Ministry of Education Test Blueprint Manual for National Exit Examination to be held in 2015 E.C

Program:- Bachelor of Science Degree in emergency and critical care nursing

Band three

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1. INTRODUCTION

Emergency and critical care Nursing is a specialization in emergency and critical care that focuses on how people react to life-threatening situations. A licensed professional nurse who specializes in emergency and critical care is in charge of making sure that patients who are acutely and critically sick and their families receive the best treatment possible. Intensive care units and emergency rooms are only two examples of the many settings and specialties where emergency and critical care nurses can be found working. It takes meticulous assessment and monitoring of patient progress to work in an emergency department. This is done to look out for any abrupt or gradual changes in a patient's medical state that might call for emergency assistance. The majorities of patients in a critical care unit are physically ill and need constant breathing and cardiac monitoring in addition to therapeutic modifications. The management of pharmaceutical dosages, anesthesia, and ventilator support falls under the purview of emergency and critical care nurses.

The idea of emergency and critical care employing modern technology is relatively new for Ethiopia, despite the fact that there have always been seriously ill and injured patients. Patient care has gotten more complicated as technology and medicine have advanced. In order to give proper care, nurses needed specific training and expertise, and the systems for delivering care needed to advance to meet patients' demands for ongoing observation and care. Describe the information, skills, and behaviours that

graduates of a program should possess defined the practical knowledge and abilities that help people perform successfully in work, school, and other contexts. It can be evaluated against recognized benchmarks and enhanced through development and training. A significant portion of one discipline is impacted by cluster-related information, abilities, and attitude, which correlates with the performance needed to accomplish a job. It is a test that students must pass in order to finish a course. It is given to students near the conclusion of their higher education and is intended to evaluate their knowledge and fundamental skills. The exam measures the student's performance and overall grasp of the subject.

1.1 THE MAIN OBJECTIVES OF THE TEST BLUEPRINT

Test blueprint preparation is generally opted to assist the preparation of a test that is representative, broadly sampled, and consisting of complete knowledge domain expected of the Ethiopian higher education students on completion of their study program. The specific objectives of test blueprint are to:

- Facilitate the construction of a representative and balanced test items for the selected courses in accordance with the competencies identified.
- Guide test developers or writers to write or set appropriate test items.

1.2 SIGNIFICANCE OF THE DOCUMENT

It is important to set competency areas of the subject matter (program) in order to measure the how much graduates are acquired with skills, knowledge and attitudes. The following shows us the significance or setting competencies and identifying core courses of the program;

- To set competencies that helps to assess the basic skills, knowledge and attitude of graduating students;

- To systematically identify the core courses which will be included the exit exam

2. THE MAIN OBJECTIVES OF THE PROGRAM

- Produce Emergency & Critical Care Nurses who have solid knowledge of biomedical science, clinical and public health practice
- Produce Emergency & Critical Care Nurses who can provide individualized patient care using the nursing processes.
- Produce Emergency & Critical Care Nurses who can Manage patients with multiple organ failures using the existing scientific knowledge
- Produce Emergency & Critical Care Nurses who can Establish and strengthen emergency medical services system
- Produce Emergency & Critical Care Nurses who can Practice professionally on all levels of emergency and critical care setting
- Produce Emergency & Critical Care Nurses who can Develop professional communication skills in dealing with patients families and other health professionals
- Produce Emergency & Critical Care Nurses who will Participate in conducting and utilizing relevant research findings
- Produce Emergency & Critical Care Nurses who can Apply evidence-based nursing practice for patients
- Produce Emergency & Critical Care Nurses who will Apply skills based on the

theoretical foundation

- Exercise leadership and management skills in the setting
- Produce Emergency & Critical Care Nurses who will Apply critical thinking and decision-making skills which lead to reflective and responsible practice

3. Expected Profile of the Graduates

A graduate's profile is the general description of the desirable qualities of graduates in real-world work. Graduates' profile helps to determine the students' conceptual knowledge, skills, and attitude that they possess. A graduate profile can be advanced through experience in the real world.

3.1 Core Expected Profile of the Graduates

- Graduates in Bachelor of Science in Emergency and Critical Care Nursing (ECCN) will be assess & manage acutely injured and seriously ill patients & for their health care needs, based on highly developed nursing knowledge and skills.
- Triage patients for acute disease and early signs of illness whenever necessary; Act on natural and manmade disaster condition and lead inter disciplinary professional team; Order necessary investigations, and provide treatment and care independently, as part of a team, and through referral to other agencies.
- ECCN specialists must act professionally autonomous decisions for which they are accountable for.
- They perform a supportive role in helping people to manage and live with illness, and admit and/or discharge patients from their caseload, and refer patients to other health care providers as appropriate.

- They also perform pre hospital care and collaboratively with other emergency team and disciplines and provide a leadership and consultancy function as required and innovate clinical practice and pre hospital care.
- Graduates in ECCN apply evidence-based and problem-solving approaches to clinical practice thus improving patient care, and conduct research and evaluate research findings to improve health service.
- ECCN graduates must be participate in teaching, research and community service; Conduct clinical audit and evaluate practice in his/her emergency and critical care specialty area.
- Create safe environment and work on standards of care in emergency and ICU set up, and promote professionalism and continue professional development.
- Compete Function in accordance with federal ministry of health legislation, common law, health standards and policies pertinent to emergency nursing practice in Ethiopian context.

4. COMPETENCES AND LEARNING OUTCOMES

4.1 COMPETENCES

Competences of student will be measured by the national exit exams at the end of the completion of emergency and critical care nursing specialty courses through assessing students' knowledge, skill and attitude. The details of the competences are presented here below

Expected Competencies to be achieved

Generally: - Graduates will be able to

These course provides to the student with the advanced knowledge, attitudes, and skills needed to provide comprehensive introduction about emergency & critical care nursing care for the patient with urgent health problem

4.1.1 KNOWLEDGE

Specifically: - Graduates will be able to

- Formulate nursing diagnoses based on accurate analysis & interpretation of assessment data
- Develop a comprehensive, individualized and evidence based nursing care plan in collaboration with relevant multidisciplinary team.
- Recognizes the significance of the critically ill patient and family in ethical decision making within the multidisciplinary team ensuring that they take informed decisions
- Collaboratively review and revise the care plan of emergency & critically ill patient according to the patient response for interventions
- Assess and manage pain using pharmacologic and non-pharmacological management options.
- Initiate a timely discharge plan in consultation with the relevant health care team members
- Provide calculated enteral/ parenteral nutritional support for a compromised critically ill patient
- Regularly document the interventions and progress of the patient using facility standard
- Applies principles of teaching, learning and evaluation to design educational programs that enhance the knowledge and practice of staff in the Critical Care Unit (leadership)
- Participates in the formal and informal education, Mentors staff and students in the Critical Care Unit to develop expertise in the care of critically ill patients(nursing education and curriculum development) Contributes to nursing knowledge by conducting or synthesizing research and other

evidence that discovers, examines and evaluates current practice, knowledge, theories, criteria and creative approaches to improve Critical Care Practice

- Promotes a climate of research and clinical inquiry in the Emergency and critical care setting
- Analyzes and discusses the findings of nursing research studies within the health care team in the field of Emergency and critical care nursing to negotiate for applicable findings in own work environment
- Explain basic physiologic, anatomic and biochemical make up of human body.
- Describe pathophysiology of emergency disease conditions, natural course of diseases and timely predict the possible consequences that will follow.
- Explain emergency and critical care nursing assessment
- Explain basic and advanced life supports, resuscitation, stabilization and disposition of patients on all age group.
- Develop and execute different protocols and guidelines on the respective disciplines.
- Describe the pharmacology of essential emergency and ICU drugs
- Explain methods of scene evaluation, triaging and treatment on pre-hospital setup and during transportation.
- Develop management modalities and techniques on situations like mass causalities and disasters.
- Manage the emotional crisis in the post disaster period resulting from all types of hazards.
- Explain proper documentation and medico legal issues of the country.
- Explain advanced invasive and non-invasive respiratory supports like mechanical ventilation and BiPAP and CPAP.
- Conduct epidemiological survey and research techniques

4.1.2 SKILL

- Practices within the realm of emergency and critical care nurse specialist scope of practice and knowledge based in accordance with the advances, current evidence and trends in critical care nursing
- Practices in accordance with the relevant international and national legislative framework, local policies and care management tools such as clinical guidelines, protocols and algorithms
- Participates and advocates for the patient and profession in decision making about ethical dilemmas, such as withdrawal of life support
- Demonstrates sensitivity to medico-legal risks related to monitoring and therapeutic interventions in ICU and consciously avoids them or reports them accordingly
- Participates in efforts to influence health care policy on behalf of heath care users and the profession
- Administer fluid, blood and blood products
- Conduct death review and near miss audits
- Demonstrate a commitment to carryout professional responsibilities and adherence to ethical principles.
- Perform appropriate and fast evaluation /triage of critically sick patient.
- Organize the EMS unit activities and be alert enough to identify critically sick patients in situations when there is mass causalities or when the EMS unit is expected to handle large number of emergency case at one time.
- Providing fast and effective BLS, ACLS and ATLS activities
- Participate on training of medical health workers on emergency medical service.

- Perform Rapid sequence intubation
- Perform circothyrothomy, needle decompression, chest tube, defibrillation and cardio version.
- Perform peripheral , central IV line and intraosseous.
- Perform advanced emergency and critical care
- Demonstrate invasive and non-invasive monitoring abilities for critically ill patients
- Perform immobilization techniques of spin
- Perform different splinting and reduction tequniques for different musculoskeletal injuries
- Prescribe ,prepare and Administer medications through different routes with advanced device
- Teach and train basic and advanced emergency skills for nurses and other professionals Perform FAST ultrasound, bed side echo, Doppler ultrasound and ECG. Interpret basic emergency diagnostic tests and radiological investigations like ECG,X-ray, CT scan, ,ultrasound like FAST ultrasound .bed side echo, bed side Doppler ultrasound etc.
- Set and manipulate mechanical ventilator monitoring perform arterial blood sampling. And Arterial blood gas analysis
- Take in charge of emergency and critical care unit activates for managing the day to day activities
- Provide high quality, culturally sensitive specialized nursing care for emergency and critically ill patients in assigned departments.
- Promote effective team working sprit in a multidisciplinary team in the management of emergency & critically ill patient.
- Participate actively in teaching, mentoring and supervising junior students with in the working area.
- Provide high quality, culturally sensitive health education and advise to patients, relatives and at risk groups according to their needs to help them reach in decisions.

- Provide high quality, culturally sensitive health education to maximize the wellbeing of community
- Provide high quality, culturally sensitive nursing care plan for specific body system disorders using nursing process
- Document and report independent activities regularly
- Provide special care for all sophisticated and costly equipment used in the management of emergency and critically ill patients.
- Triage patients in the pre hospital and Hospital settings.
- Manage the victims out of the hospital settings
- Giving Emergency Ambulance services
- Perform Advanced Cardiac Life support for Emergency and Critical patients

4.1.3 ATTITUDE

- Provide at most respect and diligence to his/her profession.
- Devote his/her time, knowledge and power to the victim who needs his/her help irrespective of the circumstance he/she is in.
- Believe that the knowledge and skill acquired during the training saves patient life if used with concerned responsible manner and dedication.
- Utilize all resources in appropriate manner.
- Communicate with patients, families and relatives in professional manner
- Have good relationship with colleagues give priority and emergency care based on urgency and degree of severity of specific case but can not avoid or delay intervention because of complexity of the case or specific individual/person factor related to the patient.
- All possible efforts should be made to save patients life while the critically sick patient is alive.

- Appropriate use of all the resources in the Emergency medical service unit with full responsibility
- Actively engages with the intra and inter-professional peers and colleagues contributing one's professional perspective to enhance one's own professional practice or role performance
- Delivers care in a manner that preserves and protects the autonomy, dignity, rights, values, beliefs and preferences of the health care user and family in the midst of dehumanizing environment for example research of vulnerable patients who are unconscious, heavily sedated and with communication barriers within the relevant multidisciplinary team

Accepts accountability for increased responsibility for own professional and clinical judgment, actions, health care outcomes and continued competence in accordance with the prescribed scope of practice, relevant health and nursing acts and regulations

4.2 LEARNING OUTCOMES

After completing the courses, the graduating students will be able to

- Understand epidemiological profile concerning the incidence, prevalence morbidity and mortality of life threating conditions in order to practice evidence based assessment
- Promotes the emergency and critical care nursing practice in critical care nursing and role development by interpreting its role for health care users, families and the profession as whole
- Introduce, evaluates and manage innovation and change in critical care setting through encouraging creativity
- Participate in health promotion and disease prevention activity
- Engage in disaster preparedness and management
- Establish, strengthen and work well in pre hospital setting
- Apply principles of emergency and critically ill patient assessment in and out of health facility

- Organize, synthesizes, analyses and interprets the assessment data of the critically ill patients
- Monitor, interpret and react to respiratory and hemodynamic status of the critically ill patient
- Safely and confidently operates various types of technologies used in critical care setting
- Implement appropriate nursing care for the patient selective body system disorder
- Initiate pharmacological and non-pharmacological pain management
- Execute basic and advanced life support based on protocol and algorithms (BLS,ACLS, ATLS)
- Determine readiness, participate in decision making and performs in weaning of critically ill patient from assistive technological device
- Accurately record, analyses interpret and react appropriately to advanced biomedical and technological finding and parameter
- Utilize evidence based formulae to accurately calculate drug dosage for continues infusion and bolus for treatment of critically ill patient
- Utilize evidence based formulae for accurately calculate replacement and maintenance fluid
- Acquires basic concepts of emergency patient assessment.
- Identify patients with surgical, medical, pediatric, and psychiatric, as well as gynecology and obstetrics emergency.
- Understands how to manage patients with emergency condition
- Know basic concept of triage
- Understand and manage patients with traumatic cases
- Understand basic life support and advanced life support

5. THEMES AND LIST OF COURSES

5.1 CATEGORIZING COURSES INTO THEMES

The following 3 major themes that correspond to the expected minimum competency level of graduates were identified considering the major tasks of graduate in Emergency and critical care nursing. Weights are assigned to each major theme based on their significance for the perspective of the industry. Thus, proportion of exit exam questions should follow the weight given to the theme and relatively students are expected to give more emphasis to patient care domain and trauma as compared to other themes.

Three thematic areas to be included in the exam as shown in the following

- Patient care
- Trauma
- scholarly

5.2 COURSES TO BE INCLUDED IN THE EXIT EXAMINATION

This document has been compiled with **03 themes** and **10 courses** for exit examination for achieving the competencies level of graduates that are expected to acquire in emergency and critical care nursing program there is plenty number of courses that were prescribed in sequences

and this exit examination document has identified **10 courses** delivered at different semesters and academic calendars.

- Foundation for emergency and critical care nursing
- Clinical nursing I
- Clinical nursing II
- Emergency and critical care nursing I
- Emergency and critical care nursing II
- Emergency and critical care nursing III
- Emergency and critical care nursing for special populations
- Trauma
- Scholarly -nursing research methods, Health Promotion & Disease Prevention but the core courses are clearly presented and have been selected in this document.

Table 1: Themes, list of courses and allocated credit hour

S. No	List of Themes	List of Module/course	Module /Course/ Code	ECTS	Cr.hr	% share
1	Patient care	**Clinical Nursing I**	Nurs M - 2173	20	12	16
		Clinical Nursing II	Nurs M - 2183	19	11	14
		Foundation of emergency & critical care nursing	ECCN M – 3193	10	6	8
		Emergency & Critical Care Nursing I	ECCN M – 3233	15	10	13
		Emergency & Critical Care Nursing II	ECCN M 3263	8	5	7
		Emergency & Critical Care for Special population	ECCN M – 4313	15	10	13
		Emergency & Critical Care Nursing III	ECCN M– 4323	13	8	11
2	Trauma	**Trauma**	ECCN M – 3273	13	8	11
3	Scholarly	**Nursing Research Methods**	SPHM-4342	5	3	4
		Health Promotion & Disease Prevention	SPH M - 3252	4	2	3

S. No	List of Themes	List of Module/course	Module /Course/ Code	ECTS	Cr.hr	% share
Total				**12 2**	**75**	100

Table 3 TEST BLUEPRINT TABLE

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	General objective	Specific objectives
1	**Patient care (82%)**	**Clinical Nursing I**	20	12	16	Apply the basic knowledge, attitude and skill on common Medical, Surgical and psychiatry disorders.	✓ Diagnose and treat medical surgical and psych disorders ✓ Use knowledge, skills and attitude gained in diagn and treating patients with common disorders ✓ Demonstrate positive attitude in helping and taking of patients with medical and surgical problems. ✓ Display the importance of rehabilitating patients a earliest possible time.
		Clinical Nursing II	19	11	14	Able to Provide nursing care for clients with normal & abnormal pregnancy, labour, puerperium and gynaecological cases.	✓ Distinguish between true and false labour ✓ Differentiate between the various stages of labour ✓ Prepare delivery set and conduct labour ✓ Perform and repair an episiotomy ✓ Provide the immediate care of the new born ✓ Provide post-natal care and health education ✓ Apply PMTCT during pregnancy, labour and postpa period.
						Apply basic knowledge, attitude and skill to treat and care for childhood diseases	✓ Be able to identify the need of sick neonate children, develop appropriate nursing care plan apply them using the nursing process approach. ✓ Understand, identify and differentiate the growth development of children in different age group. ✓ Develop skill in IMNCI: assessing, classify identifying treatment and treating the com

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	General objective	Specific objectives
							neonatal and childhood illnesses and counseling mother or caregiver. ✓ Identify the various aspects of preventive pedia nursing and practice them in providing nursing car children in the practical areas.
		Foundation of emergency & critical care nursing	10	6	8	Apply biomedical concepts, nursing process, airway management and anaesthesia in the provision of basic emergency and critical cares of a patient in a professional manner.	✓ Explain historical development of emergency and cr care nursing ✓ Apply proper pre-hospital care ✓ Perform triage in the management of pat demanding emergency and critical care nursing. ✓ Classify pain and Apply principles of pain manage and sedation ✓ Manage fluid and electrolyte imbalance ✓ Perform coma care ✓ Administer nutrition via NGT and IV using the co technique ✓ Explain principles of air way management ✓ Perform endotracheal intubation ✓ Manage obstructed airway ✓ Interpret parameters obtained from monitoring devi ✓ Practice mechanical ventilator monitoring ✓ Practice proper administration of blood transfusion ✓ Practice proper oxygen administration
		Emergency & Critical Care	15	10	13	Able to Provide emergency & critical care nursing for patients with respiratory& circulatory emergencies.	✓ Develop comprehensive individualized and evid based plan of care according to determined health priorities for patients with respiratory system ✓ Utilize the equipment used assessment

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	General objective	Specific objectives
		Nursing I					Cardiovascular system ✓ Apply principles of biomedical sciences & technolo the management of critically ill patients with Circul system disorder ✓ Apply principles of biomedical sciences & technolo the management of critically ill patients with CVS ✓ Utilize evaluation data to modify the plan of emerg & critical care for patients with CVS emergencies
		Emergency & Critical Care Nursing II	8	5	7	Able to provide emergency & critical care nursing for patients with gastrointestinal emergencies.	✓ Apply proper history taking principles for emergen critically ill patient with endocrine and GI system. ✓ Utilize equipment's used in the assessment of endo and GI system ✓ Formulate NDX for patients with endocrine & emergencies ✓ Develop nursing care plan for the endocrine & GI sy disorders ✓ Implement the nursing care plan intervention for pa with endocrine & GI emergencies ✓ Provide palliative and end of life care for patients endocrine and GI emergencies & critically ill patient
		Emergency & Critical Care for Special population	15	10	13	Able to provide basic emergency and critical care for pregnant mothers, paediatric, and Psychiatry patients with trauma.	✓ Identify and Provide emergency care for mothers obstetric emergencies ✓ Identify and Manage neonatal and paedi emergencies ✓ Identify Psychiatric emergencies ✓ Provide emergency care for patients with psychi emergencies
		Emergenc	13	8	11	able to provide emergency &	✓ Utilize advanced technology in the managemer

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	General objective	Specific objectives
		y & Critical Care Nursing III				critical care nursing for patients with renal and infectious emergencies	critically ill patients ✓ Interpret the assessment data of the renal infectious emergency and critically ill patient from various data sources ✓ Formulate nursing diagnoses based on accurate ana and interpretation of the assessment data obtained a critical evaluation of renal and infectious emerg and critically ill patient. ✓ Provide advanced resuscitative procedures for pat with renal and infectious emergencies ✓ Participate in the management of a patient who dialysis ✓ Identify and treat common emergency infec diseases ✓ Apply infection prevention protocol to prevent infec diseases.
2	**Trauma (11%)**	**Trauma**	13	8	11	Provide basic emergency and critical care for patients with trauma	✓ Describe diagnostic studies and management opti abdominal and pelvic injury ✓ discuss the most common musculoskeletal Trauma ✓ Use essential skill in the management of shoc trauma patients ✓ Define Basic and advanced Trauma Life Support du the managements of trauma patients ✓ Describe the diagnostic work up of trauma ✓ Mange patients with a rapidly deteriorating physio condition ✓ Apply basic and advanced air way management ✓ Determine drug dosages for continuous infusions boluses of treatment in ICU and emergency departm ✓ Calculate fluids for hemodynamically compron

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	General objective	Specific objectives
							patients ✓ Apply communication skill with patient and hi family and other health care team for care plan in and ED
3	**Scholarly (7%)**	**Nursing Research Methods**	5	3	4	Describe and apply basic research method to investigate health problems at as it applies to ECCN to the improve quality of care, promote the health status of patients and families, and prevent an emergency and critical illness conditions.	✓ Explain the concept of research and nursing researc ✓ Describe the different types of research ✓ Identify a research problems ✓ Write literature review text ✓ Develop research objectives ✓ Distinguish the different types of nursing research designs ✓ Select study population ✓ Identify different types of sampling methods ✓ Outline different types of data collection methods ✓ Differentiate different methods of data analysis ✓ Analyse ethical issues in research processes ✓ Develop a research proposal ✓ Point out different ways of referencing ✓ Prepare work plan and budget break down ✓ Prepare a research report ✓ Describe how to utilize research findings for evidenc based ECCN practices
		Health Promotion & Disease Prevention	4	2	3	able to apply principles and methods of health promotion to improving the health of a population	✓ Describe the history and evolution of health promoti including the relationships between health educatio health promotion and public health ✓ Identify priority action areas for health promotion in Ethiopia. ✓ Demonstrate the ability to promote the health of populations by influencing lifestyle, nutrition and so economic, physical and cultural environment throug

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	General objective	Specific objectives
							methods of health promotion, including health education, directed towards populations, communiti and individuals ✓ Apply communication and group dynamic strategies interactions with individuals and groups ✓ Demonstrate the ability to use effective communicat for healthcare advocacy (
		122		**75**	100		

Table 3 SHARE OF THE THEMES/COURSES/ITEMS IN |PERCENTAGE (%)

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	Weight of course or proportion	Number of test items from each course	Cognitive						affective	psychomotor	total
								remember	understand	apply	Analyse	evaluate	create			
1	Patient care (82%)	**Clinical Nursing I**	20	12	16	12/62=0.19	0.19*82=16	1	2	2	2	1	-	2	6	16
		Clinical Nursing II	19	11	14	11/62=0.17 0.17*82=14	7 items (paediatrics part)		1	1	2				3	7
							7 items (maternity part)		3.5	1.75			-	-	1.75	7
		Foundation of emergency & critical care	10	6	8	6/62=1	1*8=8	0.58	1.14	1.14	0.57				4.57	8

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	Weight of course or proportion	Number of test items from each course	Cognitive						affective	psychomotor	total
								remember	understand	apply	Analyse	evaluate	create			
		nursing														
		Emergency & Critical Care Nursing I	15	10	13	10/62=1	1*13=13			10.4					2.6	13
		Emergency & Critical Care Nursing II	8	5	7	5/62=1	1*7=7			2.33			1.16	1.16	2.35	7
		Emergency & Critical Care for Special population	15	10	13	10/62=1	1*13=13		9.75						3.25	13
		Emergency & Critical Care Nursing	13	8	11	11/62=1	1*11=11		1.57	3.15	1.57	1.57		1.57	1.57	11

S. No	List of Themes	List of Module/course	ECTS	Cr.hr	% share	Weight of course or proportion	Number of test items from each course	Cognitive						affective	psychomotor	total
								remember	understand	apply	Analyse	evaluate	create			
		III														
2	**Trauma (11%)**	**Trauma**	13	8	11	11/11=1	1*11=11	1.1	4.4	2.2	2.2		1.1			11
3	**Scholarly (7%)**	**Nursing Research Methods**	5	3	4	3/5=0.6	0.6*7=4	0.5	1.5	0.25	0.75		1			4
		Health Promotion & Disease Prevention	4	2	3	2/5=0.4	0.4*3=3		1.2		1.8					3
Total		**122**		**75**	100		100									100

Table 4 Learning outcomes in terms of the three domains (Cognitive, Affective and Psychomotor)

S. No	List of Themes	List of Module/course	Cr.hr	% share	Share of Competencies (in %)			remark
					Knowledge	skill	attitude	
1	Patient care	Clinical Nursing I	12	16	8	6		
		Clinical Nursing II	11	14 7	4	3		
				7 77	5.25	1.75		
		Foundation of emergency & critical care nursing	6	8	3.43	4.57		
		Emergency & Critical Care Nursing I	10	13	10.4	2.6		
		Emergency & Critical Care Nursing II	5	7	3.49	2.35	1.16	
		Emergency & Critical Care for Special population	10	13	9.75	3.25		
		Emergency & Critical Care Nursing III	8	11	7.86	1.57	1.57	
2	Trauma	Trauma	8	11	11			

S. No	List of Themes	List of Module/course	Cr.hr	% share	Share of Competencies (in %)			remark
					Knowledge	skill	attitude	
3	Scholarly	Nursing Research Methods	3	4	4			
		Health Promotion & Disease Prevention	2	3	3			
		75		100				

6. CONCLUSION

The primary goals of the national exit examination are to improve patient care and generate highly skilled practitioners in emergency and critical care nursing. On the defined course lists and themes, the national exit examination provides a thorough foundation for graduates' professions and future education in the discipline. Additionally, it is anticipated that the academics, students, and concerned higher officials will be accountable for the National Exit Examination, a new intervention cope up mechanism, being successful