

Course Outline

Department:...Bilingual.....Name of Subject :...Mathematics....Code : A21201

Teacher's name :Mrs. Augustina Kaviraj.....

Level ;

☐ Primary .../.....

☒ Secondary M.1/1-5

1st Semester / 2014

Subject :

☐ Main Subject

☒ Optional Subject

☐ Development Activities for Students

☐ Others

1) Course Description (1st Semester)

1. Solve application problems that involve integers.
2. Solve application problems involving factors, multiples, HCF and LCM.
3. Solve application problems involving ratio, proportion and percentage.
4. Learn the law that govern operations in numbers expressed in exponential notation.

2) Learning Objectives (1st Semester)

Indicators of Semester	
1. To provide a broad understanding and an opportunity to acquire detailed knowledge and awareness of the study of Mathematics in English. 2. To create an interest towards the subject and promote better reading, understanding and comprehending skills. 3. To enhance students' ability to evaluate and discuss viewpoints related to the topic. 4. Understanding of numerical system and application of numerical properties. 5. Relate the importance of integers in our real life situations. 6. Identify and differentiate factors and multiples of a given number. 7. Develop independence with speed and accuracy in finding the HCF and LCM of numbers. 8. Develop independence with speed and accuracy in calculating exercises in ratio, proportion and percentage. 9. Develop speed and accuracy in simplifying expressions in exponential form.	

3) Contents of subjects

1st Semester

Time Duration	Subject Contents
Beginning of the session – Mid-term	- Integers - Factors and Multiples
Post – Midterm – Final	- Ratio , Proportion and Percentage - Exponents

4) Evaluation

Average marks for evaluation

Authentic Assessment: Written / Practical Exam = 60 : 40

Evaluation of Learning Objectives

Semester	Learning Objectives (Items)
1	4 ,5, 6, 7, 8, 9

5) Details of Evaluation

1st Semester/2014

Pre-test marks: 30 Marks (Authentic Assessment)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
4,5,6,7.	- Class/ home assignments	15
	- Response in Class/ Class test	15

Mid-term marks: 20 Marks (Written/Practical Exam)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
4 , 5	- Written exam	10
6 , 7	- Written exam.	10

Post-Test marks: 30 Marks (Authentic Assessment)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
8 , 9 .	- Class/ home assignments	15
	- Response in Class/ Class test	15

Final marks : 20 Marks (Written/Practical Exam)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
8.	- Written Exam	10
9	- Written Exam	10

Course Outline

Department - Bilingual.....Name of Subject :...Mathematics....Code : A21202

Teacher's name : Mrs Augustina Kaviraj

Level ;

☐ Primary .../.....

☒ Secondary 1..../1-5....

2nd Semester / 2014

Subject :

☐ Main Subject

☒ Optional Subject

☐ Development Activities for Students

☐ Others

1) Course Description (2nd Semester)

1. Understanding and ability to analyze pattern, relation and function.
2. Ability to apply algebraic expressions, equations, inequalities ,graphs and other mathematical models to represent various situations, as well as interpretation and application for problem solving.
3. Ability to explain and analyze two-dimensional geometric figures.
4. Ability to explain and analyze three-dimensional geometric figures.

2) Learning Objectives (2nd Semester)

Indicators of Semester	
1. Develop speed and accuracy in simplifying algebraic expressions.	
2. Develop speed and accuracy in solving algebraic equations.	
3. Develop independence with speed and accuracy in finding the measure of the unknown angles in triangles.	
4. Develop independence with speed and accuracy in calculating the measure of the unknown angles of quadrilateral	

3) Contents of subjects

2nd Semester

Time Duration	Subject Contents
Beginning of the session – Mid-term	Basic Algebra Algebraic Equations
Post – Midterm – Final	Properties of Triangles Properties of Quadrilaterals

4) Evaluation

Average marks for evaluation

Authentic Assessment: Written / Practical Exam = 60 : 40

Evaluation of Learning Objectives

Semester	Learning Objectives (Items)
2	1 ,2 ,3 ,4

5) Details of Evaluation

2nd Semester/2014

Pre-test marks: 30 Marks (Authentic Assessment)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
1	- Class/ home assignments	15
2	- Response in Class/ Class test	15

Mid-term marks : 20 Marks (Written/Practical Exam)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
1	- Written Exam	10
2	- Written Exam	10

Post-Test marks : 30 Marks (Authentic Assessment)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
3	- Class/ home assignments	15
4	- Response in Class/ Class test	15

Final marks : 20 Marks (Written/Practical Exam)

Learning Objectives (Items)	Criteria Followed for Assessment	Maximum marks
3	- Written Exam	10
4	- Written Exam	10