

Sharda School of Allied Health Sciences

Program Curricula

Program Name:
Bachelor of Science (Emergency and Trauma Care
Technology)

Program Code: SAH0132

Batch: 2025-29



Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- 2. Enrichment by educational initiatives that encourage global outlook
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship
- **4.** Seeking beyond boundaries

Core Values

- Integrity
- Leadership
- Diversity
- Community



1.2 Vision and Mission of the School

Vision of the SSASH

To steer the School of Allied Health Sciences towards excellence in academics, innovation and entrepreneurship by constant endeavours.

Mission of the SSASH

- 1. To create the state-of-the-art facility for quality teaching learning, research & innovation
- 2. To incorporate the contemporary standards in teaching & learning
- 3. To inculcate in the students' values of integrity and compassion towards the care of patients and society.

Core Values

- Skilled professional
- Multidimensional
- Compassion
- Management

3 Program Educational Objectives (PEO)

PEO1-To create the group of professionals who can contribute to pre-hospital patient care and lead ambulance & other pre-hospital team.

PEO2: To create the special cadre of professionals who can be part of hospital-based emergency care and contribute to the code blue system effectively.

PEO3: To create the special cadre of professionals who can contribute to society and the healthcare system in terms of providing care and education in community healthcare centres.

PEO4: To create the special cadre of professionals who can be the teachers for emergency allied healthcare providers



1.3.2 Map PEOs with Mission Statements:

PEO Statements	School Mission 1	School Mission 2	School Mission 3
PEO1:	3	3	3
PEO2:	3	3	3
PEO3:	3	3	3
PEO4:	3	3	2

Enter correlation levels 1, 2, or 3 as defined below:

- Slight (Low)
- Moderate (Medium)
- Substantial (High)



1.3.3 Program Outcomes (PO's)

PO1: Professionals should be able to recognize the different types of health emergencies according to the clinical and injury presentations of an individual. PO2:

Should be able to provide competent Basic and advanced emergency care in

hospital and pre-hospital care settings.

Should be able to train the public and community-based healthcare PO3:

professionals in basic and advanced emergency care.

PO4: Should be able to design and conduct research projects in the field of

emergency care.



1.3.4 Mapping of Program Outcome Vs Program Educational Objectives

	PEO1	PEO2	PEO3	PEO4
PO1	3	2	3	3
PO2	3	2	3	3
PO3	3	3	2	2
PO4	3	2	2	2

- 1. Slight (Low)
- 2. Moderate (Medium)
- 3. Substantial (High)



1st Semester



Sharda School of Allied Health Sciences Bachelor of Science (Emergency and Trauma Care Technology) Batch: 2025-29 TERM:1

Sr. No.	Subject		-	Teaching Load		Cred it	Core/Electiv e/Pre Requisite/C	Type of Course CC/AECC/SE
NO.	Code		L T P		10	o Requisite	C/DSE	
Theor	Theory							
1 ARP101 Communicative English- 1		1	0	2	2	Minor	AEC	
		Overview of Human Anatomy,						
		Physiology, Pharmacology, and						
2	ETT1101	MOI	2	2	0	4	Major	СС
		Cardiovascular, Respiratory and					Major	СС
3	ETT1102	Musculoskeletal Emergencies	2	1	0	3		
		Healthcare System in India, Basics					Major	CC
		of Research, and Burden of						
4	ETT1103	Diseases	2	1	0	3		
Practi	cal							
		Anatomy, Physiology, Pathology					Major	CC
5	ETP1101	and Pharmacology	0	0	2	1		
		Management of Cardio-Respiratory					Major	CC
6	ETP1102	Disorders	0	0	4	2		
7	ETP1103	History and Physical Examination	0	0	4	2	Major	СС
		Musculoskeletal System Disorders					Major	СС
8	ETP1104	(PCMSD)	0	0	4	2	_	
9 ETP1105 Life Support Provider Training		0	0	2	1	Major	СС	
		Total Hours	7	4	18	20		



Schoo	ols: SSAHS	Batch : 2025-2029	
Progra	am	Bachelor of Science (Emergency and Trauma Care Technology))
Branc	h :	Semester: 1	
1	Course Code	ARP101	
2	Course Title	Communicative English-1	
3	Credit	2	
4	Contact Hours	1-0-2	
	(L-T-P)		
5	Course Status	Compulsory	
6	Course Objective	To minimize the linguistic barriers that emerge in varied socio- environments through the use of English. Help students to und different accents and standardise their existing English. Guide t to hone the basic communication skills - listening, speaking, rea writing while also uplifting their perception of themselves, givin confidence and building positive attitude. To help the students to gain confidence in the use of the writte spoken English and sharpen their listening skills, since the medi instruction during the course and the medium of documentation emergency health care in India will be English	erstand the students ading and ng them self- n and tum of
7	Course Outcome	After completion of this course, students will be able to: CO1: Write grammatically correct sentences CO2: Acquire wider vocabulary and use strategies for communication. CO3: demonstrate good speaking skills in academic and social CO4: Brainstorm and document key critical thoughts that will he their professional potential and availability of opportunities. CO5: Function and Communicate effectively in multi-disciplina through team work and improve inter-personal relationships, commanagement and leadership quality	contexts nelp maximize ry teams
	Course Description	The course is designed to equip students with varying levels of language comprehension, to communicate and work with each in varied workplace environments. The course begins with an in understanding of grammar and sentence construction, leads up comprehension of the written and spoken English language and both in the healthcare and professional working environment.	other easily n-depth o to easy
9	Outline Syllabus	Theory and Practical	
	Unit 1	Sentence Structure	CO Mapping
	Topic 1	Subject Verb Agreement	CO1





Topic 2	Parts of speech	CO1
Topic 3	Writing well-formed sentences	CO1
Unit 2	Vocabulary Building & Punctuation	
Topic 1	Homonyms/ homophones, Synonyms/ Antonyms	CO1, CO2
Topic 2	Punctuation/ Spellings (Prefixes-suffixes / Unjumbled Words)	
Topic 3	Conjunctions/Compound Sentences	CO1, CO2
Unit 3	Writing Skills	
Topic 1	Picture Description – Student Group Activity	CO3
Topic 2	Positive Thinking - Dead Poets Society-Full-length feature film Paragraph Writing inculcating the positive attitude of a learner through the movie SWOT Analysis – Know yourself	CO3, CO2, CO3
Topic 3	Story Completion Exercise –Building positive attitude - The Man from Earth (Watching a Full length Feature Film)	CO2, CO3
Topic 4	Digital Literacy Effective Use of Social Media	CO3
Unit 4	Speaking Skill	
Topic 1	Self-introduction/Greeting/Meeting people – Self branding	CO4
Topic 2	Describing people and situations - To Sir With Love (Watching a Full length Feature Film)	CO4
Topic 3	Dialogues/conversations (Situation based Role Plays)	CO4
Unit 5	Professional Skills Career Skills	
Topic 1	Exploring Career Opportunities	CO4, CO5
Topic 2	Brainstorming Techniques & Models	CO4, CO5
Topic 3	Social and Cultural Etiquettes	CO4, CO5
Topic 4	Internal Communication- Practicing handover and taking over	CO4, CO5
Unit 6	Leadership and Management Skills	
Topic 1	Managerial Skills	CO6
Topic2	Entrepreneurial Skills	CO6
Evaluations	Class Assignments/Free Speech Exercises / JAM Group Presentations/Problem Solving Scenarios/GD/Simulations (60% CA and 40% ETE	N/A
Texts & References Library Links	 Blum, M. Rosen. How to Build Better Vocabulary. London: Bloomsbury Publication Comfort, Jeremy (et.al). Speaking Effectively. Cambridge University Press 	



Mode of Examination	Theory				
Weightage Distribution	CA	MTE	ETE		
	60%	-	40%		
Text Book		Blum, M. Rosen. How to Build Better Vocabulary. London: Bloomsbury Publication			
Reference Book		Comfort, Jeremy (et.al). Speaking Effectively. Cambridge University Press			

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	2	1
CO2	2	1	2	1
CO3	2	1	2	1
CO4	2	1	2	1
CO5	1	1	1	1
Avg. PO attained	1.60	1.00	1.80	1.00



Schoo	ol: SSAHS	Batch: 2025-29				
Progr	am	Bachelor of Science (Emergency and Trauma Care Technology)				
Branc	ch:	Semester: 1				
1	Course Code	ETT1101				
2	Course Title	Overview of Human Anatomy, Physiology, Pharmacology, and MOI				
3	Credit	4				
4	Contact Hours (L-T-P)	2-2-0				
5	Course Status	Compulsory				
6	Course Objectives	 To develop a thorough knowledge of human anatomy and physiology, including the structure, organization, and relationships of the body's systems, organs, tissues, cells and locomotion. To integrate anatomical and physiological concepts to comprehend how the body functions as a whole To acquire a basic knowledge on how pathological changes in one system can affect others. To acquire the basic knowledge of pharmacology along with drug administration for use in emergencies. Tor provide through knowledge on injuries and their mechanisms 				
7	Course Outcome	At the end of the course, students will be able to: CO1: Define the anatomical structure of different body systems together with how these body systems work by themselves and with each other. CO2: Define the system / organ / body part and relate these to the anatomy and physiology of human body. CO3: Define the various types of pathological processes that can affect body systems and tissues, with the medical terminology. CO4: Define the pharmacological principles in treatment of diseases and injuries. CO5: Define the procedures for conduct of pharmacological interventions, such as for vascular access and medication administration. CO6: Understand how injuries impact & affect the human body and their consequences on other body parts				
	Course Description	This comprehensive course is designed to provide students with a holistic understanding about the structure and physiology of human body and how pathological processes result in disease. This becomes the basis for the understanding of therapeutics in emergency care. This course also introduce the students with drugs, its routes and administrations. Also this course enable students to understand the types of injuries and their mechanisms.				





9	Outline Syllabus	Theory	CO Mapping
	Unit 1A	Introduction to Anatomy and Physiology: Organ Systems. Planes for direction & movement. Types of cells and tissues and their functional characteristics, including the skin. Fluids in the body.	CO1
	Unit 1B	Musculoskeletal system structure, functions of different bones and joints, nutrition for bones and muscles and physiology of locomotion	CO2
	Unit 1C	Anatomy and Physiology of the Cardiovascular system, including the heart, blood vessels and their locations and the lymphatic system	CO2
	Unit 2A	Anatomy and Physiology of the Respiratory system. The physiology of ventilation, and the Roles of Oxygen and Carbon dioxide in the respiratory pathway	CO2
	Unit 2B	Anatomy and physiology of the Gastro intestinal system, including the oral structures, the digestive tract, liver, spleen and pancreas	CO2
	Unit 2C	Anatomy and Physiology of the Genito-urinary and Reproductive systems	CO2
	Unit 3A	Anatomy and Physiology of the Endocrine System	CO2
	Unit 3B	Anatomy and Physiology of the Neurological System, including the brain, spinal cord, peripheral and autonomic nervous	CO2
	Unit 3C	Anatomy and Physiology of the structures in the Head and Neck, including the sense organs	CO2
	Unit 4A	Pathophysiology of disease and injury, Medical terms and clinical manifestations	CO3
	Unit 4B	Signs and Symptoms in Disease and Consequences of disease	CO3
	Unit 4C	Exercises in disease pathology	CO3
	Unit 5A	Introduction to Pharmacokinetics and Pharmacodynamics, sources of drugs, drug approvals and drug nomenclature, classes of Drugs and Types, General properties of medication and drug storage	CO4
	Unit 5B	Medication administration and routes, vascular access and Medication administration: fluids and electrolytes, IV fluid composition	CO5
	Unit 5C	Injuries- Introduction Types of Injuries Mechanism of injuries- Motor vehicle crashes, Pedestrian injuries, skid and fall from height, stab wound, gunshot wound, injuries to skin	CO6



Mode of Examination	Theory				
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	2- Ar He 3- W	Elementary Pharmacology and Toxicology- RD Budhiraja Anatomy, Physiology & Disease: Foundation for the Health Professions, by Deborah Roiger and Nia Bullock Workbook for Anatomy, Physiology & Disease: Foundation for the Health Professions by Deborah Roiger and Nia Bullock			
Reference Book	Sin 2- Ro Di 3- Gr 4- Ga 5- Na ed 6- En	Last's Anatomy: Regional and Applied. By Chummy and Sinnatamby Ross and Wilson: Anatomy and Physiology in Health and Disease, 14th Edition Gray's anatomy Ganong's review of human physiology Nancy Caroline's Emergency Care in the Streets- ninth edition Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic			

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	2	2
CO2	2	2	2	2
CO3	2	3	2	2
CO4	2	3	2	2
CO5	2	3	2	2
CO6	2	2	2	1
Avg. PO attained	2.00	2.50	2.00	1.83



Scho	ol: SSAHS	Batch: 2025-29	
Prog	ram:	Bachelor of Science (Emergency and Trauma Care Techno	logy)
Bran	ch:	Semester: 1	
1	Course Code	ETT1102	
2	Course Title	Cardiovascular, Respiratory and Musculoskeletal Emergence	cies
3	Credit	3	
4	Contact Hours (L-T-P)	2-1-0	
5	Course Status	Compulsory	
6	Course Objective	 To provide the student with a focused understanding of t cardiovascular, respiratory and musculoskeletal systems, the functioning and the diseases that can affect the systems. To introduce the student to electrocardiograms and their To enable students to identify common cardiovascular, remusculoskeletal system disorders, understand their pathoph the basis for treatments. To train the students in assessment of disorders, aetiolog manifestation and treatment of these disorders and understated of appropriate drugs. 	interpretation espiratory, nysiology and y, clinical
7	Course Outcome	At the end of the course, students will be able to: CO1: Relate anatomical structures in the cardiovascula their anatomy and functioning in health and disease. CO2: Relate anatomical structures in the respiratory sy their functions in health and disease. CO3: Read ECGs, identify abnormalities and suggest trapproaches CO4: Define various diseases affecting the cardiovascursystem, their assessment and treatment CO5: Describe the common emergency respiratory diseased how to initiate treatment accordingly. CO6: Define the disorders affecting the musculoskeleta system, initial treatment of these and life and limb suppliers aid to injured patients in need CO7: Describe the use of pharmacological agents in the respiratory and musculoskeletal disorders.	stem to reatment clar orders al porting e CVS,
	Course Description	This course is designed to provide the student with an adeq understanding of the pathophysiology of diseases affecting cardiovascular system, respiratory system and musculoskel enable systematic evaluation of these patients, recognize er situations and provide initial care and stabilization, including of pharmacological agents for these disorders.	the etal systems, nergency
9	Outline Syllabus	Theory	CO Mapping





CO AS	
Heart, blood vessels, lymphatics, their distribution, relationships and their regulation, cardiac excitation	CO1
	CO1
The Heart as a Pump and circulation of blood	CO1
Pleura, Lungs and Bronchial Tree and their surface	CO2
markings and functions,	
Blood Vessels of the Lung, their relationships and	CO2
functions	
	CO2
	CO3
Symptoms and Signs of heart disease and their	CO3,CO4
<u> </u>	
1	CO3,CO4
	CO5
Symptoms and Signs of lung and their recognition	CO5
Principles and treatment of lung diseases	CO5
Upper and lower Limb Bones, spine, back and Muscles,	CO6
Joints, Movements and functional activities and	
regulations and mechanisms and pathology of	
musculoskeletal diseases and injuries	
Symptoms and Signs of Musculoskeletal illness and	CO6
	CO7
and musculoskeletal systems	
	relationships and their regulation, cardiac excitation, contraction and the role of the His Purkinje system Blood pressure, heart rate, cardiac output and circulatory parameters, the electrocardiogram (ECG) The Heart as a Pump and circulation of blood Pleura, Lungs and Bronchial Tree and their surface markings and functions, Blood Vessels of the Lung, their relationships and functions Mechanism and Mechanics of Respiration, Gas Exchange and Oxygen transport, including methods of measurement and regulation of respiration Mechanisms and Pathology of Ischaemic, Structural and other Heart Diseases Symptoms and Signs of heart disease and their recognition Principles and Practice of treatment of heart diseases Mechanisms and Pathology of Respiratory diseases and infections Symptoms and Signs of lung and their recognition Principles and treatment of lung diseases Upper and lower Limb Bones, spine, back and Muscles, Joints, Movements and functional activities and regulations and mechanisms and pathology of musculoskeletal diseases and injuries

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	1. Nancy	Caroline's Em	ergency Care in the	Streets- ninth
	edition	ı		
	2. Emergency Care and Transportation of the Sick and Injured		e Sick and Injured	
	by American Academy of Orthopaedic Surgeons (AAOS)		rgeons (AAOS)	
	3. Indian	Guidelines on	Basic Life Support.	Garg R, Ahmed
	SM, K	apoor MC, Mis	shra BB, Rao SC, Ka	landoor MV,
	Divatia JV, Singh B. Basic cardiopulmonary life support			
	(BCLS) for cardiopulmonary resuscitation by trained		by trained	
paramedics and medics outside the hospital. Indian J		al. Indian J		





12	
	 Anaesth. 2017 Nov;61(11):874-882. doi: 10.4103/ija.IJA_637_17. PMID: 29217852; PMCID: PMC5703000. 4. Garg R, Ahmed SM, Kapoor MC, Rao SC, Mishra BB, Kalandoor M V, Singh B, Divatia JV. Comprehensive cardiopulmonary life support (CCLS) for cardiopulmonary resuscitation by trained paramedics and medics inside the hospital. Indian J Anaesth 2017;61:883-94. 5. Kumar A, Aggarwal P. Basic life support. Natl Med J India 2023;36:29–35. DOI: 10.25259/NMJI_581_21 6. The ECG Made Easy by John Hampton, Joanna Hampton, David Adlam
Reference Book	 Cardiovascular Emergencies, by Amal Mattu Handbook of Pulmonary Emergencies by A. Medinger, S.V. Spagnolo

COs POs	PO1	PO2	PO3	PO4
CO1	3	2	2	2
CO2	3	2	2	2
CO3	3	3	2	2
CO4	3	3	2	2
CO5	3	3	2	2
CO6	3	3	2	2
CO7	2	3	2	2
Avg. PO attained	2.87	2.71	2.00	2.00



Schoo	School: SSAHS Batch: 2025-29			
Progr	Program: Bachelor of Science (Emergency and Trauma Care Technology)		Care Technology)	
Brand	ch:	Semester: 1		
1	Course Code	ETT1103		
2	Course Title	Healthcare System in India, Basics of Research	, and Burden of Diseases	
3	Credit	3		
4	Contact Hours (L-T-P)	2-1-0		
5	Course Status	Compulsory		
6	Course Objective	 To introduce the students to the system of healthcare as it currently exists in India and to the burden of disease in the country. To show some comparisons of other countries in the world, both in Asia and elsewhere. The student will also need to achieve an understanding of healthcare financing, such as the various government programs and insurance systems. To provide the basics of conduct of ethical research in the 		
7	Course Outcome	emergency environment. After completion of course students will be able to: CO1: Describe the healthcare system in India, regulations, understanding of universal health and health insurance, and understand some of the critical statistics that relate to quality of care. CO2: Describe the ethical principles in the provision of healthcare and learn how to adhere to such principles CO3: Describe the good clinical practices and research process CO4: Understand the basic epidemiology of disease and mortality in India and be able to understand basic comparisons of the Indian healthcare system and that of other countries		
	Course Description	CO5: Describe the government programs for healthcare in India This course takes the student through the system of healthcare as it currently exists in India and explores issues such as financing of healthcare, why diseases and injuries occur and the ethical dilemmas that exist in the provision of healthcare and then discusses how the burden of healthcare may be decreased through multiple strategies. It also provides an adequate understanding of the burden of diseases and good ethical practices in research		
9	Outline Syllabus	Theory	CO Mapping	
	Unit 1A	Organisation of Health services and healthcare delivery in India The National Healthcare Act and Role of Government in Healthcare	CO1	





Unit 1B	Universal Health Coverage and how it works	CO1
	Health Insurance- Public and private	
Unit 1C	Strategies to ensure Quality of Care	CO1
Unit 2A	Healthcare Statistics and Facts	CO2
Unit 2B	Usefulness of ethics and ethical standards in	CO2
	healthcare practice	
Unit 2C	Ethical Principles in Healthcare practice and	CO2
	Research	
	Case studies to identify ethical challenges	
Unit 3A	Research as the basis for healthcare practice	CO3
Unit 3B	Good Clinical Practice Guidelines Course	CO3
Unit 3C	Basic Biostatistics	
Unit 3D	The Research Process, Informed consent,	CO3
	and challenges in conducting research	
Unit 4A	Healthcare systems comparison with other	CO4
	countries	
Unit 4B	EMS comparison with other countries	CO4
Unit 4C	Statistics comparison with other countries	CO4
Unit 5A	Healthcare programs in India for public	CO5
Unit 5B	Special healthcare program in India	CO5
Unit 5C	Impact of healthcare programs in India	CO5

Mode of	Theory			
Examination				
Weightage	CA	MTE	ETE	
Distribution	20	20	60	
Text Book	1- Health	care system in India- Purohit,	Brijesh C.	
	2- Nancy	Caroline's Emergency Care in	the Streets	
	3- Emerg	ency Care and Transportation	of the Sick and Injured by American	
	Academy of Orthopaedic Surgeons (AAOS)			
	4- Garg R, Ahmed SM, Kapoor MC, Rao SC, Mishra BB, Kalandoor M V, Singl			
	Divatia JV. Comprehensive cardiopulmonary life support (CCLS) for			
cardiopulmonary resuscitation by trained paramedics and medics insi			ained paramedics and medics inside the	
	hospit	al. Indian J Anaesth 2017;61:8	83-94.	
Reference	1- https://apps.who.int/iris/rest/bitstreams/1415591/retrieve			
Book	2- https:/	//www.india.gov.in/nhm-healt	h-statistics-information-portal	
	3- India Health System Review by Sakthivel Selvaraj, Anup K Karan, Swati			
	Srivastava, Nandita Bhan,			
	4- Indran	il Mukhopadhyay. Health Syst	ems in Transition Vol. 11 No. 1 2022	





5- International Healthcare System Profiles – India. By Roosa Tikkanen, Robin Psborn, Elias Mossialos, Anan Djordjevic, George Wharton. 5 June 2020.

Principles of Health Care Ethics. Ann Lloyd, Raanan Gillon Report No. 201: Emergency Medical Care to Victims of Accidents and During Emergency Medical Condition and Women under Labour. https://www.advocatekhoj.com/library/lawreports/emergencymedicalcare/index.php?

POs COs	PO1	PO2	PO3	PO4
CO1	2	2	2	2
CO2	2	2	2	2
CO3	2	2	2	2
CO4	2	1	1	2
CO5	2	1	1	2
Avg. PO attained	2.00	1.60	1.60	2.00



Schoo	ol: SSAHS	Batch: 2025-29		
Progr	ram:	Bachelor of Science (Emergency and Trauma Care Te	echnology)	
Branc	ch:	Semester: 1		
1	Course Code	ETP1101		
2	Course Title	Anatomy, Physiology, Pathology and Pharmacology		
3	Credit	1		
4	Contact Hours (L-T-P)	0-0-2		
5	Course Status	Compulsory		
6	Course Objective	 To provide the student with demonstration of focus understanding of Human anatomy and physiology. To apply knowledge of anatomy and physiology to practice, including assessing patients, interpreting clir understanding the rationale behind clinical intervention. To acquire the basic knowledge of pharmacology a administration in emergencies. 	o clinical nical data, and ons	
7	Course Outcome	At the end of course students will be able to: CO1: Demonstrate labelling to identify the anatomica musculoskeletal, cardiovascular and respiratory system CO2: Demonstrate labelling to identify the anatomica genitourinary system, Nervous system, head and neck system. CO3: Demonstrate identifying the pathology of Musc Cardiovascular, Respiratory system and GIT CO4: Demonstrate identifying the pathology of genitosystem, Nervous system, head and neck and endocrine CO5: Demonstrate the IV access, cannulation, extern cannulation, and intra-osseous infusion and drug adm	m. al parts of and endocrine culoskeletal, ourinary e system al jugular vein inistration.	
	Course Description	This comprehensive course is designed for students to apply the theoretical knowledge of anatomy and physiology to practical approach in the clinical practices, interpreting clinical data, rationale behind clinical interventions and the pharmacological interventions including IV, IO access to the drug administration.		
9	Outline Syllabus	Practical	CO Mapping	
	Unit-1A	Practical demonstrations (labelling) in Anatomy and	CO1	
	Unit-1B	Physiology in Lab- Cell, Musculoskeletal Practical demonstrations (labelling) in Anatomy and Physiology in Lab- Cardiovascular, Respiratory system and GIT	CO1	
	Unit-1C	Practical demonstrations (labelling) in Anatomy and Physiology in Lab- Respiratory system and GIT	CO1	
	Unit-2A	Practical demonstrations in Anatomy and Physiology in Lab- genitourinary system	CO2	





Unit-2B	Practical demonstrations in Anatomy and Physiology in Lab- Nervous system	CO2
Unit-2C	Practical demonstrations in Anatomy and Physiology in Lab- Head and neck and endocrine system.	CO2
Unit-3A	Posting in emergency department: Observing Pathology in the Emergency Department- Musculoskeletal,	CO3
Unit-3B	Posting in emergency department: Observing Pathology in the Emergency Department- Cardiovascular	CO3
Unit-3C	Posting in emergency department: Observing Pathology in the Emergency Department- Respiratory system and GIT	CO3
Unit-4A	Posting in emergency department: Observing Pathology in the Emergency Department- genitourinary system, Nervous system, head and neck and endocrine system-1	CO4
Unit-4B	Posting in emergency department: Observing Pathology in the Emergency Department- genitourinary system, Nervous system, head and neck and endocrine system-2	CO4
Unit-4C	Posting in emergency department: Observing Pathology in the Emergency Department- genitourinary system, Nervous system, head and neck and endocrine system-3	CO4
Unit-5A	Simulation lab and ED Posting: IV techniques and administration, External jugular vein cannulation, intra-osseous infusion-1	CO5
Unit-5B	Simulation lab and ED Posting: IV techniques and administration, External jugular vein cannulation, intra-osseous infusion-2	CO5
Unit-5C	Simulation lab and ED Posting: IV techniques and administration, External jugular vein cannulation, intra-osseous infusion-3	CO5

Mode of Examination	Practical			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	1. Nancy	Caroline's Eme	ergency Care in the S	treets- ninth
	edition			
	2. Emerge	ency Care and T	Transportation of the	Sick and
	Injured by American Academy of Orthopedic Surgeons		lic Surgeons	
	(AAOS	5)		
	3. Essential Procedures for Emergency, Urgent, and Primary		nt, and Primary	
	Care Settings: A Clinical Companion. Theresa M. Cam		esa M. Campo,	
	Keith A	A Lafferty, Jenn	nifer L. Wilbeck, Jaco	b W. Ufberg





Reference Book	1- Workbook for Anatomy, Physiology & Disease: Foundation for the Health Professions by Deborah Roiger and Nia Bullock
	2- Last's Anatomy: Regional and Applied. By Chummy and Sinnatamby
	3- Ross and Wilson: Anatomy and Physiology in Health and Disease, 14th Edition
	4- Gray's anatomy: The Anatomical Basis of Clinical Practice
	5- Ruth Hull. Anatomy, Physiology, and Pathology, Third Edition

POs COs	PO1	PO2	PO3	PO4
CO1	2	1	2	1
CO2	2	1	2	1
CO3	2	2	2	1
CO4	2	2	2	1
CO5	2	3	2	1
Avg. PO attained	2.00	1.80	2.00	1.00



School: SSAHS		Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Bran	ch : BEPC	Semester: 1			
1	Course Code	ETP1102			
2	Course Title	Management of Cardio-Respiratory Disorders			
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	 To provide students a skill based focused understanding of the cardiovascular system and respiratory system and its functioning. To provide students a practical understanding on the respirator and cardiovascular diseases assessment and treatment that affect the systems. To enable students to be familiar with taking and identifying abnormalities in ECG To enable students to identify common cardiovascular and respiratory disorders and develop the skills of identifying and 			
7	Course Outcome	After completion of course students will be able to: CO1: Demonstrate the identification of parts of respirator and cardiovascular system. CO2: Demonstrate the taking vital signs CO3: Demonstrate the ECG taking with the appropriate techniques and monitoring it. CO4: Demonstrate the assessment of respiratory and cardiovascular system and practical procedures CO5: Demonstrate the physiological parameters of respirant cardiovascular system.			
	Course Description				
9	Outline Syllabus	Practical	CO Mapping		
	Unit-1A	Laboratory: Practical training in anatomy and physiology of Cardiovascular and Respiratory system-1	CO1		
	Unit-1B	Laboratory: Practical training in anatomy and physiology of Cardiovascular and Respiratory system-2	CO1		
	Unit-C	Laboratory: Practical training in anatomy and physiology of Cardiovascular and Respiratory system-3	CO1		
	Unit-2A	Simulation Lab: Measurement of Vital Signs-1	CO2		
	1	-	1		





Unit-2B	Simulation Lab: Measurement of Vital Signs-2	CO2
Unit-2C	Simulation Lab: Measurement of Vital Signs-3	CO2
Unit-3A	ECG Laboratory – Performing and Reading ECGs	CO3
	and ECG monitoring-1	
Unit-3B	ECG Laboratory – Performing and Reading ECGs	CO3
	and ECG monitoring-2	
Unit-3C	ECG Laboratory – Performing and Reading ECGs	CO3
	and ECG monitoring-3	
Unit-4A	Simulation Laboratory- Cardio-Respiratory Physical	CO4
	Examination-1	
Unit-4B	Simulation Laboratory- Cardio-Respiratory Physical	CO4
	Examination-2	
Unit-4C	Simulation Laboratory- Cardio-Respiratory Physical	CO4
	Examination-3	
Unit-5A	ED Posting- Respiratory and cardiovascular Practical	CO5
	Procedures (measuring physiological parameters)-1	
Unit-5B	ED Posting- Respiratory and cardiovascular Practical	CO5
	Procedures (measuring physiological parameters)-2	
Unit-5C	ED Posting- Respiratory and cardiovascular Practical	CO5
	Procedures (measuring physiological parameters)-3	

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book 1- Nancy Caroline's Emergency Care in the Streedition 2- Emergency Care and Transportation of the Significant Academy of orthopedic (AAOS)		of the Sick and		
	3- Clinical Methods: The History, Physical, and Laboratory Examinations. 3rd edition. Walker HK, Hall WD, Hurst JW, editors. Boston: Butterworths; 1990.			
Reference Book	 Cardiovascular Emergencies, by Amal Mattu Handbook of Pulmonary Emergencies by A. Medinger, S.V. Spagnolo\ Patient Assessment Practice Scenarios by Les Hawthorne 			



POs COs	PO1	PO2	PO3	PO4
CO1	2	2	2	1
CO2	3	2	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	2	2	1
Avg. PO attained	2.80	2.20	2.00	1.00



School: SSAHS		Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Branc	ch: BEPC	Semester: 1			
1 Course Code		ETP1103			
2	Course Title	History and Physical Examination			
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	To guide the student in the conducting of methodical assessment 1. To guide the students in history taking. 2. To guide the students in physical examination	patient		
7	Course Outcome Course Description	On completion of course students will be able to: CO1: Demonstrate the process of history taking from the patient, bystander, and relatives. CO2: Demonstrate physical examination techniques like inspection, palpation, percussion and auscultation in the normal subject. CO3: Demonstrate the systemic and system specific physical examination of the normal subject. CO4: Correlate history taking and physical examination findings. CO5: Demonstrate the step-by-step physical examination of patients with various presentations in case scenarios. This course is designed for students to practice history taking and physical examination of patients with a variety of disorders / injuries in the skills lab and in the Emergency Department.			
9	Outline Syllabus	Practical	CO Mapping		
,	Unit-1A	Demonstration and Practice- The Principles and Art of History taking in clinical care-1	CO1		
	Unit-1B	Demonstration and Practice- The Principles and Art of History taking in clinical care-2	CO1		
	Unit-1C	Demonstration and Practice- The Principles and Art of History taking in clinical care-3	CO1		
	Unit-2A	Demonstration and Practice- Inspection, palpation, percussion and auscultation-1	CO2		
	Unit-2B	Demonstration and Practice- Inspection, palpation, percussion and auscultation-2	CO2		
	Unit-2C	Demonstration and Practice- Inspection, palpation, percussion and auscultation-3	CO2		
	Unit-3A	Demonstration and simulation- Systematic and system-specific Physical Examination-1	CO3		





Unit-3B	Demonstration and simulation- Systematic and system-specific Physical Examination-2	CO3
Unit-3C	Demonstration and simulation- Systematic and system-specific Physical Examination-3	
Unit-4A	Simulated Case Scenario- Combining History and Physical Examination-1	CO4
Unit-4B	Simulated Case Scenario- Combining History and Physical Examination-2	CO4
Unit-4C	Simulated Case Scenario- Combining History and Physical Examination-3	CO4
Unit-5A	Practical: Assessments (Short and Long Cases)-1	CO5
Unit-5B	Practical: Assessments (Short and Long Cases)-2	
Unit-5C	Practical: Assessments (Short and Long Cases)-3	CO5

Mode of Examination	Practical			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	1- Hi	story and Physi	cal Examination, by	Paul Chan and
	Pe	ter Winkle		
Reference Book	1- Na	ncy Caroline's	Emergency Care in t	the Streets- ninth
	ed	ition		
	2- En	nergency Care a	and Transportation of	f the Sick and
	Inj	ured by Americ	can Academy of Orth	nopaedic Surgeons
	(A	AOS)		
	3- Pa	tient Assessmer	nt Practice Scenarios	by Les Hawthorne
4- Clinical Methods: The History, Physical		al, and		
	La	boratory Exami	nations. 3rd edition.	Walker HK,
	На	ıll WD, Hurst J	W, editors. Boston: E	Butterworths;
	19	90.		

POs COs	PO1	PO2	PO3	PO4
CO1	3	2	2	1
CO2	3	2	2	1
CO3	3	2	2	1
CO4	3	2	2	1
CO5	3	2	2	1
Avg. PO attained	3.00	2.00	2.00	1.00



School: SSAHS		Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Branch:		Semester: 1			
1	Course Code	ETP1104			
2	Course Title	Musculoskeletal System Disorders (PCN	MSD)		
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	 To enable students to be familiar with the musculoskeletal system including its functions and movements. To provide practical knowledge and skills to the students about the disorders, injuries including the assessment. To provide practical knowledge and skills to the student about the treatment of the musculoskeletal injuries and its disorders. 			
7	Course Outcome	After completion of course students will be able to: CO1: Demonstrate the movements and functional activities for regulation of Bones, Muscles, and Joints in the upper and lower extremities CO2: Demonstrate the examination of spinal column. CO3: Demonstrate coordinated examination of the upper limb, lower limb and back CO4: Demonstrate ability to identifying the signs and symptoms of musculoskeletal injuries and treatment. CO5: Demonstrate treatment procedures for musculoskeletal injuries.			
	Course Description	This course is designed to provide the strunderstanding of the musculo-skeletal sy regulation and assessment and treatment with system and maneuvers and procedu system management.	of the illness/disorders related		
9	Outline Syllabus	Practical	CO Mapping		
	Unit-1A	ED Attachment- Examining and Testing Upper Limb Bones, Muscles, Joints, Movements and functional activities-1	CO1,CO2		
	Unit-1B	ED Attachment - Examining and Testing Lower Limb Bones, Muscles, Joints, Movements and functional activities-2	CO1,CO2		
	Unit-1C	ED Attachment - Examining and Testing Lower Limb Bones, Muscles, Joints, Movements and functional activities-3	CO1,CO2		





Unit-2A	ED Attachment - Examining the Spinal Column, Back, Movements and	CO2
	functional activities-1	
Unit-2B	ED Attachment - Examining the Spinal	CO2
	Column, Back, Movements and	
	functional activities-2	
Unit-2C	ED Attachment - Examining the Spinal	CO2
	Column, Back, Movements and	
	functional activities-3	
Unit-3A	Simulation Lab- Examining	CO1,CO3
	Coordination and Regulation of Upper	
	Limb, Lower Limb and Back	
	Movements-1	
Unit-3B	Simulation Lab- Examining	CO1,CO3
	Coordination and Regulation of Upper	001,000
	Limb, Lower Limb and Back	
	Movements-2	
Unit-3C	Simulation Lab- Examining	CO1,CO3
Cint-3C	Coordination and Regulation of Upper	601,603
	Limb, Lower Limb and Back	
	Movements-3	
Unit-4 A	ED Attachment - Looking for	CO4
Oint-4 A	Symptoms and Signs of Musculo-	C04
	• •	
	skeletal illness and injury and their	
II. 4D	recognition	COA
Unit-4B	ED/Ortho ward Attachment- Principles	CO4
	and Practice of treatment of Musculo-	
11 40	skeletal illnesses and injuries-1	COA
Unit-4C	ED/Ortho ward Attachment- Principles	CO4
	and Practice of treatment of Musculo-	
77.0.7	skeletal illnesses and injuries-2	G0.1 G0.5
Unit-5A	Simulation Lab and ED Attachment-	CO4,CO5
	Practical Musculoskeletal Procedures	
	(Splinting of limbs and joints, Plaster	
	Cast application and removal, RICE	
	Treatment)-1	
Unit-5B	Simulation Lab and ED Attachment-	CO4,CO5
	Practical Musculoskeletal Procedures	
	(Splinting of limbs and joints, Plaster	
	Cast application and removal, RICE	
	Treatment)-2	
Unit-5C	Simulation Lab and ED Attachment-	CO4,CO5
	Practical Musculoskeletal Procedures	
	(Splinting of limbs and joints, Plaster	
	Cast application and removal, RICE	
	Treatment)-3	

Mode of Examination	Practical





Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book		Nancy Caroline's Emergency Care in the Streets- ninth edition			
Reference Book	In	- Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS)			
	La Ha	- Clinical Methods: The History, Physical, and Laboratory Examinations. 3rd edition. Walker HK, Hall WD, Hurst JW, editors. Boston: Butterworths; 1990.			

POs Cos	PO1	PO2	PO3	PO4
CO1	3	2	2	1
CO2	3	2	2	1
CO3	3	2	2	1
CO4	3	3	2	1
CO5	2	3	2	1
Avg. PO attained	2.80	2.40	2.00	1.00
attained				



Scho	ool: SSAHS	Batch: 2025-29				
Program		Bachelor of Science (Emergency and Trauma Care Technology)				
Bran	nch:	Semester: 1				
1	Course Code	ETP1105	ETP1105			
2	Course Title	Life Support Provider Training				
3	Credit	1				
4	Contact Hours (L-T-P)	0-0-2				
5	Course Status	Compulsory				
6	Course Objective	 To provide skills in assessment of patients with life threatening conditions To teach immediate interventional skills for life threatening conditions To Teach monitoring skills for patients recovering from life threatening conditions. To provide skills in provision of first aid 				
7	Course Outcome	On completion of course students will be able to: CO1- Demonstrate the recognise a patient with life threatening conditions and activation of emergency care systems CO2- Demonstrate the skills of cardiopulmonary resuscitation (CPR). CO3: Demonstrate the indications and use of an AED device CO4- Demonstrate assessment and immediate management of patients with medical life threatening conditions in a simulated environment. CO5- Demonstrate the provision of first aid in variety of simulated conditions including medical, trauma and environmental				
	Course Description	This course is designed to equip students with lifesaving skills for cardiac arrest and other life threatening conditions including medical, trauma and environmental				
9	Outline Syllabus	Practical	CO Mapping			
		Practical Training: Basic Cardiac Life Support Provider with AED use	CO1,CO2, CO2			
	Unit-1A	Assessment of patient and activation of EMS and Chain of survival-1	CO1			
	Unit-1B	Assessment of patient and activation of EMS and Chain of survival-2	CO1			
	Unit-1C	Assessment of patient and activation of EMS and Chain of survival-3	CO1			
	Unit-2A	Demonstration of cardiopulmonary resuscitation-1	CO2			
	Unit-2B	Demonstration of cardiopulmonary resuscitation-2 CO2				
	Unit-2C	Demonstration of cardiopulmonary resuscitation-3	CO2			
	Unit-3A	Use of AED-1 CO3				





Unit-3B	Use of AED-2	CO3
Unit-3C	Use of AED-3	CO3
	Practical Training: Life Supporting First Aid	
Unit-4A	Medical emergencies-1	CO4
Unit-4B	Medical emergencies-2	CO4
Unit-4C	Medical emergencies-3	CO4
Unit-5A	Trauma and environmental emergencies-1	CO5
Unit-5B	Trauma and environmental emergencies-2	CO5
Unit-5C	Trauma and environmental emergencies-3	CO5

Mode of Examination	Practica	Practical				
Weightage Distribution	CA	MTE	ETE			
	20	20	60			
Text Book	1-	1- Mosby's Paramedic Textbook2- First Aid and Emergency Care- N Harris				
	2-					
	3-	Emergency R	esponder: Advance	ed First Aid for Non-EMS		
		Personnel (EMR)-Chris Le Baudour				
Reference Book	SM Div (BC) para 201 PM 2. Gar Kali carc resu hos 3. Kur 202 4. Nar edit 5.	 Indian Guidelines on Basic Life Support. Garg R, Ahmed SM, Kapoor MC, Mishra BB, Rao SC, Kalandoor MV, Divatia JV, Singh B. Basic cardiopulmonary life support (BCLS) for cardiopulmonary resuscitation by trained paramedics and medics outside the hospital. Indian J Anaestl 2017 Nov;61(11):874-882. Doi: 10.4103/ija.IJA_637_17. PMID: 29217852; PMCID: PMC5703000. Garg R, Ahmed SM, Kapoor MC, Rao SC, Mishra BB, Kalandoor M V, Singh B, Divatia JV. Comprehensive cardiopulmonary life support (CCLS) for cardiopulmonary resuscitation by trained paramedics and medics inside the hospital. Indian J Anaesth 2017;61:883-94. Kumar A, Aggarwal P. Basic life support. Natl Med J India 2023;36:29–35. DOI: 10.25259/NMJI_581_21 Nancy Caroline's Emergency Care in the Streets- ninth edition 				



Pos Cos	PO1	PO2	PO3	PO4
CO1	3	2	2	1
CO2	2	3	2	1
CO3	3	2	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.80	2.60	2.00	1.00



2nd Semester



Program Structure Template School of Allied Health Sciences Bachelor of Science (Emergency and Trauma Care Technology) Batch: 2025-29

TERM:2

Sr. No. Subject Code				eachi Loac	_	_	Core/Ele ctive/Pr e	Type of Course
		Subject	L T		Р	Cre dit	Requisit e/Co Requisit e	CC/AEC C/SEC/D SE
Theor	У							
1		Communicative English- 2	1	0	2	2	Minor	AEC
		Gastrointestinal, Haematological, Renal and Urological Emergencies						
2	ETT1121		2	1	0	3	Major	CC
3	ETT1122	Basic, Advanced Airway management, and Trauma Care Management	1	2	0	3	Major	СС
4	ETT1123	Ethics in Research, Topic selection, and literature review		0	0	2	Major	СС
5	ETT1124	Introduction to Community, Pre- Hospital, Emergency Department Based care	2	0	0	2	Major	СС
6	ETT1125	Basic Principles of Management	1	1	0	2	Major	CC
Practi	ical Courses							
7	ETP1121	Gastrointestinal, Haematological, Renal and Urological Emergencies	0	0	4	2	Major	СС
		Basic and Advanced Airway						
8	ETP1122	management, Emergency Trauma Care Management	0	0	6	3	Major	СС
9	ETP1123	Community, Pre- Hospital, Emergency Department Based care	0	0	2	1	Major	СС
		Total Hours	9	4	14	20		



Schools: SSAHS		Batch: 2025-2029					
Progra	am	Bachelor of Science (Emergency and Trauma Care Technology)					
Branc	h :	Semester: 2					
1	Course Code						
2	Course Title	Communicative English-2					
3	Credit	2					
4	Contact Hours (L-T-P)	1-0-2					
5	Course Status	Compulsory					
6	Course Objective	To Develop LSRW skills through audio-visual language acquirement, creative writing, advanced speech et al and MTI Reduction with the aid of certain tools like texts, movies, long and short essays.					
7	Course Outcome	After completion of this course, students will be able to: CO1: Synthesize complex concepts and present them in creative CO2 Develop MTI Reduction/Neutral Accent through Classrood Practice CO3: Determine their role in achieving team success through strategies for effective communication with different people CO4: Acquire satisfactory competency in use of Quantitative Logical Reasoning CO5: Realize their potentials as human beings and conduct properly in the ways of world.	om Sessions & ough defining aptitude and				
8	Course Description	The course takes the learnings from the previous semester to an advanced level of language learning and self-comprehension through the introduction of audio-visual aids as language enablers. It also leads learners to an advanced level of writing, reading, listening and speaking abilities, while also reducing the usage of L1 to minimal in order to increase the employability chances.					
9	Outline Syllabus	Theory					
	Unit 1	Acquiring Vision, Goals and Strategies through Audio-visual Language Texts	CO Mapping				
	Topic 1	Pursuit of Happiness / Goal Setting & Value Proposition in life CO1					
	Topic 2	12 Angry Men / Ethics & Principles	CO1				
	Topic 3	The King's Speech / Mission statement in life strategies & CO1					
	Unit 2	Creative Writing					
	Topic 1	Story Reconstruction - Positive Thinking	CO2				
	Topic 2	Theme based Story Writing - Positive attitude	CO2				





Topic 3	Learning Diary Learning Log – Self-introspection	CO2
Unit 3	Writing Skills 1	
Topic 1	Précis	CO2
Topic 2	Paraphrasing	CO2
Topic 3	Essays (Simple essays)	CO2
Unit 4	MTI Reduction/Neutral Accent through Classroom Sessions & Practice	
Topic 1	Vowel, Consonant, sound correction, speech sounds, Monotones, Diphthongs and Tripthongs	СОЗ
Topic 2	Vowel Sound drills , Consonant Sound drills, Affricates and Fricative Sounds	CO3
Topic 3	Speech Sounds Speech Music Tone Volume Diction Syntax Intonation Syllable Stress	CO3
Unit 5	Gauging MTI Reduction Effectiveness through Free Speech	
Topic 1	Jam sessions	CO3
Topic 2	Extempore	CO3
Topic 3	Situation-based Role Play	CO3
Unit 6	Leadership and Management Skills	CO4
Topic 1	Innovative Leadership and Design Thinking	CO4
Topic 2	Ethics and Integrity	CO4
Unit 7	Universal Human Values	
Topic 1	Love & Compassion, Non-Violence & Truth	CO5
Topic 2	Righteousness, Peace	CO5
Topic 3	Service, Renunciation (Sacrifice)	CO5
Unit 8	Introduction to Quantitative aptitude & Logical Reasoning	
Topic 1	Analytical Reasoning & Puzzle Solving	CO6
Topic 2	Number Systems and its Application in Solving Problems	CO6
Evaluations	Class Assignments/Free Speech Exercises / JAM Group Presentations/Problem Solving Scenarios/GD/Simulations (60% CA and 40% ETE	N/A
Texts book	 Wren, P.C. & Martin H. High English Grammar and Composition, S. Chand & Company Ltd, New Delhi. Blum, M. Rosen. How to Build Better Vocabulary. London: Bloomsbury Publication Comfort, Jeremy, et al. Speaking Effectively. Cambridge University Press. 	
Reference	o The Luncheon by W. Somerset Maugham -	
Book	http://mistera.co.nf/files/sm_luncheon.pdf	





	24 A1			
PSOs Cos	P1	PO2	PO3	PO4
CO1	2	1	2	1
CO2	2	1	2	1
CO3	2	1	2	1
CO4	2	1	2	1
CO5	2	1	2	1
Avg. PO attained	2.00	1.00	2.00	1.00



Schoo	ol: SSAHS	Batch: 2025-29				
Progr	am	Bachelor of Science (Emergency and Trauma Care Technology)				
Branc	h:	Semester: 2				
1	Course Code	ETT1121				
2	Course Title	Gastrointestinal, Haematological, Renal and Urologic	al Emergencies			
3	Credit	3				
4	Contact Hours (L-T-P)	2-1-0	2-1-0			
5	Course Status	Compulsory				
6	Course Objective	 To provide knowledge on the anatomy, physiology of the gastrointestinal, hepatological, haematological, renal and urological system To provide knowledge on the aetiology, physiology, clinical manifestation and treatment of the disorders related to the gastrointestinal, hepatological, haematological, renal and urological system To provide knowledge about blood gases and the acid based disorders in the human body 				
7	Course Outcome	At the end of course students will be able to: CO1: Relate the anatomy and physiology of the gastrointestinal and hepatological systems to disorders of these systems and to their assessment and management. CO2: Relate the anatomy and physiology of the haematological system to its disorders, their assessment and management. CO3: Relate the anatomy and physiology of the renal systems to the disorders of these systems and to their assessment and management CO4: Relate the anatomy and physiology of the urological systems to the disorders of these systems and to their assessment and management CO5: Describe the use of blood gases in the recognition and management of acid base disorders				
	Course Description	This course the principles of the management of gastrointestinal, hepatological, haematological, renal and urological system disorders, including acid base disorders in the human body				
9	Outline Syllabus	Theory				
	Unit 1A	Introduction, anatomy and physiology of gastrointestinal hepatological and haematological system	CO1, CO2			
	Unit 1B	Aetiology, pathology, clinical manifestations, and principles of management of gastrointestinal hepatological and haematological disorders	CO1,CO2			





Unit 1C	Clinical aspects, including management of Gastro- Intestinal bleed, oesophageal varices, Mallory Weiss syndrome, haemorrhoids, Peptic Ulcer Diseases, cholecystitis	CO2
Unit 2A	Clinical aspects, including management of Appendicitis, Diverticulitis, pancreatitis, ulcerative colitis, Chron's disease	CO2
Unit 2B	Clinical aspects, including management of Gastroenteritis, hepatitis and bowel obstructions, Neonatal jaundice, biliary atresia, ingestion of foreign bodies, Meckel diverticulum	CO2
Unit 2C	Blood, its components, disorders and management, such as Anaemia, Leukemia, Lymphoma, Polycythemias, Hemophilia, Sickle cell disease, myeloma	CO2
Unit 3A	Anatomy and physiology of the renal and urological systems	CO3
Unit 3B	Disorders of the renal and urological system and their Pathophysiology	CO3
Unit 3C	Clinical aspects of Acute renal failure, chronic renal failure, stones and urinary tract infections and their management	CO4
Unit 4A	Clinical aspects of Glomerulonephritis, Polycystic kidney disease, urinary incontinence and their management	CO4
Unit 4B	Blood gases- an Introduction	CO5
Unit 4C	Normal blood gas values and its regulation in the human body	CO5
Unit 5A	An introduction n to Acid base disorders and blood gas analyses	CO5
Unit 5B	Normal blood gas values and their regulations in human body	CO5
Unit 5C	Acid base disorders and their treatment	CO5

Mode of Examination	Theory	Theory					
Weightage Distribution	CA	CA MTE ETE					
	20	20	60				
Text Book	Nai	Nancy Caroline's Emergency Care in the Streets					
Reference Book	2.	 Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS) Workbook for Anatomy, Physiology & Disease: Foundation for the Health Professions by Deborah Roiger and Nia Bullock Patient Assessment Practice Scenarios by Les Hawthorne 					





4. MSD Manual: Metabolic and Endocrine Disorders. Professional version.

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	3.00	3.00	2.00	1.00



School: SSAHS Batch: 2025-29						
Branch: Course Code ETT1122						
Course Title	Progr	ram	Bachelor of Science (Emergency and Trauma Care Technology)			
Course Title	Branc	ch:	Semester: 2			
Management O3	1	Course Code	ETT1122			
Course Status	2	Course Title		Care		
Course Status Compulsory	3	Credit	03			
1- To provide knowledge on patient's airway and its maintenance with adjuncts. 3. To explain the mechanisms of oxygen delivery devices and ventilation techniques. 4. To provide knowledge on basic and advanced airway management techniques. 5. To provide knowledge on skills to be used by community first responders and provision of basic trauma care to the patients. At the end of course students will be able to: CO1: Describe the upper and lower airway, opening, clearing and maintenance of the airway by using basic techniques and airway adjuncts. CO2: Describe advanced airway management techniques, including intubation and extubation techniques and procedures. CO3: Describe the skills used by community first responders and care that can be given in medical, trauma and environmental emergencies in the community CO4: Describe the characteristics of the trauma scene, types and mechanisms of emergencies, and step-by-step trauma patient assessment CO5: Describe the care that needs to be rendered to the trauma patient in different types of injuries. This course is designed to make the students familiar with assessment of the airway and the use of basic and advanced airway techniques, community first responder first aid and the assessment and initial management of trauma casualties 9 Outline Syllabus Theory Unit 1A Anatomy of airway, ventilation and respiration Airway evaluation and airway management Airway obstruction, suctioning. Unit 1B Airway adjuncts, maneuvers, supplemental oxygen Oxygen delivery devices.	4	Contact Hours (L-T-P)	1-2-0			
with adjuncts. 3. To explain the mechanisms of oxygen delivery devices and ventilation techniques. 4. To provide knowledge on basic and advanced airway management techniques. 5. To provide knowledge on skills to be used by community first responders and provision of basic trauma care to the patients. 7 Course Outcome At the end of course students will be able to: CO1: Describe the upper and lower airway, opening, clearing and maintenance of the airway by using basic techniques and airway adjuncts. CO2: Describe advanced airway management techniques, including intubation and extubation techniques and procedures. CO3: Describe the skills used by community first responders and care that can be given in medical, trauma and environmental emergencies in the community CO4: Describe the characteristics of the trauma scene, types and mechanisms of emergencies, and step-by-step trauma patient assessment CO5: Describe the care that needs to be rendered to the trauma patient in different types of injuries. Course Description This course is designed to make the students familiar with assessme of the airway and the use of basic and advanced airway techniques, community first responder first aid and the assessment and initial management of trauma casualties 9 Outline Syllabus Theory Unit 1A Anatomy of airway, ventilation and respiration Airway evaluation and airway management Airway obstruction, suctioning. Unit 1B Airway adjuncts, maneuvers, supplemental oxygen CO1 Oxygen delivery devices.	5	Course Status	Compulsory			
4. To provide knowledge on basic and advanced airway management techniques. 5. To provide knowledge on skills to be used by community first responders and provision of basic trauma care to the patients. At the end of course students will be able to: CO1: Describe the upper and lower airway, opening, clearing and maintenance of the airway by using basic techniques and airway adjuncts. CO2: Describe advanced airway management techniques, including intubation and extubation techniques and procedures. CO3: Describe the skills used by community first responders and care that can be given in medical, trauma and environmental emergencies in the community CO4: Describe the characteristics of the trauma scene, types and mechanisms of emergencies, and step-by-step trauma patient assessment CO5: Describe the care that needs to be rendered to the trauma patient in different types of injuries. This course is designed to make the students familiar with assessment of the airway and the use of basic and advanced airway techniques, community first responder first aid and the assessment and initial management of trauma casualties 9 Outline Syllabus Theory Unit 1A Anatomy of airway, ventilation and respiration Airway evaluation and airway management Airway obstruction, suctioning. Unit 1B Airway adjuncts, maneuvers, supplemental oxygen Oxygen delivery devices.	6	Course Objective	with adjuncts. 3. To explain the mechanisms of oxygen delivery dev			
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9 Outline Syllabus Theory Unit 1A Anatomy of airway, ventilation and respiration Airway evaluation and airway management Airway obstruction, suctioning. Unit 1B Airway adjuncts, maneuvers, supplemental oxygen Oxygen delivery devices.	7		CO1: Describe the upper and lower airway, open clearing and maintenance of the airway by using techniques and airway adjuncts. CO2: Describe advanced airway management techniques are procedures. CO3: Describe the skills used by community first and care that can be given in medical, trauma and environmental emergencies in the community CO4: Describe the characteristics of the trauma seand mechanisms of emergencies, and step-by-step patient assessment CO5: Describe the care that needs to be rendered trauma patient in different types of injuries. This course is designed to make the students familiar	cene, types o trauma to the with assessment		
Unit 1A Anatomy of airway, ventilation and respiration Airway evaluation and airway management Airway obstruction, suctioning. Unit 1B Airway adjuncts, maneuvers, supplemental oxygen Oxygen delivery devices. CO1			community first responder first aid and the assessmen	•		
Airway evaluation and airway management Airway obstruction, suctioning. Unit 1B Airway adjuncts, maneuvers, supplemental oxygen Oxygen delivery devices.	9	-				
Oxygen delivery devices.		Unit 1A	Airway evaluation and airway management	CO1		
		Unit 1B		CO1		
Unit 1C Endotracheal Intubation CO2		Unit 1C	Endotracheal Intubation	CO2		





		One thank a literature No. 1 1 1 1 1 1 1 1	
		Oro-tracheal intubation, Naso-tracheal intubation	
		Trans-illumination technique of intubation, video	
		laryngoscopy and extubation	
	Unit 2A	Pediatric intubation	CO2
		Supraglotic and Multi-lumen airways	
	Unit 2B	Pharmacological adjuncts for airway management	CO2
		Surgical airway management techniques	
	Unit 2C	Special considerations in patients with difficult	CO1,CO2
		airways	, , , , ,
	Unit 3A	Community first Responder skills and knowledge-	CO3
	onic s/ c	Scene survey in the event of injuries	005
		Life threatening condition and interventions	
		Life threatening condition and interventions	
	Unit 3B	Community first Dospandors Madical Emergancies	CO3
	Offic 3B	Community first Responders- Medical Emergencies	COS
		and first aid	
	Linit 2C	First aid pulsarials in transcens and a set of the	603
	Unit 3C	First aid principles in trauma and non-trauma	CO3
		emergencies	
		First-aid for Environmental Emergencies	
	Unit 4	Basic Trauma Life Support Provider	CO4
	Unit 4A	Primary survey and secondary survey	CO4
		Critical interventions in trauma	
		Head and face injuries	
		Assessment and management of injuries to Skull	
		and facial bones, eyes, ears teeth, mouth, anterior	
		part of neck, brain, face	
	Unit 4B	Spine Injuries: Anatomy, Pathophysiology, patient	CO4
		assessment, management, treatment,	
		pharmacotherapy of spinal cord injury,	
		complications of spinal cord injuries.	
	Unit 4C	Thoracic Injuries: Anatomy, Physiology and	CO4
		Pathophysiology of thoracic injuries, General	
		assessment and management and treatment of	
		Specific injuries	
	Unit 5A	Abdominal Injuries: mechanism of abdominal	CO5
	Offic 3A	_ ·	603
		injuries, Pathophysiology, assessment,	
		management of abdominal injuries	
		Pelvic injuries	
	Unit 5B	Musculoskeletal Injuries: Patterns and mechanism	CO5
		of musculoskeletal injuries	
		• Fractures	
		 Ligament injury and dislocation 	
		Muscle and tendon injuries	
		• Arthritis	
		Amputations	
L	ı	1 2	ı





	LacerationVascular injuries	
Unit 5C	Burns and scalds: mechanisms of injury, effects, assessment and initial management. • Thermal burns • Chemical burns • Electrical burns • Radiation burns	CO5
Unit 5D	Principles of lifting and moving General interventions and Complications Usage of equipment for immobilization and transportation of victim. Management of pregnant and paediatric patients with trauma Special trauma situation such as thermal injuries, electrocution and lightning injuries	CO5

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	Le 2. Fir Ed 3. Na edi 4. Int Pro 5. En	thbridge st Responders ition. By Micha incy Caroline's ition ernational Tran oviders. Roy Al nergency Care a	Handbook. An Intel L. Madigan Emergency Care in Ima Life Support for Ison, John Campbell.	the Sick and Injured
Reference Book	 1. Handbook of Pulmonary Emergencies by A. Medinge S.V. Spagnolo 2. Basic airway management in adults. Kathleen A Wittels, Ron M Walls, Jonathan Grayzel. UpToDate 			

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	3.00	3.00	2.00	1.00



School: SSAHS		Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Branch:		Semester: 2			
1	Course Code	ETT1123			
2	Course Title	Ethics in Research, Topic selection, and literature re	eview		
3	Credit	2			
4	Contact Hours (L-T-P)	2-0-0			
5	Course Status	Compulsory			
6	Course Objective	 To provide knowledge on the ethics in emer and practice Top provide understanding on selection of retopics and conduct of literature search 			
7	Course Outcome	At the end of the course, students will be able to: CO1: Describe the principles of emergency care research CO2: Describe the process of searching and selecting research topic. CO3: Describe the process of literature search in emergency care research CO4: Describe the ethical and legal issues in emergency care research CO5: Conduct review of published research			
	Course Description	This course is designed to teach the ethical and leg practices in emergency care setting, introduce the emergency care research and teach them to condusearch critically appraise published research papers	students to ct literature		
9	Outline Syllabus	Theory			
	Unit 1A	Introduction to emergency care research	CO1		
	Unit 1B	Principles of quantitative research	CO1		
	Unit 1C	Principles of qualitative research	CO1		
	Unit 2A	Choosing the research topic	CO2		
	Unit 2B	Selection of Emergency Care Research topic	CO2		
	Unit 2C	Exercises in research topic selection	CO2		
	Unit 3A	Introduction to literature search	CO3		
	Unit 3B	Introduction to the Cochrane Collaboration	CO3		
	Unit 3C	Exercises in conduct of literature search	CO3		
	Unit 4A	Introduction to ethics in healthcare	CO4		
	Unit 4B	Ethics and legal challenges in emergency care	CO4		
	Unit 4C	Review of ethical and legal issues in emergency care	CO4		
	Unit 5A	Reviewing a research paper-1	CO5		
	OTHE JA				





A STATE OF THE STA				
	Unit 5C	Reviewing a research paper-3	CO5	

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	The ethical colow- and midde published lite Willem Stasse Volume 12, Is Millum J, Bee AA, Newbern ethics in low-Glob Health. 10.1136/bmjg PMC6666811 Taquette, S. Health. 10.10.0000000000000000000000000000000	onsiderations for fle-income countrierature. Sarah I en. African Journ sue 1, March 202 ecroft B, Hardcasty JA, Saenz C. income and mid 2019 Jul 29; h-2018-001260. R., & Borges da I mas in Qualitatiview. Internation g/10.1177/16094 Wright, Ethical making the case thics', Internation mber 2020, g/10.1093/inthea Lu Y. Ethics & Arns and Related SHealthcare. A g/10.3390/ai4010 ataria H, Dhawaning and identification and identification in the complex control of the complex control of the control of th	Emergency care research dle-income countries. BMJ 4(Suppl 6):e001260. doi: PMID: 31406598; PMCID: Matta Souza, L. M. (2022). tive Research: A Critical nal Journal of Qualitative 21. 069221078731 research in global health for a broader understanding al Health, Volume 12, Issue Pages 515–517, alth/ihaa053 AI: A Systematic Review on strategies for Designing with J. 2023; 4(1):28-53. 0003 an I. Literature search for cation of research problem. Sep;60(9):635-639. doi: 27729689; PMCID: Information Effectively. tion LibGuides Literature ie.edu.sg/literature search Overview. MIT Libraries. of Technology.
Reference Book	Prin	ciples of Heal	Ith Care Ethics. A	ann Lloyd, Raanan
	Gill	on		



POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	3
CO2	1	1	1	3
CO3	1	1	1	3
CO4	1	1	1	3
CO5	1	1	1	3
Avg. PO attained	1.00	1.00	1.00	3.00



School: SSAHS		Batch: 2025-29			
Progr	am	Bachelor of Science (Emergency and Trauma Care T	echnology)		
Branch :		Semester: 2			
1	Course Code	ETT1124			
2	Course Title	Introduction to Community, Pre- Hospital, Emergence Based care	Introduction to Community, Pre- Hospital, Emergency Department Based care		
3	Credit	2			
4	Contact Hours (L-T-P)	2-0-0			
5	Course Status	Compulsory			
6	Course Objective	 To enhance the knowledge of students on pre-hospital emergency care To provide students with knowledge of appropriate communication modes while in pre-hospital care setting To equipped students with the knowledge of community based emergency care To enhance the knowledge of students about care provided in the Emergency Department and in the inhospital setting. 			
7	Course Outcome	At the end of course students will be able to: CO1: Describe the pre-hospital emergency care principles and the approach to emergency care in the pre-hospital setting. CO2: Describe the various modes of communications in pre-hospital emergency care CO3: Describe the principles community based emergency care including in medical, trauma, environmental, psychological pediatrics and geriatrics cases CO4: Describe the emergency department and its operation CO5: Describe the care given in the hospital environment.			
	Course Description	This course provide knowledge on community emergency hospital emergency care, emergency department care operations & care given in the hospital.			
9	Outline Syllabus	Theory			
	Unit 1A	Introduction to Pre-hospital emergency care, Importance and scope Roles and Responsibilities of pre-hospital care providers	CO1		
	Unit 1B	Patient Assessment in the pre-hospital emergency care Setting, including Scene survey and crime scene management	CO1		
	Unit 1C	Primary survey, triaging the patient in field and critical interventions during the primary survey	CO1		





Unit 10)	Secondary principles and step survey	CO1
Unit 18		History taking and Vital Signs monitoring	CO1
Unit 2A	A	Ambulance call centres and Modes of transferring data to the call centre and to the receiving hospital.	CO2
Unit 21	В	Provision of emergency care during transport and medical oversight	CO2
Unit 20	С	Transfer of care to emergency care Facilities and Handing over patients to the receiving facility	CO2
Unit 3	4	Community Based Emergency care principles	CO3
Unit 3E	3	Emergencies that can be managed in the community and modes of provision of such care Enhancement of community health through involvement of paramedics	CO3
Unit 30	C	Use of equipment and procedures/scope of community-based emergency care	CO3
Unit 31	D	Community health enhancement and prevention of emergencies in the community	CO3
Unit 4	4	Emergency department protocols for Medical, trauma and environmental emergencies and for Paediatric and geriatric patients	CO4
Unit 4E	3	Overview of emergency department, Equipment and procedures in emergency department	CO4
Unit 40	2	Categorization of patients in the Emergency Department, ED layout and operations	CO4
Unit 5	Α	Hospital based care in general wards	CO5
Unit 5	3	Hospital based care in intensive care units	CO5
Unit 50	C	Rapid response and code blue teams	CO5

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	Co Ni Sc 2. E. bas acc Po 3. Na ed: 4. En	shnawbe Aski hool of Medicin Roberts, N M sed models of ecident and em licy. Volume 4 ancy Caroline's ition hergency Care a	erBurgh D, Ritchi d Emergency Care: A Nation. Thunder Bayne, 2014. www.nosmays. Can primary case ergency (A & E) of 4, Issue 3., June 1996; Emergency Care in and Transportation of demy of Orthopedic States.	An Open Report for y: Northern Ontario a.ca/cbec re and community-itute for the hospital department? Health 8, Pages 191-214 at the Streets- ninth





5. Essential Procedures for Emergency, Urgent, and Primary Care Settings: A Clinical Companion. Theresa M. Campo, Keith A Lafferty, Jennifer L. Wilbeck, Jacob W. Ufberg
Nikhil Tambe. Emergency Medicine in India – A Dream. https://coreem.net/blog/random-foamed/em-in-india/
2. Rajasulochana SR, Maurya DS. 108 in Crisis: Complacency and Compromise Undermine Emergency Services' Potential. Economic & Political Weekly. Vol. 53, Issue No. 25, 23 Jun, 2018

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	3	2	2	1
CO3	3	3	2	1
CO4	1	1	1	1
CO5	1	3	2	1
Avg. PO attained	2.20	2.40	1.80	1.00



Schoo	ol: SSAHS	Batch: 2025-29			
Progr	ram	Bachelor of Science (Emergency and Trauma Care Technology)			
Brand	ch:	Semester: 2			
1	Course Code	ETT1125			
2	Course Title	Basic Principles of Management			
3	Credit	02			
4	Contact Hours (L-T-P)	1-1-0			
5	Course Status	Compulsory			
6	Course Objective	 To provide knowledge on managerial skills in the setting of patient care To create an understanding of the importance of critical thinking and decision during patient care activities To emphasize the importance of effective communication in team dynamics and team effectiveness 			
7	Course Outcome	At the end of course students will be able to: CO1: Describe the general management concepts for patient care in various emergency care environments CO2: Understand the implications of human resources, and operations, financial and marketing management in emergency care. CO3: Understand the importance and implications of decision making in emergency patient care settings CO4: Describe and explain the modes of communication in emergency care settings CO5: Appreciate the importance of understanding team dynamics and clear communication during emergency patient care.			
	Course Description	This course introduces students to management printhinking and decision making, team communication, dynamics and effectiveness so as to build up their madecision making skill and analytical skills allowing the more effectively in teams.	and team anagerial		
9	Outline Syllabus				
	Unit 1A	Introduction of management and its basic principles General Management concepts	CO1		
	Unit 1B	General management concepts for emergency care professionals	CO1		
	Unit 1C	Operations management in emergency care situations, such as in pre-hospital care, community emergency care and hospital-based emergency care.	CO2		
	Unit 2A	Human Resource management for emergency care environments	CO2		
	Unit 2B	Financial Management of emergency care services	CO2		





Unit 2C	Marketing Management of emergency care	CO2
Unit 3A	Scenario based Critical thinking and decision	CO3
	making in emergency pre-hospital care settings	
Unit 3B	Critical thinking and decision making in hospital	CO3
	emergency care settings	
Unit 3C	Critical thinking and decision making in Community	CO3
	based emergency care settings	
Unit 4A	Importance of Communication soft skills	CO4
Unit 4B	Modes of communication, Communication in	CO4
	emergency pre-hospital community care and	
	emergency in-hospital settings	
Unit 4C	Communication Etiquette, Clear and close loop	CO4
	communication	
Unit 5A	Team Dynamics and effectiveness	CO5
Unit 5B	Scenarios based Communication training-1	CO5
Unit 5C	Scenarios based Communication training-2	CO5

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	2. Emer Amer Amer 3. Clinic Exam Bosto 4. Decis iCert mana 5. Thore Mori Auge T. Cr Asser the F doi: PMC 6. Abre Orga Decis Artic	rican Academy of ocal Methods: The innations and editions: Butterworths; 19 sion Making in Marglobal. https://sigement/detail.nhill-Miller B, Cosseau T, Bourgeovereau-Landais M, Meativity, Critical The sament, Certification uture of Work and 10.3390/jintelligen 10054602. u, Jason; Baker, nizational Handbosion Making" (2011 les. 19. https://nsuv	amarda A, Mercier Mis-Bougrine S, Vinchologourey F, Feybesse C, Sainking, Communication on, and Promotion of 21st Education. J Intell. 202 ce11030054. PMID: 3 Susan; and Jayson-book to Promote Critical College of works.nova.edu/fse_stuar	and Laboratory (Hurst JW, editors.) Types, and Process. decision-making-in- M, Burkhardt JM, n F, El Hayek S, Sundquist D, Lubart , and Collaboration: at Century Skills for 3 Mar 15;11(3):54. 6976147; PMCID: Polk, Ruth, "The cal Thinking and Education: Student
Reference Book	2- Hand Spag	book of Pulmona nolo	ncies, by Amal Mattuary Emergencies by Actice Scenarios by Les H	





- 4- Why Managers Should Involve Their Team in the Decision-Making Process. Havard Business School Online. Business Insights. https://online.hbs.edu/blog/post/team-decision-making and other links in this document.
- 5- David S. Bright, Anastasia H. Cortes. Principles of Management. 2019. https://openstax.org/books/principles-management/pages/1-introduction
- 6- Everhour blog: Project Management. Team Dynamics: Understanding and Improving Group Interactions. https://everhour.com/blog/team-dynamics/
- 7- Team Dynamics: Problem-Solving and Decision Making. https://guides.himmelfarb.gwu.edu/teamdynamics/problem-solving-and-decision-making

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	1	1	1	1
CO3	2	2	2	1
CO4	2	2	2	1
CO5	2	2	3	1
Avg. PO attained	1.60	1.60	1.80	1.00



Scho	ool: SSAHS	Batch: 2025-29				
Program		Bachelor of Science (Emergency and Trauma Care Technology)				
Branch :		Semester: 2				
1	Course Code	ETP1121				
2	Course Title	Gastrointestinal, Haematological, Renal and Urologic	cal Emergencies			
3	Credit	2				
4	Contact Hours (L-T-P)	0-0-4				
5	Course Status	Compulsory				
6	Course Objective	To apply theoretical knowledge to practical approach for assessment, diagnosis and treatment of disorders in gastrointestinal, hepatological, haematological, renal and urological systems. To equip participants with the skills of recognition and interventions in gastrointestinal, hepatological, haematological, renal and urological disorders				
7	Course Outcome	At the end of course students will be able to: CO1: Demonstrate anatomical relationships for Gastrointestinal, hepatological, haematological, r urological disorders in simulated and clinical situ CO2: Demonstrate the ability to identify disorder clinical environment CO3: Demonstrate their ability to perform assess treatment procedures in simulated and clinical sit CO4: Demonstrate their ability to monitor patient disorders. CO5: Perform and analyse blood gases and acid t patient with these disorders	enal and ations as in the ment and uations as with these base tests in			
	Course Description	This course is designed for students gain familiarity of procedures for patient assessment, diagnosis and critical interventions when managing patients with disorder gastrointestinal, hepatological, haematological, rena systems	itical rs of the			
9	Outline Syllabus	Practical				
		Practical Training- ED/ICU/Ambulance/community				
		health clinic Posting/skill lab -66 hours				
	Unit-1A	Anatomical orientation to the Gastrointestinal, hepatological, Haematological, real and urological systems-1	CO1			
	Unit-1B	Anatomical orientation to the Gastrointestinal, hepatological, Haematological, real and urological systems-2	CO1			
	Unit-1C	Anatomical orientation to the Gastrointestinal, hepatological, Haematological, real and urological systems-3	CO1			





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Unit-2A	Management of GI bleed, oesophageal varices, Mallory Weiss syndrome, haemorrhoids, PUD, cholecystitis, Appendicitis, Diverticulitis, pancreatitis, ulcerative colitis, and Chron's disease in simulated and clinical environments-1	CO2,CO3,CO4
Unit-2B	Management of GI bleed, oesophageal varices, Mallory Weiss syndrome, haemorrhoids, PUD, cholecystitis, Appendicitis, Diverticulitis, pancreatitis, ulcerative colitis, and Chron's disease in simulated and clinical environments-2	CO2,CO3,CO4
Unit-2C	Management of GI bleed, oesophageal varices, Mallory Weiss syndrome, haemorrhoids, PUD, cholecystitis, Appendicitis, Diverticulitis, pancreatitis, ulcerative colitis, and Chron's disease in simulated and clinical environments-3	CO2,CO3,CO4
Unit-3A	Management of Gastroenteritis, hepatitis and bowel obstructions, Neonatal jaundice, biliary atresia, ingestion of foreign bodies, Meckel diverticulum, and hepatological disorders. Anaemia, Leukemia, Lymphoma, Polycythemias, Hemophilia, Sickle cell disease, myeloma in simulated and clinical environments-1	CO2,CO3,CO4
Unit-3B	Management of Gastroenteritis, hepatitis and bowel obstructions, Neonatal jaundice, biliary atresia, ingestion of foreign bodies, Meckel diverticulum, and hepatological disorders. Anaemia, Leukemia, Lymphoma, Polycythemias, Hemophilia, Sickle cell disease, myeloma in simulated and clinical environments-2	CO2,CO3,CO4
Unit-3C	Management of Gastroenteritis, hepatitis and bowel obstructions, Neonatal jaundice, biliary atresia, ingestion of foreign bodies, Meckel diverticulum, and hepatological disorders. Anaemia, Leukemia, Lymphoma, Polycythemias, Hemophilia, Sickle cell disease, myeloma in simulated and clinical environments-3	CO2,CO3,CO4
Unit-4A	Management of Acute renal failure, chronic renal failure, stones and urinary tract infections, Glomerulonephritis, Polycystic kidney disease, urinary incontinence and acute urinary retention in simulated and clinical environments-1	CO2,CO3,CO4
Unit-4B	Management of Acute renal failure, chronic renal failure, stones and urinary tract infections, Glomerulonephritis, Polycystic kidney disease, urinary incontinence and acute urinary retention in simulated and clinical environments-2	CO2,CO3,CO4





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Unit-4C	Management of Acute renal failure, chronic renal	
	failure, stones and urinary tract infections,	
	Glomerulonephritis, Polycystic kidney disease,	
	urinary incontinence and acute urinary retention in	
	simulated and clinical environments-3	
Unit-5A	Practical performance of Blood gases and acid base	CO5
	analysis in normal persons and during disease-1	
Unit-5B	Practical performance of Blood gases and acid base	CO5
	analysis in normal persons and during disease-2	
Unit-5C	Practical performance of Blood gases and acid base	CO5
	analysis in normal persons and during disease-3	

Mode of Examination	Practica	Practical			
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book		- Nancy Caroline's Emergency Care in the Streets- ninth edition			
Reference Book	2.	by American Clinical Metl Examinations	Academy of Orthods: The Histor	tation of the Sick and Injured hopaedic Surgeons (AAOS) ry, Physical, and Laboratory Valker HK, Hall WD, Hurst orths; 1990	

POs Cos	PO1	PO2	PO3	PO4
CO1	2	1	1	1
CO2	3	2	1	1
CO3	3	3	2	1
CO4	3	3	1	1
CO5	3	3	2	1
Avg. PO attained	2.80	2.40	1.40	1.00



Schoo	ol: SSAHS	Batch: 2025-29			
Progr	ram	Bachelor of Science (Emergency and Trauma Care Technology)			
Brand	ch:	Semester: 2			
1	Course Code	ETP1122			
2	Course Title	Basic and Advanced Airway Management, Emergency Trauma Care Management			
3	Credit	3			
4	Contact Hours (L-T-P)	0-0-6			
5	Course Status	Compulsory			
6	Course Objective	 To practice the techniques and procedures skills used in patient's airway for its patency assessment, opening, clearing and maintaining with adjuncts. To Practice usage of different type of oxygen delivery devices and ventilation techniques. To practice the basic to advanced airway management techniques. To learn community first responder skills and the skills of basic trauma care assessment and management 			
7	Course Outcome	At the end of the course, students will be able to: CO1: Demonstrate airway assessment and opening and maintenance of the airway by using basic/advairway adjuncts CO2: Demonstrate the usage of pharmacological ariway management CO3: Demonstrate the assessment and intervention patient at community level provider CO4: Demonstrate the systematic patient assessment and victim CO5: Demonstrate techniques in immobilization of body parts	vanced agents in as in ent of a		
	Course Description	This course is designed to introduce and to develop t and skills of the students on basic and advanced airw management, community level provider skills and traassessment and interventions skills	ay		
9	Outline Syllabus	Practical			
	Unit-1A	 Anatomy of the upper and lower airways Airway adjuncts, maneuvers, supplemental oxygen 	CO1		
	Unit-1B	Oxygen delivery devices. CO1			
	Unit-1C	Assisted and artificial ventilation	CO1		
	Unit-2A	Endotracheal Intubation	CO1		





	Oro-tracheal intubation, Naso-tracheal intubation	
Unit-2B	Trans-illumination technique of intubation, video laryngoscopy, Extubation, Pediatric intubation	CO1
Unit-2C	Supraglotic and Multi-lumen airway	CO1
Unit-3A	Usage of Pharmacological adjuncts for airway management	CO2
Unit-3B	Surgical technique of airway management	CO1
Unit-3C	Special patient considerations	CO1
Unit-4A	Community level first responder training-1	CO3
Unit-4B	Community level first responder training-2	CO3
Unit-4C	Community level first responder training-3	CO3
Unit-5A	Assessment of a trauma patient	CO4
Unit 5B	 Immobilization techniques and transportation Bleeding control pain management, 	CO5
Unit5C	 Specific injuries in trauma patient Assessment and interventions Usage of equipment for management of trauma victims 	CO5

Mode of Examination	Practical				
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	2. Fir 3. En	2. First Aid and Emergency Care- N Harris			
Reference Book	SM Di (B par Ar 10 PM 7. Ga Ka car	M, Kapoor MC vatia JV, Singh CLS) for card ramedics and naesth. 20 .4103/ija.IJA_6 MC5703000. To R, Ahmed Mandoor M V, rediopulmonary buscitation by to	, Mishra BB, Rao S n B. Basic cardiopul diopulmonary resus medics outside the 17 Nov;61(11) 37_17. PMID: 2 SM, Kapoor MC, R Singh B, Divatia life support (CCLS)	9217852; PMCID: Rao SC, Mishra BB, JV. Comprehensive for cardiopulmonary and medics inside the	





8. Kumar A, Aggarwal P. Basic life support. Natl Med J India
2023;36:29–35. DOI: 10.25259/NMJI_581_21
9. Nancy Caroline's Emergency Care in the Streets- ninth edition
10. First Aid Manual 11th Edition. Written for St John Ambulance, St Andrew's Ambulance Association, and
British Red Cross

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	2	3	2	1
CO3	3	3	2	1
CO4	3	2	2	1
CO5	2	3	2	1
Avg. PO attained	2.60	2.80	2.00	1.00



Scho	ool: SSAHS	Batch: 2025-29				
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)				
Brar	nch:	Semester: 2				
1	Course Code	ETP1123				
2	Course Title	Community, Pre- Hospital, Emergency Department	Based care			
3	Credit	1				
4	Contact Hours (L-T-P)	0-0-2				
5	Course Status	Compulsory				
6	Course Objective	To practice students on scene survey, patient assessment and interventions in pre-hospital and community based care To practice students on hospital and emergency based care skills in patient assessment and practice procedures and skills of patient care				
7	Course Outcome	At the end of the course, students will be able to: CO1: Demonstrate the conduct of scene survey and patient assessment in the pre-hospital care setting CO2: Identify life threatening conditions and interventions in pre-hospital care CO3: Demonstrate the scene survey, patient assessment and treatment of a patient in the Emergency Department CO4: Identify life threatening conditions and interventions in hospital care settings CO5: Demonstrate assessment and interventions for emergency care in community health facilities				
	Course Description	This course empowers students to confidently performance assessments and conduct of critical interventions for a variety of healthcare environments.	-			
9	Outline Syllabus	Practical				
	Unit-1A	Scene survey,	CO1			
	Unit-1B	patient assessment in pre-hospital care settings,	CO1			
	Unit-1C	Communication to call centre and receiving hospitals	CO1			
	Unit-2A	Equipment and Interventions in Pre-hospital care settings-1	CO2			
	Unit-2B	Equipment and Interventions in Pre-hospital care settings-2	CO2			
	Unit-2C	Equipment and Interventions in Pre-hospital care settings-3	CO2			
	Unit-3A	Equipment in hospital and Patient assessment in the Emergency Departments-1	CO3			
	Unit-3B	Equipment in hospital and Patient assessment in the Emergency Departments-2	CO3			





Unit-3C	Equipment in hospital and Patient assessment in	CO3
	the Emergency Departments-3	
Unit-4A	Interventions in ED, Wards and Day care	CO4
Unit-4B	Interventions in ED, Wards and Day care	CO4
Unit-4C	Interventions in ED, Wards and Day care	CO4
Unit-5A	Community based patient care- Medical	CO5
Unit-5B	Community based patient care-Trauma	CO5
Unit-5C	Community based patient care- Environmental	CO5
	emergencies	

Mode of Examination	Practica	al		
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book		Nancy Caroli	ne's Emergency	Care in the Streets
Reference Book	2- 3- 4- 5- 6-	Foundation for Roger and Ni Roger and Ni Emergency C Injured by Ar Surgeons (AA Patient Assess Hawthorne Marcus Ong. Singapore (sli World Health systems Handbook of	or the Health Prota Bullock are and Transport nerican Academy AOS) sment Practice Soment Practice Soment Practice Soment Practice Soment Practice Soment Pre-hospital Emode set) Organisation. Proceedings of the Procedure Practice Soment Pr	ergency care in rehospital trauma care artment Procedures.

POs Cos	PO1	PO2	PO3	PO4
CO1	3	2	2	1
CO2	2	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.80	2.80	2.00	1.00



3rd Semester



Program Structure Template School of Allied Health Sciences Bachelor of Science (Emergency and Trauma Care Technology)

Batch: 2025-29 TERM:3

C-				Teaching Load			Core/El ective/ Pre	Type of Course
Sr. No.	Subject Code	Subject		Т	Р	Cre dit	Requisi te/Co Requisi te	CC/AEC C/SEC/D SE
Theor	Theory						l .	
1	ETT2201	Head and Neck Trauma	1	2	0	3	Major	CC
2	ETT2202	Neurological Emergencies	1	1	0	2	Major	СС
3	ETT2203	Obstetrics and Gynaecological Emergencies	1	1	0	2	Major	СС
4	ETT2204	Endocrine Emergencies, and Emergency Medications	1	1	0	2	Major	СС
5	ETT2205	Ambulance Operations, and Disaster Management	1	1	0	2	Major	СС
6	ETT2206	Research- Questions, Methodology and Data collection	1	1	0	2	Major	СС
Practi	ical							
		Nervous system, Head and Neck, - demonstrations of anatomy, Physiology, Clinical Manifestation and					Major	СС
7	ETP2201	Treatment	0	0	4	2		
8	ETP2202	Obstetrics and Gynaecological Emergencies		0	4	2	Major	СС
9	ETP2203	Endocrine Emergencies		0	4	2	Major	CC
10	ETP2204	Basic Cardiac Life Support Instructor Program	0	0	2	1	Minor	СС
	Total Hours 06 07 14 20							



Scho	ool: SSAHS	Batch: 2025-29				
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)				
Bran	ch:	Semester: 3				
1	Course Code	ETT2201				
2	Course Title	Head and Neck Trauma				
3	Credit	3				
4	Contact Hours (L-T-P)	1-2-0				
5	Course Status	Compulsory				
6	Course Objective	To provide knowledge on assessment and treatme emergency disorders and injuries of the head and including eyes, nose, ear, mouth and throat.				
7	Course Outcome	At the end of the course, participants will be able to CO1: Describe the anatomical part of head and neck CO2: Describe the anatomical part of eye, ear, nose and throat CO3: Describe the clinical manifestation of injuries to the Head, neck, eyes, nose, ears and throat CO4: Describe assessment and treatment of the skull and intracranial injuries. CO5: Describe the assessment and treatment of the injuries to the neck, eyes, ears, nose and throat				
	Course Description	This course equips students with the knowledge of a treatment of the illnesses of head and neck includin nose and throat				
9	Outline Syllabus	Theory				
	Unit 1A	Introduction Anatomy and Physiology of head and Neck	CO1			
	Unit 1B	Anatomy and physiology of: Eyes Ears Nose Mouth and Throat Face	CO2			
	Unit 1C	Anatomy and physiology of Intracranial structures	CO1			
	Unit 2A	Assessment and management of Scalp and skull Injuries	CO3			
	Unit 2B	Assessment and management of Traumatic brain injuries: • Concussion	CO3			





	 Contusion 	
Unit 2C	Assessment and management of:	CO3
	Extra Dural Haemorrhage	
	Sub-Dural Haemorrhage	
	Sub-Arachnoid Haemorrhage	
	Brain Herniation	
	Diffuse brain injuries	
Unit 3A	Assessment and management of Focal brain	CO3, CO4
	injuries	
Unit 3B	Assessment and management of intra-cranial	CO3, CO4
	hemorrhage	
Unit 3C	Assessment and management of Soft tissue injuries	CO3, CO4
	to the head and neck	
Unit 4A	Assessment of Special Injuries/illnesses in the neck	CO3
Unit 4B	Management of Special Injuries/illnesses in the	CO4
	neck	
Unit 4C	Assessment and management of eye emergencies	CO3, CO5
Unit 5A	Assessment and management of Special	CO4
	injuries/illnesses to the ears	
Unit 5B	Assessment and management of Special	CO5
	injuries/illnesses to the nose	
Unit 5C	Assessment and management of Special	CO5
	injuries/illnesses to the throat	

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	1. Nancy Caroline's Emergency Care in the Streets- ninth edition			n the Streets- ninth
Reference Book	In (A 2. Se An he 3. Br an 4. W Fo	jured by America (AOS) cikel, JA., Drumnatomy and phy aring, 6th edn, land the Menig, described orkbook for Anoundation for the described Nia Bullock	right, DG., & Hudo siology for speech, Plural Publishing Ir Juan C Hernandez- gy, 4th Edition atomy, Physiology e Health Profession	cthopaedic Surgeons ock, DJ., 2019, language and oc. Prera. Atlas of Head

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	2	1





CO2	2	2	2	1
CO3	3	2	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.60	2.40	2.00	1.00



Scho	ool: SSAHS	Batch: 2025-29				
Prog		Bachelor of Science (Emergency and Trauma Care Technology)				
Bran	ich :	Semester: 3				
1	Course Code	ETT2202				
2	Course Title	Neurological Emergencies				
3	Credit	2				
4	Contact Hours (L-T-P)	1-1-0				
5	Course Status	Compulsory				
6	Course Objective	To provide knowledge on the assessment, identifit treatment of nervous systems disorders.	cation and			
7	Course Description	At the end of the course, the students will be able to: CO1: Describe the anatomical parts and physiology of the nervous system. CO2:Describe the patient assessment approach with neurological disorders/abnormalities CO3: Describe in-hospital and pre-hospital care interventions for these neurological disorders and the documentation of the findings and management CO4: Describe the assessment and treatment of the common neurological emergencies in adults CO5: Describe the assessment and treatment of paediatric neurological conditions/disorders.				
	Course Description	This course will enable students to assess and treat of emergency disorders of the nervous system in both a children.				
9	Outline Syllabus	Theory				
	Unit-1A	 Introduction to nervous system Anatomy and physiology of the nervous system: Central nervous system Peripheral nervous system 	CO1			
	Unit-1B	 Patient assessment in neurological emergencies / illnesses Scene Survey Primary Survey 	CO2			
	Unit-1C	Secondary SurveyReassessment Survey	CO2			
	Unit-2A	 Interventions in neurological patients In hospital interventions Pre-hospital interventions 	CO3			





Unit-2B	Communication and documentation in neurological illnesses	CO3
Unit-2C	Aetiology, Pathology, clinical Manifestation & Treatment of common neurological emergencies-1 • Stroke • Transient ischemic attack	CO3, CO4
Unit-3A	Aetiology, Pathology, clinical Manifestation & Treatment of common neurological emergencies-2	CO3, CO4
Unit-3B	Aetiology, Pathology, clinical Manifestation & Treatment of common neurological emergencies-3 • Headache • Dementia / Delirium • Neoplasms	CO3, CO4
Unit-3C	 Case based study- Neurological disorder Assessment and treatment 	CO3, CO4
Unit-4A	Aetiology, Pathology, clinical Manifestation & Treatment of Neurological disorders:4 • Multiple Sclerosis • Guillain Barre syndrome • Amyotrophic lateral sclerosis (ALS) • Parkinson's disease	CO3, CO4
Unit-4B	Aetiology, Pathology, clinical Manifestation & Treatment of Demyelinating and motor neuron disorders:5	CO3,CO4
Unit-4C	PoliomyelitisPost-polio SyndromePeripheral neuropathy	CO3, CO4
Unit-5A	Paediatric neurological conditions: • Hydrocephalus • Spina Bifida • Cerebral Palsy	CO3, CO5
Unit-5B	Case based study of neurological disorders- Assessment and treatment-2	CO3, CO4,CO5
Unit-5C	Case based study of neurological disorders- Assessment and treatment-3	CO3, CO4, CO5



Mode of	Theory					
Examination						
Weightage	CA	MTE	ETE			
Distribution	20	20	60			
Text Book	1. Nancy	1. Nancy Caroline's Emergency Care in the Streets				
	2. Micha	2. Michael Rubin. Overview of Peripheral Nervous System Disorders. MSD				
	Manu	Manual. https://www.msdmanuals.com/en-sg/professional/neurologic-				
	<u>disorders/peripheral-nervous-system-and-motor-unit-disorders/overview-of-peripheral-nervous-system-disorders</u>					
		3. Shakkottai VG, Lomen-Hoerth C. Nervous System Disorders. In: Hammer				
		GD, McPhee SJ. eds. Pathophysiology of Disease: An Introduction to				
		Clinical Medicine, 8e. McGraw-Hill Education; 2019. Accessed September				
		01, 2024.				
		https://accessmedicine.mhmedical.com/content.aspx?bookid=2468§io				
	nid=1	<u>98220873</u>				
Reference	5. Emergency Care and Transportation of the Sick and Injured by American					
Book	Academy of Orthopaedic Surgeons (AAOS)					
	6. Workbook for Anatomy, Physiology & Disease: Foundation for the Health Professions by Deborah Roiger and Nia Bullock					
	7. Patient Assessment Practice Scenarios by Les Hawthorne					
		opaedia – Neurological Diso	· · · · · · · · · · · · · · · · · · ·	<u>/sio-</u>		
		com/Neurological Disorder	<u>rs</u>			
	Physiopaedia					

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	2	1
CO2	3	2	2	1
CO3	2	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.60	2.60	2.00	1.00



School: SSAHS		Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Branch :		Semester: 3			
1	Course Code	ourse Code ETT2203			
2	Course Title	Obstetrics and Gynaecological Emergencies			
3	Credit	2			
4	Contact Hours (L-T-P)	1-1-0			
5	Course Status	Compulsory			
6	Course Objective	 To provide knowledge of male and female reproductive system To provide knowledge on assessment, identification and 			
		treatment of emergency disorders of the male and female reproductive system 3. To understand anatomical and physiological changes during pregnancy and assist normal and abnormal labor and manage complications of these 4. To provide knowledge about emergency pre and post natal disorders			
7	Course Outcome	Participants will be able to: CO1: Describe the anatomy and physiology of the male and female reproductive system. CO2: Describe the patient assessment approach in male and female patients and the treatment of these disorders. CO3: Describe the assessment and management of sexual assault. CO4: Describe the assessment and management of pregnant patient, trauma in pregnancy CO5: Describe the steps in assisting labour and the assessment and treatment of complications of labour and post-delivery care.			
9	Course Description	This course is designed for students to provide theoretical comprehensive knowledge on reproductive systems disorders, gynecological and obstetrical emergencies /complications and child birth assistance in normal and abnormal deliveries			
9	Outline Syllabus Unit-1A	Anatomy and physiology of the male reproductive	CO1		
	OHIT-TA	Anatomy and physiology of the male reproductive	(01		
	Unit-1B	Aetiology, Pathology, Clinical Manifestations & Treatment of the specific emergencies and injuries to the male reproductive systems	CO2		
	Unit-1C	Anatomy and physiology of the female reproductive system	CO1		
	Unit-2A	Gynecology- Menstruation and pathophysiology	CO2		





Unit-2B	Assessment of the patient with gynecological illness	CO2
Unit-2C	General principles of treatment of gynecologic disorders	CO2
Unit-3A	Aetiology, Pathology, Clinical Manifestations & Treatment of the specific gynecological emergencies illnesses, including injuries-1	CO2
Unit3B	Aetiology, Pathology, Clinical Manifestations & Treatment of the specific gynecological emergencies illnesses, including injuries-2	CO2
Unit-3C	Sexual assault	CO3
Unit-4A	Conception, gestation and Pregnancy Physiological changes during pregnancy	CO4
Unit-4B	Medical conditions affected by pregnancy and Complications of pregnancy	CO4
Unit-4C	Assessment of pregnant patient	C04
Unit-5A	1- Child birth, abnormal deliveries,complications of labor and delivery2- Trauma in Pregnancy	CO4, CO5
Unit-5B	Emergency pharmacology in pregnancy	CO5
Unit-5C	Post-delivery care	CO5

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	20 1. Na edi 2. En Inj (A 3. An Sy htt ap reg 4. Na Be Re Bu Cli htt Gurun Reprod	ancy Caroline's ition mergency Care a fured by Americ AOS) natomy and Phystem. Anatomy tps://courses.lu/2/chapter/anatoroductive-system. Sorrent ettocchi, S. (202 eproduction and asetto, G.M., Cainical Androlog tps://doi.org/10/g P, Yetiskul E. ductive System.	Emergency Care in the can Academy of Orthogon Incomplete I	f the Sick and nopaedic Surgeons le Reproductive uny- y-of-the-female- ona, L., Zullo, F.M., of Female nt. In: Bettocchi, C., (eds) Practical 1701-5 16 , Male y 1]. In:
	Reproductive System. [Updated 2023 May 1]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls			y 1]. In:
	Publishing; 2024 Jan Available from: https://www.ncbi.nlm.nih.gov/books/NBK538429/			





Reference Book	 Anatomy & Physiology of the Male & Female
	Reproductive System. Lecture Notes.
	https://conursing.uobaghdad.edu.iq/wp-
	content/uploads/sites/20/2019/09/Anatomy-Physiology-
	of-the-Male-Female-Reproductive-System.pdf

2. The male reproductive system: An overview of common problems. Sanjiva Wijesinha Catherine N Kirby, Leon Piterman. Australian Family Physician. Volume 42, Issue 5, May 2013

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.80	2.80	2.00	1.00



Scho	ol: SSAHS	Batch: 2025-29		
Prog	ram	Bachelor of Science (Emergency and Trauma Care T	echnology)	
Bran	ch:	Semester: 3		
1	Course Code	ETT2204		
2	Course Title	Endocrine emergencies, and Emergency Medications	3	
3	Credit	02		
4	Contact Hours (L-T-P)	1-1-0		
5	Course Status	Compulsory		
6	Course Objective	 To provide knowledge to the students on endo system anatomy and physiology, disorders, the identification and treatment To provide knowledge on emergency drugs undifferent pathologies/disorders/conditions 	neir	
7	Course Outcome	At the end of course students will be able to: CO1: Describe the anatomy and physiology of the endocrinal glands in the human body CO2: Describe the assessment and treatment of the endocrine emergencies in the human body. CO3: Describe the drugs used in an emergency department and their use in management of emergencies CO4: Describe the preparation of dosage, documentation, and administration of drugs in emergencies CO5: Discuss possible errors in use of medications for emergencies		
	Course Description	This course is designed to familiarize the students w endocrinological system disorders and their treatme use of emergency drugs		
9	Outline Syllabus	Compulsory		
	Unit-1A	Anatomy and physiology of the endocrine system	CO1	
	Unit-1B	Aetiology, Pathology, Clinical Manifestation & Treatment of Diabetes mellitus Hyperosmolar non ketotic coma Diabetic Ketoacidosis Hypoglycemia	CO2	
	Unit-1C	Aetiology, Pathology, Clinical Manifestation & Treatment of	CO2	





Unit-2A	Pharmacology of commonly used emergency drugs	CO3
	 Introduction 	
	 Indications for use 	
	 Dosages 	
Unit-2B	Routes of drug administration for the	CO3, CO4
	pharmacological agents for emergency disorders	
Unit-2C	Adverse and side effect of drug used in emergency management	CO3
Unit-3A	Drugs commonly used in the Emergency	CO3, CO4
	Department and in emergency ambulances and	
	their dosages	
Unit-3B	Drug dose calculation for the drugs used for	CO4
	emergency disorders	
Unit-3C	Preparation of injectables and infusions	CO4
Unit-4A	Review of prescription writing and interpretation emergency care-1	CO4
Unit-4B	Review of prescription writing and interpretation emergency care-2	CO4
Unit-4C	Review of prescription writing and interpretation emergency care-3	CO4
Unit-5A	Common Medication errors in managing	CO5
	emergencies and strategies to reduce these-1	
Unit-5B	Common Medication errors in managing	CO5
	emergencies and strategies to reduce these-2	
Unit-5C	Common Medication errors in managing	CO5
	emergencies and strategies to reduce these-3	

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	 Openstax books. Anatomy and Physiology 2e. An Overview of the Endocrine System. https://openstax.org/books/anatomy-and-physiology-2e/pages/17-1-an-overview-of-the-endocrine-system Open Resources for Nursing (Open RN); Ernstmeyer K, 		and-physiology- docrine-system N); Ernstmeyer K,	
	 Christman E, editors. Nursing Pharmacology [Internet]. 2nd edition. Eau Claire (WI): Chippewa Valley Technica College; 2023. Chapter 9 Endocrine System. Available from: https://www.ncbi.nlm.nih.gov/books/NBK595005/ Paramedic and Emergency Pharmacology Guidelines. Sonja Maria, Marc Colbeck, Matthew Caffey. 			va Valley Technical ystem. Available pooks/NBK595005/
				Caffey.





Reference Book	1. Physiopedia. Metabolic and Endocrine Disorders.
	https://www.physio-
	pedia.com/Metabolic and Endocrine Disorders
	2. Essential Concepts in Anatomy and Pathology for
	Undergraduate Revision by Aida Lai
	•

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	2	1
CO2	3	3	2	1
CO3	2	3	2	1
CO4	1	3	1	1
CO5	1	3	1	2
Avg. PO attained	1.80	2.80	1.60	1.20



School: SSAHS		Batch: 2025-29		
Program		Bachelor of Science (Emergency and Trauma Care Technology)		
Branch:		Semester: 3		
1	Course Code	ETT2205		
2	Course Title	Ambulance Operations, and Disaster Management		
3	Credit	2		
4	Contact Hours (L-T-P)	1-1-0		
5	Course Status	Compulsory		
6	Course Objective	 To provide knowledge on ambulance operations and management of an Emergency Ambulance Service To provide knowledge about disasters and their management, including on-scene care and roles of medical and ambulance teams at a disaster site 		
7	Course Outcome	At the end of the course students will be able to: CO1: Describe the various aspects of ambulance of and management of an Emergency Ambulance Secons. Describe types and effects of disasters. CO3: Describe the incident management system of and the roles and organization of medical and ambute ams at the disaster site. CO4: Describe hazards that may be encountered a sites and safety measures to be employed. CO5: Describe crime scenes and how a paramedic work at crime scenes.	or disasters bulance at disaster	
	Course Description	This course is designed for students to be familiar wi ambulance operations and disaster site operations	th the	
9	Outline Syllabus	Theory		
	Unit 1A	Characteristics and Organization of Emergency Ambulance Services	CO1	
	Unit-1B	Ambulance Operations	CO1	
	Unit-1C	Ambulance equipment, checking and manpower staffing, Emergency vehicle and their maintenance, air medical transport	CO1	
	Unit-2A	Disaster – Introduction and Type	CO2	
	Unit-2B	Effects of disasters and the Disaster Management Cycle	CO2	
	Unit 2-C	Characteristics of a Community's Disaster Action Plan, the Incident Command System and Roles of various disaster-response agencies	CO3	
	Unit 3A	Roles of Medical Services in Disasters and Medical Support Organisation at disaster sites	CO3	
	Unit-3B	Medical Support plan in different types of disasters	CO3	
	Unit-3C	Mass casualty incident vs Disasters and the roles of medical services at MCIs	CO3	





Unit-4A	Triage during disasters	CO3	
Unit-4B	Hazardous material incidents	CO4	
Unit-4C	Decontamination and treatment	CO4	
Unit-5A	Psychological Support during disasters	CO4	
Unit-5B	Crime scene awareness and management- 1	CO5	
Unit-5C	Crime scene awareness and management- 2	CO5	

Mode of	Theory				
Examination	 				
Weightage	CA	MTE	ETE		
Distribution	20	20	60		
Text Book	1	- Nancy Caroline's Em	ergency Care in the Stree	ets- ninth edition	
	2	 Emergency Care and Train orthopedic Surgeons (AA 		ured by American Academy of	
		orthopetic burgeons (Tiri			
Reference			nsportation of the Sick ar	nd Injured by American	
Book		Academy of Orthopaedic	•		
		•	•	ster Science by Brenda D.	
	F	Phillips, David M. Neal,	Gary R. Webb.		
	3. I	Disaster Management in	India - Policies, Institutio	ons, Practices	
	4. t	y Rajendra K. Pandey			
	5. H	EMS Crime Scene Respo	onsibility by Timothy G. l	Price; Rory M. O'Neill.	
	6. I	Emergency Medical Serv	rices in the Crime Scene l	by Michael R. Hartle,	
		ackie Smithson, Victor			
	7. F	Patient Assessment Pract	ice Scenarios by Les Hav	vthorne	
			aramedics to Follow: Go		
	ŀ	nttps://www.goaid.in/pr	otocols-for-paramedics/		
	9. Clinical Practice Guidelines of Emergency Medical Services. Saudi Red				
		Crescent Authority. chrome-			
		extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.srca.org.sa/medi			
		a/wikow4fj/clinical-practice-guidelines-of-ems.pdf			
			0	-	

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	1	1
CO2	2	2	1	2
CO3	1	2	2	2
CO4	2	1	1	2
CO5	3	3	1	2
Avg. PO attained	2.00	2.00	1.20	1.80



Scho	ool: SSAHS	Batch: 2025-29			
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)			
Bran	ch:	Semester: 3			
1	Course Code	ETT2206			
2	Course Title	Research- Questions, Methodology and Data collecti	ion		
3	Credit	2			
4	Contact Hours (L-T-P)	1-1-0			
5	Course Status	Compulsory			
6	Course Objective	 To provide knowledge on drafting of research and research methodology To provide knowledge on data collection and collection methods for conduct of research 			
7	Course Outcome	At the end of course students will be able to: CO1: Describe how research questions may be formulated CO2: Describe research methodologies used in emergency care CO3 Describe the basics of determination of data points in a research study CO4: Describe the methods of data collection CO5: Draft a research proposal with the Research question, methodology, dataset and data collection methods.			
	Course Description	This comprehensive course is designed for students with the process of drafting research questions, uncourrent research methodologies in emergency care, identification and collection for research.	lerstanding		
9	Outline Syllabus	Theory			
	Unit-1A	Research Question- Introduction	CO1		
	Unit-1B	Research question formulation	CO1		
	Unit-1C	Reviewing of research questions	CO1		
	Unit-2A	Research methodologies- types currently used in emergency care	CO2		
	Unit-2B	Choosing the research methodology for identified research questions- Diagnostic research	CO2		
	Unit-2C	Choosing the research methodology for identified research questions- Therapeutic research	CO2		
	Unit-3A	Quantitative and Qualitative Research	CO3		
	Unit-3B	Determining data points- Quantitative research	CO3		
	Unit-3C	Determining data points- Qualitative research	CO3		
	Unit-4A	Methods of data collection	CO4		
	Unit-4B	Data collection- Quantitative	CO4		
	Unit-4C	Data collection- Qualitative	CO4		
	Unit-5A	Drafting a Research proposal	CO5		





Unit-5B	Draf	ting Research proposal-1	CO5
Unit-5C	Draf	ting Research proposal-2	CO5
Unit-5D	Draf	ting Research proposal-3	CO5

Mode of	Theory					
Examination						
Weightage	CA	MTE	ETE			
Distribution	20	20	60			
Text Book	1. Ham	Hamed Taherdoost. Data Collection Methods and Tools for Research; A				
	_	Step-by-Step Guide to Choose Data Collection Technique for Academic				
		and Business Research Projects. International Journal of Academic				
			(IJARM), 2021, 10 (1), pp	.10-38. hal-03741847		
		hrome-				
			nnibpcajpcglclefindmkaj/ł	https://hal.science/hal-		
		3741847v1/documen				
		, , ,	21). Data Collection Defin	•		
		*	ved August 29, 2024, from			
			/methodology/data-collec			
		3. Research Methodology: Techniques and Trends. by Umesh Kumar B				
	Dube	y, D P Kothari. Chap	oman & Hall.			
Deference Deal	1 How	to White a Descouch	Overtion in 2024, Tymes	Stone and Evennelse		
Reference Book		Bouchrika. Research	Question in 2024: Types, S	steps, and Examples.		
			i. May 10, 2024. earch/how-to-write-a-rese	parch quastion		
			ology? Definition, Types,			
		a Sreekumar August		and Examples by		
	-	0	g/academic-writing-guide	s/what-is-research-		
		odology	g/academic-writing-guide	s/ Wilat-is-lesearch-		
			ethodology in 2024: Over	view Tine and		
			chrika. Research. May 16,			
		± •	earch/how-to-write-resea			
			ology? A Plain-Language			
			s) by Derek Jansen (MBA	•		
			(Last updated April 2023)			
			hat-is-research-methodol			
	5. Research methods for health care practice- Frances Griffiths					
			r			



POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	3
CO2	1	1	1	3
CO3	1	1	1	3
CO4	1	1	1	3
CO5	1	1	1	3
Avg. PO attained	1.00	1.00	1.00	3.00



Schoo	ol: SSAHS	Batch: 2025-29			
Progr	am	Bachelor of Science (Emergency and Trauma Care Techno	logy)		
Branc	h :	Semester: 3			
1	Course Code	ETP2201			
2	Course Title	Nervous system, Head and Neck, - demonstrations of anato Physiology, Clinical Manifestation and treatment	my,		
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	 To demonstrate the anatomical characteristics and relationships of the nervous system and of the head and neck, and its related structures to the students To practice the skills and procedures of patient assessment, and treatment of nervous system disorders To practice the skill and procedures of patient assessment, and treatment of head and neck and associated structure abnormalities/disorders and injuries 			
7	Course Outcome	At the end of course Participants students will be able to CO1: Demonstrate the structures of the nervous sysimulated model CO2: Demonstrate structures of the head and neck inceyes, ears, nose and throat. CO3: Demonstrate systematically the neurological assess patient. CO4: Demonstrate their ability to management and intervous systems emergencies. CO5: Demonstrate their ability to assess and inited disorders of head and neck including the eyes, ears, throat.	eluding the essment of a ditially treat		
	Course Description	This practical course allows students to identify anatomical structures in the nervous system and the head and neck and initiate the treatment of emergency disorders of these structures.			
9	Outline Syllabus	Skill Lab and Hospital Posting/Ambulance posting			
	Unit 1A	Identification of Nervous system structures	CO1		
	Unit 1B	Demonstration of relationships of structures in the brain to peripheral structures and their physiological functions	CO1		
	Unit 1C	Demonstration of sensory and motor functions in limbs to spinal cord structures CO1			
	Unit 2A	Demonstrate structures on scalp, face and neck and their neurological associations	CO1, CO2		
	Unit 2B	Demonstration of structures of the eye and relationship to the cranial nerves	CO2		





Unit 2C	Demonstration of structures of the ears, nose and throat	CO2
Unit 3A	Conducting assessment of conscious state and cranial	CO3
	nerves	
Unit 3B	Conducting assessment of motor and sensory aspects of	CO3
	peripheral nervous system	
Unit 3C	Conducting assessment of cerebellar functions and	CO3
	balance mechanisms	
Unit 4A	Demonstrate initial management of common	CO4
	neurological emergencies	
Unit 4B	Demonstrate initial assessment and management of	CO4
	patients with strokes, neurological infections, epilepsy	
	and altered mental states	
Unit 4C	Demonstrate initial assessment and management of	CO4
	peripheral nervous system disorders	
Unit 5A	Demonstrate assessment of head and neck disorders	CO5
	and their initial management	
Unit 5B	Demonstrate assessment of eye disorders and their initial	CO5
	management	
Unit 5C	Demonstrate assessment of ear, nose and throat disorders	CO5
	and their initial management	

Mode of Examination	Practical			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	3.	Nancy Caroline's Emergency Care in the Streets Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS) The five-minute Neurological Examination by Ralph F. Józefowicz. chrome- extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.urmc.r ochester.edu/MediaLibraries/URMCMedia/neurosurgery/images/5- minute-neuro-exam-handout.pdf		
Reference Book	2.]	Health Professions Basic Emergency World Health Orga Medicine. Internate extension://efaidnla.co.org/preview/5c3.	pok for Anatomy, Physiology & Disease: Foundation for the Professions by Deborah Roiger and Nia Bullock mergency care Approach to the acutely ill and injured. Health Organisation, International Federation for Emergency ne. International Committee for the Red Cross. chrome-on://efaidnbmnnnibpcajpcglclefindmkaj/https://www.medboreview/5c3592de-ae98-4c9f-9256-75fb1fcc7b87/doc.pdf Assessment Practice Scenarios by Les Hawthorne	



POs Cos	PO1	PO2	PO3	PO4
CO1	2	1	2	1
CO2	2	1	2	1
CO3	3	2	2	1
CO4	2	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.40	2.00	2.00	1.00



Schoo	ol: SSAHS	Batch: 2025-29			
Progr	ram	Bachelor of Science (Emergency and Trauma Care T	echnology)		
Brand	ch:	Semester: 3			
1	Course Code	ETP2202			
2	Course Title	Obstetrics and Gynaecological Emergencies			
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	 To provide practical training in assessment and initial management of patients with male and female reproductive system disorders To provide practical training in assessment and management of pregnant women with normal and complicated labour and assist in delivery. 			
7	Course Outcome	At the end of the course participants will be able to: CO1: Demonstrate the structures of the male and female reproductive systems in an anatomical model CO2: Demonstrate the systematic initial assessment and management of the patients with male and female reproductive system disorders. CO3: Demonstrate assessment of a pregnant woman CO4: Demonstrate the procedures in assisting labour in normal and complicated pregnancies CO5: Demonstrate the assessment and initial management of the			
	Course Description	post-natal complications of labour and care of the This course teaches the skills on assessment and init of patients with male and female reproductive systeralso covers the initial management of normal and ab pregnancies, including managing the process of delivered.	ial management m disorders. It normal		
9	Outline Syllabus	Practical- Skill lab and Hospital			
	Unit 1A	Posting/Ambulance posting Identification of the anatomical structures in the male and female reproductive system in an anatomical model	CO1		
	Unit 1 B	Identifying the features that may be encountered in normal and abnormal pregnancy			
	Unit 1C	Identifying the features that may be encountered in gynecological disorders CO1			
	Unit 2A	Systematic assessment of the male reproductive cO2 system			
	Unit 2B	Systematic assessment of the female reproductive system	CO2		
	Unit 2C	Initial management of patients with gynecological emergencies	CO2		





Assessment of a pregnant pre-term women	CO3
Assessment of a pregnant woman at term	CO3
Assessment of a woman with an abnormal	CO3
pregnancy	
Management of normal labour	CO4
Assisting in management of abnormal labour	CO4
Familiarization with equipment for management of	CO4
labour	
Management of pre-eclampsia, eclampsia and	CO4
miscarriages	
Post-partum haemorrhage and its initial	CO5
management	
Other post-partum complications of pregnancy and	C)5
their initial management	
Assessment and management of the new born baby	CO5
	Assessment of a pregnant woman at term Assessment of a woman with an abnormal pregnancy Management of normal labour Assisting in management of abnormal labour Familiarization with equipment for management of labour Management of pre-eclampsia, eclampsia and miscarriages Post-partum haemorrhage and its initial management Other post-partum complications of pregnancy and their initial management

Mode of Examination	Practical			
Weightage	CA	MTE	ETE	
Distribution	20	20	60	
Text Book	2. Emerg Male U https:/	Nancy Caroline's Emergency Care in the Streets Emergency Medicine Practice: An Evidence-Based Approach To Male Urogenital Emergencies. https://www.ebmedicine.net/topics/hepatic-renal- genitourinary/male-urogenital-emergencies		
Reference Book	America 2. Workb Health 3. Patient 4. Health Assess https:/ ter/foc	ency Care and Transportation an Academy of Orthopaed ook for Anatomy, Physiolo Professions by Deborah Roassessment Practice Scenar Assessment Guide for Nurment: Reproductive Assess/pressbooks.montgomeryoused-assessment-reproductive Assessment in Reproductive Assess Januagement In Reproductive As	ic Surgeons (AA gy & Disease: Foiger and Nia Burarios by Les Hawses. Chapter 16: ment. college.edu/healsctive-assessment ctive Medicine.	AOS) coundation for the coundati





POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	2	1
CO2	3	3	2	1
CO3	3	2	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.80	2.60	2.00	1.00



Scho	ol: SSAHS	Batch: 2025-29			
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)			
Bran	ch:	Semester: 3			
1	Course Code	ETP2203			
2	Course Title	Endocrine Emergencies			
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	 To correlate endocrine organs in anatomical models with function To practice the assessment and treatment of a patient with diabetic emergencies To practice the assessment and treatment of patients with other endocrine emergencies. 			
7	Course Outcome Course Description	At the end of the course, participants will be able to: CO1: Demonstrate the clinical features of diabetes complications in patients CO2: Demonstrate the clinical features of disorders of other endocrine glands such as thyroid disorders, adrenal disorders and pituitary disorders CO3:Demonstrate the systematic assessment and initial care of patients with diabetes mellitus and its complications CO4: Demonstrate the systematic assessment and initial care of patients with other endocrinal emergencies. CO5: Demonstrate common procedures and treatment regimens used in assessment and initial management of patients with endocrinal emergencies This is a hands-on program covering the initial assessment and			
		management of patients with diabetic and other en emergencies.	docrine		
9	Outline Syllabus				
	Unit 1A	Demonstrate signs and symptoms of diabetes mellitus and effect on target organs in stable diabetic patients	CO1		
	Unit 1 B	Demonstrate signs and symptoms in diabetic patients with hypoglycaemia	CO1		
	Unit 1C	Demonstrate signs and symptoms in patients with hyperglycaemic emergencies			
	Unit 2A	Demonstration of initial assessment of thyroid CO2 disorders			
	Unit 2B	Demonstration of initial assessment of adrenal disorders	CO2		
	Unit 2C	Demonstration of initial assessment of pituitary disorders	CO2		





Unit 3A	Demonstrate systematic assessment and initial care of diabetic patient with dermatological, eye and neurological complications	CO3
Unit 3B	Demonstrate systematic assessment and initial care of diabetic patient with renal disorders and cardiovascular complications	CO3
Unit 3C	Systematic assessment and initial care of patients with hypoglycemia and hyperglycemic emergencies	CO3
Unit 4A	Demonstrate initial care of patient with thyroid disorders	CO4
Unit 4B	Demonmstrate initial care of patients with adrenal disorders	CO4
Unit 4C	Demonstrate initial care of patients with pituitary disorders	CO4
Unit 5A	Demonstrate Blood sugar and urine sugar testing and monitoring	CO5
Unit 5B	Demonstrate treatment regimens for diabetic ketoacidosis, uncontrolled diabetes mellitus and hypoglycemia	CO5
Unit 5C	Demonstrate treatment regimens in patients with thyroid, adrenal and pituitary disorders	CO5

Mode of Examinati	Practical					
Weightage Distribu	CA		MTE	ETE		
		20		20	60	
Text Book		1.	Na	ncy Caroline's	Emergency Care in t	he Streets
	2.	2. Practical Clinical Endocrinology by Peter Igaz				
Reference Book	 Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS) Workbook for Anatomy, Physiology & Disease: Foundation for the Health Professions by Deborah Roiger and Nia Bullock Patient Assessment Practice Scenarios by Les Hawthorne MSD Manual: Metabolic and Endocrine Disorders. Professional version. 			opaedic Surgeons Disease: by Deborah Roiger by Les Hawthorne		
POs Cos	PO1	F	PO2		PO3	PO4
CO1	3	2	2		2	1
CO2 3			2		2	1
CO3 3			3		2	1
CO4 3			3		2	1
CO5	5 3				2	1
Avg. PO attained	3.00	2	2.60		2.00	1.00



Scho	ool: SSAHS	Batch: 2025-29			
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)			
Bran	ch:	Semester: 3			
1	Course Code	ETP2204			
2	Course Title	Basic Cardiac Life Support Instructor Program			
3	Credit	1			
4	Contact Hours (L-T-P)	0-0-2			
5	Course Status	Compulsory	· · · · · ·		
6	Course Objective	To train students as Instructors who would be able to conduct Basic Cardiac Life Support (BCLS) Provider Courses			
7	Course Outcome	Participants will be able to: CO1: Demonstrate the identification of trainees, select appropriate methodology and adequate knowledge content to conduct course CO2: Demonstrate ability to plan the content and programme for a BCLS course conduct a course CO3: Demonstrate ability to teaching a BCLS course with appropriate methodology CO4: Demonstrate ability to conduct the post-course procedures CO5: Maintain the training aids used for the conduct of the course.			
	Course Description	This practical course trains students who have alread BCLS provider course to assume the role of instructor program.	ly passed the		
9	Outline Syllabus				
	Unit 1A	Review Need for the conduct of the BCLS Course	CO1		
	Unit 1 B	Identify criteria for selection of students for the BCLS provider Course and participate in selection of trainees.	CO1		
	Unit 1 C	Identification of course venue and requirements, including logistics	CO1		
	Unit 2A	Teaching methodology for the BCLS program CO2 Theory			
	Unit 2B	Teaching Methodology for the BCLS program Practical	CO2		
	Unit 2C	Preparing the BCLS Provider Course training programme	CO2		
	Unit 2D	Sending out the notices and doing the preparatory work for the conduct of the BCLS provider Course	CO2		
	Unit 3A	Teaching the BCLS Provider course - Mock Lecture	CO3		





Uni	t 3B	Teaching the BCLS Provider Course – Demonstrate CPR Procedures to a Student	CO3
Uni	it 3C	Mock teaching of AED use – Demonstrate AED procedures to a student	CO3
Unit	t 4A	Assessing the Students for the BCLS Provider course – Theory Testing and explanation of answers	CO4
Uni	it 4B	Assessing the Students for the BCLS Provider course – Practical Testing and explanation of Errors	CO4
Uni	it 4C	Conducting Refresher training and testing for the student	CO4
Uni	it 5A	Post-course evaluation of course effectiveness	CO4
Uni	t 5B	Demonstrate Manikin maintenance	CO5
Uni	t 5C	Demonstrate ability to conduct Course debrief	CO5

Mode of Examination	Viva	Viva				
Weightage	CA	MTE	ETE			
Distribution	20	20	60			
Text Book	 BCLS + AED Instructor Training Handbook. By National Heart Centre Singapore 				National Heart	
Reference Book	2. E	asic Cardiac Li BCLS+AED) To asic Life Suppo feart Association stension://efaids media/CPR2-Fil ssentials/BLS/2	fe Support with Auraining Centre/Instructor Essen n. 2021. chrome-	tomated Exteructor-Training tials Faculty Colefindmkaj/hals/Instructor- or-Essentials/F	ng Centre (TC/ITC) Guide. American ttps://cpr.heart.org/-	

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	3	1
CO2	1	1	3	1
CO3	2	2	3	1
CO4	1	1	3	1
CO5	3	3	3	1
Avg. PO attained	1.80	1.80	3.00	1.00



4th Semester





Program Structure Template School of Allied Health Sciences Bachelor of Science (Emergency and Trauma Care Technology)

Batch: 2025-29 TERM:4

_				Teaching Load			Core/El ective/ Pre	Type of Course
Sr. No.	Subject Code	Subject		Т	Р	Cre dit	Requisi te/Co Requisi te	CC/AEC C/SEC/D SE
Theor	y							
1	ETT2221	Infectious Diseases, Dermatological diseases and Immunological Disorders	1	1	0	2	Major	СС
2	ETT2222	Paediatric Emergencies	1	2	0	3	Major	СС
3	ETT2223	Geriatric Emergencies	1	1	0	2	Major	СС
4	ETT2224	Environmental, Toxicological, and Psychological Emergencies		1	0	2	Major	СС
5	ETT2225	Healthcare and Ambulance services management	1	1	0	2	Major	СС
6	ETT2226	Teaching Techniques in healthcare, Research, HIS, Project Management, Digital Medicine	1	1	0	2	Major	СС
Practi	ical							
7	ETP2221	Infectious Diseases, Dermatological diseases and Immunological Disorders	0	0	4	2	Major	СС
8	ETP2222	Paediatric and Geriatric Emergencies	0	0	4	2	Major	CC
9	ETP2223	Environmental, Toxicological Diseases, Psychological Disorders	0	0	4	2	Major	СС
10	ETP2224	Basic Trauma Life Support Instructor Training	0	0	2	1	Minor	СС
		Total Hours	06	07	14	20		



School: SSAHS		Batch: 2025-29			
Progr	am	Bachelor of Science (Emergency and Trauma Care T	echnology)		
Branc	h:	Semester: 4			
1	Course Code	ETT2221			
2	Course Title	Infectious Diseases, Dermatological diseases and Imr Disorders	nunological		
3	Credit	2			
4	Contact Hours (L-T-P)	1-1-0			
5	Course Status	Compulsory			
6	Course Objective	 To provide knowledge on recognition and treatinfections To provide knowledge on recognition and treat dermatological diseases To provide knowledge to assess and treat immediseases. To provide knowledge to ensure infection conworkplace 	ntment of		
7	Course Outcome	On completion of the course students will be able CO1: Describe the infections and their modes of transmission CO2: Describe the aetiology, pathophysiology, as and treatment of infectious diseases in emergency settings. CO3: Describe the aetiology, pathophysiology, as and initial treatment of dermatological diseases CO4: Describe the aetiology, pathophysiology, as and initial treatment of the patient with acute immedisorders CO5: Describe methods to control infections at the place	ssessment care ssessment ssessment nunological		
	Course Description	This course will teach the students to identify and pr treatment for patients with infectious diseases, imm disorders, and dermatological diseases.			
9	Outline Syllabus	Theory			
	Unit-1A	Infections in the community, their prevalence and classification of infectious diseases	CO1		
	Unit-1B	Host defense mechanism Infection cycle Transmission of communicable diseases	CO1		
	Unit-1C	Current regulations for control of infection transmission in healthcare settings. Precautions for the health care providers. Prevention mechanisms and strategies and current efforts at infection	CO1,C05		





control, especially in emergency care settings and facilities	
The pathophysiology, clinical manifestations and treatment of Airborne transmitted diseases, Sexually transmitted diseases and Blood borne diseases	CO2
The pathophysiology, clinical manifestations and treatment of Enteric diseases Vector borne diseases, and Zoonotic diseases	CO2
The prevalence of Antibiotic resistant organisms and strategies for their control. New emerging diseases	CO2
Introduction to dermatological emergencies Anatomy and physiology of skin Functions of skin	CO3
General Assessment of dermatological emergencies	CO3
General Treatment of dermatological emergencies	CO3
Infectious dermatological emergencies- Assessment and Treatment	CO3
 Identification and Initial management of: Dermatological systemic diseases Autoimmune diseases- Lupus erythematosus, Scleroderma Diabetes related conditions 	CO3
Identification and initial care of Environmental and Occupational dermatological emergencies such as Sunburn, frostbite, marine envenomation, Contact dermatitis Identification and initial management of Dermatological emergencies in special populations-Pediatrics and geriatrics	CO3
Introduction to immunology and the role of the immune system in defense against pathogens	CO4
Pathophysiology, assessment and treatment of • Allergic reaction • Anaphylaxis • Anaphylactic shock	CO4
Pathophysiology, assessment and initial treatment of	CO4
	facilities The pathophysiology, clinical manifestations and treatment of Airborne transmitted diseases, Sexually transmitted diseases and Blood borne diseases The pathophysiology, clinical manifestations and treatment of Enteric diseases Vector borne diseases, and Zoonotic diseases The prevalence of Antibiotic resistant organisms and strategies for their control. New emerging diseases Introduction to dermatological emergencies Anatomy and physiology of skin Functions of skin General Assessment of dermatological emergencies General Treatment of dermatological emergencies Infectious dermatological emergencies- Assessment and Treatment Bacterial Viral Fungal Antimicrobial treatment and isolation precautions Universal precautions in clinical practice Identification and Initial management of: Dermatological systemic diseases Autoimmune diseases- Lupus erythematosus, Scleroderma Diabetes related conditions Identification and initial care of Environmental and Occupational dermatological emergencies such as Sunburn, frostbite, marine envenomation, Contact dermatitis Identification and initial management of Dermatological emergencies in special populations-pediatrics and geriatrics Introduction to immunology and the role of the immune system in defense against pathogens Pathophysiology, assessment and treatment of Allergic reaction Anaphylaxis Anaphylactic shock Pathophysiology, assessment and initial treatment





	(A)		
	•	Immunological disorders	
	•	Adverse effects of Immunosuppressive	
		therapy	

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	2. Der Vas 3. Imr Jan Ma 4. Oly Eme			
Reference Book	Am 2. Infe Dav 3. Infe Res Isla	Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS) Infectious Diseases Manual Hardcover – 10 November 1995. by David Wilks, David Rubenstein, Mark Farrington Infectious Diseases: Smart Study Guide for Medical Students, Residents, and Clinical Providers Paperback – 1 January 2023. by Islam, Saif ul Patient Assessment Practice Scenarios by Les Hawthorne		

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	2	2	2	1
Avg. PO attained	2.60	2.60	2.00	1.00



Scho	ol: SSAHS	Batch: 2025-29			
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)			
Bran	ch:	Semester: 4			
1	Course Code	ETT2222			
2	Course Title	Paediatric Emergencies			
3	Credit	3			
4	Contact Hours (L-T-P)	1-2-0			
5	Course Status	Compulsory			
6	Course Objective	 To provide knowledge on anatomical and physichanges in the pediatric population To provide knowledge on general assessment for paediatric patients To provide knowledge on paediatric emergency recognition and treatment 	approach		
7	Course Outcome	On completion of this course students will be able CO1: Describe the anatomical and physiological of that pediatric patients have from adult patients CO2: Describe the assessment approach to the parpatient CO3: Describe the aetiology, pathophysiology, as and treatment of the general pediatric emergencies CO4: Describe the aetiology, pathophysiology, as and treatment of the special pediatric emergencies CO5: Describe the Assessment and treatment of intellectually and physically challenged pediatric	differences ediatric sessment s sessment		
	Course Description	This course is aimed at teaching the special character paediatric patient, assessment of the child and identi initial treatment of paediatric emergencies, including occur in physically and intellectually challenged paed	istics of the fication and those that		
9	Outline Syllabus	Theory			
	Unit-1A	Introduction to paediatric emergencies The stages of development from birth to adulthood	CO1		
	Unit-1B	Paediatric- Anatomy, Physiology and Pathophysiology Head and Neck Airway and respiratory system Respiratory and cardiovascular system Abdomen, Pelvis and musculoskeletal system Chest and lungs Integumentary system	CO1, CO3		
	Unit-1C	Paediatric patient assessment	CO2		





THE STATE OF THE S		
	 Scene Survey Primary survey and critical interventions History taking Secondary survey Reassessment 	
Unit-2A	Identification and initial management of Respiratory emergencies in children Respiratory Arrest, Distress and failure Upper and lower airway disorders / emergencies	CO3
Unit-2B	Identification of Cardiopulmonary arrest, and other respiratory emergencies	CO3
Unit-2C	General assessment and treatment of respiratory emergencies	CO3
Unit-3A	Identification and initial care of Cardiovascular Emergencies Dysrhythmia Congenital heart diseases Congestive heart Failure	CO3
Unit-3B	General assessment and treatment of heart diseases in children	CO3
Unit-3C	Recognition and management of shock in paediatric patients • Hypovolemic shock • Cardiogenic shock • Distributive shock	CO3
Unit-4A	Evaluation and Initial management of Neurological emergencies in children, including altered mental states	CO4
Unit-4B	Recognition and initial care of patients with seizures, meningitis,	CO4
Unit-4C	The diagnosis and initial management of children with hydrocephalus, closed head injuries and their sequelae	CO4
Unit-5A	The recognition and initial management of non-accidental injury in children (child abuse)	CO5
Unit-5B	Recognition of Neglect in children and their initial management	CO5
Unit-5C	Recognition of Violence on children including assault and the subsequent management.	CO5

Mode of Examination	Theory





CA	MTE	ETE	
20	20	60	
 Nancy Caroline's Emergency Care in the Streets-ninth edition Wyatt, Jonathan P., and others, 'Paediatric emergencies', Oxford Handbook of Emergency Medicine, 4 edn, Oxford Medical Handbooks (Oxford, 2012; online edn, Oxford Academic, 1 May 2012), https://doi.org/10.1093/med/9780199589562.003.0015, accessed 3 Sept. 2024. 			
 Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS) Workbook for Anatomy, Physiology & Disease: Foundation for the Health Professions by Deborah Roiger and Nia Bullock Patient Assessment Practice Scenarios by Les Hawthorne Paediatric Case Studies for the Paramedic by Stephen J Rahm. Pediatric Prehospital Care by David S. Markenson Textbook of Paediatric Emergency Medicine 3rd 			
	1. Em Inj (Az 2. Wo Ox Me Acc htt acc 1. Em Inj (Az 2. Wo For an 3. Pa 4. Pa Ra 5. Pe Textbo edition	1. Nancy Caroline's ninth edition 2. Wyatt, Jonathan F Oxford Handbook Medical Handbook Academic, 1 May https://doi.org/10/accessed 3 Sept. 2 1. Emergency Care a Injured by Americ (AAOS) 2. Workbook for Ana Foundation for the and Nia Bullock 3. Patient Assessme 4. Paediatric Case St Rahm. 5. Pediatric Prehosp Textbook of Paediatric	 20 20 60 Nancy Caroline's Emergency Care in the ninth edition Wyatt, Jonathan P., and others, 'Paedi Oxford Handbook of Emergency Medical Medical Handbooks (Oxford, 2012; on Academic, 1 May 2012), https://doi.org/10.1093/med/9780199 accessed 3 Sept. 2024. Emergency Care and Transportation of Injured by American Academy of Orthor (AAOS) Workbook for Anatomy, Physiology & Foundation for the Health Professions and Nia Bullock Patient Assessment Practice Scenarios Paediatric Case Studies for the Paramer Rahm. Pediatric Prehospital Care by David S. Textbook of Paediatric Emergency Medical edition. Editors: Cameron P, Browne G, B

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	2	1
CO2	3	2	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.80	2.60	2.00	1.00



Schoo	ol: SSAHS	Batch: 2025-29				
Progr	am	Bachelor of Science (Emergency and Trauma Care Technology)				
Branc	h:	Semester: 4				
1	Course Code	ETT2223				
2	Course Title	Geriatrics Emergencies				
3	Credit	2				
4	Contact Hours (L-T-P)	1-1-0	1-1-0			
5	Course Status	Compulsory				
6	Course Objective	 To provide knowledge on anatomical and physichanges and differences in the geriatric patient regular younger adult patients To provide knowledge on geriatric patient associand treatment of emergencies To provide knowledge on recognition and treatment of patient's with special challenges 	ts from essment			
7	Course Outcome	On completion of this course students will be able CO1: Describe the anatomical and physiological of and differences in geriatric patients vs younger ad CO2: Describe the assessment approach to the generation patient CO3: Describe the aetiology, pathophysiology, as and treatment of general emergencies in geriatric CO4: Describe the aetiology, pathophysiology, re and treatment of geriatric patients with special characteristics.	changes ults riatric ssessment patients cognition allenges			
	Course Description	This course is designed to cover the anatomical and periatric changes/differences in geriatric populations, geriatric and geriatric patients with special challenges including	physiological c emergencies			
9	Outline Syllabus	Theory				
	Unit-1A	Introduction to geriatric emergencies	CO1			
	Unit-1B	Geriatrics: Anatomical and physiological changes in the elderly	CO1			
	Unit-1C	Responses to disease and injury in geriatric patients	CO1			
	Unit-2A	Assessment of geriatric patients	CO2			
	Unit-2B	Assessment and Treatment of general medical complaints in geriatric patient	CO2,CO3			
	Unit-2C	Presentation and initial management of Trauma in the elderly	CO2, CO3			
	Unit-3A	Provision of End of life care to those in need	CO4			
	Unit-3B	Palliative care for elderly patients	CO4			





Unit-3C	Identification and managed of Neglect in the elderly	CO4
Unit-4A	Managing the elderly patient who is a victim of Assault, including elderly abuse and neglect	CO4
Unit-4B	 Management of Patients with Special Needs: Physical challenges Mental challenges Pathological changes And Terminally ill patients 	CO4
Unit-4C	Assessment and management of Patients with communicable diseases	CO4
Unit-5A	Opportunities for home care in geriatric patients	CO5
Unit-5B	Assessment and initial management of elderly patients in emergency department	CO3, CO5
Unit-5C	Emergency observation care for the elderly patient	CO3,C05

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	ed 2. Em Inj (A/ 3. Cre Scl 4. Ge	ition nergency Care a ured by Americ AOS) eating a Geriatr numacher, Don riatric Emerger	Emergency Care in the and Transportation of an Academy of Ortholic Emergency Depart Melady ncy Medicine, An Issue by Christopher R. C	f the Sick and opaedic Surgeons cment by John ue of Clinics in
Reference Book	Geriatric Emergencies A Case-Based Approach to Improving Acute Care. Lee A. Lindquist, Scott M. Dresden			

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	1	1
CO2	3	2	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	2	2	2	1
Avg. PO attained	2.60	2.40	1.80	1.00



School: SSAHS Batch: 2025-29					
Progra	am	Bachelor of Science (Emergency and Trauma Care Technology)			
Branch:		Semester: 4			
1	Course Code	ETT2224			
2	Course Title	Environmental, Toxicological, and Psychological Eme	rgencies		
3	Credit	2			
4	Contact Hours (L-T-P)	1-1-0			
5	Course Status	Compulsory			
7	Course Objective Course Outcome	 To provide knowledge on recognition and treatment of environmental emergencies To provide knowledge on recognition and treatment of toxicological emergencies To provide knowledge to assess and recognize psychiatric emergencies and initiate care. At the end of the course students will be able to: CO1: Describe the common varieties of environmental emergencies 			
		 CO2: Describe the aetiology, pathophysiology, assessment and treatment of thermal (heat and cold), drowning and other water-based emergencies. CO3: Describe the aetiology, pathophysiology, assessment and treatment of high altitude sicknesses, and travel-related diseases CO4: Describe the types, aetiology, pathophysiology, assessment and treatment of poisoned patients CO5: Describe common psychiatric emergencies, and their recognition and initial care. 			
	Course Description	This course is designed to cover environmental, toxic psychiatric emergencies for their aetiology, patholog pathophysiology, assessment and treatment. Studen to recognize and explain the treatments of these em	ts will be able		
9	Outline Syllabus	Theory			
	Unit-1A	Environmental emergencies- Introduction	CO1		
	Unit-1B	Heat illnesses and injuries	CO2		
	Unit-1C	Cold injuries	CO2		
	Unit-2A	Drowning	CO2		
	Unit-2B	Diving injuries	CO2		
	Unit-2C	Altitude illness Travel medicine	CO3		
	Unit-3A	Poisoning management systems	CO4		
	Unit-3B	Types of toxicological emergencies	CO4		
	Unit-3C	Poison centres	CO4		





	Routes of absorption	
Unit-4A	A Toxidromes	
	Substance abuse	
	Alcoholism	
Unit-4B	Assessment and management of specific poisoning	CO4
Unit-4C	Bites	CO4
	Stings	
	Injected poisons	
Unit-5A	Recognition, assessment of Psychiatric	CO5
	emergencies –	
	 Neuroses 	
	 Psychosis 	
	Delirium and dementia	
Unit-5B	Management of Psychiatric illnesses	CO5
Unit-5C	Approach to the Hostile and violent patient	CO5

Mode of Examination	Theory				
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	htt file Em 2. To: Em 3. Ra 'Ps Me 20 htt	MTE ETE			





Reference Book

- Goldfrank's Toxicologic Emergencies, 11th edition. Lewis S. Nelson, Mary Ann Howland, Neal A. Lewin, Silas W. Smith, Lewis R. Goldfrank, Robert S. Hoffman
- 2. Sudarsanan S, Chaudhury S, Pawar AA, Salujha SK, Srivastava K. Psychiatric Emergencies. Med J Armed Forces India. 2004 Jan;60(1):59-62. doi: 10.1016/S0377-1237(04)80162-X. Epub 2011 Jul 21. PMID: 27407580; PMCID: PMC4923517
- 3. Adeniyi OV, Puzi N. Management approach of patients with violent and aggressive behaviour in a district hospital setting in South Africa. S Afr Fam Pract (2004). 2021 Oct 27;63(1):e1-e7. doi: 10.4102/safp.v63i1.5393. PMID: 34797099; PMCID: PMC8603198.
- Harwood RH. Symposium Report. How to deal with violent and aggressive patients in acute medical settings J R Coll Physicians Edinb 2017; 47: 176–82. doi: 10.4997/JrCPe.2017.218
- Gordian Fulde, Paul Preisz. Managing aggressive and violent patients. Australian Prescriber. 2011; 34(4): 115-118Paola Rocca, Vincenzo Villari, Filippo Bogetto. Managing the aggressive and violent patient in the psychiatric emergency. Progress in Neuro-Psychopharmacology and Biological Psychiatry. 2006; Volume 30, Issue 4: 586-598,. SSN 0278-5846. https://doi.org/10.1016/j.pnpbp.2006.01.015

6.

7. Victoria A. Coburn, MD, Mark B. Mycyk. Physical and Chemical Restraints. Emerg Med Clin N Am. 2009; 27: 655–667 doi:10.1016/j.emc.2009.07.003 The Mental Health care Act, India, 2017.

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.60	2.60	1.80	1.00



School: SSAHS		Batch: 2025-29				
Progr	am	Bachelor of Science (Emergency and Trauma Care Technology)				
Branc	ch:	Semester: 4				
1	Course Code	ETT2225				
2	Course Title	Healthcare and Ambulance Services Management				
3	Credit	2				
4	Contact Hours (L-T-P)	1-1-0				
5	Course Status	Compulsory				
7	Course Objective Course Outcome	 To provide knowledge about hospitals and its units To provide knowledge about legal statutes and regulations governing the operations of medical clinics in India and to create an understanding of the emergency medical services regulations and statutes in India To provide knowledge on organization, management and operations of hospitals and Emergency Departments At the end of course students will be able to: 				
	Course outcome	CO1: Describe the organization of a hospital and its facilities CO2: Describe the contents of the Clinical Establishments (Registration and Regulation) Act and the laws related to Ambulances in India CO3: Describe the principal hospital procedures and system of management CO4: Describe the organization of Emergency Departments in India CO5: Describe the human resource management, financial management and information technology in hospital				
	Course Description	This course describes the organization and management of hospitals, Emergency Departments in India and explains the contents of the laws related to Ambulances in India`				
9	Outline Syllabus	Theory				
	Unit-1A	 Classification of Hospitals in India Public and Private Hospitals Organization of a Hospital Facilities in a Hospital Healthcare workers and their rights and responsibilities 	CO1			
	Unit-1B	 Clinical and non-clinical departments Departmental organization Healthcare Manpower Ancillary departments 	CO1			





The same and the s		
	 5. Lab 6. Pharmacy 7. Imaging 8. Physio/Speech 9. Patient flow in a hospital 	
Unit-1C	 Patient support Services- Admission, Medical insurance, Dietary Social Services Health information Management Medical record Electronic medical record Blood bank Hospital safety 	CO1
Unit-2A	 National Medical Commission Act, 2019 (and amendments): Clinical Establishments (Registration and Regulation) Act, 2010: Drugs and Cosmetics Act, 1940: Pharmacy Act, 1948: Consumer Protection Act, 1986 (and the Consumer Protection Act, 2019): Medical Termination of Pregnancy Act, 1971 (and amendments): Transplantation of Human Organs and Tissues Act (THOTA), 1994 (and amendments): Mental Healthcare Act, 2017: The Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act, 1995: Information Technology Act, 2000 Biomedical Waste Management Rules, 2016: The Employees' State Insurance Act, 1948: The Maternity Benefit Act, 1961 (and amendments) National Accreditation Board for Hospitals & Healthcare Providers (NABH) Standards: 	CO2
Unit-2B	 Organisation of Ambulances and Ambulance Services in India Organisation of Ambulances and Ambulance Services around the world 	CO2
Unit-2C	The Laws related to Ambulances in India	CO2
Unit-3A	Operating hospitals and Medical Clinics In India	CO3
Unit-3B	Emergency departments and Emergency Medicine in India	CO3





	MI.	
Unit-3C	Patient flow and Operations of an emergency department	CO3
Unit-4A	Management of hospital- Introduction, importance, roles and responsibilities of hospital manager	CO4
Unit-4B	Hospital operations management	CO4
Unit-4C	Healthcare Quality and patient safety	CO5
Unit-5A	Human resource Management	CO5
Unit-5B	Legal and ethical aspects of healthcare management	CO5
Unit-5C	Information technologies in healthcare management	CO5
Unit 5D	Financial Management of Hospitals	CO5

Mode of Examination	Theory					
Weightage Distribution	CA	MTE	ETE			
	20	20	60			
Text Book	1- Nancy Caroline's Emergency Care in the Streets					
	2-		ealthcare Management" by	y K.V. Ramani,		
		Dileep Mavalar	nkar, and Dipti Govil			
Reference Book	1.		ıl establishments (Registra	tion and Regulation)		
		Act, 2010. Chrome-				
	extension://efaidnbmnnnibpcajpcglclefindmkaj/https://ww					
	w.indiacode.nic.in/bitstream/123456789/7798/1/201023_cli					
	nical_establishments_%28registration_and_regulation%29					
	_act%2C_2010.pdf					
	2. Laws related to Ambulances in India By Sukriti					
		VermaPublished				
	on	on 28 Nov 2022 7:57				
	PM.https://www.legalbites.in/topics/articles/laws-related-to-					
	ambulances-in-india-358420					

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	1	1	1	1
CO3	1	1	1	1
CO4	2	2	1	1
CO5	1	1	1	1
Avg. PO attained	1.20	1.20	1.00	1.00



Scho	ol: SSAHS	Batch: 2025-29				
Program		Bachelor of Science (Emergency and Trauma Care Technology)				
Branch :		Semester: 4				
1	Course Code	ETT2226				
2	Course Title	Teaching Techniques in healthcare, Research, HIS, F Management, Digital Medicine	Project			
3	Credit	02				
4	Contact Hours (L-T-P)	1-1-0				
5	Course Status	Compulsory				
6 Course Objective 1. To introduce students to the basic Teaching te healthcare			•			
		2. To provide knowledge on project manageme	nt and			
		communication in the healthcare setting				
		3. To provide knowledge on Scientific paper wr	iting, data			
		collection and management.				
		4. To provide knowledge on digital medicine				
_		5. To outline the principles and practice of patie	ent transfers			
7	Course Outcome	At the end of course students will be able to:	av usad in			
		CO1: Describe teaching techniques and technology teaching.	gy used iii			
		CO2: Describe project management principles in	healthcare			
		settings	iicaitiicai c			
		CO3: Able to draft scientific paper and to organize data for				
		management decision making, emergency depar				
		information system				
		CO4: Understand hospital information systems				
		CO5: Understand the principles and concerns when				
		organizing patient transfers and digital medicine				
	Course Description	This course covers the principles of teaching method				
		management in healthcare and scientific paper writi	_			
		provides an overview of hospital information systems and principles				
		of digital medicine. Finally the course discusses the	stanuarus and			
9	Outling Syllabus	pitfalls of patient transfers. Theory				
3	Outline Syllabus Unit-1A	Basic principles of Teaching Techniques in	CO1			
	OIIII-1A	healthcare	CO1			
	Unit-1B	Technologies used in teaching	CO1			
	Unit-1C	Types of Teaching techniques in healthcare	CO1			
	Unit-2A	Project Management- Introduction, definition and	CO2			
		importance of project management				
	Unit-2B	Project initiation- Charter and identification of	CO2			
		project need, project planning and execution				
	Unit-2C	Monitoring and control of healthcare projects	CO2			
	Unit-2D	Closing of project	CO2			





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Unit-3A	Writing a Scientific paper	CO3
Unit-3B	Drafting introduction and objectives	CO3
Unit-3C	Data and data management	CO3
Unit-3D	Discussing the results and conclusion	CO3
Unit-4A	Hospital information systems	CO4
Unit-4B	Emergency department information systems	CO4
Unit-4C	Emergency ambulance information systems	CO4
Unit-5A	Digital medicine	CO5
Unit-5B	Patient outcomes in emergency department	CO5
Unit-5C	Patient transfers to other facilities	CO5

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	1-	Hoogenboom BJ, Mai	ske RC. How to write a	scientific article. Int J
		Sports Phys Ther. 201 PMC3474301.	2 Oct;7(5):512-7. PMID	: 23091783; PMCID:
	2-		.M., Donahue, K., Havril	la, C.A., Oliverio,
			Shoemaker, L.G. and Vi	
			de Easy: A Step-by-Step	
		Undergraduate Writing	ng in the Biological Scier	nces. Bull Ecol Soc Am,
		97: 417-426. https://	doi.org/10.1002/bes2.12	<u>258</u>
	3-	Practical Statistics for	Medical Research by Do	ouglas G. Altman
	4-	Digital Guardian. Data	Protection 101. What i	is a Health
		Information System? by Chris Brook on Thursday August 22, 2024.		
		https://www.digitalguardian.com/blog/what-health-information-		
		<u>system</u>		
	5-	Winter A, Ammenwerth E, Haux R, et al. Health Information		
		•	al and Management Per	
		·	I): Springer; 2023. Chap	ter 2, Basic Concepts
		and Terms. 2023 Mar		
		• • •	n.nih.gov/books/NBK60	2592/ doi:
		10.1007/978-3-031-1	_	
	6-	-	ect Management. Projec	-
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		management-		
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			R2s2YKWegHWKiRlCFnT	fsRH7OzRZCgNdJBoRy
		<u>q-</u>		
			&wickedid=&wcid=211	
			KCAjw59q2BhBOEiwAK	
			H7OzRZCgNdJBoRyq-iBx	
	7-		C, Karlin DR, Nebeker C	
		Zimmerman N, Erb M	K. Digital Medicine: A P	rimer on





	 Measurement. Digit Biomark. 2019 May 9;3(2):31-71. doi: 10.1159/000500413. PMID: 32095767; PMCID: PMC7015383. 8- Kulshrestha A, Singh J. Inter-hospital and intra-hospital patient transfer: Recent concepts. Indian J Anaesth. 2016 Jul;60(7):451-7. doi: 10.4103/0019-5049.186012. PMID: 27512159; PMCID: PMC4966347.
Reference Book	 Burgess, A., van Diggele, C., Roberts, C. et al. Key tips for teaching in the clinical setting. BMC Med Educ 20 (Suppl 2), 463 (2020). https://doi.org/10.1186/s12909-020-02283-2 Challa KT, Sayed A and Acharya Y. Modern techniques of teaching and learning in medical education: a descriptive literature review [version 1]. MedEdPublish 2021, 10:18 (https://doi.org/10.15694/mep.2021.000018.1) Pandit AS (2022) Contemporary learning techniques for healthcare professionals: A narrative review. Front. Educ. 7:939809. doi: 10.3389/feduc.2022.939809 Clinical Procedures for Safer Patient Care. Chapter 3. Safe Patient Handling, Positioning, and Transfers. https://opentextbc.ca/clinicalskills/chapter/3-7-transfers-and-ambulation/

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	3	1
CO2	1	1	1	3
CO3	1	1	1	3
CO4	1	2	1	1
CO5	2	2	1	1
Avg. PO attained	1.20	1.40	1.40	1.80



			1			
School: SSAHS		Batch: 2025-29				
Program		Bachelor of Science (Emergency and Trauma Care	Technology)			
Bran	ch:	Semester: 4				
1	Course Code	ETP2221				
2	Course Title	Infectious Diseases, Dermatological diseases and In Disorders	Infectious Diseases, Dermatological diseases and Immunological Disorders			
3	Credit	2				
4	Contact Hours (L-T-P)	0-0-4				
5	Course Status	Compulsory				
6	Course Objective	 To practice the infection control procedure in the hospital environment. To practice recognition and treatment of infectious emergencies To practice recognition and treatment of immunological disorders To practice recognition and treatment of dermatological disorders 				
7	Course Outcome	Students will be able to: CO1: Demonstrate infection precautions in both and in-hospital environments CO2: Demonstrate the use of infection control phealthcare settings CO3: Demonstrate Assessment and treatment of patients in both simulated and clinical environments CO4: Demonstrate the Assessment and treatment presenting with immunological emergencies CO5: Demonstrate the Assessment and treatment with dermatological emergencies.	practices in f infectious nents nt of patients			
	Course Description	This practical course provides opportunities for the practice the various skills in assessment and organi patients with infectious diseases, dermatological dimmunological emergencies	zing treatment of			
9	Outline Syllabus	Practical				
	Unit 1A	Infection precautions in both pre-hospital and in-hospital environments-1	CO1			
	Unit 1B	Infection precautions in both pre-hospital and in-hospital environments-2	CO1			
	Unit 1C	Infection precautions in both pre-hospital and in-hospital environments-3	CO1			
	•	•				





Unit 2A	Infection control practices and Safe practices in healthcare settings-1	CO2
Unit 2B	Infection control practices and Safe practices in healthcare settings-2	CO2
Unit 2C	Infection control practices and Safe practices in healthcare settings-3	CO2
Unit 3A	Assessment and treatment of the patients with Infectious diseases-1	CO3
Unit 3B	Assessment and treatment of the patients with Infectious diseases-2	CO3
Unit 3C	Assessment and treatment of the patients with Infectious diseases-3	CO3
Unit 4A	Assessment and treatment of patients with Immunological emergencies—Allergies and anaphylaxis-1	CO4
Unit 4B	Assessment and treatment of patients with Immunological emergencies—Allergies and anaphylaxis-2	CO4
Unit 4C	Assessment and treatment of patients with Immunological emergencies—Allergies and anaphylaxis-3	CO4
Unit 5A	Assessment and treatment of patients with dermatological emergencies-1	CO5
Unit 5B	Assessment and treatment of patients with dermatological emergencies-2	CO5
Unit 5C	Assessment and treatment of patients with dermatological emergencies-3	CO5

Mode of Examination	Practio	Practical			
Weightage Distribution	CA		MTE	ETE	
	20		20	60	
Text Book	1. Nan		Nancy Caroline's Emergency Care in the Streets		
	2.	Interna	tional Wound Infe	ection Institute. Wour	nd Infection in
		Clinical	Practice: Principle	es of best practice. Th	ird Edition.2022
	3.	Habbou	ısh Y, Yarrarapu S	NS, Guzman N. Infect	ion Control.
		[Update	ed 2023 Sep 4]. In	: StatPearls [Internet]]. Treasure Island
	(FL): StatPearls Publishing; 2024 Jan Available from		e from:		
		https://	/www.ncbi.nlm.ni	h.gov/books/NBK519	<u>017/</u>
	4.	Infectio	n Prevention and	Control. A Social Scie	ence Perspective.
		Edited I	By Paul Elliott, Juli	ie Storr, Annette Jean	ies
	5.	George	Coltart, Adam Fit	yan. Acute dermatolo	ogical emergencies.
		Medicir	ne. Volume 49, Iss	ue 3. 2021. Pages 17	3-178. ISSN 1357-
	3039. https://doi.org/10.1016/j.mpmed.2020.12.01		<u>.12.011</u> .		
	6.	Davey,	Patrick, David Spr	igings, and Siraj Misb	ah, 'Clinical features
		and dia	gnosis of immuno	logical disease', in Pa	trick Davey, and





		David Sprigings (eds), Diagnosis and Treatment in Internal
		Medicine (Oxford, 2018; online edn, Oxford Academic, 1 Aug.
		2018). https://doi.org/10.1093/med/9780199568741.003.0294,
		accessed 3 Sept. 2024
	7.	Janeway CA Jr, Travers P, Walport M, et al. Immunobiology: The
		Immune System in Health and Disease. 5th edition. New York:
		Garland Science; 2001. Chapter 1, Basic Concepts in Immunology.
		Available from: https://www.ncbi.nlm.nih.gov/books/NBK10779/
	8.	Basic Immunology Functions and Disorders of the Immune
		System. Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai
		,
Reference Book	1.	Emergency Care and Transportation of the Sick and Injured by
		American Academy of Orthopaedic Surgeons (AAOS)
	2.	Dermatologic Emergencies RICHARD P. USATINE, and NATASHA
		SANDY, chrome-
		extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.bu
		mc.bu.edu/emergencymedicine/files/2016/07/Derm-
		Emergencies.pdf
	3.	Immunosuppressive Medication for the Treatment of
		Autoimmune Disease. American Academy of Allergy, Asthma &
		Immunology. https://www.aaaai.org/conditions-
		treatments/related-conditions/immunosuppressive
		S. Cathirents, Ferancial Container of Millians Supples Sive

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.60	2.60	2.00	1.00



School: SSAHS		Batch: 2025-29		
Prog	ram	Bachelor of Science (Emergency and Trauma Care To	echnology)	
Bran	ich :	Semester: 4		
1	Course Code	ETP2222		
2	Course Title	Paediatric and Geriatric Emergencies		
3	Credit	2		
4	Contact Hours (L-T-P)	0-0-4		
5	Course Status	Compulsory		
6	Course Objective	 To practice recognition and treatment of patie paediatric emergencies To practice recognition and treatment of patie geriatric emergencies To practice recognition and treatment of paedigeriatric patients with special challenges includer and end life care to the geriatrics 	nts with	
7	Course Outcome	Students will be able to: CO1: Demonstrate the identification of anatomical physiological changes/differences in paediatric ampatients CO2: Demonstrate the step-by-step assessment of paediatric patient CO3: Demonstrate the recognitions and treatment with common paediatric emergencies CO4: Demonstrate the recognition and treatment with common geriatric emergencies CO5: Demonstrate the recognition and treatment paediatrics and geriatrics with special challenges home care and end life care	of patients of the	
	Course Description	This practical course will cover the demonstration and identificatio of anatomical and physiological changes and assessment & treatment of patients with paediatric and geriatric emergencies including special need and home care to the patients.		
9	Outline Syllabus	Practical		
	Unit 1A	Identification of anatomical, physiological and pathological changes in the paediatric and geriatric age groups-1	CO1	
	Unit 1B	Identification of anatomical, physiological and pathological changes in the paediatric and geriatric age groups-2	CO1	
	Unit 1C	Identification of anatomical, physiological and pathological changes in the paediatric and geriatric age groups-3	CO1	





Unit 2A	Patient assessment in paediatric patient with Respiratory Arrest, Distress and failure Upper and lower airway disorders / emergencies	CO2
Unit 2B	Patient assessment in paediatric patient with Cardiopulmonary arrest respiratory emergencies	CO2
Unit 2C	Patient assessment in paediatric patient with Dysrhythmia Congenital heart diseases Congestive heart Failure	CO2
Unit 3A	Assessment and treatment of paediatric patients with Hypovolemic shock Cardiogenic shock Distributive shock	CO3
Unit 3B	Assessment and treatment of paediatric patients with Seizures Meningitis Neurological disorders	CO3
Unit 3C	Assessment and treatment of paediatric patients with Hydrocephalus head injuries assault and neglect	CO3
Unit 4A	Assessment and treatment of medical and trauma complaints in geriatric patients-1	CO4
Unit 4B	Assessment and treatment of medical and trauma complaints in geriatric patients-2	CO4
Unit 4C	Assessment and treatment of medical and trauma complaints in geriatric patients-3	CO4
Unit 5A	Assessment and treatment of special needs paediatric and geriatric patients, home care, end-of-life care-1	CO5
Unit 5B	Assessment and treatment of special needs paediatric and geriatric patients, home care, end-of-life care-2	CO5
Unit 5C	Assessment and treatment of special needs paediatric and geriatric patients, home care, end-of-life care-3	CO5





Mode of Examination	Praction	Practical						
Weightage Distribution	CA	MTE	ETE					
	20	20	60					
Text Book	1.	Nancy Card	line's Emergency C	Care in the Streets				
	2.	2. Wyatt, Jonathan P., and others, 'Paediatric emergencies',						
		Oxford Har	idbook of Emergen	cy Medicine, 4 edn, Oxford				
		Medical Ha	ndbooks (Oxford, 2	2012; online edn, Oxford				
		Academic,	1 May 2012),					
		https://doi	.org/10.1093/med,	/9780199589562.003.0015,				
			Sept. 2024.					
	3.	_	_	y Department by John				
		Schumache	er, Don Melady					
Reference Book	1.	1. Emergency Care and Transportation of the Sick and						
		Injured by American Academy of Orthopaedic Surgeons						
		(AAOS)	· · · · · · · · · · · · · · · · · · ·	0.00				
	2.	2. Workbook for Anatomy, Physiology & Disease:						
				fessions by Deborah Roiger				
	2	and Nia Bu		aananiaa huulaa Haushanna				
		B. Patient Assessment Practice Scenarios by Les Hawthorne B. Paediatric Case Studies for the Paramedic by Stephen J						
	4.	Rahm.	Lase studies for the	e Paramedic by Stephen J				
	6.	5. Pediatric Prehospital Care by David S. Markenson6. Textbook of Paediatric Emergency Medicine 3rd edition						
	0.		_	i, Biswadev M, Dalziel S,				
		Craig S	ncion F, blowne c	i, Diswadev IVI, Daiziel 3,				
	7	_	margancias A Casa-	Based Approach to				
	/.		_	Lindquist, Scott M. Dresden				
		improving /	Acute Care. Lee A.	Linaquist, Scott Wi. Diesaen				

POs Cos	PO1	PO2	PO3	PO4
CO1	2	1	2	1
CO2	3	2	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.80	2.40	2.00	1.00



Scho	ool: SSAHS	Batch: 2025-29				
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)				
Bran	ich:	Semester:				
1	Course Code	ETP2223				
2	Course Title	Environmental, Toxicological Diseases, Psychological	Disorders			
3	Credit	2				
4	Contact Hours (L-T-P)	0-0-4				
5	Course Status	Compulsory				
6	Course Objective	 To practice recognition of environmental, toxical and psychological emergencies To practice treatment of environmental, toxical psychological emergencies 	_			
7	Course Description	At the end of course students will be able to: CO1: Demonstrate the assessment of environmental emergencies including heat, cold diving drowning and high altitude sicknesses CO2: Demonstrate the treatment of environmental emergencies including heat, cold diving drowning and high altitude sicknesses CO3: Demonstrate the recognition and treatment of poisoning including sting and bite CO4: Demonstrate the assessment and treatment of psychological emergencies CO5: Demonstrate the use of restraint techniques				
	Course Description	This practical course enables students to conduct the and treatment of environmental, toxicology and psycemergencies.				
9	Outline Syllabus	Practical				
	Unit 1A	Assessment and treatment of heat, cold, drowning, diving and high altitude sickness emergencies-1	CO1,CO2			
	Unit 1B	Assessment and treatment of heat, cold, drowning, diving and high altitude sickness emergencies-2	CO1,CO2			
	Unit 1C	Assessment and treatment of heat, cold, drowning, diving and high altitude sickness emergencies-3	CO1,CO2			
	Unit 2A	Assessment and treatment of different types of poisoning including specific poisoning- Bite stings and injected poisoning-1	CO3			
	Unit 2B	Assessment and treatment of different types of poisoning including specific poisoning- Bite stings and injected poisoning-2	CO3			





Uni	it 2C	Assessment and treatment of different types of poisoning including specific poisoning- Bite stings and injected poisoning-3	CO3
Uni	it 3A	Assessment and treatment of the Psychiatric disorders and emergencies-1	CO4
Uni	it 3B	Assessment and treatment of the Psychiatric disorders and emergencies-2	CO3
Uni	it 3C	Assessment and treatment of the Psychiatric disorders and emergencies-3	CO3
Uni	it 4A	Assessment and treatment of hostile and violent patients-1	CO4
Uni	it 4B	Assessment and treatment of hostile and violent patients-2	CO4
Uni	it 4C	Assessment and treatment of hostile and violent patients-3	CO4
Uni	it 5A	Restraint techniques-1	CO5
Uni	it 5B	Restraint techniques-2	CO5
Uni	it 5C	Restraint techniques-3	CO5

Mode of Examination	Practical					
Weightage Distribution	CA	MTE	ETE			
	20	20	60			
Text Book	2. T E 3. R 'I N 2	Environmental Emergencies. https://www.moh.gov.bt/wp-content/uploads/moh-files/2017/10/Chapter-10-Environmental-Emergencies.pdf Toxicology Nurse: Critical Care Nursing in Toxicological Emergencies by Vivekanshu Verma, Sandhy Medanta Ramrakha, Punit S., Kevin P. Moore, and Amir H. Sam, 'Psychiatric emergencies', Oxford Handbook of Acute Medicine, 4 edn, Oxford Medical Handbooks (Oxford, 2019; online edn, Oxford Academic, 1 Jan. 2019), https://doi.org/10.1093/med/9780198797425.003.0013 , accessed 3 Sept. 2024				
Reference Book	2. S F 1	Goldfrank's Toxicologic Emergencies, 11 th edition. Lewis S. Nelson, Mary Ann Howland, Neal A. Lewin, Silas W. Smith, Lewis R. Goldfrank, Robert S. Hoffman Sudarsanan S, Chaudhury S, Pawar AA, Salujha SK, Srivastava K. Psychiatric Emergencies. Med J Armed Forces India. 2004 Jan;60(1):59-62. doi: 10.1016/S0377-1237(04)80162-X. Epub 2011 Jul 21. PMID: 27407580; PMCID: PMC4923517.				





3. Registered Nurses Association of Ontario, Canada.
Promoting safety: Alternative Approaches to the Use of
Restraints. 2012. Toronto
College of Nurses of Ontario. Understanding Restraints.

POs Cos	PO1	PO2	PO3	PO4
CO1	3	2	2	1
CO2	2	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	2.80	2.80	200	1.00



Scho	ol: SSAHS	Batch: 2025-29					
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)					
Bran	ch:	Semester: 4					
1	Course Code	ETP2224					
2	Course Title	Basic Trauma Life Support Instructor Training					
3	Credit	1					
4	Contact Hours (L-T-P)	0-0-2					
5	Course Status	Compulsory					
6	Course Objective	To equip students with the skills in conducting the balife support provider course to health care providers.	sic trauma				
7	Course Outcome	At the end of course students will be able to: CO1: Demonstrate principles of teaching trauma skills CO2: Maintain the trauma training aids CO3: Teach basic trauma course CO4: Practice students trauma skills CO5: Assess the trauma skill stations					
	Course Description	This course will equip students with the teaching tec teaching the BTLS Provider program	hniques for				
9	Outline Syllabus	Practical					
	Unit 1A	Principles of teaching trauma skills-1	CO1				
	Unit 1B	Principles of teaching trauma skills-2	CO1				
	Unit 1C	Principles of teaching trauma skills-3	CO1				
	Unit 2A	Use and maintenance of trauma training aids-1	CO2				
	Unit 2B	Use and maintenance of trauma training aids-2	CO2				
	Unit 2C	Use and maintenance of trauma training aids-3	CO2				
	Unit 3A	Practice conduct of lectures in trauma life support-	CO3				
	Unit 3B	Practice conduct of lectures in trauma life support-	CO3				
	Unit 3C	Practice conduct of lectures in trauma life support-	CO3				
	Unit 4A	Practise conduct of practical trauma life support stations-1	CO4				
	Unit 4B	Practise conduct of practical trauma life support stations-2	CO4				
	Unit 4C	Practise conduct of practical trauma life support stations-3	CO4				
	Unit 5A	Practice assessment of test stations-1	CO5				
	Unit 5B	Practice assessment of test stations-2	CO5				
	Unit 5C	Practice assessment of test stations-3	CO5				





Mode of Examination	Practical				
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	2. W tra <u>ht</u>	International Trauma Life Support for Emergency Care Providers. Roy Alson, John Campbell. 9th Edition. What are the benefits of instructor-led training for training providers and learners? https://www.arlo.co/blog/benefits-of-instructor-led-training			
Reference Book	Pr 2. W tra <u>ht</u>	International Trauma Life Support for Emergency Care Providers. Roy Alson, John Campbell. 9th Edition. What are the benefits of instructor-led training for training providers and learners? https://www.arlo.co/blog/benefits-of-instructor-led-training			

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	3	1
CO2	1	1	3	1
CO3	2	2	3	1
CO4	2	2	3	1
CO5	1	1	3	1
Avg. PO attained	1.60	1.60	3.00	1.00



5th Semester



Program Structure Template School of Allied Health Sciences Bachelor of Science (Emergency and Trauma Care Technology)

Batch: 2025-29 TERM:5

Sr. Subject Code				Teaching Load			Core/El ective/ Pre	Type of Course					
No.	Subject Code	Subject	L	Т	Р	Cre dit	Requisi te/Co Requisi te	CC/AEC C/SEC/D SE					
Theo	ry Modules												
1	ETT3301	The World Health Organization's Emergency Care Framework	01	01	00	02	Major	СС					
		Quality of Care in Hospitals, Community, and Ambulances and Clinical Care Protocols											
2	ETT3302	Cillical Care Protocols	01	01	00	02	Major	CC					
Pract	ical Modules												
3	ETP3301	Clinical Care In Ambulance-2	00	00	08	04	Major	CC					
4	ETP3302	Clinical Care in Emergency Departments-1	00	00	08	04	Major	СС					
5	ETP3303	Clinical Care in Community Health Centres-2	00	00	08	04	Major	СС					
6	ETP3304	Clinical Care in ICUs		00	06	03	Major	CC					
7	ETP3305	Disaster Management Exercise-2	00	00	02	01	Minor	CC					
		Total Hours	02	02	32	20							



Schoo	ol: SSAHS	Batch: 2025-29				
Progr	ram	Bachelor of Science (Emergency and Trauma Care Te	echnology)			
Brand	ch:	Semester: 5				
1	Course Code	ETT3301				
2	Course Title	The World Health Organization's Emergency Care Fra	mework			
3	Credit	2				
4	Contact Hours (L-T-P)	1-1-0				
5	Course Status	Compulsory				
6	Course Objective	 To create a clear understanding about emerger response and the WHO's emergency care fram To understand the various facets of fragmentar integration in emergency care in the communi To understand the need for and the challenges organizing emergency healthcare programs in community 	nework tion and ty in			
7	Course Outcome Course Description	On completion of course students will be able to CO1: Describe the components of the WHO frame emergency care CO2: Describe the principles of emergency responsarious phases of the provision of care across the spectrum CO3: Understand the challenges faced in integration provision of healthcare CO4: Discuss potential solutions to achieve integration emergency care in the community CO5: Describe systems of organizing emergency programs that can benefit the community. This course describes the challenges that occur in property the program of the community, the WHO's standal emergency care and how to translate these into emergency care into emergency care and how to translate these into emergency care and how to translate the emergency care and how to transla	nse in the healthcare ng ration of healthcare ovision of rds in			
		programs for the community.				
9	Outline Syllabus	Theory				
	Unit-1A	The World Health organization's Emergency care framework, its components, guiding principles	CO1			
	Unit-1B	No regret policy of WHO on emergency care framework	CO1			
	Unit- 1C	Applications of the WHO emergency care framework in different communities	CO2			
	Unit-2A	Principles of emergency response in the community	CO2			
	Unit-2B	Type of emergencies in the community and their appropriate response	CO2			





Unit-2C	Resources used for emergencies in community	CO2
Unit- 3A	Fragmentation of emergency care across communities and its consequences	CO3
Unit- 3B	Consequences of emergency care fragmentation in the community	CO3
Unit- 3C	The approach to integration of emergency care in the community	CO3
Unit-4A	Potential solutions to fragmentation in pre-hospital emergency care	CO4
Unit- 4B	Potential solutions to fragmentation in Emergency Department care	CO4
Unit- 4C	Potential solutions to fragmentation in post ED care	CO4
Unit -5A	Organizing emergency healthcare programs in community- Requirements	CO5
Unit -5B	Organizing emergency healthcare programs in community- Legal adherence and intimations	CO5
Unit -5C	Organizing emergency healthcare programs in community- Organize program	CO5

Mode of Examination	Theory			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	He D' Pr ed Re Ne ht	Reynolds TA, Sawe H, Rubiano AM, et al. Strengthening Health Systems to Provide Emergency Care. In: Jamison DT, Gelband H, Horton S, et al., editors. Disease Control Priorities: Improving Health and Reducing Poverty. 3rd edition. Washington (DC): The International Bank for Reconstruction and Development / The World Bank; 2017 Nov 27. Chapter 13. Available from: https://www.ncbi.nlm.nih.gov/books/NBK525279/ doi: 10.1596/978-1-4648-0527-1_ch13		
Reference Book	Of Pr Pr W htt 3.9	Mock, Charles N.; Nugent, Rachel; Kobusingye, Dlive; Smith, Kirk R. 2017. Disease Control Priorities, Third Edition: Volume 7. Injury Prevention and Environmental Health. © Washington, DC: World Bank. http://hdl.handle.net/10986/28576 License: CC BY 8.0 IGO. Lecky, F.E., Reynolds, T., Otesile, O. et al. Harnessing inter-disciplinary collaboration to mprove emergency care in low- and middle-income countries (LMICs): results of research prioritisation etting exercise. BMC Emerg Med 20, 68 (2020).		





3. Anantharaman V et al. From Fragmentation to Integration in Emergency Medicine: Providing Care Our Patients Deserve. Medical Research Archives, [S.l.], v. 12, n. 4, apr. 2024. ISSN 2375-1924. Available at: https://esmed.org/MRA/mra/article/view/5279.

https://esmed.org/MRA/mra/article/view/5279>. Date accessed: 24 aug. 2024. doi: https://doi.org/10.18103/mra.v12i4.5279.

4. Jin Y, Maimaitiming M, Li J, Hoving DJ, Yuan B. Coordination of care to improve outcomes of emergency medical services. Cochrane Database Syst Rev. 2023 Mar 10;2023(3):CD015316. doi: 10.1002/14651858.CD015316. PMCID: PMC9999672.

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	1	1	1	1
CO3	1	1	1	1
CO4	2	2	1	1
CO5	1	1	1	1
Avg. PO attained	1.20	1.20	1.00	1.00



Schoo	ol: SSAHS	Batch: 2025-29			
Program 1		Bachelor of Science (Emergency and Trauma Care Technology)			
Branc		Semester: 5			
1	Course Code	ETT3302			
2	Course Title	Quality of Care in Hospitals, Community, and Ambula	inces and		
		Clinical Care Protocols			
3	Credit	2			
4	Contact Hours (L-T-P)	1-1-0			
5	Course Status	Compulsory			
6	Course Objective	 To introduce students to quality of care standards and guidelines as proposed by WHO and Indian authorities for emergency healthcare services. To provide knowledge on emergency department, and emergency ambulance care protocol, and guidelines, so the participants can be familiar with these To provide knowledge on how to evaluate and the factors that affect provision of quality care in the specific areas 			
7	Course Outcome	emergency care On completion of the course the students will be a CO1: Describe the quality emergency care and list quality of care standards proposed by WHO and winvolve. CO2: List out the quality of care standards suggest Indian authorities and what these involve CO3: Describe emergency care protocols used by Emergency Departments for specific medical conceardiac arrest, major trauma, breathless patients at CO4: Describe emergency care protocols for specimedical conditions to be used in emergency ambut CO5: Describe how quality improvement can be pand strategies to improve quality of care in hospital emergency departments and emergency ambulance.	st out the what these sted by the dition like and stroke. Eific clances promoted al		
	Course Description	This course provides students with a clear understanding of the quality care guidelines for the emergency services provided by authorities such as WHO and Ministry of Health authorities and protocols for emergency care in hospital emergency departments and in emergency ambulances. The course also provides guidance on measures and strategies that may be considered to improve quality of care in emergency departments and emergency ambulances			
9	Outline Syllabus	Theory			
	Unit-1A	Quality of emergency care in hospitals	CO1		
	Unit-1B	Key principles of quality care	CO1		





	• Safety	
	 Effectiveness 	
	Patient centeredness	
	• Timelines	
	• Efficiency	
	Equity	
Unit-1C	Patient satisfaction as an index of quality and how	CO1
	it may be measured	
Unit-2A	WHO guidelines on quality care and protocols for	CO1
	emergency care in hospitals and emergency	
	ambulances	
Unit-2B	Ministry Of Health and Family Welfare Guidelines	CO2
	on quality care and protocols for the emergency	
	services in India	
Unit-2C	Comparisons of WHO and MOHFW guidelines.	CO1,CO2
	Other international quality indices for emergency	
	services	
Unit-3A	Hospital care protocols- Emergency department:	CO3
	Triage system	
	Patient assessment and operational outcomes	
Unit-3B	Emergency Department- Managing common	CO3
	emergencies-	
	Cardiac arrest	
	Stroke	
	Trauma	
	Heart attacks	
	Bronchial Asthma / COPD	
	Other common emergencies	
Unit-3C	Hospital care protocols- for hospital-wide care:	CO3
	Assessment of patient	
	Monitoring patient	
	Managing falls, and hip fractures	
	Infection control and patient safety	
Unit-4A	Emergency Ambulance care protocols	CO4
Unit-4B	Ambulance Transportation protocols and	CO4
	standards, including operational and clinical quality	
	standards	
Unit-4C	Emergency ambulance care protocols – Basic and	CO4
	Advanced care in ambulances	
Unit-4D	Emergency ambulance care protocols:	CO4
	Coordination with call centres and hospital and,	
	·	
	handovers of patient with receiving emergency	
	handovers of patient with receiving emergency departments. Hospital standby criteria for critical	
	departments. Hospital standby criteria for critical	
Unit-5A		CO5





	Tools for assessing and improving quality of care	
Unit-5B	Audit of care in emergency ambulances and emergency departments Data collection and analyses	CO5
Unit- 5C	Continuous improvement strategies Implementing quality improvement initiatives Case study of successful quality improvement projects	CO5

Mode of Examination	Theory	ý		
Weightage	CA	MTE	ETE	
Distribution	20	20	60	

Text Book	 WHO Tools for strengthening emergency care systems https://www.who.int/emergencycare/ emergencycare@who.int Quality Framework for Emergency Departments. Australasian College of Emergency Medicine
Reference Book	 Hansen K, Boyle A, Holroyd B, Phillips G, Benger J, Chartier LB, Lecky F, Vaillancourt S, Cameron P, Waligora G, Kurland L, Truesdale M; IFEM Quality and Safety Special Interest Group. Updated framework on quality and safety in emergency medicine. Emerg Med J. 2020 Jul;37(7):437-442. doi: 10.1136/emermed-2019-209290. Epub 2020 May 13. PMID: 32404345; PMCID: PMC7413575. Emergency Department Transitions of Care: A Quality Measurement Framework. Final Report 2017. National Quality Forum, US Department of Health and Welfare Indian Health Facility Guidelines. Chapter 16: Emergency Unit. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://india.healthfacilityguidelines.com/Guidelines/ViewPDF/HFG-India/part_b_emergency_unit Misra A, Yadav DC, Kole T. Emergency care in India beyond 75 years of independence - problems and solutions. J Glob Health. 2023 Apr 14;13:03015. doi: 10.7189/jogh.13.03015. PMID: 37052203; PMCID: PMC10099406. National Health Systems Resource Centre. Technical Support Institute with National Health Mission https://qps.nhsrcindia.org/national-quality-assurance-standards



POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	1	1
CO2	2	2	1	1
CO3	2	2	1	1
CO4	2	2	2	1
CO5	2	2	2	3
Avg. PO attained	2.00	2.00	1.40	1.40



Scho	ol: SSAHS	Batch: 2025-29		
Prog	ram	Bachelor of Science (Emergency and Trauma Care Tech	nology)	
Bran	ch:	Semester: 5		
1	Course Code	ETP3301		
2	Course Title	Clinical Care In Ambulance-2		
3	Credit	4		
4	Contact Hours (L-T-P)	0-0-8		
5	Course Status	Compulsory		
6	Course Objective	 To practice the operational aspects of pre-hospital emergency medical services focused on ambulant operations To practice the assessment and immediate treatmy injured and ill patients during ambulance runs To practice transportation of patient to appropriate and provide care during transport as per the protection of practice the appropriate communications with centre and the receiving hospital in the pre-hospit setting 	te facility ocols	
7	Course Outcome	On completion of ambulance posting students will be CO1: Demonstrate the non-clinical operational aspecemergency ambulance practice. CO2: Demonstrate scene assessment and evaluation management of the patient and the use of technological the pre-hospital care settings CO3: Demonstrate the transportation of patient to application facilities and provision of medical care during transplast per the local protocols CO4: Communicate with the various persons and automore with the appropriate mode of communications included the control of the personnel, law enforcement services and required CO5: Demonstrate the handing and taking over of capatients with the receiving hospitals and documentate for these.	and initial es used in propriate cortation, thorities ling Call others, as	
	Course Description	This practical course allows students to practice and acquire skills of emergency pre-hospital care especially in ambulance operations, emergency medical care in the ambulances, use of ambulance protocols, guidelines and communicating with various groups of essential services.		
9	Outline Syllabus	Clinical Posting in Ambulance		





Unit- 1	Non-clinical, operational aspects of emergency ambulance	CO1
Unit- 2	Assessment and evaluation of scene and patient care with usage of appropriate technologies	CO2
Unit- 3	Transportation of patient with assessment and management	CO3
Unit- 4	Various stakeholders/ authorities who involve in emergency ambulance services operation and communication with them	CO4
Unit- 5	Handing and Taking over the patient and documentation	CO5

Mode of Examination	Viva with log-book Submission			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	Nancy Caroline's Emergency Care in the Streets			
Reference Book	Ing Su 2. Pa Ha 3. M	jured by Americ argeons (AAOS) tient Assessmen awthorne	nt Practice Scenarios tocols Handbook of S	opaedic by Les

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	3	3	2	1
CO3	3	3	1	1
CO4	2	2	1	1
CO5	2	2	2	2
Avg. PO attained	2.20	2.20	1.40	1.20



Schoo	ol: SSAHS	Batch: 2025-29				
Progr	ram	Bachelor of Science (Emergency and Trauma Care Technology)				
Brand	ch:	Semester: 5				
1	Course Code	ETP3302				
2	Course Title	Clinical Care in Emergency Departments-2				
3	Credit	4				
4	Contact Hours (L-T-P)	0-0-8				
5	Course Status	Compulsory				
6	Course Objective	 To practice the operational aspects of emergency department services To practice the reception of casualties and assessment, categorization and initial treatment of patients in the emergency department To practice coordination and transfer of patients from the ED to inpatient departments of the hospital, to other hospitals and receipt of patients being transferred from other hospitals To practice documentation of procedures in the emergency 				
7	Course Outcome	department during the care of patients being managed there On completion of the course the students will be able to: CO1: Demonstrate non-clinical operational aspects of emergency department practice including coordination with persons in the pre-hospital, in-hospital, in law-enforcement and others as needed. CO2: Demonstrate the assessment, triaging and initial treatment of the patient in the emergency department as per ED CO3: Demonstrate the process of transfer of care to appropriate facilities within the hospital or transfer to other facilities, continued provision of patient care during these transfers, and documentation of these. CO4: Demonstrate the use of technologies including equipment's used in the emergency department CO5: Demonstrate the use of documentation during care of patients in the emergency department and during receipt and transfer of patients from and to other facilities				
	Course Description	This practical course is designed to equip students with the skills required for managing operations and care given in emergency department and in the patient care journey to and from other facilities				
9	Outline Syllabus	Practical- Clinical Posting in Emergency Department				
	Unit- 1	Non-Clinical operational aspects of emergency department practices	CO1			





U	Jnit- 2	Assessment, triaging and initial treatment in ED ED protocol and technologies used in ED	CO2
		ED protocor and technologies used in ED	
U	Jnit- 3	Transfer of care	CO3
U	Jnit- 4	Technologies and equipment used in	CO4
		emergency department	
U	Jnit- 5	Documentation for transfer of care and	CO5
		treatment	

Mode of Examination	Viva an	Viva and Logbook submission			
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	Nan	cy Caroline's E	mergency Care in	n the Streets- ninth	
	edit	ion			
Reference Book	1.	Walsh, A., Bod	aghkhani, E., Etc	chegary, H. et al. Patient-	
		centered care in	the emergency	department: a systematic	
		review and meta	a-ethnographic sy	Int J Emerg Med	
		15, 36 (2022	2).		

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	2	2	1	2
CO5	1	1	1	1
Avg. PO attained	2.00	2.00	1.40	1.20



School: SSAHS Batch: 2025-29					
Prog	ram	Bachelor of Science (Emergency and Trauma C	Care Technology)		
Bran	ch:	Semester: 5			
1	Course Code	ETP3303			
2	Course Title	Clinical Care in Community Health Centres-2			
3	Credit	4			
4	Contact Hours (L-T-P)	0-0-8			
5	Course Status	Compulsory			
6	Course Objective	 To practice the operational procedures of a community health care Centre To practice the assessment, categorizations and treatment of the patient at the community healthcare centre To practice the need for transfer of patients to a hospital or to home and overall co-ordination with the appropriate stakeholders To practice documentation of procedures during provision 			
		of emergency care at a community heal	thcare centre		
7	Course Outcome	On completion of course students will be able to: CO1: Demonstrate conduct of community health centre operations including coordination with persons and authorities in hospitals, pre-hospital care providers, law-enforcement personnel and others as needed. CO2: Demonstrate the assessment, triaging and treatment of the patient in the community health centre with appropriate guidelines and protocols CO3: Demonstrate the process of transfer of care to appropriate facilities in the community. CO4: Demonstrate the use of technologies including equipment's used in the community health centre CO5: Demonstrate the use of documentation in the community health centre.			
	Course Description	This course provides students the opportunity to provide emergency care at the community health centre and its facilities to the patients who come there. This allows them to appreciate the emergency conditions that present to these centres and how many of these can be treated at community level without having to be further referred to a hospital. They also get the opportunity to practice the operational and clinical procedures at the community healthcare centre including assessment, treatment, documentation and patient referral to appropriate facilities.			
9	Outline Syllabus	Practical- Clinical Posting			
_	Unit- 1	Community health centre operations	CO1		
	Unit- 2	Assessment and treatment in community health centre			





Unit- 3	Transfer of care from community health centre to appropriate facilities	CO3
Unit- 4	Equipment and technologies in community health centre	CO4
Unit- 5	Documentation in community health centre	CO5

Mode of Examination	Practical			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	Nancy Caroline's Emergency Care in the Streets- ninth edition			
Reference Book				

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	3	3	2	1
CO3	2	2	1	1
CO4	2	2	2	1
CO5	1	1	1	1
Avg. PO attained	1.80	1.80	1.40	1.00



Scho	ol: SSAHS	Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Branch :		Semester: 05			
1	Course Code	ETP3304			
2	Course Title	Clinical Care in ICU			
3	Credit	03			
4	Contact Hours (L-T-P)	0-0-6			
5	Course Status	Compulsory			
6	Course Objective	 To practice operational procedures carried out at an Intensive care Unit To practice the assessment, and partnering other staff in the treatment of patients in an intensive care unit To understand and work with Eds and general wards in taking over patients into the ICU and in decanting patients to step-down care facilities when appropriate To practice documentation of procedures at an intensive 			
7	Course Description	Core unit On completion of the ICU posting students will be able to: CO1: Demonstrate ability to carry out basic ICU operational procedures including coordination with persons and authorities needed for the different tasks CO2: Demonstrate the assessment, treatment of the patient in an ICU setting with appropriate guidelines and protocols CO3: Demonstrate the process of transfer of care to appropriate facilities within the hospital. CO4: Demonstrate the use of technologies including equipment used in ICU CO5: Demonstrate the ability to provide the standard of documentation required for critically ill and injured patients.			
	Course Description	This comprehensive skill orientated course is designed for students to practice the assessment and treatment of a patient in ICU and also carry out basic ICU operational procedures.			
9	Outline Syllabus	Practical			
	Unit- 1	ICU operations	CO1		
	Unit- 2	Assessment and treatment of patient in ICU and protocols	CO2		
	Unit- 3	Transfer of care within the hospital facilities	CO3		
	Unit- 4	Equipment and technologies used in ICU	CO4		
	Unit- 5	Documentation in ICU	CO5		

Mode of Examination	Viva and Logbook			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	





Text Book	Nancy Caroline's Emergency Care in the Streets-ninth edition			
Reference Book	Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS)			
	2. Package for Emergency Resuscitation and Intensive Care Unit. World Health organization.			
	3. Emergency Room and ICU Procedures: slide presentation. https://www.slideshare.net/slideshow/emergency-and-icu-procedures-presentation/700692			
	4. Florian Falter. Bedside Procedures in the ICU. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://capcuu amateur.wordpress.com/wp-content/uploads/2013/10/bedside-procedures-in-the-icu-ed-falter-2012.pdf			

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	3	3	2	1
CO3	2	2	1	1
CO4	2	2	2	1
CO5	1	1	1	1
Avg. PO attained	1.80	1.80	1.40	1.00



Schoo	ol: SSAHS	Batch: 2025-28				
Program		Bachelor of Science (Emergency and Trauma Care Technology)				
Branch :		Semester: 05				
1	Course Code	ETP3305				
2	Course Title	Disaster Management Exercise-1				
3	Credit	1				
4	Contact Hours (L-T-P)	0-0-2				
5	Course Status	Compulsory				
6	Course Objective	 To familiarize students with policies and procedures for hospitals and health services in disasters To practice students in the procedures for disaster management at a disaster site, at hospitals and in coordination of health facilities during such disasters To practice students in preparing disaster management plans for a variety of incidents To provide students the opportunity to participate in a disaster exercise involving the disaster site 				
7	Course Outcome	At the end of course students will be able to: CO1: Demonstrate the ability to mobilize emergency resources at the disaster site CO2: Demonstrate the ability to re-orgazise the Emergency department for a local disaster CO3: Demonstrate the ability to coordinate the various functions required for disaster management at site CO4: Demonstrate the ability to coordinate the various functions required for disaster management in a hospital. CO5: Evaluate the disaster site				
	Course Description	This practical skill oriented course is designed to equipped students with the skills required for disaster management at site and in the hospital				
9	Outline Syllabus	Practical				
	Unit- 1	Mobilization of emergency resources at disaster site	CO1			
	Unit- 2	Re- organize the emergency department for a local disaster	CO2			
	Unit- 3	Coordination for required functions at site CO3				
	Unit- 4	Coordination for required functions in a hospital CO4				
	Unit- 5	Evaluation and reevaluation of disaster site CO5				
			·			

Mode of Examination	Viva and spotting			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	





Text Book	Nancy Caroline's Emergency Care in the Streets				
Reference Book	Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS)				
	 Hospital Disaster management Guidelines. Directorate of Health Services, Kerala. 				
	3. Guidelines for Hospital Emergency Preparedness Planning. National Disaster management Authority, India				
	4. Disaster Management Plan, National Centre for Disease Control, Delhi. Ministry of Health & Family Welfare Government of India				

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	1	1	1	1
CO3	2	2	1	1
CO4	2	2	1	1
CO5	3	2	1	1
Avg. PO attained	1.80	1.60	1.00	1.00



6th Semester





Program Structure Template School of Allied Health Sciences Bachelor of Science (Emergency and Trauma Care Technology) Batch: 2025-29

TERM:6

Sr. No.	Subject Code	Subject		ching I	Load	Cre dit	Core/ Electiv e/Pre Requi site/C o Requi site	Type of Course CC/AEC C/SEC/D SE
Practi	ical Modules		1				<u>I</u>	
1	ETP3321	Critical Appraisal of research literature, Data collection, and analysis	0	0	06	03	Major	СС
		Quality Service and Project implementation in the Emergency Department						
2	ETP3322		0	0	04	02	Major	CC
3	ETP3323	Clinical Care in Emergency Ambulance-3	0	0	08	04	Major	CC
4	ETP3324	Clinical Care in Emergency Department-3	0	0	08	04	Major	СС
5	ETP3325	Clinical Care in Community Health Centre-3	0	0	08	04	Major	СС
6	ETP3326	Instructor for Life Support Provider Training	0	0	04	02	Minor	СС
7	ETP3327	Disaster Management and Exercise-3	0	0	02	01	Minor	CC
Total Hours			0	0	40	20		



School: SSAHS		Batch: 2025-29				
Program		Bachelor of Science (Emergency and Trauma Care Technology)				
Bran	ch:	Semester: 6				
1	Course Code	ETP3321				
2	Course Title	Critical Appraisal of research literature, Data collection, and analysis				
3	Credit	3				
4	Contact Hours (L-T-P)	0-0-6				
5	Course Status	Compulsory				
6	Course Objective	 1- To teach students how to conduct critical appraisal of research literature 2- To continue collection of data for chosen research projects 3- To analyze collected research data 				
7	Course Outcome	At the end of the course, the students will be able to: CO1: Demonstrate their ability to conduct critical appraisal of diagnostic and therapeutic studies CO2: Demonstrate their ability to complete the data collection process for the studies they have chosen to conduct CO3: Demonstrate their ability to organize and analyze the data collected. CO4: Demonstrate their ability to draft the research report CO5: Conduct a presentation of their study reports				
	Course Description	This skills based course will not only enable the students to conduct critical appraisal of the published scientific literature, but also use the lessons learnt to ensure that their system of data collection and analysis for their own research projects can withstand similar critical analysis.				
9	Outline Syllabus	Practical				
	Unit-1A	Principles of critical appraisal of research literature	CO1			
	Unit-1B	Critical appraisal of diagnostic studies	CO1			
	Unit-1C	Critical appraisal of therapeutic studies	CO1			
	Unit-1D	Practical exercises in critical appraisal of diagnostic literature CO1				
	Unit-1E	Practical exercises in critical appraisal of therapeutic literature				
	Unit-2A	Data collection for research project	CO2			
	Unit-2B	Transfer of data collected to electronic CO2 spreadsheet				
	Unit-2C	Conduct of data cleaning for analysis and drafting of questions for data analysis	CO2			
	Unit-3A	Organizing data into analysis packets	CO3			





Unit-3B	Conducting analysis of research data	CO3
	collected	
Unit-3C	Reviewing and refining analysed data	CO3
Unit-4A	Drafting the background, objectives, methods and data analysis sections of the research project report	CO4
Unit-4B	Drafting the Results section of the report	CO4
Unit-4C	Drafting the Discussion and Conclusion sections of the report	CO4
Unit-5A	Preparing the Powerpoint presentation of the report	CO5
Unit-5B	Reviewing the presentation with peers and mentors	CO5
Unit-5C	Presentation of final study report	CO5

Mode of Examination	Viva			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	Users' Guides to the Medical Literature: A Manual for Evidence-based Clinical Practice by Gordon Guyatt and Drummond Rennie			
Reference Book	2- Da lin Br 3- Re	edicine and heal ta collection reguistics- Health iggs Baffoe-Dja	search methods in ap rose, Jim Mckinley	plied and Jessica

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	1	3
CO2	1	1	1	3
CO3	2	2	1	3
CO4	1	1	1	3
CO5	1	1	1	3
Avg. PO attained	1.40	1.40	1.00	3.00



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	ol: SSAHS	Batch: 2025-29 Replace of Science (Emergency and Traying Core T.	a abro la avv)			
Prog		Bachelor of Science (Emergency and Trauma Care To	echhology)			
Bran		Semester: 6				
1	Course Code	ETP3322				
2	Course Title	Quality Service and Project implementation in the Emergency				
	0 111	Department				
3	Credit	2				
4	Contact Hours (L-T-P)	0-0-4				
5	Course Status	Compulsory				
6	Course Objective	1- To practice conducting a quality service project Emergency Department	ct in the			
		2- To learn how guidelines may be implemented	in the			
		emergency department				
7	Course Outcome	At the end of the course the students will be able to	TO:			
		CO1: Demonstrate their ability to identify areas for				
		improvement projects in the emergency departme				
		CO2: Demonstrate their ability to conduct a quality	-			
		improvement project in the emergency departmen	t, including			
		data collection and analysis	1.1.6			
		CO3: Demonstrate their ability to analyze the data	a and draft			
		the study report	t to a group			
		CO4: Demonstrate their ability to present the draf	t to a group			
		CO5: Demonstrate their ability to effectively impl	ement			
		guideline in the emergency department				
	Course Description	This practical course will enable students to determine	ne areas for			
		quality improvement projects, conduct such a project				
		results and present these to a group of reviewers. In				
		course will also enable them to implement changes in				
		practice in an ED setting.	J			
9	Outline Syllabus	Practical				
	Unit-1A	Quality improvement in emergency department-	CO1			
		principles, concepts and QI models				
	Unit-1B	Identifying area of improvement- Common issues	CO1			
		in emergency department				
	Unit-1C	Review of previous Quality projects undertaken in CO1				
		the emergency services				
	Unit-2A	Project selection and scoping, forming project team CO2				
	Unit-2B	Project Planning and management CO2				
	Unit-2C	Data collection	CO2			
	Unit-3A	Data Analysis using Quality Management tools	CO3			
	Unit-3B	Data Interpretation, drawing conclusions and	CO3			
		discussing recommendations				
	Unit-3C	Drafting the QI report	CO3			





Unit-4A	Use of powerpoint in research and QI presentations	CO4
Unit-4B	Preparing the Powerpoint presentation	CO4
Unit-4C	Rehearsing and Presenting the QI report	CO4
Unit-5A	Implementing guidelines in emergency	CO5
	department- Introduction and reviewing the	
	existing guidelines	
Unit-5B	Implementing revised guideline in the ED	CO5
Unit-5C	Practical implementation and reflections	CO5

Mode of	Viva				
Examination					
Weightage	CA	MTE	ETE		
Distribution	20	20	60		
Text Book	1.	WHO Tools for strengthening	g emergency care syst	tems	
		https://www.who.int/emerg	gencycare/ <u>emergen</u>	cycare@who.int	
	2.	Quality Framework for Emer	gency Departments. A	Australasian College	
		of Emergency Medicine			
	3.	Quality Improvement in Hea	lthcare: A Practical Ap	proach by Batalden	
		and Davidoff			
Reference Book	. Ha	ansen K, Boyle A, Holroyd B, F	Phillips G, Benger J, Ch	nartier LB, Lecky F,	
	Va	illancourt S, Cameron P, Wal	igora G, Kurland L, Tru	uesdale M; IFEM	
	Qı	uality and Safety Special Inter	est Group. Updated f	ramework on	
	qu	quality and safety in emergency medicine. Emerg Med J. 2020			
		l;37(7):437-442. doi: 10.1136	•	290. Epub 2020 May	
		s. PMID: 32404345; PMCID: P			
		nergency Department Transit			
		amework. Final Report 2017.	National Quality Foru	ım, US Department	
	_	Health and Welfare			
		dian Health Facility Guideline		•	
		tension://efaidnbmnnnibpca		s://india.healthfacili	
		guidelines.com/Guidelines/V	iewPDF/HFG-		
		dia/part_b_emergency_unit		_	
		isra A, Yadav DC, Kole T. Eme	• .	•	
		dependence - problems and s		•	
		;13:03015. doi: 10.7189/jogh	n.13.03015. PMID: 370	052203; PMCID:	
		PMC10099406.			
		National Health Systems Resource Centre. Technical Support Institute			
		with National Health Mission https://qps.nhsrcindia.org/national-			
		<u>iality-assurance-standards</u>		G 1001.1	
	6.	Research methods for health	care practice- Frances	s Griffiths	



POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	3
CO2	1	1	1	3
CO3	1	1	1	3
CO4	1	1	2	3
CO5	1	1	1	3
Avg. PO attained	1.00	1.00	1.20	3.00



School: SSAI	HS	Batch: 2025-29		
Program		Bachelor of Science (Emergency and Trauma Care Technology)		
Branch:		Semester: 6		
1	Course Code	ETP3323		
2	Course Title	Clinical Care in Emergency Ambulance-3		
3	Credit	4		
4	Contact Hours	0-0-8		
	(L-T-P)			
5	Course Status	Compulsory		
6	Course Objective	 5- To practice the operational aspects of pre-hospital emergency medical services focused on ambulance operations with less supervision 6- To practice the assessment and immediate treatment of the injured and ill patients during ambulance runs with less supervision 7- To practice transportation of patient to appropriate facility and provide care during transport as per the protocols defined by local authority 8- To practice the appropriate communications with the call centre and the receiving hospital in the pre-hospital care setting 		
7	Course Outcome	On completion of ambulance posting students will be able to: On completion of ambulance posting students will be able to: CO1: Demonstrate the non-clinical operational aspects of emergency ambulance practice. CO2: Demonstrate scene assessment and evaluation and initial management of the patient and the use of technologies used in the pre-hospital care settings CO3: Demonstrate the transportation of patient to appropriate facilities and provision of medical care during transportation, as per the local protocols CO4: Communicate with the various persons and authorities with the appropriate mode of communications including Call Centre, fire personnel, law enforcement services and others, as required CO5: Demonstrate the handing and taking over of care of patients with the receiving hospitals and documentation needed for these.		
	Course Description	This practical course is designed for students to further practice the skills of pre-hospital emergency care in ambulance operations utilizing their knowledge of emergency ambulance protocols and guidelines.		
9	Outline Syllabus	Clinical Posting		
J	Outilite Syllabus	Chincal Fushing		





Unit- 1A	Orientation to Ambulance Call centre and visits to	CO1
	other call centres, e.g. 108, etc.	
Unit-1B	Administering an ambulance fleet and its logistics	CO1
Unit-1C	Human resource management of ambulance	CO1
	services	
Unit- 2A	Assessment and evaluation of scene	CO2
Unit-2B	Systematic patient evaluation in the ambulance	CO2
Unit-2C	Patient evaluation with ambulance technologies	CO2
Unit- 3A	Patient transport from site to ambulance and from	CO3
	ambulance to hospital	
Unit-3B	Assessment of patients in the moving ambulance	CO3
Unit-3C	Continuing patient treatment in the ambulance	CO3
Unit- 4A	The ambulance crew and interactions with the call	CO4
	centre	
Unit-4B	Interactions of ambulance crew and public	CO4
Unit-4C	Relationship of ambulance services and receiving	CO4
	hospitals	
Unit- 5A	The Ambulance Case Record- manual / electronic	CO5
Unit-5B	Choosing the destination hospital	CO5
Unit-5C	Load and Go criteria and placing receiving hospitals	CO5
	on standby	
Unit-5D	Handing and Taking over the patient and	CO5
	documentation	
	Unit-1B Unit-1C Unit-2A Unit-2B Unit-2C Unit-3A Unit-3B Unit-3C Unit-4A Unit-4A Unit-4B Unit-4C Unit-5A Unit-5B Unit-5C	other call centres, e.g. 108, etc. Unit-1B Administering an ambulance fleet and its logistics Unit-1C Human resource management of ambulance services Unit-2A Assessment and evaluation of scene Unit-2B Systematic patient evaluation in the ambulance Unit-2C Patient evaluation with ambulance technologies Unit-3A Patient transport from site to ambulance and from ambulance to hospital Unit-3B Assessment of patients in the moving ambulance Unit-3C Continuing patient treatment in the ambulance Unit-4A The ambulance crew and interactions with the call centre Unit-4B Interactions of ambulance crew and public Unit-4C Relationship of ambulance services and receiving hospitals Unit-5A The Ambulance Case Record-manual / electronic Unit-5B Choosing the destination hospital Unit-5C Load and Go criteria and placing receiving hospitals on standby Unit-5D Handing and Taking over the patient and

Mode of Examination	Viva			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	Nan	cy Caroline's Em	nergency Care in the	Streets
Reference Book	1.	Emergency Care a	and Transportation o	of the Sick and
		njured by Americ	can Academy of Orth	opaedic Surgeons
		AAOS)		
	2.	Patient Assessme	nt Practice Scenario	s by Les Hawthorne
	3.	3. Medical Care Protocols Handbook of Sharda		
		Emergency Ambulance Services		
		What is an Ambulance Dispatch System, & How		
		Does it Work?		
			cusaveslives.com/blo	
	-		<u>tch-system-how-doe</u>	
		- •	nmission. Inspection	
		NHS Ambulance Services Core service: Emergency		
		Operations Centre (EOC).		
		Wilson, C., Howell, AM., Janes, G. et al. The role of		
		feedback in emergency ambulance services: a		
	(qualitative intervi	ew study. BMC Hea	lth Serv Res





22, 296 (2022). https://doi.org/10.1186/s12913-022-07676-1

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	3	3	2	1
CO3	3	3	1	1
CO4	2	2	1	1
CO5	2	2	2	2
Avg. PO attained	2.20	2.20	1.40	1.20



Scho	ol: SSAHS	Batch: 2024-28				
Prog	ram	Bachelor of Science (Emergency and Trauma C	Care Technology)			
Bran	ch :	Semester: 6				
1	Course Code	ETP3324				
2	Course Title	Clinical care in the Emergency Department-3				
3	Credit	4				
4	Contact Hours (L-T-P)	0-0-8				
5	Course Status	Compulsory				
6	Course Objective	To further practice the operational aspects of emergency department services under reduced supervision To practice the reception of casualties and assessment, categorization and initial treatment of patients in the emergency department under reduced supervision To practice coordination and transfer of patients from the ED to inpatient departments of the hospital, to other hospitals and receipt of patients being transferred from other hospitals To practice documentation of procedures in the emergency department during the care of patients being managed there				
7	Course Outcome	On completion of course students will be able to demonstrate Level 3 of the Haddon's Matrix: CO1: Non-clinical operational aspects of emergency department practice including coordination in the pre-hospital, in-hospital, in law-enforcement and others as needed. CO2: Demonstrate the assessment, triaging and initial treatment of the patient in the emergency department as per ED protocols and the use of technologies within the ED CO3: Demonstrate the process of transfer of care to appropriate facilities within the hospital or transfer to other facilities, continued provision of patient care during these transfers, and documentation of these. CO4: Demonstrate the use of technologies including equipment's used in the emergency department CO5: Demonstrate the use of documentation during care of patients in the emergency department and during receipt and				
	Course Description	transfer of patients from and to other facilities This practical course is designed to equipped students with the skills required for managing operations and care given in emergency				
0	Outling Syllahus	department				
9	Outline Syllabus Unit- 1A	Practical Demonstrate patient flow systems in ED Triage	CO1			
	Unit-1B	Demonstrate patient flow for Priority 1 and 2 patients	CO1			





Unit-1C	Demonstrate system of patient flow for Ambulatory patients in the ED	CO1
Unit-1D	Demonstrate patient flows in the Emergency Observation Ward	CO1
Unit- 2A	Triage Training	CO2
Unit-2B	Initiating investigations in the ED	CO2
U nit-2C	Initiating treatments in the ED	CO2
Unit- 3A	Transfer of care from ED to Wards	CO3
Unit-3B	Transfer of care from ED to other hospitals	CO3
Unit-3C	Transfer of care within the ED	CO3
Unit-4A	Technologies used in emergency department	CO4
Unit-4B	Familiarization with ED Equipment	CO4
Unit-4C	Demonstrating use of ED equipment on patients	CO4
Unit-5A	Documentation for transfer of care	CO5
Unit-5B	Emergency Department Case Record	CO5
Unit-5C	Triage and Emergency Paramedic Documentation	CO5

Mode of Examination	Viva				
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	1.	Nancy Caroline's Emergency Care in the Streets			
Reference Book	Walsh, A., Bodaghkhani, E., Etchegary, H. et al. Patien centered care in the emergency department: a systematic review and meta-ethnographic synthesis. I				
		Emerg Med 15, 36 (2022).			
		https://doi.org/10.1186/s12245-022-00438-0			
	2.	2. Richards J. R., van der Linden M. C., and Derlet R. W.,			
		Providing care in emergency department hallways:			
		demands, dangers, and deaths, Advances in Emergency			
		Medicine. (2014)	2014, 1–7,		
		https://doi.org/1	0.1155/2014/4	<u>95219</u> .	
	3. Emergency Department Operations and Administration Editors Joshua Joseph and Benjamin White. Emergen Medicine Clinics of North America. www.emed.theclinics.com . August 2020. Volume 38. Number 3.			min White. Emergency ca.	
	4. Sharda Hospital Emergency Department Protocols				





POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	2	2	1	2
CO5	1	1	1	1
Avg. PO attained	2.00	2.00	1.40	1.20



Schoo	ol: SSAHS	Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Branc	ch:	Semester: 6			
1	Course Code	ETP3325			
2	Course Title	Clinical Care in Community Health Centre-3			
3	Credit	4			
4	Contact Hours (L-T-P)	0-0-8			
5	Course Status	Compulsory			
6	Course Objective	 5- To practice the operational procedures of a community health care Centre 6- To practice the assessment, categorizations and treatment of the patient at the community healthcare centre 7- To practice the need for transfer of patients to a hospital or to home and overall co-ordination with the appropriate stakeholders 8- To practice documentation of procedures during provision of emergency care at a community healthcare 			
7	Course Outcome	On completion of course students will be able to: CO1: Demonstrate conduct of community health of operations including coordination with persons an authorities in hospitals, pre-hospital care providers enforcement and others as needed. CO2: Demonstrate the assessment, triaging and to the patient in the community health centre with ap guidelines and protocols CO3: Demonstrate the process of transfer of care to appropriate facilities within the hospital or transfer inter-facility in the community. CO4: Demonstrate the use of technologies includite equipment's used in the community health centre. CO5: Demonstrate the use of documentation in the community health centre.	d s, law- reatment of opropriate to r through		
	Course Description	This course provides students the opportunity to provide emergence care at the community health centre and its facilities to the patients who come there. This allows them to appreciate the emergency conditions that present to these centres and how many of these can be treated at community level without having to be further referred to a hospital. They also get the opportunity to practice the operational and clinical procedures at the community healthcare centre including assessment, treatment, documentation and patien referral to appropriate facilities.			
9	Outline Syllabus	Practical- Clinical Posting			
	Unit- 1A	Community health centre organisation and set-up	CO1		





Unit-1B	health centre	
Unit-1C	Identifying requirements for emergency patients arriving at he community health centres	CO1
Unit-2A	Triaging patients arriving at Community Health Centres	CO2
Unit-2B	Providing Emergency Treatments in Community Health Centres	CO2
Unit- 2C	Providing protocol-based Observation Care in community health centres	CO2
Unit-3A	Identifying patients who require transfer to other facilities	CO3
Unit- 3B	Arranging transfer of care from community health centre to appropriate facilities	CO3
Unit-3C	Conduct of Patient Transfers to appropriate other facilities	CO3
Unit-4A	Conducting Patient Education in Community Health centres	CO4
Unit- 4B	Organisation of and acquisition of Equipment for community health centre	CO4
Unit-4C	Using Information and other technologies to enhance care provision at Community Health Centres	CO4
Unit- 5A	Idntifying Documentation Requirements for community health centre	CO5
Unit-5B	Performing clinical documentation in Community Health Centres	CO5
Unit-5C	Using Documentation to review quality of care in Community Health Centres	CO5

Mode of Examination	Viva			
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book	Nancy Caroline's Emergency Care in the Streets- ninth edition			
Reference Book	 Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS) Workbook for Anatomy, Physiology & Disease: Foundation for the Health Professions by Deborah Roiger and Nia Bullock Patient Assessment Practice Scenarios by Les Hawthorne Botes M, Bruce J, Cooke R. How Health Care Practitioners 			
	experience emergencies at Primary Health Care facilities -			





5.

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Strategic directions to integrate emergency care services
into primary health care in the South-East Asia Region.

World Health Organisation 2020.
6. Primary health care and health emergencies.
Technical Series on Primary Healthcare. World Health
Organisation

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	3	3	2	1
CO3	2	2	1	1
CO4	2	2	2	1
CO5	1	1	1	1
Avg. PO attained	1.80	1.80	1.40	1.00



Schoo	ol: SSAHS	Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Branch:		Semester: 06			
1	Course Code	ETP3326			
2	Course Title	Instructor for Life Support Provider Training			
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	To provide the students with opportunities to polish their knowledge and skills in imparting these knowledge and skills to previously untrained persons.			
7	Course Outcome	At the end of the course, the students will be able to: CO1: Teach Basic Cardiac Life Support course to previously untrained persons CO2: Teach Basic Standard First Aid Provider Course to previously untrained persons CO3: Teach the Basic Trauma Life Support course to previously untrained persons CO4: Conduct Basic Community First Responder Training to previously untrained persons CO5: Demonstrate professionalism in training programs			
	Course Description	This practical course provides the students the opportunity to teach a variety of life support provider programs to previously untrained persons.			
9	Outline Syllabus	Practical	CO mapping		
	Unit- 1	Participate as an Instructor in Basic Cardiac Life Support	CO1		
	Unit- 2	Participate as an Instructor in Standard First Aid Provider training CO2			
	Unit- 3	Participate as an Instructor in Basic Trauma Life CO3 Support			
	Unit- 4	Participate as an Instructor in Community First CO4 Responder Training			
	Unit- 5	Demonstrate conduct of assessments during life support training programs			

Mode of	Viva			
Examination				
Weightage	CA	MTE	ETE	
Distribution	20	20	60	





Text Book	 BCLS + AED Instructor Training Handbook. By National Heart Centre Singapore BCLS Instructor Manual BTLS Instructor Manual Standard First Aid Instructor Manual Community First Responder Instructor Manual
Reference Book	 Singapore Resuscitation and First Aid Council Reference Guide for Basic Cardiac Life Support with Automated External Defibrillator (BCLS+AED) Training Centre/Instructor-Training Centre (TC/ITC) Basic Life Support Instructor Essentials Faculty Guide. American Heart Association. 2021. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://cpr.heart.org//media/CPR2-Files/Course-Materials/Instructor-Essentials/BLS/2021-BLS-Instructor-Essentials/BLS-Instructor-Essentials-Faculty-Guide_ucm_506913.pdf Nancy Caroline's Emergency Care in the Streets International Trauma Life Support for Emergency Care Providers. Roy Alson, John Campbell. 9th Edition. What are the benefits of instructor-led training for training providers and learners? https://www.arlo.co/blog/benefits-of-instructor-led-training

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	3	1
CO2	2	2	3	1
CO3	2	2	3	1
CO4	2	2	3	1
CO5	1	1	3	1
Avg. PO attained	1.80	1.80	3.00	1.00



Scho	ool: SSAHS	Batch: 2025-29				
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)				
Bran	ich:	Semester: 06				
1	Course Code	ETP3327				
2	Course Title	Disaster Management and Exercise-3				
3	Credit	01				
4	Contact Hours (L-T-P)	0-0-2				
5	Course Status	Compulsory				
6	Course Objective	 5- To practice operational procedures for hospital management of disasters 6- To practice disaster triage procedures in a hospital 7- To practice coordination of resources at the Emergency Department and the Hospital during a disaster 8- To participate in a disaster exercise involving the casualties being brought to a hospital. 				
7	Course Outcome	At the end of course students will be able to: CO1: Demonstrate the ability to organize resources at the Emergency Department for disaster care CO2: Demonstrate the ability to prepare a hospital disaster management plan CO3:Coordinate patient flow in a hospital during a simulated disaster CO4: Demonstrate the ability to function effectively during the hospital's management of a disaster in its vicinity. CO5: Evaluate the disaster site				
	Course Description	This practical skill oriented course is designed with the ability to function effectively in various is managing casualties from a disaster site.				
9	Outline Syllabus	Practical				
	Unit-1A	Determining requirements for Emergency Department when managing a disaster	CO1			
	Unit- 1B	Organisation of Resources for emergency department during disasters	CO1			
	Unit-1C	Utilizing and replenishing ED resources during disasters	CO1			
	Unit- 2A	Components of Hospital disaster management plan	CO2			
	Unit-2B	Drafting a Departmental Disaster Management Plan	CO2			
	Unit-2C	Activation and Mobilization of Manpower for the Emergency Department during disasters	CO2			
	Unit-3A	Patient flow systems during disasters	CO3			





Unit-3B	Managing ED and Inpatients discharges and transfers during a disaster exercise	CO3
Unit- 3C	Coordination of patient flow within a	CO3
	hospital during a disaster exercise	
Unit-4A	Command and Control of a Hospital during	CO4
	disasters	
Unit-4B	Command and Control of the Emergency	CO4
	Department during a disaster	
Unit- 4C	Management of an In-hospital disaster	CO4
Unit-5A	Evaluation of Medical Needs at a Disaster	CO5
	Site	
Unit-5B	Map-Planning exercises for medical support	CO5
	for multiple disaster scenarios	
Unit- 5C	Planning and organisation of medical support	CO5
	at disaster site during a disaster exercise	

Mode of Examination	Viva ar	nd spotting		
Weightage Distribution	CA	MTE	ETE	
	20	20	60	
Text Book		ancy Caroline's Emergency Care in the Streets- ninth dition		
Reference Book				
	1.	 Emergency Care and Transportation of the Sick and Injured by American Academy of Orthopaedic Surgeons (AAOS) 		
	2.	2. Hospital Disaster management Guidelines. Directorate of Health Services, Kerala.		
	3.	Guidelines for	· Hospital Emergei	ncy Preparedness
		Planning. National Disaster management Authority, India		
	4.	Disaster Mana	agement Plan, Nat	ional Centre for
		Disease Contr	ol, Delhi. Ministr	y of Health & Family
		Welfare Gove	rnment of India	

POs Cos	PO1	PO2	PO3	PO4
CO1	1	1	1	1
CO2	1	1	1	1
CO3	2	2	1	1
CO4	3	3	1	1
CO5	3	2	1	1
Avg. PO attained	1.80	1.60	1.00	1.00



7th Semester





Program Structure Template School of Allied Health Sciences Bachelor of Science (Emergency and Trauma Care Technology) Batch: 2025-29

TERM:7

				Teaching Load			Core/El ective/ Pre	Type of Course
Sr. No.	Subject Code	Subject	L	Т	Р	Cre dit	Requisit e/Co Requisit e	
Practi	ical- Internship							
1	ETP4401	Clinical Internship Posting -1	00	00	06	3	Major	CC
2	ETP4402	Clinical Internship Posting -2	00	00	06	3	Major	СС
3	ETP4403	Clinical Internship Posting -3	00	00	20	10	Major	CC
4	ETP4404	Simulation in Emergency Care	00	00	04	2	Major	CC
5	ETP4405	Instructor for Life Support Training Courses	00	00	04	2	Minor	СС
		Total Hours	00	00	40	20		



School	ol: SSAHS	Batch: 2025-29		
Progr	ram	Bachelor of Science (Emergency and Trauma Care Technology)		
Brand	ch:	Semester: 07		
1	Course Code	ETP4401		
2	Course Title	Clinical Internship Posting -1		
3	Credit	3		
4	Contact Hours (L-T-P)	0-0-6		
5	Course Status	Compulsory		
6	Course Objective	 To practice on respiratory and cardiovascular diseases assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment that affect these systems. To practice the students in performing ECGs, identifying abnormalities and suggesting treatments accordingly To practice the students on assessment (including history taking, physical examination, point-of-care tests and other 		
7 Course Outcome		investigations) and treatment of muscul. On completion of the course, the students of CO1: Demonstrate their ability in taking of and identifying normal and abnormal result. CO2: Demonstrate their abilities in conduct cardiac and respiratory disorders. CO3: Demonstrate their abilities in suggest differential diagnoses and likely approache cardiac and respiratory disorders with perfer practical procedures under supervision. CO4: Demonstrate their abilities in conduct musculoskeletal injuries and disorders CO5: Demonstrate their abilities in suggest differential diagnoses and likely approache musculoskeletal injuries and disorders, including application, splints and appropriate between the supervision.	will be able to: ital signs and ECGs ts. eting assessment of ting likely s to management for ormance of basic eting assessment of ting likely s to treatment of luding plaster of	
	Course Description	This course enables the student to demonstra the assessment and management of respirate musculoskeletal system disorders	•	
9	Outline Syllabus	Practical- Clinical Posting		
	Unit-1	Vital Signs and ECG	CO1	
	Unit- 2	Assessment of cardiorespiratory emergencies	CO2	





	St. Market	
Unit- 3	Differential diagnosis, management of cardiorespiratory emergencies and basic practical procedures	CO3
Unit- 4	Assessment of musculoskeletal injuries and disorders	CO4
Unit- 5	Differential diagnosis in musculoskeletal injuries, Plaster of Paris, splint and bandaging	CO5

Mode of Examination	Practio	Practical- Clinical case Scenarios			
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	Na	ancy Caroline's Emergency Care in the Streets- ninth edition			
Reference Book	2.	extension://efaid links.lww.com/ped-23-00080_sdc1 Emergency Scena Network. chrome extension://efaid ukcrfnetwork.co. Scenario-Guidand Simulation Scena	ermalink/sih/a/sih_20 pdf ario Training Guidance e- Inbmnnnibpcajpcglcle uk/app/uploads/2023 ce-V5.pdf rios. Frimley Health. I nhs.uk/careers/clinic	efindmkaj/https://cdn- 023_09_15_rodgers_sih- e Document. UKCRF efindmkaj/https://www.	

POs Cos	PO1	PO2	PO3	PO4
CO1	3	2	2	1
CO2	3	2	2	1
CO3	3	3	2	1
CO4	3	2	2	1
CO5	3	3	2	1
Avg. PO attained	3.00	2.40	2.00	1.00



Schoo	ol: SSAHS	Batch: 2025-29			
Progr	am	Bachelor of Science (Emergency and Trauma C	are Technology)		
Branc	ch:	Semester: 07			
1	Course Code	ETP4402			
2	Course Title	Clinical Internship Posting-2			
3	Credit	3			
4	Contact Hours (L-T-	0-0-6			
	P)				
5	Course Status	Compulsory			
6	Course Objective	 To practice the students on the assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of disorders related to the gastrointestinal, renal, urological emergencies and acid-base disorders To practice the students on the assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of infectious diseases To practice the students on the conduct of procedures related to the assessment and treatment of gastrointestinal, 			
7	Course Outcome	renal and urological emergencies, acid-base disorders and infectious diseases On completion of the course, the students will be able to: CO1: Demonstrate their ability to assess patients with gastrointestinal, renal and urological emergencies. CO2: Demonstrate their ability to assess patients with acid-			
		base disorders CO3: Demonstrate their ability to assess patients with infectious diseases CO4: Demonstrate their ability to suggest likely differential diagnoses and likely approaches to management to these emergencies CO5: Demonstrate their ability to perform practical procedures relevant to the management of these disorders			
	Course Description This skill based course allows students to assessing and suggest management approaches for patients with disorders of gastrointestinal, renal and urological systems, acid-base disordinfectious diseases and to perform practical procedures related their management.				
9	Outline Syllabus	Practical- Clinical Posting			
	Unit- 1	Assessment of patients with gastrointestinal,	CO1		
		renal and urological emergencies			
	Unit- 2	Assessment of patients with Acid base disorders	CO2		





Unit- 3	Assessment of patients with infectious disease	CO3
Unit- 4	differential diagnoses and approaches to management to gastrointestinal, renal, urological, acid base disorders and infectious diseases emergencies	CO4
Unit- 5	Practical procedures related to gastrointestinal, renal, urological, acid base disorders and infectious diseases emergencies	CO5

Mode of Examination	Practical- Clinical case Scenarios				
Weightage	CA	MTE	ETE		
Distribution	20	20	60		
Text Book	N	Nancy Caroline's Emergency Care in the Streets- ninth edition			
Reference Book		Emergency Scenario Train chrome- extension://efaidnbmnnnetwork.co.uk/app/upload V5.pdf 2. Simulation Scenarios. Fri https://www.fhft.nhs.uk/ home/simulation-scenarion	nibpcajpcglclefindmkaj/lds/2023/07/Emergency- mley Health. NHS Foun Careers/clinical-educati	nttps://www.ukcrfn Scenario-Guidance- dation Trust.	

POs Cos	PO1	PO2	PO3	PO4
CO1	3	2	2	1
CO2	3	2	2	1
CO3	3	2	2	1
CO4	3	3	2	1
CO5	2	3	2	1
Avg. PO attained	2.80	2.40	2.00	1.00



Schoo	ol: SSAHS	Batch: 2025-29		
Progr		Bachelor of Science (Emergency and Trauma Care Technology)		
Brand		Semester: 7		
1	Course Code	ETP4403		
2	Course Title	Clinical Internship Posting-3		
_				
3	Credit	10		
4	Contact Hours (L-T-P)	0-0-20		
5	Course Status	Compulsory		
6	Course Objective	4- To practice the assessment and treatment o	-	
		different types of emergencies in ambulance		
		community health centres as Junior Parame		
		5- To practice the protocols and familiarize w of emergency ambulances, ED and commu	-	
		centres	ility licattii	
7	Course Outcome	On completion of course students will be able	to:	
	Course outcome	CO1: Demonstrate their ability to assess and in		
		management of patients in the pre-hospital env		
		CO2: Demonstrate their ability to assess and p		
		management of patients in emergency departm		
		CO3: Demonstrate their ability to assess and p		
		the management of patients at community heal		
		CO4: Demonstrate their ability to utilize proto		
		procedures when practicing in emergency amb CO5: Demonstrate their ability to utilize proto		
		procedures when practicing in emergency Department		
	Course Description	This skill based practical course involves students		
	Cod.: Cod 2 Cod: . p d. c	knowledge and skills they have learnt in the previous	_	
		participate in the management of patients in eme		
		services, ED and at community health centres as Junior Paramedic		
		Interns		
9	Outline Syllabus	Practical- Clinical Posting		
	Unit- 1	Assessment and management of patient in pre-	CO1	
		hospital care setting		
	Unit- 2	Assessment and management of patient in	CO2	
		emergency department		
	Unit- 3	Assessment and management of patient at CO3		
		community health centre		
	Unit- 4	Practicing procedure and protocol in emergency CO4		
		ambulance		
	Unit- 5	Practicing procedure and protocol in emergency	CO5	
		department		



Mode of Examination	Practical- Clinical case Scenarios				
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	Nancy	Caroline's Emergenc	y Care in the Streets- ni	nth edition	
Reference Book	chrome- extension: k.co.uk/ap 2. Sin https:/	//efaidnbmnnnibpcaj p/uploads/2023/07/l nulation Scenarios. Fi	Guidance Document. U ipcglclefindmkaj/https:/ Emergency-Scenario-Gu rimley Health. NHS Fou reers/clinical-education	/www.ukcrfnetwor idance-V5.pdf ndation Trust.	

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	2	2	2	1
CO5	2	2	2	1
Avg. PO attained	2.60	2.60	2.00	1.00



Scho	ol: SSAHS	Batch: 2025-29			
Prog	ram	Bachelor of Science (Emergency and Trauma Care Te	echnology)		
Bran	ch:	Semester: 7			
1	Course Code	ETP4404			
2	Course Title	Simulation in Emergency Care	Simulation in Emergency Care		
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	To allow students to experience provision of care simulated patients with a wide variety of disorder students may not encounter with real patients dur clinical postings and thus help complete their explearning on clinical scenarios and conduct of products.	rs that the ring their periential		
7	Course Outcome	On completion of course students will be able to: CO1: Demonstrate their ability to care for a wide patients with various emergency conditions in a s environment encompassing pre-hospital emergen CO2: Demonstrate their ability to care for a wide patients with various emergency conditions in a s environment encompassing emergency department care CO3: Demonstrate their ability to care for a wide patients with various emergency conditions in a s environment encompassing care to be provided in community health centre CO4: Demonstrate their ability to care for a wide patients with various emergency conditions in a s environment encompassing in ICU CO5: Demonstrate the write up of research project	variety of imulated cy care variety of imulated nt based variety of imulated n a variety of imulated in a		
	Course Description	This comprehensive skill based practical course will to demonstrate the usage of a wide variety of clinical conduct a wide variety of clinical procedures to prove care to simulated patients in a simulated environme	al guidelines and ride emergency		
9	Outline Syllabus	Practical			
	Unit- 1	Skills Lab- Simulation using a wide variety of Emergency Care scenarios of pre hospital emergency care	CO1		
	Unit- 2	Skills Lab- Simulation using a wide variety of Emergency Care scenarios of Emergency department based care	CO2		
	Unit- 3	Skills Lab- Simulation using a wide variety of Emergency Care scenarios of community health centre based care	CO3		





Unit- 4	Skills Lab- Simulation using a wide variety of Emergency Care scenarios of ICU based care	CO4
Unit- 5	Write up of research project	CO5

Mode of Examination	Practic	Practical- Case Scenarios			
Weightage Distribution	CA	CA MTE ETE			
	20	20 20 60			
Text Book	Nai	Nancy Caroline's Emergency Care in the Streets			
Reference Book	Tru	Simulation Scenarios. Frimley Health. NHS Foundation Trust. https://www.fhft.nhs.uk/careers/clinical-education/quest-home/simulation-scenarios/			

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	1	1	1	3
Avg. PO attained	2.60	2.60	1.80	1.40



Schoo	ol: SSAHS	Batch: 2025-29		
Progr	am	Bachelor of Science (Emergency and Trauma Care T	echnology)	
Branc	h:	Semester: 07		
1	Course Code	ETP4405		
2	Course Title	Instructor for Life Support Training Courses		
3	Credit	2		
4	Contact Hours (L-T-P)	0-0-4		
5	Course Status	Compulsory		
6	Course Objective	To provide the students with opportunities to p knowledge and skills in imparting these knowled previously untrained persons.		
7	Course Outcome	At the end of the course, the students will be able to: CO1: Teach Basic Cardiac Life Support course to previously untrained persons CO2: Teach Basic Standard First Aid Provider Course to previously untrained persons CO3: Teach the Basic Trauma Life Support course to previously untrained persons CO4: Conduct Basic Community First Responder Training to previously untrained persons CO5: Conduct assessments in a variety of life support programs		
	Course Description	This practical course provides the students the opport a variety of life support provider programs to previous persons.	=	
9	Outline Syllabus	Practical	CO mapping	
	Unit- 1	Participate as an Instructor in Basic Cardiac Life Support	CO1	
	Unit- 2	Participate as an Instructor in Standard First Aid Provider training CO2		
	Unit- 3	Participate as an Instructor in Basic Trauma Life CO3 Support		
	Unit- 4	Participate as an Instructor in Community First CO4 Responder Training		
	Unit- 5	Conduct assessments in a variety of life support programs	CO5	

Mode of Examination	Viva			
Weightage	CA	MTE	ETE	
Distribution	20	20	60	
Text Book	1. BC	CLS + AED Instructor	Training Handbook. BC	LS Instructor
	М	anual		





	M M
	2. BTLS Instructor Manual
	3. Standard First Aid Instructor Manual
	4. Community First Responder Instructor Manual
Reference Book	1. Singapore Resuscitation and First Aid Council Reference Guide for Basic
	Cardiac Life Support with Automated External Defibrillator (BCLS+AED)
	Training Centre/Instructor-Training Centre (TC/ITC)
	2. Basic Life Support Instructor Essentials Faculty Guide. American Heart
	Association. 2021. Chrome-
	extension://efaidnbmnnnibpcajpcglclefindmkaj/https://cpr.heart.org/-
	/media/CPR2-Files/Course-Materials/Instructor-Essentials/BLS/2021-
	BLS-Instructor-Essentials/BLS-Instructor-Essentials-Faculty-
	Guide_ucm_506913.pdf Nancy Caroline's Emergency Care in the
	Streets
	3. International Trauma Life Support for Emergency Care Providers. Roy
	Alson, John Campbell. 9 th Edition.
	4. What are the benefits of instructor-led training for training
	providers and learners? https://www.arlo.co/blog/benefits-of-
	instructor-led-training

Pos Cos	PO1	PO2	PO3	PO4
CO1	2	2	3	1
CO2	2	2	3	1
CO3	2	2	3	1
CO4	2	2	3	1
CO5	3	1	1	1
Avg. PO attained	2.60	1.80	2.60	1.00



8th Semester



Program Structure Template School of Allied Health Sciences Bachelor of Science (Emergency and Trauma Care Technology) Batch: 2025-29 TERM:8

C	G 1:		Teaching Load			Cua	Core/El ective/P re Requisi te/Co Requisi te	Type of Course
Sr. Subject No. Code		Subject		Т	P	Cre dit		CC/AE CC/SE C/DSE
Practi	ical- Internship					_		
1	ETP4421	Clinical Internship Posting -1		0	6	3	Major	CC
2	ETP4422	Clinical Internship Posting -2		0	6	3	Major	CC
3	ETP4423	Clinical Internship Posting -3		0	4	2	Major	CC
4	ETP4424	Clinical Internship Posting -4		0	20	10	Major	CC
5	ETP4425	Instructor for Life Support Training Courses		0	4	2	Minor	CC
	Total Hours 0 0 40 20							



Scho	ol: SSAHS	Batch: 2025-29
Progr	ram	Bachelor of Science (Emergency and Trauma Care Technology)
Branc	ch:	Semester: 8
1	Course Code	ETP4421
2	Course Title	Clinical Internship Posting -1
3	Credit	3
4	Contact Hours (L-T-P)	0-0-6
5	Course Status	Compulsory
6	Course Objective	 To practice on haematological diseases assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment that affect these systems. To practice the students on assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of obstetric and gynecological disorders. To practice the students on assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of head and neck disorders. To practice the students on assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of neurological disorders.
7	Course Outcome	On completion of course students will be able to: CO1: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management for haematological emergencies with performance of basic practical procedures under supervision CO2: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management for gynecological emergencies with performance of basic practical procedures under supervision CO3: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management for obstetric emergencies with performance of basic practical procedures under supervision CO4: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management for head and neck disorders with performance of basic practical procedures under supervision. CO5: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management for neurological emergencies with performance of basic practical procedures under supervision.



	Course Description	This course enables the students to demonstrate their proficiency in the assessment and management of haematological, obstetric, gynecological disorders, head and neck emergencies and neurological emergencies			
9	Outline Syllabus	Clinical Posting			
	Unit-1	Differential diagnosis and management of hematological emergencies and basic practical procedures- Clinical Posting	CO1		
	Unit-2	Differential diagnosis and management of gynecological emergencies and basic practical procedures- Clinical Posting in emergency department	CO2		
	Unit-3	Differential diagnosis and management of obstetric emergencies and basic practical procedures- Clinical Posting in emergency department	CO3		
	Unit-4	Differential diagnosis and management of head and neck disorders and basic practical procedures- Clinical Posting in emergency department	CO4		
	Unit-5	Differential diagnosis and management of neurological emergencies and basic practical procedures- Clinical Posting in emergency department	CO5		

Mode	Practical- Clinical C	Practical- Clinical Case Scenarios					
of							
Examin							
ation							
Weight	CA	MTE	ETE				
age	20	20	60				
Distribu							
tion							
Text	Nancy Caroline'	s Emergency Care in the St	reets-ninth edition				
Book							
Referen	4. Adult Cardia	c Arrest Case Flow Sheet.	chrome-				
ce	extension://e	faidnbmnnnibpcajpcglclefir	ndmkaj/https://cdn-				
Book	links.lww.co	m/permalink/sih/a/sih_2023	3_09_15_rodgers_sih-d-23-				
	00080_sdc1.	pdf					
	5. Emergency S	Scenario Training Guidance	Document. UKCRF Network.				
	chrome-						
		extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.ukcrfnetwor					
			y-Scenario-Guidance-V5.pdf				
	3- Simulation S	cenarios. Frimley Health. N	VHS Foundation Trust.				
	https://www.	fhft.nhs.uk/careers/clinical-	-education/quest-				
	home/simula	tion-scenarios/					



POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	3.00	3.00	2.00	1.00



Scho	ol: SSAHS	Batch: 2025-29			
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)			
Bran	ch:	Semester: 8			
1	Course Code	ETP4422			
2	Course Title	Clinical Internship Posting -2			
3	Credit	3			
4	Contact Hours (L-T-P)	0-0-6			
5	Course Status	Compulsory			
6	Course Objective	 1- To practice the students on assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of environmental and toxicological emergencies 2- To practice the students on assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of immunological and 			
7	Course Outcome	At the end of the course, the students will be able to: CO1: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management of environmental emergencies with performance of basic practical procedures under supervision CO2: Demonstrate abilities in suggesting likely differential diagnoses and likely approaches to management of toxicological emergencies with performance of basic practical procedures under supervision CO3: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management for immunological emergencies with performance of basic practical procedures under supervision CO4: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management for dermatological emergencies with performance of basic practical procedures under supervision CO5: Demonstrate their abilities in suggesting likely differential diagnoses and likely approaches to management for multi-system emergencies emergencies with performance of basic practical procedures under supervision			
	Course Description	This course enables the student to demonstrate their proficiency in the assessment and management of environmental, toxicological, immunological and dermatological emergencies with performance of practical procedures under supervision.			
9	Outline Syllabus	Practical-Clinical Posting			
	1				





Unit- 1	Differential diagnosis and management of environmental emergencies and basic	CO1
	practical procedures- Clinical Posting in	
	emergency department	
Unit- 2	Differential diagnosis and management of	CO2
	toxicological emergencies and basic practical	
	procedures- Clinical Posting in emergency	
	department	
Unit- 3	Differential diagnosis and management of	CO3
	immunological emergencies and basic	
	practical procedures- Clinical Posting in	
	emergency department	
Unit- 4	Differential diagnosis and management of	CO4
	dermatological emergencies and basic	
	practical procedures- Clinical Posting in	
	emergency department	
Unit-5	Differential diagnosis and management of	CO5
	multi-system emergencies and basic practical	
	procedures- Clinical Posting in emergency	
	department	

Mode of Examination	Practical- Clinical Case Scenarios				
Weightage Distribution	CA	MTE	ETE		
	20	20	60		
Text Book	Nancy Caroline's Emergency Care in the Streets-ninth edition				
Reference Book	chrome- extension://e .uk/app/uplo 2. Simul Trust. ht	efaidnbmnnnibpcaj pads/2023/07/Eme lation Scenarios. I	Guidance Document. UKC jpcglclefindmkaj/https://w rgency-Scenario-Guidance Frimley Health. NHS Fo .uk/careers/clinical-educat	ww.ukcrfnetwork.co -V5.pdf undation	

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	3	3	2	1
CO5	3	3	2	1
Avg. PO attained	3.00	3.00	2.00	1.00



Scho	ool: SSAHS	Batch: 2025-29				
Prog	ram	Bachelor of Science (Emergency and Trauma Care Technology)				
Bran	ch:	Semester: 8				
1	Course Code	ETP4423				
2	Course Title	Clinical Internship Posting -3				
3	Credit	2				
4	Contact Hours (L-T-P)	0-0-4				
5	Course Status	Compulsory				
6	Course Objectives	1- To practice the students on assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of psychological emergencies 2- To practice the students on assessment (including history taking, physical examination, point-of-care tests and other investigations) and treatment of pediatric and geriatric emergencies				
7	Course Outcomes	At the end of course students will be able to CO1: Demonstrate their abilities in suggest differential diagnoses and likely approached psychological emergencies with performant procedures under supervision, such as restructed CO2: Demonstrate abilities in suggesting lidiagnoses of paediatric emergencies CO3: Demonstrate approaches to management emergencies with performance of basic pradunder supervision. CO4: Demonstrate abilities in suggesting lidiagnoses for geriatric emergencies CO5: Demonstrate abilities of geriatric emergencies CO5: Demonstrate abilities of geriatric emergencies	ing likely s to management ce of basic practical aint techniques. kely differential nent of paediatric ctical procedures kely differential ergencies with			
8	Course Description	This course enables the student to demonstrate assessment and management of psychological geriatric emergencies	their proficiency in the			
9	Outline Syllabus	Practical- Clinical Posting				
	Unit- 1	Differential diagnosis and management of psychological emergencies and basic practical procedures- Clinical Posting in emergency department	CO1			
	Unit- 2	Differential diagnosis of pediatric emergencies - Clinical Posting in emergency department	CO2			
	Unit- 3	Management of Pediatric emergencies with basic practical procedures- Clinical Posting in emergency department	CO3			





Unit- 4	Differential diagnosis of Geriatric emergencies - Clinical Posting in emergency department	CO4
Unit- 5	Management of Geriatric emergencies with basic practical procedures- Clinical Posting in emergency department	CO5

Mode of Examination	Practical- Clinical Case Scenarios						
Weightage Distribution	С	C MTE ETE					
	A						
	20	20	60				
Text Book	Nancy Caroline's Emergency Care in the Street- ninth edition						
Reference Book	1. E	mergency Scenario Training	Guidance Document. U	KCRF Network.			
	chrome-						
	extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.ukcrfnetwor						
	k.co.uk/app/uploads/2023/07/Emergency-Scenario-Guidance-V5.pdf						
	2. Simulation Scenarios. Frimley Health. NHS Foundation Trust.						
	https://www.fhft.nhs.uk/careers/clinical-education/quest-						
	home/simulation-scenarios/						

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	1	1
CO2	3	2	1	1
CO3	2	2	1	1
CO4	3	2	1	1
CO5	2	2	1	1
Avg. PO attained	2.60	2.20	1.00	1.00



Scho	ol: SSAHS	Batch: 2025-29				
Program		Bachelor of Science (Emergency and Trauma Care Technology)				
Bran	ch:	Semester: 8				
1	Course Code	ETP4424				
2	Course Title	Clinical Internship Posting -4				
3	Credit	10				
4	Contact Hours (L-T-P)	0-0-20				
5	Course Status	Compulsory				
6	Course Objective	To practice the assessment and treatment of patients with different types of emergencies in ambulances, ED and community health centres as Senior Paramedic Interns To practice the protocols and familiarize with operations of emergency ambulances, ED and community health centres				
7	Course Outcome	On completion of course students will be able to: CO1: Demonstrate their ability to assess and initiate management of patients in the pre-hospital environment CO2: Demonstrate their ability to assess and participate in the management of patients in emergency departments CO3: Demonstrate their ability to assess and participate in the management of patients at community health centres CO4: Demonstrate their ability to utilize protocols and procedures when practicing in emergency ambulances CO5: Demonstrate their ability to utilize protocols and procedures when practicing in emergency Department				
	Course Description	This skill based practical course involves students using the knowledge and skills they have learnt in the previous three years to participate in the management of patients in emergency ambulance services, ED and at community health centres as Senior Paramedic Interns				
9	Outline Syllabus	Practical- Clinical Posting				
	Unit- 1	Assessment and management of patient in pre- hospital care setting				
	Unit- 2	Assessment and management of patient in emergency department CO2				
	Unit- 3	Assessment and management of patient at community health centre				
	Unit- 4	Practicing procedure and protocol in emergency ambulance				
	Unit- 5	Practicing procedure and protocol in emergency department CO5				





Mode of Examination	Practic	Practical- Clinical Case Scenarios			
Weightage Distribution	CA	CA MTE ETE			
	20	20	60		
Text Book		Nancy Caroline's Emergency Care in the Streets- ninth edition			
Reference Book	Tru	Simulation Scenarios. Frimley Health. NHS Foundation Trust. https://www.fhft.nhs.uk/careers/clinical-education/quest-home/simulation-scenarios/			

POs Cos	PO1	PO2	PO3	PO4
CO1	3	3	2	1
CO2	3	3	2	1
CO3	3	3	2	1
CO4	2	2	2	1
CO5	2	2	2	1
Avg. PO attained	3.00	3.00	2.00	1.00



Scho	ol: SSAHS	Batch: 2025-29			
Program		Bachelor of Science (Emergency and Trauma Care Technology)			
Branch:		Semester: 08			
1	Course Code	ETP4425			
2	Course Title	Instructor for Life Support Training Courses			
3	Credit	2			
4	Contact Hours (L-T-P)	0-0-4			
5	Course Status	Compulsory			
6	Course Objective	To provide the students with opportunities to polish their knowledge and skills in imparting these knowledge and skills to previously untrained persons.			
7	Course Outcome Course Description	At the end of the course, the students will be able to: CO1: Teach Basic Cardiac Life Support course to previously untrained persons CO2: Teach Basic Standard First Aid Provider Course to previously untrained persons CO3: Teach the Basic Trauma Life Support course to previously untrained persons CO4: Conduct Basic Community First Responder Training to previously untrained persons CO5: Be proficient at conducting assessments of the various life support programs This practical course provides the students the opportunity to teach a variety of life support provider programs to previously untrained persons.			
9	Outline Syllabus	Practical	CO mapping		
	Unit- 1	Participate as an Instructor in Basic Cardiac Life Support	CO1		
	Unit- 2	Participate as an Instructor in Standard First Aid Provider training CO2			
	Unit- 3	Participate as an Instructor in Basic Trauma Life CO3 Support			
	Unit- 4	Participate as an Instructor in Community First Responder Training	CO4		
	Unit- 5	Conduct Assessments of Providers during Life Support Training CO5			





6A 0 5.	MTE 20	ETE 60	
	20	60	
5.		00	
	BCLS + AED Instructor Training Handbook. BCLS		
	Instructor Manual		
6.	BTLS Instructor Manual		
7.	Standard First Aid Instructor Manual		
8.	Community First Responder Instructor Manual		
2. B' 3. St	BTLS Instructor Manual Standard First Aid Instructor Manual		
	7. 8. 1. B0 2. B' 3. St	 Standard First Community F BCLS Instructor M BTLS Instructor M Standard First Aid 	 Standard First Aid Instructor Manual Community First Responder Instructor Manual BCLS Instructor Manual BTLS Instructor Manual

POs Cos	PO1	PO2	PO3	PO4
CO1	2	2	3	1
CO2	2	2	3	1
CO3	2	2	3	1
CO4	2	2	3	1
CO5	2	2	3	1
Avg. PO attained	2.00	2.00	3.00	1.00