|  |  |
| --- | --- |
| **Course Title:** | Neonatal and Paediatric Emergencies in EMS |
| **Course Code:** | EMS 411 |
| **Program:** | Bachelor of Science in Emergency Medical Sciences |
| **Department:** | Aviation and Marine Department |
| **College:** | Prince Sultan Bin Abdul Aziz College for Emergency Medical Services |
| **Institution:** | King Saud University |

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# A. Course Identification

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Credit hours:** | | | | 3 (2+1) | | | | | | | | | | | | |
| **2. Course type** | | | | | | | | | | | | | | | | |
| **a.** | University | |  | | College | | |  | Department | | | |  | Others |  |  |
| **b.** | | Required | | | |  | Elective | | |  |  | | | | | |
| **3. Level/year at which this course is offered:** | | | | | | | | | | | | Semester -7 (3rd Year) | | | | |
| **4. Pre-requisites for this course** (if any)**:** EMS 312 | | | | | | | | | | | | | | | | |
| **5. Co-requisites for this course** (if any)**:** None | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |

## 6. Mode of Instruction (mark all that apply)

| **No** | **Mode of Instruction** | **Contact Hours** | **Percentage** |
| --- | --- | --- | --- |
| **1** | **Traditional classroom** |  |  |
| **2** | **Blended** | 64 | 100 |
| **3** | **E-learning** |  |  |
| **4** | **Distance learning** |  |  |
| **5** | **Other** |  |  |

**7. Contact Hours** (based on academic semester)

|  |  |  |
| --- | --- | --- |
| **No** | **Activity** | **Contact Hours** |
| **1** | **Lecture** | 32 |
| **2** | **Laboratory/Studio** | 32 |
| **3** | **Tutorial** |  |
| **4** | **Others** (specify) |  |
|  | **Total** | 64 |

# B. Course Objectives and Learning Outcomes

|  |
| --- |
| 1. Course Description The Course deals with understanding of the anatomy, physiology, psychological development, epidemiology, pathophysiology, and management of pediatric medical and traumatic emergencies. |
|  |
| 2. Course Main Objective |
| CLO 2.2.4 - Integrates age related assessment findings with developmental mile stones to formulate a field impression to implement a comprehensive treatment plan for pediatric specific common diseases or emergencies  CLO 2.2.5 - Integrates age related assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment plan for acutely injured pediatric patient  CLO 2.2.6 - Recognize and report child abuse and neglect |

## 3. Course Learning Outcomes

| **CLOs** | | **Aligned****PLOs** |
| --- | --- | --- |
| 1 | **Knowledge and Understanding** |  |
| 1.1 |  |  |
| 1.2 |  |  |
| 1.3 |  |  |
| 1... |  |  |
| **2** | **Skills :** |  |
| 2.2.4 (Target: 75 %) | Integrates age related assessment findings with developmental mile stones to formulate a field impression to implement a comprehensive treatment plan for pediatric specific common diseases or emergencies | 2.2 |
| 2.2.5 (Target: 75 %) | Integrates age related assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment plan for acutely injured pediatric patient | 2.2 |
| 2.2.6 (Target: 75 %) | Recognize and report child abuse and neglect | 2.2 |
| 2... |  |  |
| **3** | **Values:** |  |
| 3.1 |  |  |
| 3.2 |  |  |
| 3.3 |  |  |
| 3... |  |  |

# C. Course Content

|  |  |  |
| --- | --- | --- |
| **No** | **List of Topics** | **Contact Hours** |
| 1 | Role of the paramedic in pediatric care & Emergency Medical Services for Children and pediatric Growth and Development Review | 4 |
| 2 | Neonatology – Introduction, General Pathophysiology and Assessment, Specific Intervention and Resuscitation Steps, Pharmacologic Interventions and Family and Transport Considerations | 4 |
| 3 | Pathophysiology, Assessment, and Management of Specific Conditions, | 4 |
| 4 | Pathophysiology, Assessment, and Management of Conditions Related to Thermoregulation | 4 |
| 5 | Pathophysiology, Assessment, and Management of Common Birth Injuries in the Newborn and Congenital Heart Disease | 4 |
| 6 | Developmental Stages along with Anatomy, Physiology Pediatric | 4 |
| 7 | Pediatric Patient Assessment | 4 |
| 8 | Pathophysiology, Assessment, and Management of Respiratory Emergencies and Shock | 4 |
| 9 | Midterm Exam | 4 |
| 10 | Pathophysiology, Assessment, and Management of Cardiovascular and Neurologic Emergencies | 4 |
| 11 | Pathophysiology, Assessment, and Management of Gastrointestinal, Endocrine Hematologic, Oncologic, and Immunologic Emergencies | 4 |
| 12 | Pathophysiology, Assessment, and Management of Psychiatric and Behavioral, Fever Emergencies | 4 |
| 13 | Pathophysiology, Assessment, and Management of Pediatric Trauma and Burns Emergencies | 4 |
| 14 | Child Abuse and Neglect and Parents of Ill or Injured Children | 4 |
| 15 | Sudden Infant Death Syndrome, Brief Resolved Unexplained Event, Children with Special Health Care Needs and Prevention | 4 |
| 16 | Review Overall | 4 |
| **Total** | | 32 |

# D. Teaching and Assessment

## 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

| **Code** | **Course Learning Outcomes** | **Teaching Strategies** | **Assessment Methods** |
| --- | --- | --- | --- |
| **1.0** | **Knowledge and Understanding** | | |
| 1.1 |  |  |  |
| 1.2 |  |  |  |
| … |  |  |  |
| **2.0** | **Skills** | | |
| 2.2.4 (Target: 75 %) | Integrates age related assessment findings with developmental mile stones to formulate a field impression to implement a comprehensive treatment plan for pediatric specific common diseases or emergencies | • Interactive Lectures with discussion  • Use of Audi Visual Aids  • Text / Reference Reading  • Quiz / Home work / Assignment  • Computer Based Learning | Multiple Choice Questions  • Quiz  • Homework /Assignments  VivaVoce Examination |
| 2.2.5 (Target: 75 %) | Integrates age related assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment plan for acutely injured pediatric patient | Interactive Lectures with discussion  • Use of Audi Visual Aids  • Text / Reference Reading  • Quiz / Home work / Assignment  • Computer Based Learning | Multiple Choice Questions  • Quiz  • Homework /Assignments  • VivaVoce Examination |
| 2.2.6 (Target: 75 %) | Recognize and report child abuse and neglect | • Interactive Lectures with discussion  • Use of Audi Visual Aids  • Text / Reference Reading  • Quiz / Home work / Assignment  • Computer Based Learning | • Multiple Choice Questions  • Short Answer Questions  • Quiz  • Homework /Assignments  VivaVoce Examination |
| **3.0** | **Values** | | |
| 3.1 |  |  |  |
| 3.2 |  |  |  |
| … |  |  |  |

## 2. Assessment Tasks for Students

| **#** | **Assessment task\*** | **Week Due** | **Percentage of Total Assessment Score** |
| --- | --- | --- | --- |
| **1** | Quiz 1 | 4 | 5 |
| **2** | Quiz 2 | 8 | 5 |
| **3** | Midterm Theory | 9 | 20 |
| **4** | Midterm Practical | 9 | 5 |
| **5** | Quiz 3 | 15 | 5 |
| **6** | Final Theory | 17 | 40 |
| **7** | Final Practical | 17 | 20 |
| **8** |  |  |  |

**\*Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

# E. Student Academic Counseling and Support

|  |
| --- |
| **Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :** |
| Teacher / Staff office hours would be displayed on the notice board and faculty office doors according to semester schedule received from Program director. Each Group of Students will be assigned to each faculty for academic advice and Counseling. Academic Registration Unit, Student’s Unit, Program Director, Head of the Department, Examination Committee, Disciplinary Committee and Vice Dean of Academic Affairs also foresee and assist in Student’s Counseling. |

# F. Learning Resources and Facilities

## 1.Learning Resources

|  |  |
| --- | --- |
| **Required Textbooks** | Nancy Caroline's Emergency Care in the Streets, Volume 1 & 2 - with Access - 8th edition (AAOS- Jones & Bartlett Publishers) |
| **Essential References Materials** | 1. Mosby's Paramedic Text book with work book, Mick J. Sanders , Kim D. McKenna 2. Brady’s Paramedic Care: Principles & Practice, Volume 5, Bryan E. Bledsoe, Robert S. Porter and Richard A. Cherry 3. Neonatal Resuscitation Program Provider Manual-American Heart Association   4)Pediatric Advanced Life Support Provider Manual-American Heart Association |
| **Electronic Materials** | 1. www.nremt.org 2. www.heart.org   3)http://www.jems.com/ |
| **Other Learning Materials** | 1. Paramedic Practice Today - 2 Volume : Above and Beyond , Barbara J Aehlert RN BSPA   2)Pediatric Education for Prehospital Professionals-American Academy of Pediatrics |

## 2. Facilities Required

| **Item** | **Resources** |
| --- | --- |
| **Accommodation**  (Classrooms, laboratories, demonstration rooms/labs, etc.) | Well lit, air-conditioned and Sound Proof Classroom along which has 70 comfortable chairs with writing pads and 8 Simulation enabled labs with advanced high fidelity simulator neonatal and paediatric manikins |
| **Technology Resources**  (AV, data show, Smart Board, software, etc.) | Smart Board with Computer, Speakers and high speed Internet facility |
| **Other Resources**  (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | Projector and screen. White Board. SIM Baby Manikin and Paediatric Equipment |

# G. Course Quality Evaluation

| **Evaluation**  **Areas/Issues** | **Evaluators** | **Evaluation Methods** |
| --- | --- | --- |
| Effectiveness of teaching and assessment | Internal and External Peer Reviewers | Direct |
| Extent of achievement of course learning outcomes | Course Director, Program Director, Head of Department and Head of Quality Unit | Direct |
| Quality of learning resources | Program Director, Head of Department, Head of Quality Unit and Head of Simulation Unit | Direct |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

**Assessment Methods** (Direct, Indirect)

# H. Specification Approval Data

|  |  |
| --- | --- |
| **Council / Committee** |  |
| **Reference No.** |  |
| **Date** |  |