SEMESTER - III

CPS 2c – Part III - PEDAGOGY OF MATHEMATICS

Credits: 2 **Internal: 20 marks**

Hours/Week: Theory-2hrs & Practical- 4hrs **External: 30 marks**

Total: 50 marks

Course Learning Outcomes:

At the end of the course, the student-teachers will be able to

- integrate the importance of various learning resources;
- conduct Action Research and disseminate the results;
- discriminate the various tasks to be executed during field immersion;
- prepare reflective journals on observation of peer teaching;
- prepare reflective journals on co-teaching with mentors;
- design lesson plans in Mathematics;
- prepare teaching learning materials to facilitate teaching in Mathematics;
- acquire skills in teaching competency; and
- prepare reflective journal on School Internship.

Unit I: Learning Resources in Mathematics

Library Management and Use of Library books as learning resources - Learning beyond textbooks – other sources of learning ;Types of learning resources - Print Resources: Textbooks, Workbooks, Self-instructional materials and Supplementary reading material- Audio Resources, Educational Radio Broadcast and Audio Programmes, Audio CD - Visual Resources - Non projected visual resources (Graph, map, chart, poster, models and materials): Projected visual resources (Still Visuals such as Slide, Transparency and Film Strip; Moving Visuals such as Film, Video - Organizing Mathematics laboratory and its uses.

Unit II: Action Research

Action Research - Meaning, Need for classroom research - difference between action research and fundamental research - steps in action research - journaling the results of classroom research.

Unit III: Field Immersion

Tasks of student-teachers during Internship:

- Observation of the teaching of mentor teachers and peer student-teachers
- Institutional and Individual case study
- Lesson plan, Unit plan and teaching - learning materials
- Question paper and other tools of assessment
- Reflective diary of school internship
- Co-Scholastic activities
- Teacher as a substitute teacher

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