitoring muscle strength, work of breathing, Maximum inspiratory and expiratory pressures, Monitoring patient ventilator system, Graphics monitoring ,Bedside PFTCARDIOVASCULAR SYSTEMAssessment of Preload responsiveness static and dynamic parameters, Basic Echocardiography in ICU/ Ultrasound in Critical Care, Defibrillator and Cardio version ,PICCO ,Monitoring tissue perfusion ,Pulmonary artery catheters ,Temporary pacemakerCNSMonitoring brain stem function Unit 2: Sedation and analgesia scoringNUTRIONAL MONITORINGFunctional nutritional assessment (history and physical examination) ,Metabolic assessment ,Estimating nutritional requirementsCARE OF ICUMechanical Ventilators & Non-invasive ventilators, Pumps: Infusion, syringe ,Monitors: Stand-alone & multi-parameter, Cardiac Output monitors. ,ECG machine Unit 5: ABG machine ,Defibrillator ,Ultrasound machine ,Bronchoscopem's Fundamentals of Respiratory Care – Robert L. Wikins, James K Stoller, eICU Book – Paul L Marino (Lippincott, Williams & Wilkins)ctical Methods for Respiratory Care – Raymond Sibberson (Mosby) tical Care Secrets: Parsons, Wiener – Kronish, Jaypee Brothers	Title of the Unit Content of Unit Hrs. RESPIRATORY Monitoring lung and chest wall mechanics , Compliance , Resistance , Pressures , Auto PEEP Volumes, Monitoring muscle strength, work of breathing, Maximum inspiratory and expiratory pressures, Monitoring patient ventilator system, Graphics monitoring ,Bedside PFT 8 CARDIOVASCULAR Assessment of Preload responsiveness static and dynamic parameters, Basic Echocardiography in ICU/ Ultrasound in Critical Care, Defibrillator and Cardio version ,PICCO ,Monitoring tissue perfusion ,Pulmonary artery catheters ,Temporary pacemaker 8 CNS Monitoring brain stem function Unit 2: Sedation and analgesia scoring 8 NUTRIONAL MONITORING Functional nutritional assessment (history and physical examination) ,Metabolic assessment ,Estimating nutritional requirements 8 CARE AND MAINTAINACE OF ICU Mechanical Ventilators & Non-invasive ventilators, Pumps: Infusion, syringe Monitors: Stand-alone & multi-parameter, Cardiac Output monitors. ECG machine Unit 5: ABG machine ,Defibrillator ,Ultrasound machine ,Bronchoscope 8 n's Fundamentals of Respiratory Care – Robert L. Wikins, James K Stoller, e1CU Book – Paul L Marino (Lippincott, Williams & Wilkins) 8 ctical Methods for Respiratory Care – Raymond Sibberson (Mosby) 1 1 tical Care Secrets: Parsons, Wiener – Kronish, Jaypee Brothers arning Source: 1 1

https://www.youtube.com/watch?w vDLg

https://www.youtube.com/watch?v=XfVqnlkU3ZY
 https://www.youtube.com/watch?v=VGh7VVk9Oeg
 https://www.youtube.com/watch?v=Wu18mpI_62s

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	2	2	-	-	-	1	2	1	-	2	2	1	-	1	-
CO2	1	3	1	3	-	-	-	2	3	-	-	3	3	2	-	2	-
CO3	1	3	1	2	-	-	-	1	2	2	-	2	3	1	-	1	-
CO4	1	3	1	2	-	-	-	1	3	-	-	3	2	1	-	1	-
CO5	1	3	1	2	-	-	-	1	2	1	-	2	2	1	-	1	-

Course Code	Course Title			Att	ributes				SDGs
AT303	BASIC INTENSIVE CARE	Employability	Entrepreneursh ip	Skill Developme nt	Gender Equalit y	Environment & Sustainability	Huma n Value	Professional Ethics	No.
		\checkmark	\checkmark				\checkmark		3,4



Effective from Sessi	on: 2024-25									
Course Code	AT304	Title of the Course	ADVANCE ANESTHESIA TECHNIQUE	L	Т	Р	С			
Year	Ш	Semester	V	3	1	0	4			
Pre-Requisite	Nil	Co-requisite	Nil							
Course Objectives	Course Objectives The course will provide training in basic type of anesthetic and anesthetic procedure.									
Course Outcomes: After the successful course completion, learners will develop following attributes:										

	Course Outcomes. After the successful course completion, learners will develop following autobutes.
CO1	Student will able to learn about neuro anaesthesia.
CO2	Student will able to learn about obstetric anaesthesia.
CO3	Student will able to learn about pediatric anaesthesia.
CO4	Student will able to learn about cardiac anaesthesia.
CO5	Student will able to learn about geriatric anaesthesia.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO						
1	NEURO ANAESTHESIA	Glasgow coma scale, Premedication, Special investigation - CT, Angiography and MRI, Checklist , Induction of a patient, Reinforced Endotracheal tubes, Postioning in neuro surgery, Intracranial pressure (ICP), Air embolism, Reversal of the patient, Transferring to I.C.U. / Ward	8	CO1						
2	OBSTETRIC ANAESTHESIA	Differences between a pregnant and a normal lady, Risks for anaesthesia. ,Precautions to be taken , Check list, Regional vs general anaesthesia, Induction / maintenance and recovery , Resuscitation of the newborn, apgar score , Reversal and extubation , Emergencies - manual removal of placenta , Antepartum hemorrhage (APH) , Postpartum hemorrhage (PPH) • Ruptured uterus , Ectopic Pregnanc	8	CO2						
3	PEDIATRIC ANAESTHESIA	Theatre setting , Check list , Premedication - modes , Induction ,Intubation - Securing the EIT, Reversal & extubation – Problems , Transferring / ICU management , Pain management.	8	CO3						
4	CARDIAC ANAESTHESIA	NYHA classification, Arrhythmias, Angina, Dyspnoea, Special investigations ,Echocardiography, Angiography,Premedication, Setting up of monitoring system, Monitoring - invasive and non – invasive, Getting ready for the case, Induction of cardiac patient, precautions to be taken, Cardiopulmonary bypass, Weaning of CPB, Transferring the patient to intensive care unit (ICU), Care to be taken,ICU management.,Chest tube management	8	CO4						
5	GERIATRIC ANAESTHESIA	Physiological changes, Diseases of aging, Nervous system, Geriatric pharmacodynamics / pharmacokinetics, Postoperative nervous system dysfunction	8	CO5						
	ence Books:									
		ok of Anaesthesia Jaypee								
		Anaesthesia& Critical Care Jaypee								
-	1 1	ipment's – Yasodhanandha arit								
-	The Anaesthesia Technologist's Manual by Emily S Guimaraes, Matthew Davis, Jeffrey R Kirsch, Glenn Woodworth. Introduction to the Surgery by Marketa Duskova									
	earning Source:									
1. <u>htt</u>	1. <u>https://www.youtube.com/watch?v=aXt1DbdeBXk</u>									
2. <u>htt</u>	2. <u>https://www.youtube.com/watch?v=esxafXkG6zk</u>									
	<u> </u>	watch?v=GDcoeWBxOjc								
4. <u>htt</u>	ps://www.youtube.com/y	watch?v=vAL8H3idU6k								

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	3	-	-	-	-	-	-	-	-	-	1	3	-	1	-	2
CO2	3	3	-	-	-	2	-	-	-	-	-	-	3	3	2	3	3
CO3	2	3	-	-	-	2	-	-	-	-	-	1	3	2	1	3	2
CO4	3	3	-	-	-	-	-	-	-	-	-	-	2	3	2	2	3
CO5	3	3	-	-	-	3	-	1	-	-	-	-	3	3	2	3	3

				and a bb ds					
Course Code	Course Title			At	tributes				SDGs
4.7720.4	ADVANCE	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
AT304	ANESTHESIA TECHNIQUE		\checkmark	\checkmark			\checkmark	\checkmark	3,4



Effective from Session: 2	2023-2024						
Course Code	AT305	Title of the Course	SEMINAR	L	Т	Р	С
Year	Ш	Semester	V	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives							

		Course Outcomes								
CO1		esthesia for patient with medical disorder.								
CO2	Student will able to learn about central sterile supply department (cssd) procedures.									
CO3	Student will able to learn about basic intensive care.									
CO4	Student will able to learn about advance anesthesia technique.									
CO5	Student will able to learn about ane	sthesia for patient with medical disorder.								
Unit No.	Title of the Unit Content of Unit									
1.	ANESTHESIA FOR PATIENT WITH MEDICAL DISORDER	Seminar Topic will be given based on courses and will be decided by course teacher.	6	CO1						
2.	CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)PROCEDURES	Seminar Topic will be given based on courses and will be decided by course teacher.	6	CO2						
3.	BASIC INTENSIVE CARE	Seminar Topic will be given based on courses and will be decided by course teacher.	6	CO3						
4.	ADVANCE ANESTHESIA TECHNIQUE	Seminar Topic will be given based on courses and will be decided by course teacher.	6	CO4						
5.	ANESTHESIA FOR PATIENT WITH MEDICAL DISORDER	Seminar Topic will be given based on courses and will be decided by course teacher.	6	CO5						
Refere	nce Books:									
	Yadav Short Textbook of Anaest									
	ul Jain Essentials of Anaesthesia&									
	iples of anaesthesia equipment's – Ya									
	The Anaesthesia Technologist's Manual by Emily S Guimaraes, Matthew Davis, Jeffrey R Kirsch, Glenn Woodworth									
5.Introduction to the Surgery by Marketa Duskova										
e-Learning Source:										
1. <u>https://www.youtube.com/watch?v=aXt1DbdeBXk</u>										
2. https://www.youtube.com/watch?v=esxafXkG6zk 3. https://www.youtube.com/watch?v=GDcoeWBxOjc										
	s://www.youtube.com/watch?v=GDc s://www.youtube.com/watch?v=vAL									
4. <u>nttp</u>	s://www.youtube.com/watch?v=vAL	<u>8003000k</u>								

						Cours	e Artic	ulation	Matrix:	(Mapping	g of COs	with POs	and PSO	s)			
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	-	1	-	1	-	-	1	1	-	1	2	-	1	1	-
CO2	2	3	-	2	-	2	-	-	-	1	-	2	3	-	2	2	-
CO3	3	3	-	1	-	1	-	-	1	1	-	1	2	-	1	1	-
CO4	2	3	-	1	-	2	-	-	-	1	-	2	2	-	1	1	-
CO5	2	3	-	1	-	2	-	-	-	1	-	2	3	-	1	1	-

Course Code	Course Title			Att	tributes				SDGs
		Employability Entrepreneurship		Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
AT305	SEMINAR	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	3,4



Effective from Sessio	n: 2023-24											
Course Code	AT306	Title of the Course	CENTRAL STERILE SUPPLY	L	Т	Р	С					
			DEPARTMENT(CSSD)PROCEDURES LAB									
Year	Ш	Semester	V	0	0	2	1					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The student will be	The student will be able to demonstrate the practical knowledge in cssd.										

	Course Outcomes
CO1	
CO2	To understand about the basic of pathological practical and also know the how to handle the equipment's.
CO3	
CO4	To understand about the basis of Quality Assumption Manitoring system
CO5	To understand about the basic of Quality Assurance Monitoring system.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	INVENTORY MAINTAINENCE AND STRILIZATION	 How to maintain perfect inventory, Sterilization operation and monitoring. Basic trouble shooting methods. Practical knowledge on sterile storage and distribution, System of documentation, Sterilizer validation, Inventory management of surgical instruments. 	20	CO1-5
2	QUALITY ASSURANCE	Practical knowledge of quality assurance monitoring system, Physical/ chemical/ Biological indicators- Monitoring and record maintenance.	10	CO1-5
	nce Books:			
	ext book of Pathology - by Harsh I	Mohan		
	xtbook of Pathology By Boyd			
	eneral Pathology – by Bhende	- V Dahlar		
	thologic basis of diseases by Cotra xtbook of Parasitology- K. D. Ch			
	xt Book of Microbiology – R. D. Ch			
	sentials of Medical Microbiology			
	xtbook of Microbiology – P. Chak			
e-Lea	rning Source:			
	ps://www.youtube.com/watch			
5. <u>htt</u>	ps://www.youtube.com/watch	<u>?v=LEiN-pkYeRs</u>		

					C	ourse A	rticula	tion Ma	atrix: (N	Aapping	of COs	with POs	s and PSC	Os)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
СО	101	102	105	104	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1504	1505
CO1	1	3	1	2	-	-	-	1	2	-	-	2	-	1	-	1	-
CO2	1	3	1	3	-	-	-	1	3	-	-	3	-	2	-	2	-
CO3	1	3	1	2	-	-	-	1	2	-	-	2	-	1	-	1	-
CO4	1	3	1	2	-	-	-	1	3	-	-	3	-	1	-	1	-
CO5	1	3	1	2	-	-	-	1	2	-	-	2	-	1	-	1	-

Course Code	Course Title			Att	ributes				SDGs
	CENTRAL STERILE SUPPLY	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
AT306	DEPARTMENT(CSSD)PR OCEDURES LAB	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	3,4



Effective from Session: 2023	8-2024						
Course Code	AT307	Title of the Course	ADVANCE ANESTHESIA TECHNIQUE LAB	L	Т	Р	C
Year	Ш	Semester	V	0	0	4	2
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives							

	Course Outcomes
CO1	Students will be able to learn about Picratemethod, Benedict's/Uristixmethod
CO2	Students will be able to learn about Rothera Nitroprussidetest, Serum Amylase, Serum Lipase estimation
CO3	Students will be able to learn about Malloy-Evelyn method, BCG method
CO4	Students will be able to learn about Uricase/ PAP method
CO5	Students will be able to learn aboutSemi Autoanalyzer, Flame Photometer

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1.	NEURO ANAESTHESIA	 Glasgow coma scale, CT, Angiography and MRI, Checklist, Induction of a patient. 		CO1
2.	OBSTETRIC ANAESTHESIA	 Differences between a pregnant and a normal lady, anaesthesia. , Precautions to be taken , anaesthesia Check list, Regional vs general anaesthesia, Resuscitation of the newborn. 	30	CO2
3.	PEDIATRIC ANAESTHESIA	 Check list, Premedication - modes, Induction, Intubation - Securing the EIT. Reversal & extubation. Pain management. 		CO3
4.	CARDIAC ANAESTHESIA	 NYHA classification. Setting up of monitoring system. Getting ready for the case. 		CO4
	ence Books:			
		t of Anaesthesia Jaypee		
		naesthesia& Critical Care Jaypee		
		ment's – Yasodhanandha arit		
-		Manual by Emily S Guimaraes, Matthew Davis, Jeffrey R Kirsch, Glenn Woodworth		
	luction to the Surgery by M	Aarketa Duskova		
e-Le	earning Source:	com/watch?v=aXt1DbdeBXk		
6		com/watch?v=esxafXkG6zk		
7		com/watch?v=GDcoeWBxOic		
8		com/watch?v=vAL8H3idU6k		
0	. <u>Intps.//www.youtube.</u>			
		Course Articulation Matrix: (Mapping of COs with POs and PSOs)		
PO-I	050			

					U	ourse A	rticula	tion Ma	atrix: (N	Tapping	of COs	with POs	and PSC	JS)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
СО	101	102	105	104	105	100	10/	108	109	1010	1011	1012	1301	1302	1305	1504	1305
CO1	1	3	2	2	-	-	-	1	2	1	-	2	-	2	2	1	-
CO2	1	3	1	3	-	-	-	2	3	-	-	3	-	1	1	1	-
CO3	1	3	1	2	-	-	-	1	2	2	-	2	-	1	1	1	-
CO4	1	3	1	2	-	-	-	1	3	-	-	3	-	1	2	1	-
CO5	1	3	1	2	-	-	-	1	2	1	-	2	-	1	1	1	-

			1111100	us a bbus								
Course Code	Course Title		Attributes									
AT307	ADVANCE ANESTHESIA	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.			
	TECHNIQUE LAB	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark	3,4			



Effecti	Effective from Session: 2023-24												
Course	e Code	AT308	Title of the Course	OT POSTING	L	Т	Р	С					
Year		III	Semester	V	0	0	10	5					
Pre-Re	quisite	Nil	Co-requisite	Nil									
Course	•			Physiotherapy departments in the musculoskeletal, neurole		ardiopu	lmonar	у,					
Object	ives	sports settings to enhance their clinical skills and apply contemporary knowledge gained during teaching sessions.											
				Course Outcomes									
CO1	To learn the punctuality and interaction with colleague and supporting staff during clinical training.												
CO2	To develop	assessment skills.											
CO3	To develop appropriate treatment protocol.												
CO4	To understand the importance of documentation of the case record and case presentation.												
CO5	To develop	To develop discipline and improve overall quality of clinical work.											

CLINICAL POTING ASSESSMENT FORM

Name of St	tudent:		Session:	
Enrolment	t Number:		Date:	
Name of S	ubject:	OT POSTING	Subject code:	AT308
Topics:			•	
S. No.	Point to be C	Max. Marks	Marks Obtained	
1.	Punctuality		4	
2.	Interaction v	vith colleagues and supporting staff	2	
3.	Maintenance	e of case records	3	
4.	Presentation	of case during rounds	2	
5.	Maintained	OT records	2	
6.	OT Manners		2	
7.	Rapport with	n patients	2	
8.	Assistance d	uring operatives procedures	3	
9.	Discipline		2	
10.	Overall qual	ity of clinical work	3	
		TOTAL SCORE	25	

(Name and signature of In-charge)

(Head, Paramedical)

GUIDELINES FOR CLINICAL TRAINING PROGRAM

The students of Post Graduate BAICT program must spend above mentioned allotted time period in the hospital based clinical training for specified clinical experiences to meet the objectives of the training program. This period of practical and theoretical experience will enable the students to acquire competency and experience to perform as an independent practice and will enable to adjust to the real practical life in different units in the hospital settings.

S.No.	Program Name	Year/Semester	Duration of Training		
1.		II Year/ V Semester	4 Months		
2.	BAICT	II Year/ V Semester	4 Months		
3.	DAIC I	III Year/ V Semester	4 Months		
4.		IIIYear/ V Semester	4 Months		

By the successful completion of this clinical training period, the student is expected to fulfil the objectives of

the program and will be examination as given below: Practical on Case Voice/Viva S.No. Program Name Year/Semester Case file Attendance 1. II Year/ V Semester 10 Marks II Year/ V Semester BAICT 10 Marks (1 Long Case and 2 25 Marks 5 Marks 3. III Year/ V Semester Short Case) III Year/ V Semester

EVALUATION OF CLINICAL POSTING

BAICT- Students has to prepare 1 long case and 2 short cases during their clinical posting. The evaluation for internal clinical examination of 50 marks will be distributed:

Cases during clinical posting=25 marks.						Viva voce = 20 marks						Attendance=5 marks					
		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO	FOI	F02	103	r04	FOS	100	F07	100	F09	FOID	FOIL	F012	1301	F302	1303	1304	1303
CO1	2	3	3	2	3	2	3	1	2	1	-	-	3	2	3	3	2
CO2	3	3	3	3	2	2	3	2	1	3	-	-	2	2	3	2	3
CO3	3	3	3	3	2	2	3	2	1	3	-	-	3	2	2	2	3
CO4	3	3	3	3	2	2	3	2	1	3	-	-	2	3	2	2	3
CO5	3	3	3	3	2	2	3	2	1	3	-	-	3	2	3	3	2
		1-1	ow Co	prrelatio	n. 5- V	Aodera	ite Co	rrelati	$n \cdot 3$ -	Substa	ntial C	orrelati	0n Attrib	ntes & ST)Gs		-

Course Code	Course Title		Attributes								
AT308	OT POSTING	Employability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
		\checkmark	\checkmark	\checkmark			V		3,4,11		