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Course Definition

1- Basic Information:

| | |
|---------------------------------------|--------------------------------------|
| Course Name | Electronic Medical Education Program |
| Course ID | EMEP |
| Contact Hours (Registered Sessions) | 16 |
| Contact Hours (Synchronized Sessions) | 16 |
| Mid Term Exam | |
| Exam | 75 Min |
| Registered Sessions Work Load | 16 |
| Synchronized Session Work Load | 16 |
| Credit Hours | 7 |

2- Pre-Requisites:

| Course | ID |
|------------------------------------------|------|
| Measuring Competencies of medical team | MCMT |
| Applying technology in medical education | TME |

3- Course General Objectives:

An electronic medical training program aims to train the teaching and medical staff in medical in the medical institutions to develop an electronic medical education program to develop human capabilities in clinical aspects and empowering them with the up to date medical scientific developments.

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4- Intended Learning Outcomes (ILO):

| Code | Intended Learning Outcomes |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ILO1 | Explain the principles for developing an electronic training program. |
| ILO2 | Identify and evaluate the needs of the teaching and medical staff in medical institutions and colleges. |
| ILO3 | Define the roles and tasks of the future trained staff. |
| ILO4 | Explain some examples of skills development programs for medical staff in developed countries. |
| ILO5 | Explain some examples of skills development programs in the family medicine. |
| ILO6 | Explain some examples of developing the skills of teaching staff in Syrian universities and medical institutions. |
| ILO7 | Apply CRISIS standards to develop human capabilities in Syrian medical institutions and hospitals. |
| ILO8 | Develop team skills in developing an electronic training content. |
| ILO9 | Develop an electronic scientific content in accordance with CRISIS standards. |
| ILO10 | Develop a training of trainer (TOT) programs. |
| ILO11 | Explain the principles of E-learning and ECME for developing an electronic training program. |
| ILO12 | Integrate electronic training programs into developing clinical training strategies. |
| ILO13 | Communicate effectively with colleagues and the medical team. |
| ILO14 | Evaluate the trainee and provide feedback, which contributes to developing the practical and administrative capabilities of the trained doctors and contributes to developing their performance. |

5- Course Syllabus (18 hours of total synchronized sessions)

- **RS:** Recorded Sessions; **SS:** Synchronized Sessions;

| ILO | Course Syllabus | RS | SS | Type | Additional Notes |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-------------|------------------|
| ILO1 | Electronic Medical Education Programs <ol style="list-style-type: none"> 1. Lifelong Learning 2. Modern Education <ul style="list-style-type: none"> ▪ What Is Modern Education? ▪ Modern Education System | | 1 | assignments | Exercises |

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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|-------------|-----------|
| | <ul style="list-style-type: none"> ▪ Advantages of Modern Education System ▪ Disadvantages of Modern Education System ○ Modern Vs. Traditional Education System ○ Digital Medium <p>3. Electronic Medical Continuous Education (ECME)</p> <ul style="list-style-type: none"> • Continuing Medical Education CME • Electronic Continuing Medical Education ECME • Need for ECME • ECME Program Objective • Benefits of ECME • ECME Programs • ECME Programs Development Cycle | | | | |
| ILO2 | <p>1. CRISIS: Criteria for Effective Continuing Education</p> <p>a) What is CRISIS?</p> <p>b) CRISIS Model</p> <p>c) CRISIS: Convenience</p> <p>d) CRISIS: Relevance</p> <p>e) CRISIS: Individualization</p> <p>f) CRISIS: Self-assessment</p> <p>g) CRISIS: Interest</p> <p>h) CRISIS: Speculation and systematic</p> | | 1 | assignments | Exercises |
| ILO3 | <p>Learning Management System</p> <p>a. E-Learning</p> <p>b. Learning Concepts</p> <p>c. New Learning Concepts</p> | | 1 | assignments | Exercises |

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| | <ul style="list-style-type: none"> i. Microlearning ii. Gamification d. Learning Management System (LMS) <ul style="list-style-type: none"> i. LMS Features ii. LMS Technical Aspects e. Moodle <ul style="list-style-type: none"> i. What is Moodle? ii. Why Moodle? iii. Moodle Products iv. Moodle in Workplace v. Moodle hosting services vi. On-site Moodle hosting vii. Moodle Cloud viii. What Moodle Cloud Includes? Moodle Cloud Tutorial | | | | |
| ILO4 | E-Training in Medical Education <ul style="list-style-type: none"> a. Keep Up to Date b. e-Learning and e-Training <ul style="list-style-type: none"> i. The Characteristics of Learning ii. The Characteristics of Effective Learner iii. Characteristics of Effective Training Programs c. Professional training <ul style="list-style-type: none"> i. The need for professional training ii. Domains of Change During Training iii. What a TOT course is all about iv. The need for TOT courses d. E-Training <ul style="list-style-type: none"> i. E-Training Program Design ii. E-Training Activities Design iii. E-Training Media e. LMS & TMS f. What is Web-based Technologies? <ul style="list-style-type: none"> i. Web-based Medical E-Training Methodology ii. Conceptual model of Web-based e-training content iii. Management of E-training Courseware Development iv. Web-based Laparoscopy E-Training | | 2 | assignments | Exercises |

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| | Methodology | | | | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|-------------|-----------|
| ILO5 | Health Informatics a. Definition b. Health Informatics Services c. Electronic Medical Records (EMR) d. Telemedicine i. What is Telemedicine? ii. Telehealth iii. Telemedicine Vs. Telehealth iv. Hardware Configuration v. Software Modules vi. Data Flow Diagram For Offline Communication vii. Data Flow Diagram For Online Communication viii. Types of telemedicine ix. Store-and-forward telemedicine x. Real Time Telemedicine xi. Health Informatics Services | | 2 | assignments | Exercises |
| ILO6 | Searching Information on the Internet a. Searching the Web b. The Content Of The World Wide Web And Its Accessibility c. What is a database? d. Resources Of Information On The Internet e. SEARCH TECHNIQUES f. Developing a Search Strategy g. Truncating Search Terms h. Phrase Searching i. Combining Concepts j. Boolean Search Operators k. Use Google Scholar i. When to Use Google Scholar ii. When it's good to use Google scholar Google Scholar Tips | | 2 | assignments | Exercises |
| ILO7 | Finding Reliable Health Information Online a. Medical Publications Categories b. MEDLINE c. What is MEDLINE? | | 1 | assignments | Exercises |

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| | <ul style="list-style-type: none"> d. MEDLINE Journals e. Finding Resources via MEDLINE f. Access to MEDLINE g. PubMed h. PubMed i. PubMed Advanced Search j. MedlinePlus k. What is MedlinePlus? l. MedlinePlus at a Glance m. MedlinePlus Health Topics n. Scopus o. What is Scopus? p. Search for an Author Profile q. Search for Sources r. Medical Contents Searching s. Searching Tools For Medical Content t. How To Find Free Articles u. How To Find Free E-books | | | | |
| ILO8 | <p>Concept & Mind Maps in Medicine Education</p> <ul style="list-style-type: none"> a) Concept Map b) What is Concept Map? c) Concept Map: History d) The Use of Concept Map e) How is a Concept Map Organized? f) The Role of Concept Maps in the Medical Education g) Concept Mapping Tools h) Examples i) Mind Maps in Medicine j) What is Mind Map? k) Mind Map Guidelines l) Mind Mapping Vs. Concept Mapping m) The Role of Mind Maps in the Medical Education | | 2 | assignments | Exercises |

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| | n) Mind Mapping Tools o) Examples | | | | |
| ILO9 | Social Media in Education <ul style="list-style-type: none"> a. Social Media <ul style="list-style-type: none"> • What is Social Media? • Social Media in Education • Major Social Media Sites and Uses • Benefits of Social Media in Education • Connecting with Experts on Topics via Social Media • How can Social Media be used in Education? b. Social Learning <ul style="list-style-type: none"> • What is Social Learning? c. Micro-Learning <ul style="list-style-type: none"> • What is Micro Learning? • Traditional Training Processes vs. Micro Learning • Characteristics of Microlearning • Examples of Microlearning Content • Types of information in Microlearning • Use of Microlearning • Benefits of Microlearning <p>Reasons Why Social And Micro Learning Make A Great Combination</p> | 1 | assignments | Exercises | |
| ILO10 | Web Quest <ul style="list-style-type: none"> a. What is WebQuest? b. Distinguishing Characteristics | 1 | assignments | Exercises | |

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| | c. WebQuest Structure d. WebQuest in Education e. Creating WebQuest f. Creating WebQuest: Zunal http://zunal.com/ | | | | |
| ILO11 | Effective Communication & Presentation a. Communication i. What is Communication? ii. The Purpose of the Communication iii. Effective Communication iv. When to make sure you communicate effectively? b. Presentation i. What is Presentation? ii. The Key Elements of a Presentation iii. The Key Elements of a Presentation: Context iv. The Key Elements of a Presentation: Presenter v. The Key Elements of a Presentation: Audience vi. The Key Elements of a Presentation: Message vii. The Key Elements of a Presentation: Reaction viii. The Key Elements of a Presentation: Method ix. The Key Elements of a Presentation: Impediments x. Creating an Effective Presentation xi. Structuring and Planning: | 2 | | assignments | Exercises |

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| | xii. Presentation Skills c. Microsoft Powerpoint i. Tips for Making Effective PowerPoint Presentations ii. Tips for Effective PowerPoint Presentations The Seven Mistakes of PowerPoint Presentations | | | | |
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6- Assessment Criteria (Related to ILOs)

| | | | | | |
|------|--------------------------------------------|----|---------------|-----|---------|
| ISC | Interactive Synchronized Collaboration | Ex | Exams | Rpt | Reports |
| PF2F | Presentations and Face-to-Face Assessments | PW | Practice Work | | |

| ILO Code | ILO | Intended Results | Assessment Type | | | | |
|----------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----|----|------|-----|
| | | | ISC | PW | Ex | PF2F | Rpt |
| ILO1 | Electronic Medical Education Programs | Identify the lifelong learning skills needs to stay informed of relevant scientific findings needs. Explain the principles of E-learning and ECME for developing an electronic training program. | ✓ | ✓ | ✓ | | ✓ |
| ILO2 | CRISIS: Criteria for Effective Continuing Education | Apply CRISIS standards to develop human capabilities in Syrian medical institutions and hospitals. | ✓ | ✓ | ✓ | | ✓ |
| ILO3 | Learning Management System | Explain the importance of LMS and CMS and LCMS. | ✓ | ✓ | ✓ | | ✓ |
| ILO4 | E-Training in Medical Education | Define the roles and tasks of the future trained staff. | ✓ | ✓ | ✓ | | ✓ |
| ILO5 | Health Informatics | Explain the importance of integration the technology in the medical education using the health informatics. | ✓ | ✓ | ✓ | | ✓ |

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| ILO6 | Searching Information on the Internet. | Know the effective methods to find the information on the internet. | ✓ | ✓ | ✓ | | ✓ |
| ILO7 | Finding Reliable Health Information Online | Report a list of online health information resource. | ✓ | ✓ | ✓ | | ✓ |
| ILO8 | Concept & Mind Maps in Medicine Education | Apply the concept and mind maps in developing a medical courses. | ✓ | ✓ | ✓ | | ✓ |
| ILO9 | Social Media in Education | Explain the advantages and disadvantages of social software available on the web provide examples of how to use web-based instructions. | ✓ | ✓ | ✓ | | ✓ |
| ILO10 | Web Quest | Develop a Web-Quest in medical fields. | ✓ | ✓ | ✓ | | ✓ |
| ILO11 | Effective Communication & Presentation | Discuss the importance of effective communication in medical education. Discuss the usefulness of visual aids and identify common presentation tools | ✓ | ✓ | ✓ | | ✓ |

7- Practice Tools:

| Tool Name | Description |
|-------------------|---------------------------------------------------------------|
| Authoring Tools | Ms Word |
| Presentation Tool | Ms Power Point |
| Mind Maps Tools | Concept and Min Maps tools (Web-based tools and applications) |

8- Main References

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9- Additional References

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