



# P.K.M. COLLEGE OF EDUCATION

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# PROGRAMME PORTFOLIO

## DEPARTMENT OF MATHEMATICS 2018 - 20



# P K M COLLEGE OF EDUCATION, MADAMPAM

## DEPARTMENT OF MATHEMATIC

### 1<sup>st</sup> semester classroom activities

#### 2018-2020 Batch

The optional classes for 2018 – 2020 Batch started on 9<sup>th</sup> July 2018 with self introduction of students. Our class teacher gave an outline of the course on that day.

#### SUBJECT COMPETENCY TEST

On the first week of our classes teacher made a subject competency test which contains 20 multiple choice questions. Mark of students in this test is given below.

SL No.	Name of the students	Marks (out of 20)
1	Anumol Mathew	11
2	Ayona Vincent	12
3	Harsha A T	8
4	Jishna Kariyil	8
5	Meenu Stephen	10
6	Nimitha Jose	13
7	Rajina P P	12
8	Sneha P Sebastian	10
9	Souparnika J	9

#### WhatsApp group

To make academic conversations fruitful, teacher asked to create a WhatsApp group. So, we created a WhatsApp group that includes all students in our class and teacher.

#### Puzzle presentation:

Classes were beginning with puzzle presentations by one of students of the class in alternative

e days.

### **Class presentation:**

Five minutes class presentation on any topic in Mathematics was done by any member of the class every day.

### **Definition of mathematics**

There are different definitions of mathematics given by many well known mathematicians and scientists. So, each student of our class collected definitions of mathematics given by both Indian and foreign mathematicians.

### **Number patterns**

There are lot of interesting number patterns in mathematics world. It helps to develop interest in mathematics. Each student of our class collected 15 interesting number patterns.

### **Geometric patterns**

Geometric patterns are also helps to foster interest in mathematics. Each students of our class collected 15 interesting geometric patterns.

### **Seminar**

Every student of the class presented seminars on different topics with a moderator from our peer group.

<b>NAME</b>	<b>TOPIC</b>	<b>DATE</b>
Anumol Mathew	Orientation to theories of Bruner, Piaget, Gagne, Vygotski, Chomsky & Gardner and implications of these theories in teaching mathematics	22 <sup>nd</sup> October 2018
Ayona Vincent	Curriculum & principles of content Selection	9 <sup>th</sup> October 2018
Harsha A T	Approaches	16 <sup>th</sup> October 2018
Jishna Kariyil	Principles of content organization	12 <sup>th</sup> October 2018
Meenu Stephen	Qualities and competencies of good Mathematics teacher	29 <sup>th</sup> August 2018
Merita Stephen	Correlation in mathematics	11 <sup>th</sup> September 2018

Nimitha Jose	Teaching problem solving & Techniques of individualizing instructions	18 <sup>th</sup> September 2018
Rajina P P	Professional growth of Mathematics teacher & Role of SCERT AND NCERT In the professional growth of Mathematics teacher	27 <sup>th</sup> September 2018
Souparnika J	Mathematics Curriculum reforms	16 <sup>th</sup> October 2018
Sneha P Sebastian	Oral work, drill work, written work, homework, review, assignment \$ small group techniques	28 <sup>th</sup> September 2018

### **Publications:**

- **GREAT MATHEMATICIANS**

For the remembrance of great Mathematicians all members of the class had studied about 2 mathematicians (one Indian and one foreign) and combined all this details as a publication named as GREAT MATHEMATICIANS. This publication was introduced in the general class by Dr.Rekha K R in the morning assembly. This will help to know more about their excellent contributions to the world history.

- **QUESTION BANK**

All the members of the class had worked on the syllabus of Kerala State Board 8<sup>th</sup> standard textbook and prepared a question bank with answers both in English and Malayalam. This publication was introduced in the general class by Dr. Maya J Pillai in the morning assembly.

- **SIGMA 2018**

A Mathematics class magazine named as SIGMA 2018 was prepared by student teachers. It contains student teachers own articles and some other interesting mathematic facts. It was introduced by Dr.Jessy N C by handover to Dr.Veena Appukuttan.

*We celebrated the following days for the remembrance*

**The National Mathematics Day Celebrations 2018** was conducted by Mathematics department and Mathematics Club (Mathlovers) of our college. This club promotes and engage diff

erent activities of mathematical interest.

As part of organizing “National Mathematics Day 2018” celebrations, the following activities held,

1. State level seminar based on the theme, Atmospheric Science and Mathematics, conducted on 3<sup>rd</sup> August 2018. Prof. K.V George, Prof. in Mathematics, Vimal Jyothi Engineering College, Chemperi, was the resource persons for the seminar.
2. Film show: A film show based on the themes, Mathematics in nature and life and works of Ramanujan was conducted.
3. A Photography Competition was conducted on the theme, Mathematics in nature.

### **OUTREACH PROGRAMMS**

4 Mathematics student teachers got an opportunity to present 2 different papers on two day National seminar ‘TEACHING LEARNING PLATFORM FOR DIGITAL NATIVES ‘ on 27<sup>th</sup>, 28<sup>th</sup> September 2018 at St.Thomas college of teacher education Pala.

<b>PAPER</b>	<b>TEAM</b>	<b>DATE</b>
Techno-pedagogic skills in the 21st century	Dr.Sholy Joseph K Merita Stephen Ayona Vincent	27/9/18
Transformation of pedagogical skills through technologies	Dr.Sholy Joseph K Meenu Stephen Nimitha Jose	27/9/18

### **Intramural activities**

- Ayona Vincent got 2nd prize in football quiz, conducted by department of physical education and awarded with a prize money of Rs 300/.
- Merita Stephen got prize in quiz competition, conducted by physical science department in association with Hiroshima & Nagasaki day observance.



P K M COLLEGE OF EDUCATION, MADAMPAM

DEPARTMENT OF MATHEMATICS

2nd semester classroom activities

2018-2020 Batch

The classes of second semester started on 26<sup>th</sup> November 2018.

***Puzzle presentation:***

Classes were beginning with puzzle presentations by one of student of the class in alternative days.

***Class presentation:***

Five minutes class presentation on any topic in Mathematics was done by any member of the class every day.

***Seminar***

Every student of the class presented seminars on different topics

<b>Name</b>	<b>Pedagogy of school subject BED P 201.7, PART 1</b>	<b>DATE</b>
Anumol Mathew	4.3-workbook	13 <sup>th</sup> March, 2019
Ayona vincent	1.1-1.3:Pedagogical analysis, scope objectives	15 <sup>th</sup> March, 2019
Harsha AT	4.6:Reference book periodicals etc...	28 <sup>th</sup> February, 2019
Jishna kariyil	5.1: concept of test, examination, measurement, assessment and evaluation	13 <sup>th</sup> March, 2019
Meenu stephen	4.5: Mathematics laboratory	29 <sup>th</sup> January, 2019
Merita stephen	1.4: steps in pedagogical analysis	15 <sup>th</sup> March, 2019

Nimitha jose	4.4: Mathematics library	29 <sup>th</sup> January, 2019
Rajina pp	5.2:Evaluation -meaning, process, types and tools	15 <sup>th</sup> March, 2019
Souparnika J	4.1&4.2 Textbook and teachers hand book	1 <sup>st</sup> March, 2019
Sneha p Sebastian	5.3&5.5:Qualities of good test and type of tests, analysis and interpretation o test scores	29 <sup>th</sup> January, 2019

<b>Name</b>	<b>Assessment BED P 202</b>	<b>DATE</b>
Anumol Mathew	13.1,13.2&13.5 -13.8: statistics	29 <sup>th</sup> January, 2019
Ayona Vincent	13.4: measures of variability	14 <sup>th</sup> January, 2019
Harsha A T	Unit10: Assigning grades on the basis of classroom assessment and reporting	<b>5<sup>th</sup> March, 2019</b>
Jishna Kariyil	Unit12: Trends in the assessment of students with disabilities	<b>13<sup>th</sup> March, 2019</b>
Meenu Stephen	13.3: measures of central tendency	<b>26<sup>th</sup> November, 2019</b>
Merita Stephen	Unit1:Examination reform Efforts	17 <sup>th</sup> January, 2019
Nimitha Jose	Unit2:Theoretical foundation of learning and assessment	28 <sup>th</sup> January, 2019
Rajina P P	Unit11:New trends in evaluation	<b>5<sup>th</sup> March, 2019</b>
Souparnika J	Unit8: performance assessment	<b>1<sup>st</sup> March, 2019</b>



Sneha P Sebastian

Unit7:Types of test

29<sup>th</sup> January, 2019

### ***Presentation about mathematicians***

Every student presented about a mathematician on their respective day of remembrance with charts and ppt.

NAME	MATHEMATICIAN	DATE
Anumol Mathew	Rene Descartes	11th February 2019
Ayona Vincent	David Hilbert	23rd January 2019
Harsha A T	Arther Cayley	23rd January 2019
Jishna Kariyil	Perre De Fermat	12th January 2019
Meenu Stephen	John von Neumann	8th February 2019
Merita Stephen	Frigyes Riesz	5th march 2019
Nimitha Jose	George Cantor	11th march 2019
Rajina P P	Laplace	5th march 2019
Souparnika J	Gustav Robert Kirchhoff	12th March 2019
Sneha P Sebastian	Albert Einstein	13th march 2019

### ***Microteaching***

Every student took a 6 minutes class on different topics for practicing different skills and conducted a peer group evaluation.

#### **1. SKILL OF EXPLANATION**

- JISHNA KARIYIL
- NIMITHA JOSE
- HARSHA A T

## 2. SKILL OF QUESTIONING

- ANUMOL MATHEW
- MERITA STEPHEN
- RAJINA P P

## 3. SKILL OF BLACK BOARD WRITING

- SNEHA P SEBASTIAN
- SOUPARNIKA J

## 4. SKILL OF EXPLAINING WITH EXAMPLES

- MEENU STEPHEN
- AYONA VINCENT

### **Year plan**

Year plan helps teachers to organize both curricular and co-curricular activities for an academic year. It helps to assign lessons, assignments, tests for each month. With the help of teacher we prepared year plan of 10<sup>th</sup> standard of Kerala State Board.

### **Unit plan**

Unit plan helps to plan about teaching learning activities for a unit. It helps to assign required no. of periods to cover learning objectives. We prepared unit plan of different units.

### **Lesson plan**

Lesson plan helps to plan learning activities for a class and to decide teaching aids to be used. We prepared 5 discussion lesson plans in this semester.

### ***We celebrated the following days for the remembrance***

#### **National Mathematics Day**

***On 20<sup>th</sup> December 2018 we celebrated National Mathematics Day with a puzzle competition to both students and teachers and a presentation on the topic "Password" by Shebin K Raju, 4<sup>th</sup> semester student in mathematics. Also we distributed the prizes to the competition winners.***

#### **Pie Day**

On 13<sup>th</sup> March 2019 we celebrated PIE DAY (MARCH 14) in association with mathlovers club with a presentation on the topic "Applied math" by Shebin K Raju and we conducted a mathematicians name puzzle

#### **M.ED INTERSHIP PROGRAMME**

Two M.ED trainees Mr. Chikku Chacko and Mr. Mathukutty did their internship in our depart

tment from 11<sup>th</sup> march to 15<sup>th</sup> march.

#### NATIONAL MATHEMATICS DAY PROCEEDINGS PUBLICATION

National mathematics day proceedings was published on 23<sup>rd</sup> November 2018 in our mathematics classroom by handovering the publication to the class representative Ayona Vincent by Dr. Sholy Joseph K

#### ***OUTREACH PROGRAMMES***

4 Mathematics student teachers got an opportunity to present 2 different papers on two day National seminar '***SELF ESTEEM AND MENTAL HEALTH OF TEACHERS: PERSPECTIVES AND CONCERNS***' on 13<sup>th</sup>, 15<sup>th</sup> December 2018 at Govt. Brennen College of teacher education Thalassery.

PAPER	TEAM	DATE
Technology and modern mental health treatment	Dr.Sholy Joseph K Souparnika J Harsha A T	15/12/18
Role of balanced diet and nutritional psychiatry for better mental health in the present scenario	Dr.Sholy Joseph K Anumol Mathew Rajina P P	15/12/18

#### ***Intra mural activities***

- Anumol Mathew got 1<sup>st</sup> prize in English poem writing and 3<sup>rd</sup> prize in embroidery on college arts day competitions & 3<sup>rd</sup> prize in short put on annual college athletic meet.
- Ayona vincent got 2<sup>nd</sup> prize in short put on annual college athletic meet.
- Souparnika J got 1<sup>st</sup> prize in collage making and 2<sup>nd</sup> prize in pencil drawing on college arts competitions.
- Sneha P Sebastian got 2<sup>nd</sup> prize in Marathon, long jump and 100m running on annual college athletic meet.
- Jishna Kariyil got 2<sup>nd</sup> prize in walking and 3<sup>rd</sup> prize in rele on annual college athletic meet and 1<sup>st</sup> in short story writing Hindi, 2<sup>nd</sup> in poem writing Hindi, 3<sup>rd</sup> in essay writing Hindi in arts competitions.

### ***Extra mural activities***

- Souparnika J got 2<sup>nd</sup> prize in poster making competition conducted by peace forum Kannur.
- Anumol Mathew got 3<sup>rd</sup> prize in Kannur university inter BED college Chess Championship 2018-19 held at Keyi Sahib training college Thaliparamba on 8/2/19.
- Volleyball team of P K M college got championship in Kannur university inter BED college tournament held at University teacher education center Wayanad, and Sneha P Sebastian was a team member.
- Jishna Kariyil got 4th prize in walking in inter BED college athletic meet.





**DEPARTMENT OF MATHEMATICS  
2018-20 BATCH**