Co-Curricular and Service Learning Course Outline

Part I

Programme Title : All Undergraduate Programmes
Course Title : Enhancing Leadership by Organizing Mathematics Activities
Course Code : COC1002/CSL1005
Department : Mathematics and Information Technology
Credit Points : 3
Contact Hours : Lectures and sharing sessions: 15
Experience-based activities: 36 (counted as 24 contact hours)
Pre-requisite(s) : Nil
Medium of Instruction: CMI
Level : 1

Part II

1. Synopsis
The course provides an opportunity for the student teachers to develop their leadership abilities and establish their social networks via participations in organizing and involvement in mathematics tutoring activities in local schools. The course is designed to enrich their mathematical experience, develop their leadership abilities, and provide opportunities for them to develop to become an independent learner in mathematics education. Students are expected to assist in tutoring small learning groups of senior primary school students, providing support to design mathematical activities, working closely with the school teachers, performing self-reflections on lesson observations and involvement in related activities that are beneficial to learning and teaching of mathematics at schools.

2. Course Intended Learning Outcomes (CILOs)

Upon successful completion of this course, the students should be able to:

CILO1 acquire the basic concepts of leadership, experiential education and service-learning;
CILO2 evaluate the community needs, develop plans and implement relevant tasks to echo the educational goals of the attached primary / secondary schools, and/or NGOs;
CILO₃ acquire the relevant mathematics content knowledge, positive attitudes and skills in community development, and the first-hand service experience in schools;

CILO₄ reflect critically on their own leadership, planning and organizing abilities so as to develop plans for further improvements.

3. Content, CILOs and Teaching & Learning Activities

<table>
<thead>
<tr>
<th>Course Content</th>
<th>CILOs</th>
<th>Suggested Teaching &amp; Learning Activities</th>
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<tbody>
<tr>
<td>Leadership and Organizing Abilities</td>
<td>CILO₁,₄</td>
<td>Lecture and discussions; Individual consultation</td>
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<tr>
<td>Experiential Education and Service-Learning</td>
<td>CILO₁,₃</td>
<td>Lecture and discussions; Group presentations</td>
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| Community Needs and School Services   | CILO₂,₄| Organizing mathematics activities in schools
Examples: organizing and conducting tutorial classes for students with weak mathematical backgrounds; designing interesting mathematics problems and solving them with the students together; discovering the fun of mathematics in daily life; introducing the mathematical ideas from the historical and the cultural perspectives; helping students to develop positive attitudes towards mathematics, etc.

4. Assessment

<table>
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<tr>
<th>Assessment Tasks</th>
<th>Weighting (%)</th>
<th>CILO</th>
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<tbody>
<tr>
<td>(a) Students’ Participations</td>
<td>20%</td>
<td>CILO₁,₃</td>
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<td>Class attendance. Individual consultation.</td>
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<td>Active involvement in class discussions and related learning activities.</td>
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<td>(b) Reflective Journal (not more than 1,500 words)</td>
<td>40%</td>
<td>CILO₁,₂,₃,₄</td>
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<td>A personal record of his/her own learning experiences. Each student has to prepare a reflective journal for:</td>
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<td>(i) recording all the related activities that have been organized in the attached schools or service centers; (ii) reflecting upon the participations in the organized activities; and (iii) self-analysis on the practical experiences</td>
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5. **Required Text(s)**

Nil

6. **Recommended Readings**

**Books**


**Journal Articles**

7. **Related Web Resources**
8. Related Journals
   Journal of College Student Development
   Journal of Mathematics Education
   Journal of Science Teacher and Education
   Journal of Teacher Education

9. Others
   Nil