Tata Institute of Social Science

School of Vocational Education

Deemed University as under Section 3 of the University Grants Commission Act 1956'

Post Graduate Diploma in Medial Emergency Services

Introduction

In December 2011, Tata Institute of Social Sciences set up the School of Vocational Education (SVE) to provide immediate and definite interventions to improve the lives of the disadvantaged and marginalized youth, especially who are excluded by the formal school education system, through appropriate vocational training programmes. It has been set up with a vision of creating an ecosystem that would bring back the dignity of labour for blue-collar streams of work and create sustainable sources of income. This project has been initiated under the aegis of All India Council for Technical Education (AICTE) proposed by the Ministry of HRD, Government of India.

Key Features:

Introduction and Course Objectives

The main goal of the Post Graduate Diploma in Emergency Medical Services Course is to produce highly efficient medical resource with the necessary knowledge, skill and attitude to manage in an effective manner, a wide range of clinical problems in Emergencies. Special emphasis are placed on the relatively common emergencies & train them for clinical skills, required to manage them at utmost importance.

As a result of training in this course, the medical professional should become competent in life saving emergency interventions during Pre Hospital and in Emergency care efficiently& promptly to save the critically ill patient within the golden hour that is most required.

In order to be considered a competent emergency medical resource, he must possess humanistic qualities, attitudes and behaviour necessary for the development of appropriate patient-healthcare professional relationship.

On successful completion of the course the participant will have highly demanding skills and competencies to work in the field of Pre hospital Emergency and Accident and Emergency Departments of Hospitals. The skills acquired during the course equip them to assess and manage medical and trauma emergencies at the pre-hospital and emergency department level. The versatile nature of training also makes a candidate of choice for employment in 'A&E' room of a hospital, EMS systems, and On-site clinics of the factories and off shore installations.

The course lays foundation for diverse kinds of skills and competencies relevant for the specific job-role. The course is designed as per standards set by industry.

This course will also teach him in working in and as a team, handle extremely stressful conditions and sharpen his decision-making capabilities.

The broad objectives of the course would be to create ready-to-be-employed workforce:

- A thorough knowledge of clinical manifestations and principles of management of a large variety of medical and trauma related emergencies.

- Skill and competence to choose for proper management of the patient.
- Skill and competence in emergency interventions like defibrillation.
- Skill and competence to function effectively in varied clinical settings, namely Pre-Hospital, emergency/critical care, ambulatory care settings.
- Skill and competence to take sound decisions regarding hospitalization, or timely referral to other hospitals for various care and recognizing his limitations in knowledge and skills in these areas.
- Proficiency in selecting correct drug combinations for different clinical problems with thorough knowledge of their pharmacological effects, side-effects, interactions with the other drugs when then use it in the pre-hospital settings.
- Skill and competence to work cohesively in Resuscitation team along with Emergency Physicians & the Nursing staff personnel and maintain discipline and healthy interaction with the colleagues.
- Skill and competence to communicate clearly and consciously, and teach other junior EMT's & nurses, the practical clinical skills required for the practice of Emergency medicine.
- Demonstrate setting of an ambulance for dealing with emergency situations
- Practice infection control measures
- Demonstrate professional behaviour, personal qualities and characteristics of an Emergency Personnel
- Demonstrate good communication, communicate accurately and appropriately

Employability/Skill enhancement

Undergoing the trauma care diploma will give the students an upper hand in comparison to others, as they will receive additional specialized training as follows:

- Awareness of entire skill set required in Pre-Hospital Medical and Traumatic Emergencies
- Adaptability to efficiently deliver emergency care, work and operate emergency medical services.
- Special training in handling Airway, Breathing, Circulation and Deformity
- Ability to assist Emergency Physicians effectively in entire spectrum of pre-hospital emergencies and emergency room patient care.
- Understanding of careful handling of medical and traumatic emergencies in adults, children and infants
- Ability to observe and deliver emergency care as per the standard pre-hospital care protocols.
- Ability to administer efficient emergency care on the streets and patients home
- Training in administering lifesaving medication under the guidance of the Emergency physician or Medical Direction of the EMS System
- Ability to work in EMS systems
- Effective handling of Ambulance operations
- Awareness regarding various techniques in managing the Airway, Breathing, Circulation, Defibrillation, Lifts and Carrying the patient, routes of administration of medications, bandaging and splinting and other lifesaving medical and surgical interventions.
- Understanding and active participation in disaster preparedness

Course Structure

Course title	Credit (Total)	Theory	Practical	Duration
P G Diploma	40	40%	60%	960

Theory 1 credit= 15hours

Practical: 1 credit= 30 hours

2.1 Semester wise Distribution of Credits for diploma

Semester	Credit (Total)	Theory	Practical
Semester-1	20	8	12
Semester-2	20	8	12

Syllabus for Post Graduate Diploma in Emergency Medical Services

SEMESTER – I

THEORY

Module And Units	Theory	Content in terms of Key Learning Outcomes*	Theory [hrs]
	Induction & Orientation		1
Module 1: Preparatory	Introduction to Emergency Medical Care	Familiarizes the candidate with the introductory aspects of emergency medical care. Topics covered include the Emergency Medical Services system, roles and responsibilities. Quality improvement and medical direction.	1
Module 1: Preparatory	Biomedical Waste management	Definition, categories, problems relating to biomedical waste and procedure of handling and disposal method of Biomedical Waste Management. It also intends to create awareness amongst the personnel involved in health care unit.	1
Module 1: Preparatory	Medical, Legal & Ethical Issues	Explores the scope of practice, ethical responsibilities, advance directives, consent, refusals, abandonment, negligence, duty to act, confidentiality, and special situations such as organ donors and crime scenes. Medical/legal and ethical issues are vital elements of the daily life.	2
Module 1: Preparatory	Cardio-Vascular System Anatomy & Physiology	Enhances the knowledge of the human body. A brief overview of body systems, anatomy, physiology and topographic anatomy will be given in this session.	8
Module 1: Preparatory	Respiratory System Anatomy and Physiology	Enhances the knowledge of the human body. A brief overview of body systems, anatomy, physiology and topographic anatomy will be given in this session.	8
Module 1: Preparatory	Nervous System Anatomy & Physiology	Enhances the knowledge of the human body. A brief overview of body systems, anatomy, physiology and topographic anatomy will be given in this session.	8

Module 1: Preparatory	Genito-Urinary System Anatomy & Physiology	Enhances the knowledge of the human body. A brief overview of body systems, anatomy, physiology and topographic anatomy will be given in this session.	2
Module 1: Preparatory	Muskuloskeletal Anatomy & Physiology	Enhances the knowledge of the human body. A brief overview of body systems, anatomy, physiology and topographic anatomy will be given in this session.	2
Module 1: Preparatory	General Principles of Pathophysiology ACID-Base Physiology Shock	Integrates comprehensive knowledge of pathophysiology of major human systems.	6
Module 1: Preparatory	Lifting & Moving Patient	Provides students with knowledge of body mechanics, lifting and carrying techniques, principles of moving patients, and an overview of equipment. Practical skills of lifting and moving will also be developed during this lesson.	1
Module 1: Preparatory	General Pharmacology	Provides the student with a basic knowledge of pharmacology, providing a foundation for the administration of medications given by the student and those used to assist a patient with self-administration	20
		Module 1 Total Hours (Theory)	60
		Credits	4

Module 2 Patient Assessment & Trauma	Patient Assessment- Scene Size up	Enhance the student's ability to evaluate a scene for potential hazards, determine by the number of patients if additional help is necessary, and evaluate mechanism of injury or nature of illness	2
Module 2 Patient Assessment & Trauma	Therapeutic Communication	A number of approaches and conversation techniques can help to improve the quality of information you obtain during the patient interview	2
Module 2 Patient Assessment & Trauma	Primary Assessment	Provides the knowledge and skills to properly perform the initial assessment. In this session, the student will learn about forming a general impression, determining responsiveness, assessment of the airway, breathing and circulation. Students will also discuss how to determine priorities of patient care.	2

Module 2 Patient Assessment & Trauma	History Taking	Describes and demonstrates the method of assessing patients' traumatic injuries. A rapid approach to the trauma patient will be the focus of this lesson.	2
Module 2 Patient Assessment & Trauma	Secondary Assessment	Describes and demonstrates the method of assessing patients with medical complaints or signs and symptoms. This lesson will also serve as an introduction to the care of the medical patient.	6
Module 2 Patient Assessment & Trauma	Airway	Teaches airway anatomy and physiology, how to maintain an open airway, pulmonary resuscitation, variations for infants and children and patients with laryngectomies. The use of airways, suction equipment, oxygen equipment and delivery systems, and resuscitation devices will be discussed in this lesson.	18
Module 2 Patient Assessment & Trauma	Trauma Systems and Mechanism of Injury	The science of mechanism of injury, teaches student to understand and antecepate the probalbe injuries and provide focused care to the patient.	2
Module 2 Patient Assessment & Trauma	Trauma Assessment	The concept of patent assessment in tramatic scenaio is different from conventional clinical examination. Students are oriented to the algorithm of trauma assessment.	2
Module 2 Patient Assessment & Trauma	Soft Tissue Trauma	Continues with the information taught in Bleeding and Shock, discussing the anatomy of the skin and the management of soft tissue injuries. Techniques of dressing and bandaging wounds will also be taught in this lesson.	2
Module 2 Patient Assessment & Trauma	Burns	Emergency Medical Care of Thermal burns, Electric burns, Chemical burns, Inhalation burns and Radiation burns	2
Module 2 Patient Assessment & Trauma	Face And Neck Trauma	General emergency care of a patient with a face or neck injury, including the importance of airway mangement.	2

Module 2 Patient Assessment & Trauma	Head & Spine Injury	Reviews the anatomy of the nervous system and the skeletal system. Injuries to the spine and head, including mechanism of injury, signs and symptoms of injury, and assessment. Emergency medical care, including the use of cervical immobilization devices and short and long back boards will also be discussed and demonstrated by the instructor and students. Other topics include helmet removal and infant and child considerations	4
Module 2 Patient Assessment & Trauma	Chest Injuries	Integrates assessment with principles of epidemiology and pathophysiology. To implement a comprehensive treatment/disposition plan for acutely injured victim	2
Module 2 Patient Assessment & Trauma	Abdominal and GU. Trauma	Integrates assessment with principles of epidemiology and pathophysiology. To implement a comprehensive treatment/disposition plan for acutely injured victim	2
Module 2 Patient Assessment & Trauma	Bleeding & Shock	Reviews the cardiovascular system, describes the care of the patient with internal and external bleeding, signs and symptoms of shock (hypoperfusion), and the emergency medical care of shock (hypoperfusion).	2
Module 2 Patient Assessment & Trauma	Orthopaedic/Extremities Trauma	Reviews of the musculoskeletal system before recognition of signs and symptoms of a painful, swollen, deformed extremity and splinting are taught in this section.	2
Module 2 Patient Assessment & Trauma	Environmental Emergencies	Recognition and management of submersion incidents, Temperature related illness, High altitude illness, Bites and envenomation.	3
Module 2 Patient Assessment & Trauma	Obstetrics +Pediatric Emergencies	Pathophysiology, Assessment and Management of trauma in the Pregnant patient and Child	3
		Module 2 Total Hours (Theory)	60
		Credits	4

SEMESTER – II

THEORY

Module And Units	Theory	Content in terms of Key Learning Outcomes*	Theory [hrs]
Module 3: Medical Emergencies	Respiratory Emergencies	Reviews components of the lesson on respiratory anatomy and physiology. It will also provide instruction on assessment of respiratory difficulty and emergency medical care of respiratory problems, and the administration of prescribed inhalers.	4
Module 3: Medical Emergencies	Cardiovascular Emergencies	Reviews of the cardiovascular system, an introduction to the signs and symptoms of cardiovascular disease, administration of a patient's prescribed nitro-glycerine, and use of the automated external defibrillator. Shock	24
Module 3: Medical Emergencies	Neurologic Emergencies	Reviews of the Central Nervous System, an introduction to the signs and symptoms of neurological diseases, assessment and comprehensive treatment/disposition plan for patient with neurological complaints	4
Module 3: Medical Emergencies	Diseases of Eye/Ear/Nose/Throat	Knowledge of pathophysiology, presentation, prognosis and management of common or major diseases of eyes, nose and throat including nose bleed.	4
Module 3: Medical Emergencies	Acute Abdomen	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for patent with Abdominal complaints.	2
Module 3: Medical Emergencies	Genitourinary and Renal Emergencies	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for patent with Genitourinary complaints	4
Module 3: Medical Emergencies	Gynaecologic Emergencies	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition	4

		plan for patent with Gynaecological complaints	
Module 3: Medical Emergencies	Endocrine Emergencies	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for patent with Endocrine Disorders	2
Module 3: Medical Emergencies	Hematologic Emergencies	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for patent with common and major haematological diseases and/or emergencies.	2
Module 3: Medical Emergencies	Immunologic Emergencies	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for patent with Immunological system disorders and/or emergencies. Recognition of Hypersensitivity, Allergic and anaphylactic reactions, Anaphylactoid reactions, Collagen vascular diseases and Transplant related problems	2
Module 3: Medical Emergencies	Infectious Diseases including HIV	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for patent with Infectious diseases. Decontamination of equipment after treating a patient.	2
Module 3: Medical Emergencies	Toxicology	Teaches the student to recognize the signs and symptoms of poisoning and overdose. Information on the administration of activated charcoal is also included in this section.	4
Module 3: Medical Emergencies	Psychiatric Emergencies	Develops the student's awareness of behavioural emergencies and the management of the disturbed patient.	2

		Restraining the combative patient will also be taught in this lesson	
		Module 3 Total Hours (Theory)	60
		Credits	4

Module 4: Operations	Ambulance Operations	Presents an overview of the knowledge needed to function in the prehospital environment. Topics covered include responding to a call, emergency vehicle operations, transferring patients, and the phases of an ambulance call.	2
Module 4: Operations	Mass casualty Management introduction	Provides the student with information on hazardous materials, incident management systems, mass casualty situations, and basic triage.	4
Module 4: Operations	Incident Command System	Table top exercise to reinforce understanding of ICS	4
Module 4: Operations	Communication	Table top exercise to demonstrate skills of crisis communication, phrasing of messages in crisis situations.	4
Module 4: Operations	Triage	Table top exercise to perform Triage on the provided scenarios	4
Module 4: Operations	Mega Code	Case discussions on the clinical scenarios seen in the hospital. Provides opportunity to the student to present the cases encountered in the hospital. The diagnosis and clinical inputs are given by the expert faculty enriching case based learning	22
Module 4: Operations	Paediatric Advance Life Support	Concepts and Protocols of PALS	16
Module 4: Operations	Special Situations	Care of Geriatric and patents with special needs	4
		Module 4 Total Hours (Theory)	60
		Credits	4

Total Theory Hours	240
Total Theory Credit	16.00

PRACTICAL

Module And Units	Practical	Content in terms of Key Learning Outcomes*	Practical [hrs]
Module 1: Preparatory	Nervous System Anatomy & Physiology	Provides in-depth skills of clinical neurological examination	16
Module 1: Preparatory	General Principles of Pathophysiology Acid - Base Physiology Shock	Integrates comprehensive knowledge of pathophysiology of major human systems. Clinical skills to identify patient in shock and its interventions. Analyse Arterial Blood Gas reports.	16
Module 1: Preparatory	Lifting & Moving Patient	Provides students with knowledge of body mechanics, lifting and carrying techniques, principles of moving patients, and an overview of equipment. Practical skills of lifting and moving will also be developed during this lesson.	16
Module 1: Preparatory	General Pharmacology	Provides the student with a basic knowledge of pharmacology, identification of various medications, its indications and contraindications, providing a foundation for the administration of medications, skills of administrating medications by various routes.	42
		Module 1 Total Hours (Practical)	90
		Credits	3

Module 2 Patient Assessment & Trauma	Patient Assessment- Scene Size up	Enhance the student's ability to evaluate a scene for potential hazards, determine by the number of patients if additional help is necessary, and evaluate by applying the knowledge during the scenario based skills and case	12

		discussions. mechanism of injury or nature of illness	
Module 2 Patient Assessment & Trauma	Therapeutic Communication	A number of approaches and conversation techniques can help to improve the quality of information you obtain during the patient interview using scenario based learnings	12
Module 2 Patient Assessment & Trauma	Primary Assessment	Provides the skills to properly perform the initial assessment. In this session, the student will learn about forming a general impression, determining responsiveness, assessment of the airway, breathing and circulation. Students will also discuss how to determine priorities of patient care	24
Module 2 Patient Assessment & Trauma	History Taking	Demonstrates the method of assessing patients' traumatic injuries. A rapid approach to the trauma patient will be the focus of this lesson.	12
Module 2 Patient Assessment & Trauma	Secondary Assessment	Demonstrates the method of assessing patients with medical complaints or signs and symptoms. This lesson will also serve as an introduction to the care of the medical patient.	16
Module 2 Patient Assessment & Trauma	Airway	Teaches skills to maintain an open airway, pulmonary resuscitation, variations for infants and children and patients with laryngectomies. The use of airways, suction equipment, oxygen equipment and delivery systems, and resuscitation devices will be demonstrated and practised.	80
Module 2 Patient Assessment & Trauma	Airway - Transport Ventilators	Concepts of transport ventilators and non-invasive ventilators	10
Module 2 Patient Assessment & Trauma	Trauma Assessment	Demonstrate skills of conducting Rapid Trauma Survey as per its protocol.	40

Module 2 Patient Assessment & Trauma	Soft Tissue Trauma	Continues with the information taught in Bleeding and Shock, discussing the anatomy of the skin and the management of soft tissue injuries. Techniques of dressing and bandaging wounds will also be taught in this lesson	16
Module 2 Patient Assessment & Trauma	Chest Injuries	Integrates assessment with principles of epidemiology and pathophysiology. Demonstrate various skills to identify and carry out interventions on chest injuries and use of prescribed devices. To implement a comprehensive treatment/disposition plan for acute chest injury victim	16
Module 2 Patient Assessment & Trauma	Orthopaedic/Extremities Trauma	Reviews of the musculoskeletal system before recognition of signs and symptoms of a painful, swollen, deformed extremity and splinting are taught in this section.	16
Module 2 Patient Assessment & Trauma	Log Roll/ Helmet Removal		16
		Module 2 Total Hours (Practical)	270
		Credits	9.00

SEMESTER – II

PRACTICAL

Module And Units	Practical	Content in terms of Key Learning Outcomes*	Practical [hrs]
Module 3: Medical Emergencies	Cardiovascular Emergencies	Demonstrate different ECG rhythms, identification and its management. Demonstrate skills of use of defibrillator for defibrillation and Cardio-version. Case scenario based learning of all the BLS and ACLS protocols.	60

Module 3: Medical Emergencies	Neurologic Emergencies	Demonstration of clinical neurological assessment, clinical examination and comprehensive treatment/disposition plan for patient with neurological complaints based on scenarios.	10
Module 3: Medical Emergencies	Genitourinary and Renal Emergencies	Demonstrate and practise skills of Genito-urinary clinical examination and perform catheter insterion on manikin.	20
		Module 3 Total Hours (Practical)	90
		Credits	3.00

Module 4: Operations	Mass casualty Management introduction	Scenario based learning on hazardous materials, incident management systems, mass casualty situations, and basic triage.	6
Module 4: Operations	Incident Command System	Table top exercise to reinforce understanding of ICS	6
Module 4: Operations	Communication	Table top exercise to demonstrate skills of crisis communication, phrasing of messages in crisis situations.	4
Module 4: Operations	Triage	Table top exercise to perform Triage on the provided scenarios	4
Module 4: Operations	Paediatric Advance Life Support	PALS Skills	12
Module 4: Operations	Mega Code	Scenario based learning of higher level of difficulty covering entire protocols and case study involving multiple protocols	28
		Module 4 Total Hours Practical)	60
		Credits	2

Total Practical Hours	510
Total Practical Credit	17.0

Module 5 Hospital Rotations	
Hospital OJT	Hours
Emergency Department	70
Intensive Care Unit	70
Operating Rooms	70
Total Hours	210
Credits	7

Total Theory Hours	240
Total Practical Hours	510
Total OJT Hours	210
Grand Total (Theory+Practicals)	960

CREDITS	
Theory	16
Practical's (Skill Labs)	17
Practical's (Hospital Rotations)	7
Total Credits	40

Learning Objectives:

Method of Teaching:

A combination of vocational theory inputs along with relevant practical exposure that would commensurate with the guidelines provided for, in the Facilitator's guide. Lectures supported by appropriate audiovisuals and videos. Skills to be conducted in simulated environment on manikins and usage of medical equipments. In the hospital bedside observation and learning of patient handling techniques and managing emergencies.

Method of Assessment & Weightage:

Examination and Assessment

INTERNAL ASSESSMENT

- Modular tests will be conducted at the end of each module. It will be a MCQ type test carrying 25 marks each. The weightage of marks will be according to the content and hours of training and importance of the topics.

- There will be two modular tests of written internal assessment examinations that shall be conducted in each module during a semester and the average marks of these two modules examination papers shall be taken into consideration for the award of internal marks in the final mark sheet.
- Proficiency to be achieved in modular test is 75%.
- A candidate fails to achieve prescribed proficiency in any modular examination then he/she be provided an opportunity to improve his/her internal marks by conducting an examinations in theory.
- If a failed candidate does not appear for such "Improvement Examinations" for internal marks in the failed subject(s), the internal marks already secured by him/her shall be carried over for his subsequent appearance(s).
- The internal mark list shall be submitted to the University by the Principal/ Head of Institution 15 days prior to the commencement of the University examinations.

SUBMISSION OF PRACTICAL WORK BOOK

At the time of practical examination, each candidate shall submit to the examiners the practical workbook duly certified by the Head of the Department of the SKP as a bonafide record of work done by the candidate.

Semester Exam

The assessment of students would be done in MCQ based written examination, oral and practical examination.

Written– 40%

Practical examination + Oral – 60%

There will be 2 Papers covering two modules covered in the semester, Multiple Choice Questions papers of 75 marks each for each module, per Semester. Weightage of marks for each core topic will be given in proportion to the content and hours of the training for that topic. A question bank will be formed that will have sufficient amount of questions to be selected from by the examination department/paper setters.

Addition of 25 marks from Internal assessments of modular test will be added to the final exam marks of each module.

The total of 100 marks theory per module (75 Final + 25 Internal) (4 Credits)

The total of Theory marks each Semester will be 200 marks (8 Credits)

Practical & Oral Examination

The Practical examination will be 300 marks per semester conducted through 5 stations Objective Structured Clinical Examinations (OSCE) with 60 marks allotted to each station with marking on the designed skill testing sheets each Semester.

Sample Skills evaluation sheet is attached.

Semester I

Theory

No. of papers: 2 (8 credits)

Marks per paper: 100 (75+25)

Practical and Orals

Objective Structured Clinical Examinations (OSCE): 300 marks (12 credits)

Stations/ Tables: 5

Marks per Station/Table: 60 marks

Testing at each Station:

- Basic Life Support
- Airway – Non-Invasive
- Airway- Invasive
- Trauma Assessment – Scenario
- Pharmacology- Principles of Pharmacology & Medication Administration

Semester II

Theory

- No. Of papers: 2 (8 credits)
- Marks per paper: 100 (75+25)
- Stations/ Tables: 5
- Marks per Station/Table: 60 marks

Testing at each Station:

- Mega code Testing
- Medical Case Assessment
- ECG and Arrhythmia recognition
- PALS Case Scenarios
- Pharmacology- Emergency Medications

Practical and Orals

Objective Structured Clinical Examinations (OSCE): 300 marks (12 credits)

Total Marks

- Theory: 400 (16 credits)
- Practical & Orals: 600 (24 credits)

MARKS QUALIFYING FOR A PASS

A candidate shall be declared to have passed the examination if he/she obtains the following

Minimum qualifying marks: -

(a) 75 % of marks in the University theory examinations.

(b) A candidate shall secure 75% of marks in the aggregate, in university theory, practical, oral examinations and internal assessment taken together in the University Examination of First and Second semesters.

(c) In respect of internal assessment prescribed for the course, a minimum of 75% marks is required for a pass.

CARRY-OVER OF FAILED SUBJECTS

Carrying over of any of the failed subject(s) pertaining to the first semester to the second semester will be permitted.

REVIEW OF ANSWER PAPERS OF FAILED CANDIDATES

Re-totaling / re-valuation of answer papers will be as per the regulations prescribed from time to time by the University.

Assessment Weightage:

- Written + Oral – 40%
- Practical examination – 60%

Passing Proficiency

- Theory MCQ based: 75%
- Practical Examination: 75%

Reading Lists & References: -suggested and essential readings

Books	Authors
Emergency Care in the Streets, Seventh Edition, publised by Jone & Bartlett	Nancy Caroline's
Paramedic Textbook, 4th edition	Kim D. McKenna
AHA BLS Provider Manual 2015	
ACLS Provider Manual 2015	
PALS Provider Manual 2015	
International Trauma Life Support for Emergency Care Provider Eight edition	
Paramedic Care: Principles & Practice, Volume 7: Operations, 4th Edition, Bledsoe	Porter & Cherry