**CURRICULUM FOR**

**CERTIFICATE IN HEALTH PROFESSIONS EDUCATION (CHPE)**

**NATIONAL UNIVERSITY OF MEDICAL SCIENCES,**

**RAWALPINDI, PAKISTAN**

1. **Act/ charter of the University allowing to offer the program.**

   National University of Medical Sciences Act, Gazette of Pakistan vide Act no. XVII of 2015 on 28 October 2015.

2. **Approval of the University Statutory body to start a program.**

3. **NOC of Professional Councils (If applicable).**
   NUMS fulfils the PM&DC requirement of being a Medical University in its first and third schedule, with an established Department of Health Professions Education with at least one registered faculty of HPE. Fulfills PM&DC criterion as per its decision dated January 2, 2019

4. **Exact title of program that will appear on the degree.**

   Certificate in Health Professions Education (CHPE)

5. **Department(s)/ Institute.**

   NUMS Department of Health Professions Education (NDHPE).

6. **Duration**:          06 months**.**
7. **Frequency:**          Once or Twice a year (spring/fall) depending on feasibility
8. **Number of courses**: 04
9. **Description of Course & Scheme of Study**
   The course will be hybrid with face to face (Face to face) and online self-study components.
   One face to face session.

| Courses | Credit Hours |
|---|---|
| Adult learning-Theory and Application | 3 |
| Evidence-based Teaching and Learning | 3 |
| Curriculum Planning & Evaluation | 3 |
| Assessment for Learning | 3 |
| **Total Credit Hours** | **12** |

Each course will be of 05 - 06-week duration

| Weeks | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 |
| Adult learning- Theory and Application | | | | | Curriculum Planning & Evaluation | | | | | Evidence-based Teaching and Learning | | | | | | Assessment for Learning | | | | | |
| Face to face I | | | | | | | | | | | | | | | | | | | | | |

## 10. Eligibility Criteria

i. 16 Years of Education in relevant discipline with:
- MBBS/ BDS or equivalent
- BS Nursing
- BS AHS

ii. Valid registration with the regulatory body, wherever applicable.

iii. Selection will be upon the discretion of NUMS and will be in consideration of:
- geographical location
- next due promotion and requirement of certification

## 11. Overview of learning and Instruction:

### I. Face to face Session:

These will be conducted at the start of program. Each face to face session will be of 5 days. Attendance of students in Face to face **will be mandatory**.

Suitable venues will be identified depending upon the students' geographical representation. These sessions will be staggered and will be conducted as per the suitability of participants and NUMS faculty.

The online program will be launched at the same time for all participants.

During F2F sessions, Students will be oriented to the program and its implementation, introduction to Moodle and distance learning. Introduction of all four courses will be given and competencies will be defined and discussed

### II. Distance learning:

Distance Learning will be using Moodle software, customized for the program, will be used by students and faculty for access to learning material, discussions and assessments of each course.

**Distance Learning study groups (DLSGs):**
Geographically diverse online study groups of students will be made. Each study group will be supervised and marked throughout the course by faculty from NUMS/constituent and affiliates (as assigned).

**Internal assessments** during the six weeks of each course will also be on the online portal.

## 13. Faculty Roles:
**Program directors (PD) – NUMS Faculty**
- Overall planning and implementation of the program.

### a. Course Directors (CD)–NUMS faculty:
- Developing course content and assessments
- Training and guiding the site coordinators and teaching assistants
- Conducting face to face sessions
- Compiling scores of continuous assessments and forwarding it to the University before the certification exam.

### b. Program tutors – NUMS faculty/faculty from constituent and affiliates
- Monitoring student responses on dashboard
- Scoring students assignments, responses on discussion board and End-of-course (EOC) assessment, on guidelines provided by the program directors
- Conducting mandatory one virtual session per course for participants

## 14. List of faculty

## 15. Program Outcomes

By the end of the course the student will be able to:

i.   Apply principles of learning to evidence-based teaching, curriculum planning and assessment.

ii.  Develop and implement a curriculum based on best international practices

iii. Evaluate a curriculum using varied models of program evaluation

iv.  Develop teaching sessions applying principles of teaching and learning

v.   Construct an assessment plan utilizing the assessment utility criteria

vi.     Ensure pre, per and post exam quality assurance mechanisms in student assessment

## 16. Assessment plan

Assessment will be continuous, end of course summative and certification exam

a. Continuous:
- Critical questions/quiz based on learning resources provided.
- Assignments (1 in total) based on essential and additional reading material provided
- Academic contribution on discussion boards.

b. End of course assessment
Critical questions and problems requiring application of concepts addressed in the course

c. Certification Exam
- This will be conducted by the university exam directirate.
- Critical questions and exercises that include application of concepts of all courses

d. Weightings of the above are as follows:

## 17. Course Content

### 17.1.  Course code: HPE 701

**Course Title:** Adult Learning-Theory and Application

**Credit Hours: 3**

**Learning Outcomes:**

**By the end of the course, participants should be able to:**

- Analyse major learning theories in context of health professions education

- Demonstrate ability to derive principles from these theories for application in teaching and learning

- Identify the gaps between theory and practice and suggest ways to bridge the same.

**17.2. Course code: HPE 702**

**Course Title:** Curriculum Planning and Evaluation

**Credit Hours: 3**

**Learning Outcomes:**

CPE -Learning Outcomes

- Correlate educational theory and practice

- Analyze historical developments in educational philosophies and current theories of curriculum.

- Scrutinize issues related to content, design and development of curriculum and practice with respect to curriculum development.

- Develop a curriculum plan based on sound principles of learning

- Apply combination of instructional strategies in a curriculum

- Critique a given curriculum and make recommendations for improvement.

**17.3. Course code: HPE 703**

**Course Title:** Evidence Based Teaching & Instruction

**Credit Hours: 3**

**Course Outcomes**

By the end of the course, participants should be able to:

- Choose appropriate instructional designs based on principles of adult learning theories
- and their attributes.
- Demonstrate use of online teaching and learning tools for students of digital age
- Effectively use of models of instruction for lesson planning.
- Justify the use of different learning strategies to increase learners' engagement while
- teaching in the three domains of learning: Cognitive, Skills, Attitudes.

**17.4. Course code: HPE 704**

**Course Title:** Assessment for Learning

**Credit Hours: 3**

**Course Outcomes**

- Differentiate between assessment, test and measurement
- Analyze theories used in assessment
- Identify general principles of assessment
- Choose appropriate assessment tool with reference to Millers levels of competence
- Correlate Instruction with assessment
- Compare assessment tools and their utility index

**18. Assessment Blueprint for each course**

| Assessment For Learning | Weighting | Marks | Assessment Tools | Timing and duration* |
|---|---|---|---|---|
| Critical Questions/Quiz | 10% | 10 | SAQs | 48 hrs. |
| Discussion Board I | 5 % | 5 | Analytical | Open |
| Discussion** Board II | 5 % | 5 ** | Activity based | Virtual Synchronous 90 minutes |
| 1x Assignment | 20% | 20 | Rubric | 3 Weeks |
| End of course examination | 20% | 20 | MCQ/EMQ | 48 hrs |
| | | | | |
| Certifying exam | 40% | 40 | As per TOS below | End of program |
| Total | 100% | 100 | | |

*Timing and duration can be modified according to the complexity of the task

### 19. Assessment Blueprint for Online Certifying Exam CHPE

| Course | Weighing | Marks | Assessment Tools | Timing and Duration |
|---|---|---|---|---|
| Internal Assessment | | | | |
| Continuous Assessment of each course | 40% | 40 | Critical Questions, Assignments, Discussion Board | Ongoing over 06 weeks |
| End of each course Assessment | 20% | 20 | SEQs/Exercises | At the end of 06 weeks course |
| | | | | |
| **Online University Certification Exam of each course** | 40% | 40 | Selected Response items Short Essay/Answer Questions | As per Approved Schedule |
| **Total for each course** | **100%** | 100 | | |

| Course | Paper 1- Selected Response | Marks A | Paper 11- Constructed Response- SAQs | Marks B | Total A+B |
|---|---|---|---|---|---|
| | **60 min** | | **90 min** | | |
| **Adult Learning Theory and Application** | 10 | 20 | 02 | 20 | 40 |
| **Curriculum Planning and Evaluation** | 10 | 20 | 02 | 20 | 40 |
| **Evidence Based Teaching and Learning** | 10 | 20 | 02 | 20 | 40 |
| **Assessment for Learning** | 10 | 20 | 02 | 20 | 40 |

| Total | 40 | 80 | 08 | 80 | 160 |
|-------|----|----|----|----|----|

**To be declared pass every candidate needs to get at least:**

| Assessment | Requirement (in Percentage) | In Numbers |
|------------|------------------------------|------------|
| **Continuous Assessment** | **50%** | **120/240** |
| **EOP** | **25%** | **40/160** |
| **Total** | **50%** | **200/400** |