



Course Syllabus of sixth Semester
Academic term- 6th Semester 2012-13 (1434-1435H)

- Course Title: EMS Research and Evidence Based Practice
- Course Code: EMS 423
- Total Credits: 2; (2 Actual Theory, and 0 Actual Practical)
- Weekly Schedule:
 - Monday (Group A: 8:00-09:40 AM, and Group B: 10:00 AM – 11:40 AM).
- Faculty member: Dr. Osama A Samarkandi; osamarkandi@ksu.edu.sa
- Reference: <http://fac.ksu.edu.sa/osamarkandi>

Course Objectives:

- Understand the fundamentals of research including ethics, research design, data collection techniques, and analysis.
- Formulate a research question and translate it into an empirical step-by-step approach for working with data.
- Discuss research process and various research methodologies
- Determine if the literature review establishes the need for conducting the research.
- Identify the population(s) being studied.
- Apply mathematical basics of statistics to analyze collected data
- Identify the limitations of the study.
- Discuss the steps of Evidence Based Practice Process
- Identify the hierarchy of evidences for interventions and barriers to evidence based practice
- Advocate dissemination of recent trends and evidences in emergency care through research

*** Recommended text:**

An Introduction to EMS Research (1st Ed) by Brown, Lawrence H., Criss, Elizabeth A., Prasad, N. Heramba, (2001)

*** References:**

Paramedic Care: Principles & Practice, Medical Emergencies (3rd Ed) Volume 3, By; Bryan E. Bledsoe, Robert S. Porter MA EMT-P, Richard A. Cherry MS EMT-P.



*** e-References:**

www.nremt.org

<http://www.jems.com>

<http://www.health.ny.gov/nysdoh/ems/original/intro/intro.pdf>

<http://www.ems.gov/education/nationalstandardandncs.html>

*** Course Schedule**

Week #	Topics and activities	
Week-1	Theory	Introduction to EMS Research
Week-2	Theory	Research Process
Week-3	Theory	Ethical Consideration
Week-4	Theory	Choosing a Research Topic
Week-5	Theory	Defining the Question and Formulating a Hypothesis
Week-6	Theory	Conducting a Literature Review
Week-7	Theory	Conducting a Literature Review
Week-8	Midterm exams	
Week-9	Theory	Sample Selection
Week-10	Theory	Writing an Abstract
Week-11	Theory	Writing an Abstract
Week-12	Theory	Conducting a Pilot Study
Week-13	Theory	Implementing the Study and Collecting Data
Week-14	Theory	Describing and Analyzing the Data
Week-15	Research Documentation and Publication	
Week 16	Pre-Final Review	
Week 17	Final Examination	



*** Education Methodologies:**

- Interactive Lectures with lots of AV use,
- Student presentations,
- Guest Lectures by Eminent Faculty,
- Simulated Learning,
- Role plays,
- Group Discussions,
- Self-Directed learning,
- Computer Based Learning (CBL), and
- Animations, Illustrations, graphics and Cartoons etc.

*** Grade Assessment:**

Item	Percentage	Remarks
Participation & Attendance	10%	
Project	20%	①, and ②
Project Presentation	10%	
Midterm	20%	
Final exam	40%	

- ①: Groups and team work are encouraged,
②: Innovated projects are high recommended.