



P.K.M. COLLEGE OF EDUCATION

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PROGRAMME PORTFOLIO

DEPARTMENT OF PHYSICAL SCIENCE 2021 - 23



P.K.M COLLEGE OF EDUCATION, MADAMPAM
DEPARTMENT OF PHYSICAL SCIENCE, 2021-23 BATCH
FIRST SEMESTER REPORT

‘Well Begun is Half Done’. The activities of the Physical Science Department of P.K.M College of Education for the student teachers of 2021-23 batch had a marvelous start on 3rd November 2021.

An executive committee has been constituted as follows from the 2021-23 batch for the efficient functioning of the department.

Teacher in-charge- Dr. Prasanth Mathew		
Assistant Professor & Vice Principal		
Department of Physical Science		
SI No.	Name of the student/s	Roles assigned
1.	Ann Kurian	Class Leader
2.	Vaishak K, Maneesha P	Technical Assistant
3.	Christeena Raju, Maneesha P	Lab in-charge

COURSE INITIATION CEREMONY

The course initiation ceremony was held on 8th November 2021. As a symbol of course initiation the teacher’s handed over the ignited candles to the students. A brief description about all the teachers, nonteaching staff and college management was given on the same day.



INDUCTION PROGRAMME & BRIDGE COURSE ON ‘TEACHER IN THE NEW NORMAL’

‘Teacher in the New Normal @ PKM’ is a two-year curricular project (2021-2023) undertaken by P.K.M. College of Education, Madampam under Institution Innovation Council (IIC) and Internal Quality Assurance Cell (IQAC) in the context of COVID-19. The curricular project aims to update and elevate the Knowledge, Skill and Attitude of the student teachers in order to make them competent enough to face the new challenging situations. The project focuses on four vital themes: *Coping with Challenges; Transforming with Changing Roles; Equipping with Competences and Seeking for*

Opportunities. In keeping abreast with the fluid times, the college conducted the Induction Programme & Bridge Course for the academic year 2021-23 on the same theme from November 8-11, 2021, flagging off the visionary programme.



- Session 1- **Teacher in the New Normal:**

Coping with Challenges headed by Mr. Nithin Nangoth, Recognised External Mentor

- Session 2- **Teacher in the New Normal: Transforming with Changing roles** headed by Mr. Jayadevan SK, Senior Lecturer, DIET, Kannur and Mr. EV Santhosh Kumar, Lecturer, DIET, Kannur
- Session 3- **Teacher in the New Normal: Equipping with Competences** headed by Mr. Diego Jolly Jacob, Head, On Air Promotion Dept., Surya TV
- Session 4- **Teacher in the New Normal: Seeking for opportunities** headed by Fr. Justin Johns Nellikunnel

SELF-EXPOSITION PROGRAM, ADAMAS 2021

Self-Exposition program of Department of Physical Science was held on 02-12-2021 at 1.30 pm in general classroom. Ann Kurian of the Department of Physical Science, welcomed everyone to the program and briefly explained the theme- 'ADAMAS'. 'ADAMAS' is indestructible building block of diamond. Diamond is precious, strongest and hardest substance on the earth. It serves as the unbreakable symbol of strength. Likewise, ADAMAS will be a driving force for all the activities of the department throughout the year 2021-23.



The program throws light on the influence of online teaching practices during the COVID-19 pandemic in the lives of teachers and students. Department of Physical Science managed to create a classroom atmosphere and the impact of lockdown in children. Niha Pathmanabhan played the role of a teacher very well. The stunning representation of vlog anchoring by Christeena Raju brought novelty to the self-exposition program. Ahana Thomas exhibited her craft works in the classroom. Mandala art by Arya K I is also worth mentioning. Reels performance from Elsitta Jose and Ann Kurian was entertaining and grabbed interest. The melodious solo from Manisha P, mono act by Anand Ravi, artistic yoga performance by Vaishakh K and anchoring by Anjana Chandran added flavor to the program. The programs come to an end by the power packed dance performance by the whole class. Principal Dr. Sr. Jessy N C, Sr. Carolin and Dr. Jomol Jose commented on the program and appreciated the students on their marvelous performance.

TALENT'S DAY

Talent's day **Dhwani 2K21** was conducted on 9th December 2021. Arya K I of Physical Science was selected as the program committee member. All



Physical Science students participated in the program. Arya K I and Niha Padmanabhan, participated in the Thiruvathira. Christeena Raju was one of the members of Anchoring committee and also participated in Group Dance. Ahana Thomas participated in Margamkali and Group Dance. Elsitta Jose participated in Margamkali. Anand Ravi participated in Group Dance. Ann Kurian participated in Mime and Group Dance. Maneesha P participated in Margamkali, Duet Song, Group Dance, Nadanpatt and Ganamela. AnjanaChandran participated in the Group Dance. Vaishakh K operated the sound system for the program. In the end, Arya K I and Ann Kurian gave their view points of the event.

STUDENT'S REPRESENTATION IN DIFFERENT CLUBS

Ahana Thomas - Executive member of Maths club and Tourism club

Anand Ravi- Convenor of Tourism Club

Ann Kurian- Convenor of Bhoomithrasena Club and Executive member of Debate Club

Arya K.I - Executive member of Debate club and Peace Forum

Christeena Raju –Secretary of Debate Club and Executive Member of Tourism Club

Elsitta Jose –Joint secretary of Maths Club and Executive member of Health and fitness Club.

Manisha P- Convenor of Electoral Club

Niha Padmanabhan- Executive member of Folklore club

Vaishakh K –Joint Secretary of Health and fitness Club

URJA KIRAN 2021-22

P.K.M College of Education,
Madampam, Energy
Management Centre, Kerala and
Sathyam Smaraka Vayanashala
jointly conducted Urja Kiran
Energy Conservation program
2021-22 on 4th December 2021,



Saturday at Sathyam Smaraka Vayanashala hall, Alex Nagar Dr.Prasanth Mathew (Assistant

Professor, Physical Science, P.K.M. College of Education, Madampam) acted as Staff Co-ordinator and Physical Science students Mr.Anand Ravi, Ms.Arya.K.I. acted as Student Co-ordinators of the program. The program started at 2 pm with energy awareness class on the topic 'Energy Efficiency and Conservation'. Classes were taken by Mrs.Ashlin Raj (EMC Resource Person) and Mr.Abin Jose (EMC Resource Person) through PPT presentations and videos. After the class doubt clearance was done. The official inauguration program started at 3 pm. Sathyan Smaraka Vayanashala Vice President, Mr. Sunil Kumar welcomed the gathering by presenting them with LED bulbs. Dr. Jessy N C, Principal, PKM College, presided over the function. Irikkur constituency MLA, Adv.Sajeev Joseph officially inaugurated the program. Sreekandapuram Municipality Education and Standing Committee Chairperson Mrs.Thressiamma Mathew addressed the program. P.K.M College student council chairman Mr.Sayooj V V delivered vote of thanks. Lucky winners from the participants were gifted with LED bulbs. Thereafter MLA Adv.Sajeev Joseph inaugurated the signature campaign. Under the leadership of Student Co-ordinator Arya K I, pledge was taken. Then MLA flagged off energy conservation rally. The students of P.K.M College presented a flash mob. Posters and trolls made by students of P.K.M College were also displayed at the event. 45 general public, 5 teachers and 41 students participated in the program.

URJA KIRAN-PERAVOOR CONSTITUENCY-2021-22

Anand Ravi, first-year B.Ed. Physical Science, acted as Observer in the Urja Kiran Program conducted at Peravoor Constituency on 13th December 2021.

NATIONAL ENERGY CONSERVATION DAY

National energy day conservation was observed at the general hall of P.K.M College of education, Madampam on 14th December, 2021 at 9:30 am under the guidance of Dr. Prasanth



Mathew, Assistant Professor, Department of Physical Science and collectively directed by Ms. Ahana Thomas and Ms. Anjana Chandran. The program started with a welcome address by Ms. Elsitta Jose. Student teacher of Department of Malayalam, Mr. Jishnu T P scripted and directed the street play which was performed by all the students of Physical Science department. Under the leadership of Ms. Ahana Thomas and Mr. Vaishakh K the students were introduced to LED construction techniques. The program ended with a vote of thanks by Ms. Anjana Chandran.

CHRISTMAS CELEBRATION

Christmas was grandly celebrated on 23rd December 2021 titled ‘**A December to Remember**’. Our vibrant Christmas papa was Ms. Maneesha P and anchoring was done by Ms. Ann Kurian. All students from various departments actively participated in Christmas card making competition. Students from Physical Science got first prize in



Christmas tree making competition. Ms. Ahana Thomas and Ms. Elsitta Jose won 1st and 2nd prize in mask making competition respectively. In addition, Ahana Thomas and Elsitta Jose got 3rd prize in star making competition. Energetic dance performance by Ahana Thomas, Christeena Raju, and Elsitta Jose is worth-mentioning.

COLLEGE UNION ELECTION AND OATH TAKING CEREMONY

The official declaration and oath taking ceremony of the college union members of P.K.M College of Education for the academic year 2022-23 was held on 28th January, 2022 at College Auditorium. Four students from Physical Science Department were elected to the college union. Mr. Anand Ravi elected as the University Union Councilor, Ms.



Maneesha. P as the Fine arts secretary, Mr.Vaishakh K as the General Captian and Ms. Ann Kurian as the Class Representative of Physical Science.

COLLEGE UNION AND FINE ARTS DAY INAUGURATION - PRAYANA 2K22

Inauguraion of the College Union and Fine Arts Club '**Prayana 2K22**' was held on 14th February 2022 at PKM College Auditorium.

The programme was started at 11.00 am with a prayer song. Ms. Maneesha P the fine arts secretary delivered the welcome speech.

Presidential address was given by College Union Chairman Mr. Hrishikesh Babu.

Renowned musician and teacher Mr.



Unnikrishnan Payyavur was the Chief Guest and delivered the inaugural address. Dr.Jessy N.C, College principal , Fr. Philip Ramachanatt, College Local Manager, Dr. Sholy Joseph, Staff coordinator and Sayooj V.V, Senior Representative give out the felicitation address. Joint Secretary. Mr. Jomal Joy thanked the audience and the programme ended by 1.00 pm. Various cultural programs were held in the afternoon session.

ARTS FEST - IRAMBAM 2K22

The Arts fest for the academic year 2021-2022 '**Irambam 2022**' was conducted on 18th February 2022 at PKM College Auditorium. All the Physical Science students actively participated in both offstage and on stage items.



Individual achievements

Ann kurian - English Recitations - 1st prize

Elocution English - 2nd prize

Anand Ravi - Monoact - 1st prize

Arya. K. I - Kavitha rachana – 2nd Prize

Maneesha. P - Malayalam Recitation - 1st prize

Light music- 3rd prize

Ahana Thomas, Anand Ravi, Arya. K. I, Anjana Chandran, Ann kurian, Christeena Raju, Elsitta Jose, Maneesha P, Niha Pathmanabhan, Vaishakh. K got different prize in different group items.

INTER B.ED. SPORTS COMPETITIONS

P. K.M. College of Education performed well in the various Inter B.Ed. Sports Competitions during the academic year 2021-2022. Students from Physical Science department actively participated in all the competitions and played a crucial role in its success. P. K. M. College of Education won in the Men's Volleyball, Table Tennis, Women's Throwball Competition and secured second runner up in Athletic Meet. Ahana Thomas, Anjana Chndran, Anand Ravi, and Vaishakh K participated in the Inter B.Ed. Badminton competition held at Kuthuparamba Indoor stadium, organized by Crescent College of Education, Madayipara on 22-02-2022. Mannesha P represented the department in both Table Tennis and Throwball Competition and Vaishakh K in Men's Volleyball team.



ANNUAL ATHLETIC MEET

College Annual Athletic Meet was held on 05-03-2022 at Meryland School ground. Students from Physical Science department actively participated in the athletic meet. Anand Ravi got third prize in the shuttle relay; Vaishakh K got second prize in the relay competition. Ms. Anjana Chandran from Physical Science department secured Individual Championship in the Annual Sports Meet.



POST COVID FITNESS TRAINING PROGRAM

Department of Physical Education and Health and Fitness Club of P. K. M. College of Education organized a Post Covid Fitness training program at St. Thomas UP School Perikkaloor on 07-03-2022 and St. Anne's EM School, Vellumunda on 14-03-2022. The program was headed by Maneesha P, Ahana Thoms and Elsitta Jose, students representatives of Physical Science department, under the Zumba trainer Sreejith K, Assistant Professor, School of physical education and Sports Science, Kannur University.



NATIONAL LEVEL WEBINAR AND PAPER PRESENTATION COMPETITION ON 'SCIENCE FOR SUSTAINABLE FUTURE'

As part of National Science Day, Department of Physical Science has decided to conduct a two-day National Webinar on 27th February 2022 and National Level Paper Presentation Competition on 28th February 2022. An organizing committee was selected and the members were Dr. Jessy N.C (Convener), Dr.Prasanth Mathew(Programme Coordinator), Ms.Niha Padmanabhan(Student Coordinator), and Ms.Elsitta Jose(Student Coordinator).

On the first day of programme (27th February 2022), National Webinar was conducted at 3.00pm virtually through google meet platform. The programme started with a prayer. Student coordinator, Ms.Niha Padmanabhan welcomed everyone to the gathering. Dr.Jessy N.C head of the institution, delivered presidential address. Dr.M.K Satheesh Kumar, Visiting Scientist of Manipal Academy of Higher Education inaugurated the Webinar and delivered an inaugural address on the topic "Raman Effect: A Giant Leap for Science in India". The talk was both simple in words and concept so that it effectively reached the participants of different disciplines. The webinar was dealt on Raman Effect and development of Indian science and technology. The webinar also described about history of different scientists and various science institutes of India. An interactive session was held which was very active and live.Presentation of the Technical Session was given by Prof. Kana.M.Sureshan, Dean of IISER Trivandrum. He mainly dealt with the topic "Science and Society". It was followed by an interactive session. The result of preliminary round of paper presentation competition was announced in between the programme.

The programme came to an end with the vote of thanks proposed by Ms.Shyona Stephen. The whole programme was announced and embellished by Ms.Christeena Raju, Ms.Saranya.L and Ms. Aswathy.N.V.

National Level Paper Presentation Competition was held in two stages: preliminary round and final round. 15 selected papers from the preliminary round were presented in the

final round on 28th February 2022, in the Auditorium of PKM college of Education, Madampam. Around 15 Teacher Students presented their paper in the competition. The session was chaired by Mrs. Vismaya, faculty



member of P.K.M College of Education. Dr. Uma Nambiar, renowned academician and Mr. John.P.T, former Librarian of P.K.M College of Education,were the members in the judging panel.A documentary was presented and the programme came to anend with a valedictory session. The programme started with a prayer. Student coordinator, Ms.Elsitta Jose welcomed everyone to the gathering. Dr.Prasanth Mathew, Vice Principal of the institution, delivered presidential address. Valedictory address was delivered by Dr.Uma Nambiar and Mr. John.P.T felicitated over the programme. Ms.Christeena Raju presented the report of the programme and feedback note was delivered by Ms. Karishma Suresh. “Best Paper Award” and “Best Paper Presenter Award” were declared by Dr.Prasanth Mathew. Dr.Jessy.N.C distributed Certificates to theparticipants and Ms.Delna.T.S delivered the vote of thanks. The whole programme was announced by Ms.Rosha.B.Roy.

Participaion Details

Sl. No.	Content	Number
1	No. of participants in National Webinar	101
	1. Student teachers from P.K.M College of Education	90
	2. Student teachers from other Colleges	7
	3. Teachers from P.K.M College of Education	3

	4. Teachers from other institutions	1
2	No. of participants in Paper Presentation Competition	65
	1. Student teachers from P.K.M College of Education	57
	2. Student teachers from other Colleges	8
3	No. of research papers presented	47
	1. From P.K.M College of Education	40
	2. From other colleges	7

Awards

Sl. No.	Award	Name of Student	Institution
1	Best Paper		
	1. Science stream	Anjana. T	P.K.M College of Education, Madampam
	2. Language/Humanities stream	Vishnu Prathap.M	P.K.M College of Education, Madampam
		Alex Baby	P.K.M College of Education, Madampam
2	Best Paper Presenter		
	1. Science stream	Harsha Santhosh	P.K.M College of Education, Madampam
		Elsitta Jose	P.K.M College of Education, Madampam
		Mariza Markose	P.K.M College of Education, Madampam

WOMEN'S DAY

Women's day celebration named '**Athjeevitha**' was held on 8th March 2022 at college auditorium. Various programmes were arranged as a part of women's day. Ms. Christina Raju from physical science department participated in the Miss PKM competition held on 7th march. Mr. Anand Ravi, Ms. Elsitta Jose and Ms. Niha Padmanabhan were participated in the letter writing competition as a part of it. Anand Ravi and Vaishakh K were the food committee

members and Ms. Ann Kurian was the in-charge of various competitions held as part of Women's Day. Also, there was an exhibition named **Pennidam** and the physical science department exhibited charts based on women rights.

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People's Movement for Peace conducted a one-day fasting protest against war, in the context of the Ukraine-Russia War at Mahathma Mandir, Kannur on 10th March 2022. Physical Science students, Mr. Vaishak.K and Mr. Anand Ravi participated in the fasting.

TEACHING EXPERIENCE

Mr. Anand Ravi of Physical Science worked as a guest teacher at Marygiri English Medium School, Podikkalam for one day, ON 15TH MARCH 2022.

INTER-DEPARTMENT COMPETITIONS

The student-teachers of Physical Science actively participated in the Inter Department Competitions conducted by various optionals in the first semester of the academic year 2021-23. Arya K I and Niha Padmanabhan secured 1st prize in the 'Guess me ' competition conducted by Mathematics optional. Christeena Raju and Anjana Chandran competed against many participants to emerge as the winners of online quiz competition jointly organized by Mathematics department and Mathematics club. Niha Padmanabhan unleashed her writing skills to secure a second place in the letter writing competition held as part of the letter writing day conducted by English optional.. Ahana Thomas and Elsitta Jose participated in the star making and mask designing competition and has secured the prizes. Physical Science optional were able to exhibit their team spirit when they raised the first prize in the tree making competition conducted to mark the Christmas celebration of 2021. Elsitta Jose and Saranya L (2nd year student) jointly participated in the Pi day Treasure hunt held by Mathematics optional were they fiercely and intellectually fought against other optional team members to become the champions. Apart from these contests, student-teachers ensured their presence in many competitive fields such as debate, wetland day competition, women's day letter writing contest, and photography competition to showcase and hone their skills.

RESEARCH PAPERS BY STUDENT TEACHERS

(1) **National Level Paper Presentation Competition** organized by **Society of Innovative Researchers and Academicians (SIRA)** for college/university students December 2021

- Title of Paper- **TEACHER IN THE NEW NORMAL: A CURRICULAR PROJECT IN THE POST-COVID CONTEXT**

- Authors- **Dr. Prasanth Mathew¹, Ms. Ann Kurian²**

¹Assistant Professor in Physical Science and Vice Principal, P.K.M. College of Education

²B.Ed. Physical Science, 2021-23 batch, P.K.M. College of Education

(2) Paper submitted for publication in **Edu-TRACE** (A Journal of Educational Researches and field Innovations with ISSN), District Institute of Education and Training (DIET)

- Title of Paper- **TEACHER IN THE NEW NORMAL: CONCEPTUAL MODEL FOR TEACHER EDUCATION INSTITUTIONS**

- Authors- **Dr. Prasanth Mathew¹, Ms. Ann Kurian²**

¹Assistant Professor in Physical Science and Vice Principal, P.K.M. College of Education

²B.Ed. Physical Science, 2021-23 batch, P.K.M. College of Education

(3) **National Conference on NEP 2020: Towards Transforming Teacher Education** organized by **Regional Institute of Education, NCERT Bhubaneswar** on **24th, 25th, 26th February 2022**

- Title of Paper- **TEACHER IN THE NEW NORMAL: CONCEPTUAL MODEL FOR TEACHER EDUCATION INSTITUTIONS**

- Authors- **Dr. Prasanth Mathew¹, Ms. Ann Kurian²**

¹Assistant Professor in Physical Science and Vice Principal, P.K.M. College of Education

²B.Ed. Physical Science, 2021-23 batch, P.K.M. College of Education

(4) **International Symposium on ‘Deliberations on Rethinking the Environment :Sustainability in Modern Era’** organized by **Delhi Metropolitan Education, Noida** on **25th and 26th March, 2022**

- Title of Paper- **CARE OUR EARTH- An Initiative of Teacher Education Institution for Attaining UN SDGs**

- Authors- **Sr.Caroline FCC¹, Ms. Ann Kurian²**

¹Assistant Professor in Malayalam, P.K.M. College of Education

²B.Ed. Physical Science, 2021-23 batch, P.K.M. College of Education

COLLEGE DAY

The college day ‘**Aarattu 2022**’ was held on 23rd March 2022. It was inaugurated by Dr. Francis Karackatt, Principal, Don Bosco Arts and Science College and keynote address was given by Mr. Devikiran. The whole day programme was organized under the leadership of college union. All students from physical science department and other departments actively participated in the cultural events.



FAREWELL

The farewell program for the student teachers of academic year 2020-2022 titled ‘**Kickoff**’ was held on 31st March 2022. A lot of tasks for seniors were arranged through a skit. All students actively cooperated with that and also arranged a secret alley and a video presentation of their college memories. The program ended with festival of love and colours.



P.K.M COLLEGE OF EDUCATION, MADAMPAM
PHYSICAL SCIENCE OPTIONAL, 2021-23 BATCH
SECOND SEMESTER REPORT

The second semester activities of the Physical Science optional of P.K.M College of Education for the student teachers of 2021-23 batch had a marvellous start on 1st June 2022.

An executive constituted for the efficient functioning of the optional in the second semester is as follows:

Teacher in-charge- Dr. Prasanth Mathew Assistant Professor & Vice Principal Department of Physical Science	
Name of the student/s	Roles assigned
Ann Kurian	Class Leader
Vaishak K, Maneesha P	Technical Assistant
Christeena Raju, Maneesha P	Lab in-charge

EMC Resource Person Training Program – 2022

The resource person training program conducted by the Energy Management Centre was held on 28th and 29th April 2022 at the Energy Management Centre campus Sreekaryam, Thiruvananthapuram.

The program was inaugurated by Dr. R. Harikumar, Director of EMC, at 11.00 am. Mr. Subhash, Registrar, EMC, led a class on Energy Scenario and Energy



Conservation. Mr. Johnson Daniel explained the Energy Conservation Act 2001. Mr. Dinesh Kumar AN, Joint Director, EMC conducted the class on ECBC and Initiatives of EMC. Ijaz MA then explained some of the schemes of EMC. Sri. Ashok San gave a talk on Japanese

culture. The first day's program ended at 5.00 pm. After that there was an informal session in which participants got a chance to know each other and express their talents. During that session Maneesha P from P. K. M College of Education, sung a song.

The second day of the program started at 9.30 am and was handled by Energy Technologists Aneesh Rajendran, Thomson Sebastian, Sarath Krishnan, Sandeep K, Anoop Surendran about various schemes of EMC. Famous magician Gopinadh Muthukad was the Chief Guest of the program. 150 people from different districts of Kerala were participated in this program. All participants actively participated in group discussion on EMC schemes and put forward the new ideas and suggestions about the schemes. The two-day resource person training program ended at 4.30 pm on 29th April. Ahana Thomas, Anand Ravi, Anjana Chandran, Ann Kurian, Arya KI, Christina Raju, Elsitta Jose, Manisha P and Vaishakh K Physical Science Optional student teachers of P. K. M College, Madampam were actively participated in this two day training program. Participation certificates were distributed at the end of the program. The identity cards as resource person of EMC, Kerala was sent via post.

Environment Day Observance

The world environment day - GAEA 2022 was celebrated on 6th June 2022 at 2.30 pm on College Auditorium. The department of Natural Science and Bhoomitrasena club cordially observed this day with planting a tree, seed identification and leaf identification competitions and awareness talk. Ann Kurian from Physical Science optional, the convenor of Bhoomithrasena club delivered the welcome speech. The program was inaugurated by Dr. Prasanth Mathew, Vice Principal, P.K. M College of Education, Madampam by receiving plant from Bhoomitrasena club convenor and natural science student. Ms. Anjana Chandran and Ms. Arya K I participated in the leaf identification competition. Ms. Christeena Raju and Ms. Elsitta Jose participated in the seed identification competition.



Report On First Semester Exam

First semester B.Ed. Degree (regular), November 2022 was conducted at P.K.M College of education on following days

Date	Course code	Subject
21-06-22	BED C 101	Psychology of Childhood and Growing Up
23-06-22	BED C 102	Contemporary India and Education
25-06-22	BED C 103	Language Across the Curriculum
27-06-22	BED P 101.9	Understanding the Discipline and Subject-Physical Science

International Yoga Day Celebration-2022

During the second semester, Department of physical education conducted various programmes. The International Yoga Day Celebration was conducted as per govt. rules. Yoga day was celebrated in 2 days, 21st June 2022 & 29th June 2022. Dr. Navaneet V (BAMS, CYF) was the chief guest of the programme. As part of international Yoga day celebration, PKM College of

education conducted inter B.Ed. Yogasana Competition for the B.Ed. Students for Kerala. Various students from all over Kerala participated in the competition. As part of Yoga Day celebration PKM College distribute Yoga mat and jersey for all the students in the college. Maneesha P, Vaishakh K from the physical science optional were the programme co-ordinator for the programmes.

EPC 02 Art And Drama Workshop

The five day EPC 02-Art and Drama workshop named “THOURATHRIKAM” was conducted on the dates of 4th, 5th,7th,11th and 13th August 2022 respectively. Udayan Kundamkuzhy, Shobaraj.P, Biju Niduvloor were the resource persons who handled the classes. All the student teachers of physical science actively participated in the workshop. The representations of the Physical Student optional students are as follows:

- Maneesha.P was the student coordinator of the workshop.
- Anand Ravi delivered the welcome speech on 2nd day of workshop.
- Anjana chandran, proposed the vote of thanks on 5thday of workshop.
- Elsitajose, was the programme coordinator of the first day and she was also anchored the validictory function on 5th day of workshop.
- Ahana Thomas wrote the report on 3rd day of the workshop



Health Fitness Training Programme

On 15th July 2022, conducted one day post Covid physical fitness training programme. The programme was led by Mr. Sreejith K. assistant professor, department of physical education, Kannur University.

Tech Fest Media Workshop

P.K.M College of Education conducted a two-day workshop on ICT. First day offline programme started on 27-07-2022 at 9.30 am in general hall of the P.K.M College of Education. The inaugural session began with a welcome address of Dr. Sinoj Joseph, Assistant Professor in Physical Education. Then Rishikesh Babu, chairman of the College Union delivered the keynote speech. Programme was officially inaugurated by Dr.Rekha K R, Associate Professor in English. The class was moderated by Fr.Sijo Jacob, Director of Red media and well-known resource person in the field of Information and Communication Technology (ICT). Basic ideas about MS Word, MS Power point, MS Excel and Projector handling were discussed in the session. The first-day programme concluded at 4:00 pm. An assignment of preparing PPT was assigned through Google classroom and all of the students submitted it by date. After that, an online google meet session was conducted on 24th August 2022 from 6:30 to 7:30 by Fr.Sijo Jacob. During this session, different principles of photography were discussed.

Folklore Day

As a part of International Folklore day, the Folklore club in P. K. M. College of Education Madampam organized a drawing competition on the topic "Indian Folklore". Ms. Elsitte Jose and Mr. Vaishak K from Physical Science optional were participated in the drawing competition. On 23rd August 2022, a magazine containing these drawings was released by Dr. Jessy N. C, Principal, P. K. M. College of Education, at the general hall.

Report On Second Semester Model Exam

P.K.M. college of education, Madampam conducted second semester B.Ed. degree model exam on following days.

Date	Course code	Subject
26-08-22	BED C 201	Psychology of learning and teaching
27-08-22	BED C 202	Knowledge and curriculum-part 1
29-08-22	BED P 201. 9	Pedagogy of school subject – Physical science
30-08-22	BED P 202.9	Assessment for learning – Physical science



National Sports Day Celebration 2022.

As part national sports day celebration, P. K. M. College of Education conducted various programmes. An outreach programme was conducted at ALPS Kotturvayal on 29th August 2022. 14 students from PKM College of Education participated in the out- reach programme. On 30th August 2022 a webinar was conducted as part of commemoration of birth anniversary of Major Dhyan chand. T V Arunachalam was the resource person for the programme. As part of National sports day celebration conducted an article writing competition was conducted for the students about their favorite sports person.

Teacher's day

Teacher's day was celebrated in P.K.M. College of Education on 31st August and 1st September, titled 'EVERMORE' and conducted in 3 phases. The programs were of both online and offline mode. On 31st August, an honoring for teachers was held in the college auditorium. Video presentation, Experience sharing, Parody song, Lamp lightning and gift sharing were the important highlights of the event. Ms. Ann Kurian, Physical Science Optional was the coordinator of the programme. On the same day, an exhibition was held at the college general hall from 12:30 pm. All the 49 student-teachers were part of this exhibition and contributed their own articles to



the program. The last event was the webinar conducted online mode on 1st September at 6:30 pm. Dr. Kochurani, Associate Professor and Head of the Department (Retired) Bharat Mata College, Thrikkakara was the guest and the speaker of the webinar. The webinar was coordinated by Ms. Elsitte Jose, Physical Science Optional.

Onam Celebration – 2022

As part Onam celebration, P. K. M. College of Education conducted various programmes in two days. Onam Celebration 2022 'Arppoo...Irroo...' was conducted on 31st August 2022 in College Ground of PKM College. The programme was inaugurated by College Fr. Philip Ramachanattu, Local Manager of PKM College of Education. The games conducted as part of the programme are 'Spoon race', 'Kaserakali', 'Thengaakkallan', 'Vallamkali', 'Chaakkilotta',

‘Uriyadi’, ‘Vadamvali’ and ‘Onathallu’. All student teachers have actively participated in the programme. When the celebration ends Team Mont Blanc won first position.

P K M college of education, Madampam celebrated the second day of Onam celebration in the name of "Upperi" on 1/9/2022. National teacher award laureate Radhakrishnan Manikkoth inaugurated the programme. Student teachers prepared a "Pookkalam" in the college. Vanchippattu , malayali manka and purusha kesari competition , onappattu, ‘Maveli’, mega thiruvathira and ‘onasadya’ were the highlights of the programme. All the student teachers of Physical Science Optional marked their active participation in the program.



Inter-Department Competitions

The student-teachers actively participated in the inter department competitions conducted by various optionals in the second semester of the academic year 2021-23. Christeena Raju and Elsitta Jose secured 2nd prize in the ‘Seed identification’ competition and Arya K I and Anjana Chandran participated in the ‘Leaf identification’ competition conducted by both Bhoomithrasena club and Natural Science optional as part of World Environment Day. Ann Kurian competed against many participants to emerge as the winner of essay competition on ‘Statistics in every day life’ organized by Mathematics department. Anand Ravi unleashed his narrating skills to secure a second place in the vocal expression competition held as part of the Basheer commemorating day conducted by Malayalam optional and all the student teachers ensured their participation in the program. Arya K.I and Christeena Raju participated in the Malayali Manka competition conducted as part of Onam celebration. Physical Science optional were able to exhibit their research mentality by participating in the paper presentation conducted at St. Joseph’s College Mysore. Niha Padmanabhan secured second prize in the college competition done as part of Independence day. As part of the National Reading day celebration, Vaishak K participated in the book review competition conducted by Varamozhi

Reading club of Peet Memorial College, Mavelikara. Apart from these contests student-teachers ensured their presence in many competitive fields such as mehandi competition, statistics day essay competition, Suryanamaskar competition, pencil drawing competition organized by folklore club , sports day article writing competition and strop their skills.

P. K. M. College of Education, Madampam

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REPORT

Participation in International Seminar on Higher Education: Emerging Trends, Challenges, and Innovations & One Day Trip

Representatives of P. K. M. College of Education, Madampam participated in the International Seminar on 'Higher Education: Emerging Trends, Challenges, and Innovations' organised by St. Josephs's College of Education, Mysuru in collaboration with International Gandhian Initiatives for Non- Violence and Peace (IGINP) on 28th and 29th of July 2022. The student-teachers who presented papers includes Ahana Thomas, Anand Ravi, Arya K I, Anjana Chandran, Ann Kurian, Christeena Raju, Elsitta Raju, Maneesha P, Niha Padmanabhan, Vaishakh K, Aswathi V, Karishma Suresh, Alen Maria Binny and Jahna T V along with the alumini Anulakshmi P and the faculty Ms. Minimol George.

28th July 2022

The opening ceremony began at 10:00 am with a welcome dance followed by technical sessions of Dr. Jagannath Dange, professor and chairperson of P. G. Department of Education, Kuvempu University, Karnataka and Dr. Jill Carr-Harris, lead coordinator of International Gandhian Initiatives for Non- Violence and Peace (IGINP) on 'Challenges and Emerging Trends of Higher Education' and 'Non-violence and Peace Education in Higher Studies' respectively. The sessions were held at multipurpose hall with the latter being online. Dr. Dange enumerated various challenges faced by higher education while Dr. Harris threw light on the significance of peace in education. Paper presentations of Anjana Chandran, Arya K I and Karishma Suresh took place in the scheduled halls after the talks of resource persons.

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Cultural Exchange Programme

The evening witnessed the student - teachers of P. K. M. College of Education, actively participating in the Culture Exchange Programme jointly organised by St. Joseph's College of Education, Mysuru and P. K. M. College of Education, Madampam. The event aimed to share a slice of the cultures of the states of Kerala and Karnataka through cultural performances to extend academic sessions. The participants exhibited both native dance forms and folksongs along with a brief PowerPoint presentation on an overview on the land of Kerala.

The programme began with a Kerala folk dance performed by Ahana Thomas, Elsitta Jose, Christeena Raju and Maneesha P, followed by *oppana*, a Muslim wedding dance form, showcased by Arya K I, Niha Padmanabhan, Aswathi V, Anulakshmi P and Jahna T V. The presentation was intermittently led by Ann Kurian and Karishma Suresh. The highlight of the Kerala culture exchange session was *margomkalli*, an energetic Christian dance form performed with agility, zest and grace. *Nagapattu*, serpent worship song was sung by all the 14 participants of the college bringing an end to the Kerala culture exchange programme.

The student-teachers of St. Joseph's College of Education performed Bharatnatyam, Kannada folk dance, Coorg dance and Yakshagaana that thrilled the audience to shake their leg and actively join the event. The programme culminated with both the colleges exchanging certificates for student exchange programme and taking a group photograph.

29th July 2022

The second and the final day of the international seminar began with paper presentations at different halls. Ms. Minimol George, Jahna T V, Alen Maria Binny, Maneesha P, Elsitta Jose, Aswathi V and Anulakshmi P presented papers in the morning session while Ann Kurien, Vaishakh K, Niha Padmanabhan, Anand Ravi, Ahana Thoma and Christeena Raju in the noon session. The technical sessions were handled by Dr. K. Thiyagu, assistant professor at Central University of Kerala on 'Techno Pedagogy Skills' and Dr. Sony

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Mary Varghese, assistant professor at Peet Memorial Training College, Kerala on 'Preparing Prospective Teachers for 21st Century Inclusive Classrooms'. The former talk introduced interesting tech based learning activities to make classrooms active while the latter mentioned the necessary qualities of a 21st century teacher. The valedictory function began at 03:30 pm and the curtains of the programme came down at 04:30 pm. Faculty exchange programme was held at the threshold of the college at 05:00 pm between P. K. M. College of Education and St. Joseph's College of Education. At evening, the team along with Ms. Minimol George visited science park in Regional Institute of Education, Karnataka.

30th July 2022

The student – teachers toured the Mysore city visiting the important destinations that represent the historical, cultural and authentic elements of the state. The trip began at 09:00 am hitting the first stop at Ranganathaswamy temple. The entry to the temple was aligned either sides with souvenir shops exhibiting the cultural and commercial products of Mysore. The temple accommodated the believers of all religions representing the spirit of the nation. The next place of worship Jamia Masjid at Srirangapatnam too showcased this characteristic, enabling all people of faith to embrace togetherness. The historical town house the tomb of the first freedom fighter of India Tipu Sultan, who is known for his bravery in resisting the invasion of East India Company. The visit to Tipu Sultan's summer palace and museum exposed the team of 15 student-teachers to the Indo-Islamic architecture and rich treasure of historical artefacts and knowledge. The final destination of the trip was to the majestic Mysore palace to which the team wave goodbye and returned at 06:00 pm.

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P.K.M. COLLEGE OF EDUCATION
SCHOOL ACCLIMATIZATION PROGRAMME

B.Ed. 2021-2023 Batch

11/08/2022 -19/08/2022

Physical Science Optional Report

School Acclimatization Programme is an inevitable constituent of the Kannur University Two Year B.Ed. Curriculum preferably conducted during the second semester of the course. It is beneficial to the student teachers to have a better understanding of schools prior to their teaching practice in the third semester. Student teachers are given opportunities to visit innovative centres of pedagogy and learning- innovative schools/educational resource centres for a period of one week which enables them to get adapted to the school environment. During this period, prospective teachers shall observe classroom transactions but will not deliver any lessons. However, they may take up works as assigned by the teacher educators/ school teachers/ principals or get engaged in the classrooms whenever they are asked to do so. The programme focuses on four different dimensions: *a) School and its environment b) School dynamics c) Teaching learning process d) Understanding of children.* A close scrutiny and successful exploration of the above four mentioned dimensions by the student teachers is much essential to be a constructive teacher in the future.

The ten student teachers of the Physical Science Optional of 2021-23 batch of P.K.M. College of Education opted for ten different secondary schools in Kerala across three districts; Kannur, Kasaragod and Kottayam.

Roll No.	Name of the Student	Name of the school
2133	AHANA THOMAS	Sacred Heart Higher Secondary School, Kannur
2134	ANAND RAVI	GHSS Koyyam, Kannur
2135	ANJANA CHANDRAN	GHSS Maloth Kasba, Kasargode
2136	ANN KURIAN	St.Ephrem's Higher Secondary School, Kottayam
2137	ARYA K I	IMNSGHSS Mayyil, Kannur

2138	CHRISTEENA RAJU	St.Thomas High school, Kottayam
2139	ELSITTA JOSE	Devamatha HS Paisakary, Kannur
2140	MANEESHA P	GHSS Padennakadappuram, Kasargode
2141	NIHA PADMANABHAN	Mattannur HSS, Kannur
2142	VAISHAKH K	GHSS Balla East, Kasargode

During the period of their school acclimatization programme the student teachers make use of the numerous opportunities which include observing classes of the teachers, getting themselves engaged in classes with small games, songs and motivating stories, interaction session with teachers and students. They were also a part of the discipline duty, examination duty, mid-day meal programme, documentation of clubs, coordinated Independence Day programs and various other competitions.

Student teachers made a critical analysis on the classes delivered by the Physical Science teachers in their respective schools. Based on that, it was found out that majority of the teachers make use of the behaviourist approach, lecture method and deductive method for the classroom transactions and it seems to be failure. Demonstration cum group discussion strategy was employed in some schools which came out to be successful as there is an active participation of students. But it can be inferred that due to time constraints as teachers has to covers a lot of portions within a shorten span of time period they are unable to use the above successful strategies and ICT facilities in the classroom, ultimately making the classes boring and ineffective.

COVID-19 pandemic and switching to the online mode of learning has a lasting impact on the learners and has adversely affected their learning process. It is a bitter truth that many are lacking even a basic knowledge on several subjects. To deal with those children, who consider their backwardness and mistakes to their credits, is a cumbersome task. Today's children have a shorter attention span. They are not at all interested in rote learning. They prefer to get engaged in psychomotor activities which is possible during Physical Education hours, work experience and arts. Therefore, here comes a need for the teachers to deal tactfully with the behavioural disorders of the children and at the same time to make their classes effective by making the learners active. Teachers, regardless of their age or years of experience should have a desire to advance in their profession and become better educators. They should be ready

enough to unlearn the old and relearn new knowledge and skills so that they can train their students accordingly in order to meet the future needs of the world. An inability to integrate technology into classrooms and use modified techniques and materials was observed in some teachers. Therefore, various training programmes on online teaching and learning, technological capacity and recent trends should be made available to the teachers.

In short, school acclimatization program was helpful to create a disequilibrium in the student teachers. Teaching as a profession seems to be more challenging in the upcoming years. Teachers who can act responsibly in their workplace in accordance with the situational needs and demands/ contextually can only excel in their field in the future years. Teacher in the new normal should focus on how to grab their student's attention or interest in the classroom as now it matters more and is a prerequisite in order to sustain pupil's attention throughout the class. Invoking a feeling of fear in the students by adopting various means may be helpful to certain extent in order to maintain discipline in the classroom but its effectiveness as a means to capture their interest fails fully. It is therefore much important to design enriched and updated pedagogic strategies to influence the learners and make them active so that they enthusiastically engage in the teaching learning process. Teachers should customize their teaching process according to the learners. School acclimatization programme was helpful to the student teachers to get this insight and prepare themselves by looking out for various innovative strategies prior to their teaching practice to make the learner lively in the classroom.



P.K.M. COLLEGE OF EDUCATION, MADAMPAM
DEPARTMENT OF PHYSICAL SCIENCE, 2021-2023 BATCH
THIRD SEMESTER REPORT

CRITICISM CLASS REPORT

The nine student teachers of Physical Science Optional of P.K.M. College of Education took criticism class as part of their pre- internship program on 26th and 27th September, 2022 at Maryland High School, Madampam. Five student teachers were scheduled to take the classes for the first day; 26th September. As per the scheduled timetable, Ms. Niha Padmanabhan, Mr. Anand Ravi, Ms. Arya K I, Ms. Ahana Thomas and Ms. Ann Kurian took classes in 9A (Malayalam Medium), 8A (Malayalam Medium), 8B (Malayalam Medium), 9C (English Medium) and 8C (English Medium) respectively. Each student teacher was evaluated for their performance in the criticism class by Dr. Prasanth Mathew (Assistant Professor in Physical Science) and their peers. In the afternoon session, constructive criticism for the observed classes were done at class cum method lab (Physical Science Class) of P.K.M College of Education. Constructive criticism was based on the following aspects: Learning Objectives, Organization of Content, Introduction, Structuring of Questions, Communication, Learning Aids, Use of ICT, Innovations and Teacher Effectiveness. The second day, the remaining four students, Ms. Anjana Chandran, Ms. Elsitte Jose, Ms. Christeena Raju and Ms. Maneesha P took classes at 8B (Malayalam Medium), 9B (Malayalam Medium), 9C (English Medium), 9A (Malayalam Medium) respectively. Again, they were constructively criticised by their peers and the teacher at class cum method lab in the afternoon session. A google classroom was set in order to upload all the files related to the criticism class. The student teachers were asked to modify their lesson plan based on the evaluation done and resubmit the modified lesson plans and the rubrics in the google classroom.

Vaishakh K of Physical Science Optional couldn't attend the criticism classes as he was on medical leave.

REPORT: PRE-INTERNSHIP PHASE-2

P. K. M. College of Education, Madampam organized Pre-Internship Phase-2 on 28-09-2022 in Class cum Method Lab - Physical Science. Physical Science student teacher Christeena Raju welcomed the gathering. The interactive session on “Planning and Execution of Science Lessons” was handled by M P Sanil Kumar, Rtd. HST Mambaram H. S.S. Orientation class helped to create a clear understanding among the student teachers about how to make the physics and chemistry lessons of high school classes into activity oriented. Sanil sir shared his experiences on how to make science learning interesting through group discussion and also the importance of implementing value-oriented teaching. Sir clarified the doubts of student teachers. Dr. Prasanth Mathew, Assistant Professor of physical science summarized the section. The program ended at 1.15 pm with a vote of thanks by student teacher Elsitta Jose.



SCHOOL INTERNSHIP

School Internship Programme is an inevitable constituent of the Kannur University Two Year B.Ed. Curriculum preferably conducted during the third semester of the course. It is beneficial to the student teachers to have a better understanding of teaching learning. Internship program in Teacher Education is of great significance because it ensures the professional preparation of prospective teachers. It provides them a practical opportunity to develop true understanding of the teaching profession and future prospects of working conditions in that profession.

Objectives of Internship:

- Learns the skills to transact the subject matter in accordance with the accepted principles of learning and teaching and in tune with the needs and interest of the children.
- Develop required skills to teach in an inclusive classroom
- Use different activity based and stage specific learning methods and strategies in the class rooms.
- Incorporate the components of ICT in classroom transaction.
- Learn about school activities, scheme and programmes and their impact on children.
- Utilize the community resources for meaningful partnership between school and community.

During the Internship, a student-teacher shall work as a regular teacher and participate in all the school activities, including planning, teaching and assessment, interacting with school teachers, community members and children. For each student-teacher, internship should be conducted preferably in one school for the entire 15 weeks. However, if the institute wants to provide an opportunity to understand the context of teaching in a government and private school or the dynamics of teaching at elementary and senior secondary levels, this period can be divided into two blocks. However, internship period should not be reduced for the 'delivery' of a certain number of lesson plans, but should aim at meaningful and holistic engagement with learners and the school. School Internship should be designed for interns to teach for 5 days per week for a minimum period of 16 weeks, including an initial phase of observing a regular classroom. The intern will necessarily have supervisory support from the faculty in the form of subject supervision, who may also be supported by general teachers. The intern will be required to develop unit plans for which she must choose and design appropriate activities. The minimum number

of lessons to be delivered is 60 at two levels excluding Physical and Health Education classes. If a student practices teaching at different levels (upper primary, middle level, secondary and senior secondary) during the internship period, the minimum number of lessons to be delivered in a level should not be less than 15. A record of these plans must be maintained. The intern is also expected to maintain a daily reflective journal *(Reflective Daily Diary) in which the intern will reflect on his/her practice and also attempt to draw linkages between pedagogy and the theory courses she/he has studied.

The ten student teachers of the Physical Science Optional of 2021-2023 batch of P.K.M. College of Education opted for five different schools in Kannur district. The school internship programme has started on 1st October 2022 and ended on 31st December 2022.

Register No	Name of the student teacher	Name of the school
PM21EDPS01	Anand Ravi	IMNS GHSS Mayyil
PM21EDPS02	Vaishakh K	Maryland HSS , Madampam
PM21EDPS03	Ahana Thomas	GHSS Sreekandapuram
PM21EDPS04	Anjana Chandran	GHSS Irikkur
PM21EDPS05	Ann Kurian	GHSS Sreekandapuram
PM21EDPS06	Arya K I	IMNS GHSS Mayyil
PM21EDPS07	Christeena Raju	GHSS Sreekandapuram
PM21EDPS08	Elsitta Jose	GHSS Nedungome
PM21EDPS09	Maneesha P	GHSS Irikkur
PM21EDPS10	Niha Padmanabhan	GHSS Irikkur

INTELLECTUAL PROPERTY RIGHTS AWARENESS PROGRAMME

The programme was held on 6th December 2022. All students of Physical Science optional participated in the programme.

LIST OF PARTICIPANTS:

SI No.	Name	Phone No.	Email
1	Ahana Thomas	9447384970	ahanathomasc@gmail.com
2	Anand Ravi	9495706254	anandravikk@gmail.com
3	Anjana Chandran	7591910712	anjanachandrancv@gmail.com
4	Ann Kurian	8281873557	annkurian811@gmail.com
5	Arya K I	9947128478	aryanarath005@gmail.com
6	Christeena Raju	9562831909	chrisraju98@gmail.com
7	Elsitta Jose	8281728144	elsittajose15@gmail.com
8	Maneeshā P	6238925805	maneeshapmavila@gmail.com
9	Niha Padanabhan	9747807946	niha121298@gmail.com
10	Vaishakh K	8606016287	vaishakhkouvai327@gmail.com

URJAKIRAN – SEMINAR

Venue: St.Alphonsa Church, Mundannur

Date: 08/01/2023

Time: 4.30 PM

Objective

- To create an awareness on ‘energy conservation’ among people
- To develop skills of student teachers through organizing outreach programmes

Programme

‘Urjakiran’ is a programme organized in collaboration with Energy Management Centre (EMC) -Government of Kerala and Centre for Environment and Development – Government of India. As part of Urjakiran programme, P.K.M College of Education conducted a Seminar on the topic ‘Lifestyle and Energy Efficiency’ on 8th January 2023 at Parish Hall, St.Alphonsa Church, Mundannur.

The programme was inaugurated by Adv.Sajeev Joseph, M.L.A of Irikkur Constituency. Dr.Jessy N.C, Principal of PKM College of Education, delivered the presidential address. Fr. Amal Tomy, Mr. Biju Arakkal, Dr.Prasanth Mathe(Vice Principal, PKM College of Education), Ms.Anjana Chandran (Student Coordinator Of the Programme) were present at the event.

Classes on the topic were taken by E.M.C Resource persons Ms. Ann Kurian, Ms. Arya K I and Mr. Anand Ravi. Around 85 people participated in the programme. Distribution of LED Bulbs were also a part of the programme. Programme ended at 6.30 pm.



PRACTICAL EXAMINATION 2021-23 BATCH

The practical examination of 2021-23 Physical Science batch of P.K.M. College of Education, Madampam was held on 30th and 31st of January 2023. The practical classes of all students were completed on 30th January 2023 at Maryland High School, Madampam. The viva section of each student was held on 31st January 2023. Here is the list of student teachers and their topics which were selected for the practical examination lesson plans.

Sl. No	Name of Student Teacher	Topic
1.	Ahana Thomas	Liquid Pressure
2.	Anand Ravi	Boyle's Law
3.	Anjana Chandran	Newton's first law of motion
4.	Ann Kurian	Neutralization reaction
5.	Arya K I	Newton's third law of motion
6.	Christeena Raju	True solutions, colloids and suspension
7.	Elsitta Jose	Refraction of light
8.	Maneesha P	Reaction of metal with water and acids
9.	Niha Padmanabhan	Centripetal force and Centrifugal force
10.	Vaishak K	Buoyancy



**DEPARTMENT OF PHYSICAL SCIENCE
2021-23 BATCH**