

**Krishna Vishwa Vidyapeeth (Deemed to be University)**

**Krishna Institute of Nursing Sciences, Karad**



**Syllabus**

**Postgraduate Diploma in  
Quick Response Nurses Team**

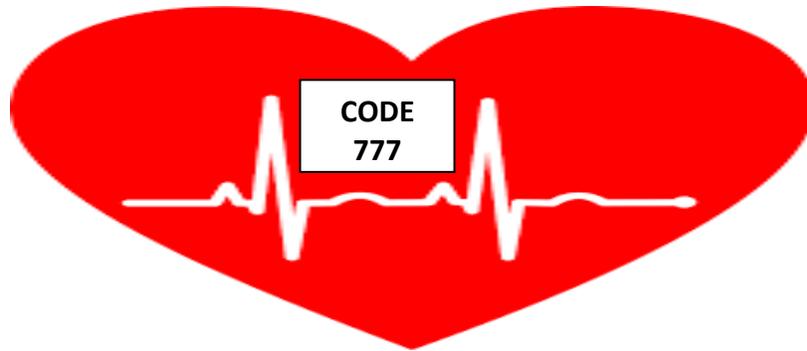
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**Program code: 4505**

**Course code: 4505-11**

**Krishna Vishwa Vidyapeeth (Deemed to be University)**

**Krishna Institute of Nursing Sciences, Karad**



**POST GRADUATE DEPLOMA**

**IN**

**QUICK RESPONSE NURSES TEAM**



Disaster Nursing



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### INTRODUCTION

The increasingly common use of quick response nurses team(QRNT) or rapid response teams (RRT) in hospitals is simultaneously saving patients' lives and boosting the nursing profession. Too often, nurses have a gut feeling that something is not quite right with a patient,

but unless the patient displays definitive signs of distress or goes into cardiac arrest, the nurse has little recourse. Rapid response teams can change that dynamic, by honoring those instincts and gut feelings and giving nurses a way to get help. In hospitals that have QRNT, any healthcare worker can bypass the typical chain of command and call for an intervention, without waiting for physician's orders.

In recent years, the care of people with acute healthcare problems has made enormous progress throughout globe and India. To bring existing evidence-based and best practice knowledge to all professional nurses is a key objective of KIMS Deemed To Be University For this reason KIMS deemed To Be University has developed one year diploma in quick response nurses team.

## **PHILOSOPHY**

Krishna Vishwa Vidyapeeth (Deemed to be University) believes that registered nurses need to be trained quick response and management in emergency clinical setting as well as in community independently. In order to provide independent competent care and for effective participation in patients comprehensive management trained nurses need to prepare them for work in quick response nursing team for managing emergency conditions.

## **SCOPE, AIMS AND OBJECTIVES OF THE CURRICULUM**

Quick Response Nursing Team are integrated part of the broader community Home Health team and as such is supported by an inter-professional team. In collaboration with community programs, client, and families and with each client's primary care provider, the QRNT provides emergency care in hospital and field setting. This role is key to maintaining individual's health by providing acute care visits and supporting safe discharges. QRNT will assist with acute care flow while also assisting in reducing long length of stay (LLOS) by supporting individuals.

QRNT Responsible and accountable for the comprehensive assessment of patients and clients including diagnosing diseases, disorders and conditions. Initiates treatment including health care management, therapeutic interventions and prescribes medications in accordance with the statutory and regulatory standards, limits and conditions, and employer policies and procedures. Provides professional guidance to other health professionals and participates autonomously as a member of the interdisciplinary health teams.

Collaborates with clients and other health professionals to identify and assess trends and patterns that have implications for clients, families and communities; develops and implements population and evidence-based strategies to improve health and participate in policy-making and

quality improvement activities that influence health services and practices. Participates in peer, program and self-review to evaluate the outcome of the services at the client, community and population level. Is responsible for own professional development and maintaining competence in the position, and maintaining privileges as active medical staff as required.

**Aim:**

To evaluate the impact of quick response nurses team implementation on patient outcome during emergencies situations.

**Objectives:**

1. Apply knowledge in providing quick emergency management care to individuals in community as well as who are admitted in hospital.
2. Demonstrate skill in managing acute emergency conditions of individuals who are admitted in hospital or having health problems in community area.
3. Provide nursing care based on steps of nursing process in collaboration with the individuals
5. Utilize the latest trends and technology in quick management of emergency health situations .
6. Provide promotive, preventive and restorative health services in line with the national health policies and programs.
7. Practice within the framework of code of ethics and professional conduct and acceptable standards of practice within the legal boundaries.
8. Communicate effectively with individuals and groups and members of the health team in order to promote effective interpersonal relationships and teamwork.
9. Demonstrate skills in teaching to individuals and groups in clinical/ community health settings.
10. Participate effectively as members of the health team in health care delivery system.
11. Demonstrate leadership and managerial skills in clinical / community health settings.
12. Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
13. To save patient lives & eventually improve quality of hospital care & improve patient safety
14. Increase early intervention & stabilization to prevent clinical deterioration on any individual prior to the event of cardiopulmonary arrest or other life threatening health event
15. Decrease the number of cardiopulmonary arrests that occur outside the ICU & ER department

16. Increase patient, family & staff satisfaction

17. Decrease mortality rate

**ELIGIBILITY:**

1. The minimum age for admission shall be 20 years on or before 31st Dec. of the year of admission
2. The minimum educational requirements shall be the passing of BScN/Post Basic BSc and registered with state nursing council
3. Should have at least 6 month clinical experience preferably in surgical areas after passing degree/ diploma course

**ENTRANCE / SELECTION TEST**

Selection of the candidates should be based on the merit of the entrance examination held by University or competent authority.

**ORGANIZATION OF COURSE**

Course duration: One year

Intake Capacity: 5

	Area	Hours	Credit Points 26
Core	Core Syllabus Theory	75	5
	Core Syllabus Practical	10	5
	Core Clinical Hours	365	12
Elective	Subject Elective Specific		
	Theory	15	1
	Clinical	60	2
	Subject Specific Generic		
	Theory	15	1
	Clinical		
Total		540 Hours	26

## SEMESTER I

Unit	Title	Hours	Credits
<b>Theory</b>			
<b>I</b>	Review of Anatomy and Physiology	7	1
<b>II</b>	Basics of emergency care and life support skills	8	
<b>III</b>	First Aid Nursing Management During Emergency	15	1
<b>IV</b>	Disaster Nursing Management	15	1
<b>V</b>	Nursing Management OF Emergency Conditions	15	1
<b>VI</b>	Emergency Pharmacotherapy	5	1
<b>VIII</b>	Introduction to ambulance nursing	10	
<b>Practical's</b>			
<b>I</b>	Lab Demonstration	10	5
<b>Clinical's</b>			
<b>I</b>	Clinical Posting	365	12
<b>Subject Specific Elective(Theory) (Select any One)</b>			
<b>I</b>	Professionalism	15	1
<b>II</b>	Human Value	15	
<b>Subject Specific Elective(Clinical) (Select any One)</b>			
<b>I</b>	Clinical Posting	60	2
<b>Subject Specific Generic (Theory) (Select any One)</b>			
<b>I</b>	Yoga & Meditation	15	1
<b>II</b>	Stress Management	15	
Total		540	26

## SEMESTER II

Unit	Title	Hours	Credits
<b>Theory</b>			
<b>I</b>	Operation theatre Skills	15	1
<b>II</b>	Nursing management of home emergency	15	1
<b>III</b>	Types of psychiatric emergencies and their management	7	1
<b>IV</b>	Emergency Social Psychology	8	
<b>V</b>	Nursing Management Of Patient With High Altitude Disorders/Mountain Sickness	7	1
<b>VI</b>	Nursing Management Of Patient With Medical Emergency At Bus, Railway, Plane	8	
<b>VIII</b>	Protection Of Healthcare Workers Against Violence	15	1
<b>Practical's</b>			
<b>I</b>	Lab Demonstration	10	5
<b>Clinical's</b>			
<b>I</b>	Clinical Posting	365	12
<b>Subject Specific Elective(Theory) (Select any One)</b>			
<b>I</b>	Bioethics	15	1
<b>II</b>	Health Economics	15	
<b>Subject Specific Elective(Clinical) (Select any One)</b>			
<b>I</b>	Clinical Posting	60	2
<b>Subject Specific Generic (Theory) (Select any One)</b>			
<b>I</b>	Soft Skill Development	15	1
<b>II</b>	Time management	15	
Total		540	26

**EQUIPMENT LIST:**

1. BP apparatus (Manual) (5)	30. Simple face mask(Paed) (2)
2. BP apparatus (Automatic) (5)	31. Non-rebreather Face Mask (2)
3. Pulsoximeter (5)	32. Partial rebreather face Mask (2)
4. Thermometer (5)	33. Reservoir bag (2)
5. Stethoscope (5)	34. Nebulization Mask (Adult) (2)
6. Torch (5)	35. Laryngeal Mask Airway (4)
7. Glucometer (2)	36. Oxygen Cylinder B Type
8. Spine Board with Straps (4)	37. Oxygen Cylinder D Type
9. Head Motion Immobilizer (HMR) (4)	38. Flow meter (2)
10. Cervical Collar Large (4)	39. Humidifier (2)
11. Cervical Collar Medium (4)	40. Regulator
12. Cervical Collar Small (4)	41. Nebulizer
13. Stair Chair	42. Suction machine (Automatic)
14. Wheel Chair	43. Suction pump (Manual)
15. Scoop Streture (2)	44. Suction Catheter hard tip (2)
16. Helmet (2)	45. Suction Catheter soft tip All Size (2)
17. CPR Manikin Adult (10)	46. Laryngoscope with Blades* (2)
18. CPR Manikin Infant (10)	47. Endotracheal Tube* All Size (2)
19. Pocket Mask Adult (10)	48. IV Cannula 16,18,20,22,24 (2 each)
20. Adult Ambu Bag with Mask (10)	49. Macro drip IV set (2)
21. Infant Ambu Bag with Mask (10)	50. Microdrip IV Set (2)
22. Automated External Defibrillator (AED) 2	51. IV Fluid NS,RL,D25%, (2 each )
23. AHA BLS DVD	52. Syringes 5ml,10ml,50ml (2 each )
24. Adult Airway manikin	53. Malleable Splints (2 Sets)
25. Oropharyngeal Airways 00,0,1,2,3,4 <b>2 Set</b>	54. Bandages 6cm,10cm,15cm. (2 Sets)
26. Nasopharyngeal airways (2 Sets)	55. Crepe Bandages 6cm,10cm,15cm (2 Sets)
27. Nasal Cannula (Adult) (2)	56. Inhalers (2)
28. Nasal Cannula (Paed) (2)	57. Collapsible Trolley Stretcher
29. Simple face mask (Adult) (2)	58. Fully Equipped Ambulance

## QUICK RESPONSE NURSES TEAM

**Theory hours -150**

**Clinical Posting -730**

**Supervised practice hours -20**

**Total Hours - 900**

### SEMESTER I (THEORY)

Unit	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	Describe structure and function of whole body.	<b>Review of Anatomy and Physiology</b> -Cell And Cell Division -Musculoskeletal System -Respiratory System -Cardiovascular System -Neurological System -GIT System -Genitourinary System -Endocrine System -Sensory Organs	-Lecture cum discussions	-Short answer -Objective type -Essay type
II	Describe the importance, principle of first aid and first aid in common emergencies	<b>First Aid Nursing Management During Emergency</b> <b>Introduction</b> a) Definition, Aims and Importance of firstaid b) Rules/ General principles of FirstAid c) Concept of emergency <b>First Aid For Common Emergencies</b> a) Asphyxia, drowning, shock b) Wounds and Bleeding c) Injuries to the Bones, Joints and Muscle - fractures, sprains, strains, hanging, falls d) Burns and scalds e) Poisoning – ingestion, inhalation, bites and stings f) Foreign body in eye, ear, nose and throat.	-Lecture cum discussions -Videos -Demonstration	Short answer Objective type
III	Describe nursing management of various	<b>Disaster Nursing Management</b> a) Natural disaster - Fire - Explosion,	-Lecture cum discussions. -Videos	-Short answer -Objective

	disaster	<ul style="list-style-type: none"> <li>- Floods</li> <li>- Earth-Quakes,</li> <li>- Famines,</li> <li>- Volcanic Eruptions</li> <li>- Epidemics,</li> <li>- Cyclones etc</li> </ul> <p>b) Man-made disaster</p> <ul style="list-style-type: none"> <li>-Explosion</li> <li>-War</li> <li>-Fire</li> <li>-Terrorism</li> <li>-Bio-chemical war</li> </ul> <p>c) Accidents Emergency preparedness</p> <p>d) Role of nurses in disaster management</p> <p>e) Triage</p> <p>f) Rehabilitation</p> <p>g) Community Resources</p> <ul style="list-style-type: none"> <li>-Police,</li> <li>-Ambulance services</li> <li>-Voluntary agencies-local, state national and international</li> </ul>	<ul style="list-style-type: none"> <li>- Mock drill</li> <li>- Simulation exercise</li> <li>- Field visit to voluntary agencies.</li> <li>-Videos</li> </ul>	<p>type</p> <ul style="list-style-type: none"> <li>-Essay type</li> </ul>
IV	Describe nursing management of various Medical & Surgical emergency conditions.	<p><b>Nursing Management OF Emergency Conditions</b></p> <p>a) Scope and practice of emergency nursing</p> <ul style="list-style-type: none"> <li>-Principles of emergency care</li> </ul> <p><b>b) Medical Surgical Emergencies</b></p> <ul style="list-style-type: none"> <li>-Airway obstruction</li> <li>- Hemorrhage</li> <li>- Shock, Anaphylactic reaction,Allergies</li> <li>- Trauma – intra abdominal, crushinjuries, multiple injures fractures, acid attacks, Road traffic accidents</li> <li>- Poisoning-Ingested poisoning, Inhaled poisoning, Foodpoisoning, Injected poisons</li> <li>- Stinging insects</li> <li>- Snake bites Chemical burns</li> <li>- Environmental emergencies- Heatstroke, Frostbite, Neardrowning</li> <li>- Hanging</li> <li>- Cardiac Emergencies</li> <li>- Pain</li> <li>- Seizures</li> </ul>	<ul style="list-style-type: none"> <li>-Lecture cum discussions.</li> <li>-Videos</li> <li>- Mock drill</li> <li>- Simulation exercise</li> <li>- Field visit to voluntary agencies.</li> <li>-Videos</li> </ul>	<ul style="list-style-type: none"> <li>-Short answer</li> <li>-Objective type</li> <li>-Essay type</li> </ul>

		<ul style="list-style-type: none"> <li>- Pediatric Emergencies</li> <li>- Psychiatric Emergencies</li> <li>- Obstetrical Emergences</li> <li>- Violence, Abuse, Sexual assault</li> <li>- Cardio pulmonary Resuscitation</li> <li>- Crisis Intervention</li> <li>- Role of the nurse;</li> <li>- Communication And inter personal Relation</li> </ul>		
V	Describe drugs used for emergency conditions.	<b>Emergency Pharmacotherapy</b> <ul style="list-style-type: none"> <li>- Pediatric Emergencies</li> <li>- Psychiatric Emergencies</li> <li>- Obstetrical Emergences</li> <li>- Cardiac Emergences</li> <li>- Respiratory Emergences</li> <li>- Neurological Emergences</li> <li>- Renal and genitourinary</li> <li>- GIT</li> <li>- Orthopedic Emergency</li> <li>- Other treatment modalities of management of emergency</li> </ul>	<ul style="list-style-type: none"> <li>-Lecture cum discussions.</li> <li>- Drug Presentations</li> </ul>	<ul style="list-style-type: none"> <li>-Short answer</li> <li>-Objective type</li> <li>-Essay type</li> </ul>
VI	Describe ambulance nursing.	<b>Introduction to ambulance nursing</b> <ul style="list-style-type: none"> <li>- a. Duties and responsibilities of an ambulance nurse</li> <li>- b. Advance practices in ambulance nursing</li> </ul>	<ul style="list-style-type: none"> <li>-Lecture cum discussions.</li> <li>- Demonstration / simulation</li> </ul>	<ul style="list-style-type: none"> <li>-Short answer</li> <li>-Objective type</li> </ul>
VII	Describe professional lisum and values.	<b>Professionalism and Values</b> <ol style="list-style-type: none"> <li>a. Code of conduct, professional accountability and responsibility, misconduct</li> <li>b. Leadership and decision making</li> <li>c. Ethics in healthcare – Privacy, confidentiality, consent, medico legal aspects</li> <li>d. Understanding scope of work and avoiding scope creep</li> <li>e. Handling objections</li> <li>f. Gather information from observation, experience and reasoning</li> <li>g. Identification of rapidly changing situations and adapt accordingly</li> <li>h. Planning and organization of work</li> </ol>	<ul style="list-style-type: none"> <li>-Lecture cum discussions.</li> </ul>	<ul style="list-style-type: none"> <li>Short answer</li> <li>-Objective type</li> <li>-Essay type</li> </ul>

**Subject Specific Elective (Theory)**  
**(Select any One)**

1. Professionalism
2. Human Value

**Subject Specific Generic (Theory)**  
**(Select any One)**

1. Yoga & Meditation
2. Stress Management

## SEMESTER II (THEORY)

Unit	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VIII	Describe Basics of emergency care and life support skills.	<b>Basics of emergency care and life support skills</b> a. Vital signs and primary assessment b. Basic emergency care – first aid and triage c. Drug tray and use of drugs: complications and their management d. Identifying signs and taking measures for management of i. Choking and Heimlich Maneuver ii. Bleeding including nosebleeds iii. Minor burns iv. Hypothermia v. Asthma attack vi. Bites and stings vii. Fainting viii. Sprain e. Ventilations including use of bag-valve-masks (BVMs) f. Choking, rescue breathing methods g. One- and Two-rescuer CPR h. Using an AED (Automated external defibrillator). i. Managing an emergency including moving a patient	-Lecture cum discussions. - Demonstration	Short answer -Objective type -Essay type
IX	Demonstrate skill in theatre techniques	<b>Operation theatre Skills:</b> a) Theatre Technique - Scrubbing - Hand washing - Gowning – Gloving - Positioning of patient for various surgical procedures. - Draping of patient. b) Preparation of theatre, equipment and supplies - Cleaning - Needles, sutures types and their uses..	-Lecture cum discussion -Explain about the instruments -Demonstration CSSD	-Short answer -Objective type -Essay type -Return demonstration

		- Packing and sterilization of dressings, linen rubber ware suture material, instruments, needles and other materials.		
X	Describe nursing management of home emergency.	<b>Nursing management of home emergency</b> Fever (adults) (children) Excessive sweating Lumps and swellings Feeling faint Headache Vertigo Numbness and/or tingling Facial pain Difficulty speaking Forgetfulness or confusion General skin problems, Rash with fever Eye pain or irritation Earache Sore throat Coughing (adults) (children) Breathing problems (adults) (children) Vomiting (adults) (children) Abdominal pain (adults) (women) (children) Diarrhea(adults)(children) Constipation Chest pain&Palpitations Poor bladder control Painful urination Back pain Neck pain or stiffness Arm or hand pain Leg pain Joint pain Swollen ankles Erectile dysfunction Testes and scrotum problems Penis problems Breast problems Menstrual related problems Genital irritation (women).	-Lecture cum discussion	-Short answer -Objective type -Essay type - Community health education
XII	Identify psychiatric emergencies and carry out crisis intervention	<b>Types of psychiatric emergencies and their management</b> • Stress adaptation Model: stress and stressor, coping, resources and mechanism • Grief : Theories of grieving process, principles, techniques of counseling	-Lecture discussion -Demonstration -Practice session -Clinical practice	-Short answer -Objective type -Essay type

		<ul style="list-style-type: none"> <li>• Types of crisis</li> <li>• <b>Crisis Intervention:</b> Principles, Techniques and Process</li> <li>• Geriatric considerations Role and responsibilities of nurse Practice</li> </ul>		
XIII	Describe Emergency Psychology	<b>Emergency Social Psychology</b> Motives for Prosocial Behavior – Responding To Emergency – Bystanders External and Internal Influences on Helping Behavior -Long Term Commitment to Prosocial Acts Social Cognition – Schema – Heuristics – Automatic and Controlled Processing – Errors in Social Cognition – Effect and Cognition Social Perception – Non Verbal Communication – Attribution – Impression Formation and Impression& Management	-Lecture discussion	-Short answer -Objective type -Essay type
XIV	Describe management of mountain sickness	<b>Nursing Management Of Patient With High Altitude Disorders/Mountain Sickness</b> -Brain (causing acute mountain sickness and rarely high-altitude cerebral edema) -Lungs (causing high-altitude pulmonary edema) -Previous altitude disease -Living at sea level or very low altitude (below 3,000 feet [900 meters]) -Going too high too fast -Overexertion -Sleeping at too high an altitude	-Lecture discussion	-Short answer -Objective type
XV	Describe Nursing Management Of Patient With Medical Emergency At Bus, Railway,	<b>Nursing Management Of Patient With Medical Emergency At Bus, Railway, Plane</b>	-Lecture discussion	-Short answer -Objective type -Essay type

	Plane			
XV	Describe Protection Of Healthcare Workers Against Violence, Prevention of Violence and Damage or Loss of Property ACT 2017 and activation of CODE 777	<b>Protection of Healthcare Workers Against Violence:</b> <b>1 Background, scope and</b> 1.1 – Extent of workplace violence 1.2 – Scope 1.3 – Definition <b>2 — GENERAL RIGHTS AND RESPONSIBILITIES</b> 2.1 – Governments 2.2 – Employers 2.3 – Workers 2.4 – Professional bodies 2.5 – Enlarged community <b>3 — APPROACH</b> 3.1 – Preventive 3.2 – Participative 3.3 – Culture/gender-sensitive and non-discriminatory 3.4 – Systematic <b>4 — VIOLENCE RECOGNITION</b> 4.1 – Organizations at risk 4.2 – Potential perpetrators 4.3 – Potential victim <b>5 — VIOLENCE ASSESSMENT</b> 5.1 – Analyzing available information 5.2 – Identifying situations at special risk <b>6 — WORKPLACE INTERVENTIONS</b> 6.1 – Pre-conditions 6.2 – Organizational interventions 6.3 – Environmental interventions 6.4 – Individual-focused interventions 6.5 – After-the-event interventions <b>7 — EVALUATION.</b> <b>8 - Protection of Medical Service Persons and Medical Service Institutions (Prevention of Violence and Damage or Loss of Property) Act, 2017.</b> <b>9 - Protocol of Activation of code 777</b> <b>10 – Activation of emergency codes</b> <b>11 - Self Defense Education</b> -Karate	-Lecture And Discussion -Simulation -Mock drills	-Short answer -Objective type -Essay type

**Subject Specific Elective (Theory)**  
**(Select any One)**

1. Bioethics
2. Health Economics

**Subject Specific Generic (Theory)**  
**(Select any One)**

1. Soft Skill Development
2. Time management

## PRACTICAL:

## Clinical Posting -730

Area	Objectives	Skill	Assignment	Assessment
Casualty	Achieve skills in first aid techniques	<p><b>Procedures and Techniques in First Aid</b></p> <ul style="list-style-type: none"> <li>-Preparation of First Aid kit.</li> <li>-Dressing, bandaging and splinting(spiral, reverse spiral, figure of 8 spica, shoulder, hip, ankle, thumb, finger, stump, single and double eye, single and double ear, breast, jaw, capelin), triangle bandage uses, abdominal binder and bandage, breast binder, T and many tail bandage, knots reef, clove.</li> <li>-Transportation of the injured</li> <li>-CPR : Mouth to mouth, Sylvester, Schafer, External cardiac massage</li> <li>-Suturing</li> </ul>	Demonstrate procedures	Assess Performance with rating scale. And Remonstrations
Casualty ICU/ Surgical ICU/ Neurological ICU/ Pediatric ICU/ Neonatal ICU/ Critical Care	Provide care to patients in emergency and disaster situation. Counsel patient and relatives for grief and	<ul style="list-style-type: none"> <li>-Practice 'triage'.</li> <li>-Assist with assessment, examination, investigation &amp; their interpretation, in emergency and disaster situations.</li> </ul>	Practice 'triage'.	Assess Performance with rating scale.

ICU/ Trauma Center/ Hinduja Hospital	bereavement	<ul style="list-style-type: none"> <li>-Provide first aid</li> <li>-ACLS /BLS</li> <li>-Assist in legal documentations and procedures in emergency unit.</li> <li>-Counsel patient and families grief and bereavement.</li> <li>-Activation of Code 777</li> </ul>		
Operation Theater		<ul style="list-style-type: none"> <li>-Perform scrubbing, gowning, gloving</li> <li>-Identify instruments, suturing materials for common operations.</li> <li>-</li> <li>- Prepare the OT table depending upon the operation -</li> <li>- Positioning and monitoring of patient</li> <li>- Assisting with minor &amp; major operations</li> <li>- Handling specimens</li> <li>- Segregation and disposal of biomedical waste as per guideline</li> <li>-Following universal precaution</li> </ul>	Practicing and demonstration of OT procedures	Assist various surgeries

Internal assessment examination will be converted to out of 25 marks theory and 25 marks practical and will be added in End semester examination.

End semester examination:

Question Paper Pattern:

**Theory: 75 Marks**

Answer all the questions.

- I. Multiple Choice Question (MCQ) =  $15 \times 1 = 15$
- II. Essay question:  $20 \times 1 = 20$
- III. Long Answers (Answer 2 out of 3) =  $2 \times 10 = 20$
- IV. Short Answers (Answers 4 out of 6) =  $4 \times 5 = 20$

Total = 70 Marks

**Practical:**

Oral Examination: 25 Marks

Practical Examination 50 Marks

Total Marks: 75.

Total exam marks for end semester are 100 marks theory and 100 marks practical.

### **1. Promotion and award of grades**

A student shall be declared PASS and eligible for getting he/she secures at least 50% marks in that particular course including internal assessment..

### **2. Carry forward of marks**

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified ,then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

### **3. Improvement of internal assessment**

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

#### **Grading of performances**

##### **Letter grades and grade points allocations:**

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in table I

**Table –I Letter grades and grade points equivalent to Percentage of marks and performances**

<b>Percentage of Marks Obtained</b>	<b>Letter Grade</b>	<b>Grade Point</b>	<b>Performance</b>
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

**The Semester grade point average (SGPA)**

The performance of a student in a semester is indicated by a number called ‘Semester Grade Point Average’ (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student’s grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students’ SGPA is equal to:

**SGPA =**

$$\frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5 + C_6G_6 + C_7G_7 + C_8G_8 + C_9G_9 + C_6G_6 + C_7G_7 + C_8G_8 + C_9G_9}{C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8 + C_9 + C_{10} + C_{11} + C_{12} + C_{13}}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester. For example if a learner has a F or ABS grade in course 4, the SGPA shall then be computed as:

**SGPA =**

$$\frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4*Zero + C_5G_5 + C_6G_6 + C_7G_7 + C_8G_8 + C_9G_9 + C_6G_6 + C_7G_7 + C_8G_8 + C_9G_9}{C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8 + C_9 + C_{10} + C_{11} + C_{12} + C_{13}}$$

## **Cumulative Grade Point Average (CGPA)**

The CGPA is calculated with the SGPA of all the II semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all II semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

**CGPA =**

$$C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4 + C_5S_5 + C_6S_6 + C_7S_7 + C_8S_8 + C_9S_9 + C_{10}S_{10} + C_{11}S_{11} + C_{12}S_{12} + C_{13}S_{13}$$

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$$C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8 + C_9 + C_{10} + C_{11} + C_{12} + C_{13}$$

where  $C_1, C_2, C_3, \dots$  is the total number of credits for semester I, II, and  $S_1, S_2, \dots$  is the SGPA of semester I, II,

## **Declaration of class**

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction= CGPA of 7.50 and above

First Class= CGPA of 6.00 to 7.49

Second Class= CGPA of 5.00 to 5.99

## **Award of Ranks**

Ranks and Medals shall be awarded on the basis of final CGPA.

## **Award of degree**

Candidates who fulfil the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

### Final Mark list of University Examination

Sr. No.	Semester	Internal Assessment		End Semester Examination		Total	
		Theory 25 marks	Practical 25 marks	Theory 75 marks	Practical 75 marks	Theory 100 marks	Practical 100 marks
1	Semester I						
2	Semester II						

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