25B, বেনিয়াটোলা লেন কলকাতা - 700 009



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প্রথম বর্ষ

পশ্চিমবঞ্জা প্রাথমিক শিক্ষা পর্যদ ও NCTE কর্তৃক অনুমোদিত Diploma in Elementary Education (DEIEd) Course-এর নতুন পাঠক্রম (2014) অনুযায়ী লিখিত।

পঠ্যক্রম (Syllabus)

Unit-1 : Perspective about Mathematical Knowledge-1

Class-9 Hours

- Meaning, nature and characteristics of mathematics 2 hours
- O Processes in mathematics-mathematical representations, mathematical relations, mathematical reasoning, problem solving in mathematics and communication in mathematics. 5 hours
- Goals of Mathematics Education—Cognitive, affective and Psychomotor domain 2 hours

Unit-2 : Perspective about Mathematical Knowledge-2

Class-10 hours

- O Aims of teaching mathematics—disciplinary, utilitarian, recreational. 3 hours
- Objectives of mathematics education of elementary level in terms of competencies/learning outcomes, development of interest and appreciation 5 hours
- O Effect of socio-cultural back ground of children on mathematical knowledge 2 hours

Unit-3 : Pedagogic Content Knowledge-1

- Number : Number concepts, counting, place value, rational numbers, Arithmetic operations, Fractions, Decimals 4 hours
- O Spatial understanding and Shapes-vocabulary of special relationship, basic geometrical shapes and their characteristics, Triangle, Rectangle, Square, Circle, Sphere, Cylinder and Cone, Rectangular parallelopiped, cube. 3 hours

Class-6 hours Unit-4 : Pedagogical Content Knowledge-2

- O Measurement : Length, perimeter and area of square & rectangle circle, weight, volume, Time and money 4 hours
- O Data handling : Collection and representation of data through various methods-tables, tallies, pictogram and bar graph-interpretation of idea 2 hours

Unit-5 : Elementary Statistics	Class-8 hours	
• Basic concept in statistics	1 hour	
• Tabulation of Data	2 hours	
• Graphical presentation thereof	2 hours	
\odot Measure of Central Tendency and dispersion	3 hours	
Unit-6 : Conceptualization of Mathematics	Class-15 hours	

- O Constructivist Approach in Mathematics 2hours
- O Activity based learning, strategies for concept formation and concept attainment, structuring activities for inductive thinking and inquiry

- **Class-7 hours**

based learning, structuring learning, activities using manipulative, story problems, games, outdoor activities and real life situations. 5 hours O Co-operative learning strategies (learning together technique) 1 hour O Theory of Mathematics learning : Piaget, Vygotsky, Dienes, Bruner 4 hours O Concept of Estimation-Measurement related 1 hour O Use of out of School Mathematics for conceptualization of Formal Mathematics 2 hours **Class-6 hours Unit-7** : Resource in Mathematics Learning O Preparation and use of learning materials in mathematics. 4 hours • Principles of selection and effective use of LTM 2 hours **Unit-8 : Learning Methods and Approaches of Mathematics** Class-7 hours O Observation, experimentation, Demonstration, Problem Solving 4 hours Project 3 hours **Unit-9 : Planning for Teaching Mathematics : Class-10 hours** O Unit-wise process based lesson planning, Preparation of lesson notes on the basis of competencies. 8 hours O Planning for Teaching-Addressing problems in mathematics teaching and their probable solutions. 2 hours Unit-10 : Assessment of Mathematics Learning Class-12 hours O Meaning and purpose of assessment and evaluations 2 hours O CCE in mathematics. Formative and Summative 4 hours O Tools of assessment in mathematics—Achievement test and diagnostic test in mathematicsconstruction and use 4 hours O Assessment of misconceptions in Mathematics 2 hours



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