



P.K.M. COLLEGE OF EDUCATION

MADAMPAM, KAITHAPRAM PO, KANNUR-670631, Website-www.pkmcollge.org Govt. Aided Teacher Education Institution affiliated to Kannur University Recognized by NCTE and included under UGC 2(f) & 12B category Accredited by NAAC with 'A' Grade, RUSA 2.0 beneficiary

PROGRAMME PORTFOLIO

DEPARTMENT OF PHYSICAL SCIENCE 2022 - 24



P.K.M COLLEGE OF EDUCATION, MADAMPAM



DEPARTMENT OF PHYSICAL SCIENCE REPORT OF FIRST SEMESTER - 2022-24 BATCH 14th September 2022 to 27th January 2023

“Education is not the learning of facts, but the training of mind to think”

-Albert Einstein

Semester Objectives:

- Understand the nature significance and scope of physical science.
- Understand science as both process and product. Facilitate development of scientific attitude and scientific aptitude in learners.
- Aware of the various instructional strategies and curricular approaches in teaching physical science.
- Understand scientific method of enquiry.
- Achieve mastery over the methods technique's contents of physical science for transacting.
- Appreciate the fact that every child possesses curiosity about his/her natural surroundings.

The activities of the Physical Science Department of P.K.M College of Education for the student teachers of 2022-24 batch had a tremendous start on 14th September 2022.

Sl. No	Name of the student	Educational Qualification	Institution Last Studied	Hostel/Day Scholar/Paying guest
1.	Akshay Sukumaran	B.Sc. Chemistry	S.E.S College, Sreekandapuram	Day Scholar
2.	Anitta Roy	M.Sc. Chemistry	Stella Maris College, Chennai	Hosteler
3.	Anju T Mathew	M.Sc. Physics	Nirmalagiri College, Kuthuparamba	Paying guest

4.	Ann Maria Raju	M.Sc. Chemistry	St. Joseph College, Autonomous, Trichy	Hosteler
5.	Anusha V	M.Sc. Physics	Payyanur College	Day Scholar
6.	Christy Philip	M.Sc. Applied Physics	CMS College, Kottayam	Hosteler
7.	Divya K.S	M.Sc. Chemistry	Alva's College, Moodubidri	Day Scholar
8.	Drishya P.P	M.Sc. Chemistry	Central University of Kerala, Periya	Day Scholar

Eight student teachers were given various roles and responsibilities for the structured functioning of Department of Physical Science.

Teacher in-charge			
Dr. Prasanth Mathew			
Assistant Professor in Department of Physical Science			
Sl. No	Name of the student/s	In Charge	Responsibilities
1.	Ms. Ann Maria Raju Ms, Divya K. S	Academic Activities	<ul style="list-style-type: none"> ▪ Maintaining class reports ▪ Leading class discussions ▪ Managing study groups
2.	Ms. Anju T Mathew Ms. Anusha V	Extension Activities	<ul style="list-style-type: none"> ▪ Managing “Urja Kiran” activities such as rally, signature campaign and seminars
3.	Ms. Anitta Roy, Ms. Christy Philip	Research Activities	<ul style="list-style-type: none"> ▪ Coordinating National Seminar, Paper presentations. Research activities
4.	Mr. Akshay Sukumaran Ms. Drishya P. P	Technical Activities	<ul style="list-style-type: none"> ▪ Managing technical writings such as brochure, banner, tag, programme charts ▪ Setting up audio and video records

COLLEGE LEVEL PROGRAMMES

ORIENTATION & BRIDGE PROGRAMME (2022 – 24 Batch)

(19th and 20th September 2022)

A Two-day Orientation and Bridge Programme has been organized by the Internal Quality Assurance Cell of P.K.M. College of Education on 19th and 20th September 2022 for the 2022-24 batch. Through this programme an Institutional Overview has been provided to the students by Dr. Jessy N.C, Principal of the college. An overall image about the Institutional Goals has been given by Dr. Veena Appukuttan, IQAC coordinator. Dr. Sholly Joseph. K, Assistant Professor in Mathematics provided an outline about the 2-year B. Ed programme. The Digital Platform Setting has been taught to the students by Dr. Prasanth Mathew, Assistant Professor in Physical Science. Pre- Assessment of Teacher Aptitude has been conducted by Mrs. Jomol Jose as a part of the programme. Pedagogic orientation has been given by all the subject teachers and subject competency test was also conducted.



COURSE INITIATION CEREMONY

(22nd September 2022)

P.K.M. COLLEGE OF EDUCATION
Accredited by NAAC with A Grade|Affiliated to Kannur University|Approved by NCTE
RUSA 2.0 Beneficiary, Included under UGC 2(f) & 12(B) Category
Kaithapram, Madampam, Kannur - 670631

TEACHERS
encourage
minds to Think
hands to Create
& Hearts
to Love

COURSE INITIATION CEREMONY - 2022
On
22 September 2022
Time : 10.30 am
Venue : College Auditorium

Inaugural Address

Presidential Address

Blessing Note

Dr.Jessy N C
Principal

Rev.Fr.Joy Kattiyankal
Pro Manager

Rev.Fr.Philip Ramachanattu
Local Manager



The 2022-2024 batch students were given a course initiation ceremony on September 22 at 10.30 AM. During the introductory speech, college Pro-Manager V. Rev. Fr. Joy Kattiyankal lit the lamp to officially start the programme. The professors then read passages from the Holy Bible, Holy Quran, and Srimad Bhagavat Gita. Following that, the college's pro-manager, Rev. Fr. Joy Kattiyankal, lit the candle, and the college's principal, Dr. Jessy N.C., occasionally did the same. The principal then lit a candle in each of the teaching faculties. All of the pupils had their candles lit by the concerned teaching staff. The candles were presented in front of the stage after the oath taking ceremony. A brief description about all the teachers, nonteaching staff and college management was given on the same day.

FRESHERS' DAY PARTY 2022

(22nd September 2022)



Freshers Day 2022 was celebrated at the P.K.M College Auditorium on 22nd September 2022, at 1.30 pm, and was named "MELCOW" by second-year student teachers to welcome the first-year student teachers. The programme started out with the unexpected ramp walk entry of the first-year student teachers. For freshers, it was in fact a wonderful experience.

STUDENT INDUCTION PROGRAMME 2022-24

(26th - 29th September 2022)

TEACHER
BEYOND THE NEW NORMAL

P.K.M. COLLEGE OF EDUCATION
MADAMPAM, KALTHAPRAM, KANNUR, 670631
Accredited by NAAC with 'B' Grade (Revised Cycle), PCIAT Index: 8084.3, Membership: QAC/38, A, 100% College

B.ED. PROGRAMME 2022-2024
STUDENT INDUCTION PROGRAMME
23-09-2022 to 28-09-2022

TEACHER
BEYOND THE NEW NORMAL

Day 1 - 26 September 2022
Mr. NITHIN NANGOTH
INTERNATIONAL CELEBRITY MENTOR
NEXT GENERATION COACH
SPIRITUAL AND SOCIAL ORATOR

Day 2 - 27 September 2022
Mr. PRADEEPAN MALOTH
COUNSELLOR/Psychotherapist/
Soft Skill Trainer

Day 3 - 28 September 2022
Mr. BIJU KK
Senior Civil Police Officer
District Special Branch

Day 4 - 29 September 2022
Mr. MANOJ KURIAKOSE
HSST English, Marygirl English
Medium School, Sreekanthapuram

Day 5 - 30 September 2022
S.K. JAYADEVAN
Senior Lecturer
DIET Kannur
SANTHOSH KUMAR EV
Lecturer
DIET Kannur

IN ASSOCIATION WITH
ALUMNI ASSOCIATION
PKM COLLEGE OF EDUCATION

ORGANIZED BY
INTERNAL QUALITY
ASSURANCE CELL

The Student Induction Programme for the 1st year B.Ed. students (2022-2024) was commenced on 26th, 27th, 28th and 29th of September 2022 at P. K. M. College of Education, Madampam under Institution Innovation Council (IIC) and Internal Quality Assurance Cell (IQAC). The underlying motive of the sessions was to mould us with various qualities and skills that a teacher should own in this new normal era such as technical skills, flexibility, integrity, showing equality within the students, optimum utilization of resource, having empathy to the fellow beings, decision making, coordination, co-operation etc., and to equip us with competence. The sessions were handled by illustrious resource persons.

- ❖ Session 1 – **Coping with challenges** headed by Mr. **Pradeepan Maloth**, Counsellor, Psychotherapist and Soft Skill Trainer.
- ❖ Session 2 – **Equipping with competencies** handled by Mr. **Biju KK**, Civil police officer and a social worker
- ❖ Session 3 – **Confidence building** headed by Mr. **Manoj Kuriakose**
- ❖ Session 4 – **Transforming with Challenging Roles** handled by Mr. **S. K. Jayadevan**, Senior lecturer, DIET Kannur & Mr. **Santhosh Kumar**, Lecturer, DIET Kannur
- ❖ Session 5 – **Seeking for Opportunities** headed by Mr. **Nithin Nangoth**, recognised international celebrity mentor.

SI No.	Name of the Student teacher	Responsibilities
1	Akshay Sukumaran	Technical Session
2	Anitta Roy	Student Co-ordinator Day-5
3	Anju T Mathew	Newspaper Report of Day -3
4	Ann Maria Raju	Student Co-ordinator Day -5
5	Anusha V	Student Co-ordinator Day-4
6	Christy Philip	Student Co-ordinator Day-1
7	Divya K S	Newspaper Report of Day-2
8	Drishya P P	Student Co-ordinator Day -2



COLLEGE FACILITY VISIT

(29thSeptember 2022)

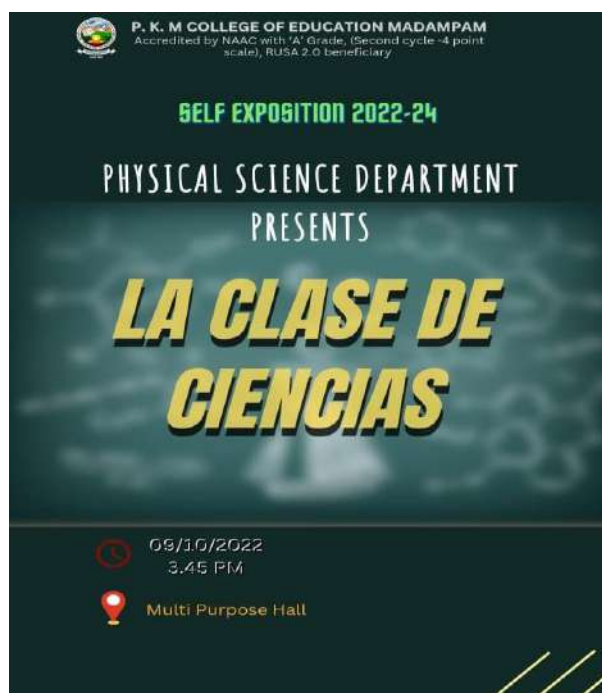
A facility visit was organised by P.K.M College of education, Madampam on 29th September for the 2022-24 Batch. The main aim of this programme was to make the students familiar with the facilities available in the campus so that they can make the best use of it.



SELF EXPOSITION- “LA CLASE DE CIENCIAS”

(07th October 2022)

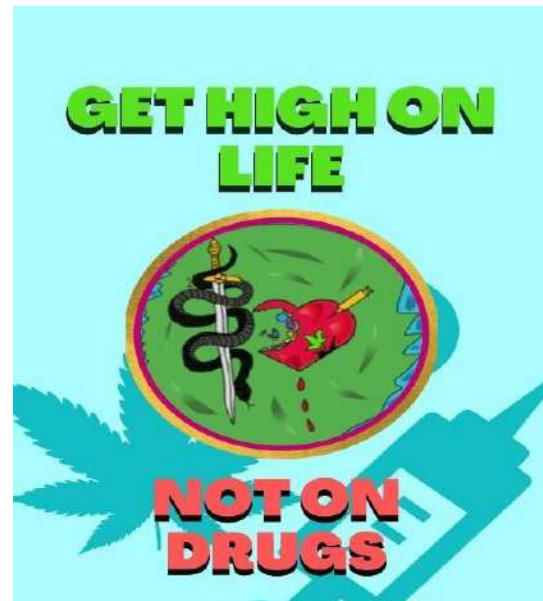
Dept. of Physical Science



The self-exposition programme was conducted on 7th October 2022 by Physical science department. This programme was conducted to know about each student of each class i.e., it is the way of self-introduction through different creative ideas. Ms. Anju T Mathew delivered the welcome address. In the first session, each student self- introduced in different ways. They created a class room appearance then, demonstrated Newton’s first and third laws of motion and universal laws of gravity. At the end of the session, they played daff mutt and introduced ganamela for concluding the session.

YODHAVU-ANTI DRUG CAMPAIGN

LOGO MAKING & E-POSTER MAKING COMPETITION



E-poster of Physical Science

In line with Kerala Police's " Yodhav " the anti- drug awareness committee of P.K.M College of Education ,Madampam conducted a logo making and E- poster making competition. Physical science department took part in the competition to create the best logo.

ORIENTATION AND INTRODUCTION TO ADD ON COURSE IN RESEARCH IN EDUCATION

(21st October 2022)

Research and Extension Committee of PKM College of education arranged an Orientation and Introduction to add-on-course 'Research in Education' on 21st October 2022 at 10:40 am at College Multipurpose Hall. Dr. Prasanth Mathew (Assistant professor in Physical science) introduced the course to the student teachers and orientation class were held. Twenty student teachers from various departments came forward for joining the course. In the add-on course, there were eight students from the department of physical science.



TALENT DAY 2K22 (2022-23)

(28th October 2022)



The Talent Day (TATTAKAM 2k22) program conducted by the B. Ed students of PKM College of Education 2022-2024 was held on Friday 28/10/2022 at the college auditorium. Various programs of student-teachers were electrifying. Food Exhibition (THATTIKKOOTT KADA) and Talent Exhibition (SARGALAYA) were also organized on Talent Day. Students of department of physical science were active participants in different programmes.

SI No.	Name of the Student teacher	Participation	Responsibilities
1	Akshay Sukumaran	Hindi Recitation, Comedy Skit, Mime, Group song	Technical Session
2	Anitta Roy	Group Dance, Purathana pattu, Comedy Skit	Food Exhibition
3	Anju T Mathew	Presentation, Vanchipattu, Comedy Skit, Deshabakthiganam	Food Exhibition
4	Ann Maria Raju	Group Dance, Comedy Skit, Purathanapattu, Vanchipattu, Deshabakthiganam	Food Exhibition

5	Anusha V	Solo Song, Chain Song, Deshabakthiganam, Vanchipattu	Food Exhibition, Student Co- Ordinator
6	Christy Philip	Group Dance, Comedy Skit, Purathanapattu	Talent Exhibition
7	Divya K S	Solo Song, Chain Song, Solo Dance, Thiruvathira	Talent Exhibition
8	Drishya P P	Thiruvathira, Malayalam Recitation, Deshabakthiganam, Mappillapattu	Talent Exhibition



UNION AND FINE ARTS CLUB INAGURATION (23rd November 2022)



Union and fine arts club inauguration was held at P.K.M. College of Education, Madampam on 23rd November 2022 at college auditorium. The renowned Malayalam Poet and Retired Associate professor, Mr. Veerankutty inaugurated the union and fine arts club by lighting the lamp. Student teachers of physical science were active participants in various cultural programmes.





**ONE DAY NATIONAL SEMINAR ON
BUILDING PEACEFUL AND JUST SOCIETY
(25th November 2022)**



Institute of Parliamentary Affairs, an Autonomous Institution of Government of Kerala and P.K.M College of Education, Madampam jointly organised a one-day National seminar on “Building Peaceful and Just Society: Role of Democracy, Social Justice and Religious Harmony” on 25th November 2022, Friday at College Auditorium. The aim was to face the New Normal era by understanding the role of democracy, social justice, religious and social harmony in building a peaceful and just society. Irikkur Constituency MLA, Advocate Sajeev Joseph inaugurated the function by flying a pigeon as a symbol of peace protection. There were two technical sessions handled by Mr. Sabu Thomas and Adv. Mujeeb Rahman (Taliparamba, Special Fast Track POCSO Court Judge). The eight student teachers of department of physical Science presented the paper and got certificates.

Name of the student	Title of the Paper
1. Akshay Sukumaran	Different strategies and techniques for fostering scientific temper among primary school children.
2. Anitta Roy	A comparative study of life skills of school students: Post Covid Era.
3. Anju t Mathew	Moving Beyond the Families in Modern Era: Broadening Our Understanding of Family Conflicts.
4. Ann Maria Raju	Moving Beyond the Families in Modern Era: Broadening Our Understanding of Family Conflicts.

5. Anusha V	Different strategies and techniques for fostering scientific temper among primary school children.
6. Christy Philip	Fostering sense of social responsibility: A Discussion
7. Divya K. S	Does Democracy Change to Corruption Discuss?
8. Drishya P. P	Does Democracy Change to Corruption Discuss?



GLOBAL PEDAGOGIC SYSTEM AND CAREER OPPORTUNITIES FOR NEXT GENERATION TEACHERS

(08th December 2022)

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Accredited by NAAC with 'A' Grade, MBA & D Excellence

GLOBAL PEDAGOGIC SYSTEMS AND CAREER OPPORTUNITIES
for
NEXT GENERATION TEACHERS
INTERNATIONAL INTERACTIVE SESSION
with

Mr. PRASAD PETER
Experienced Senior Teacher
Teacher Mentor/Classroom
Profiler / Instructor Coach
Education Queensland
AUSTRALIA



Mr Prasad Peter is an alumnus
of P.K.M. College of Education
(2001-2002 BEd English)

December 8, 2022
2 pm to 4 pm
&
LAUNCHING OF
CONNECT CAREER TO CAMPUS FORUM
(Under the 'Connect Career to Campus' project of Kerala,
Knowledge Economy Mission, Government of Kerala)

Organized by
Placement Cell
under the aegis of IOAC

Organizing Committee
Dr. Jesse R. C., Principal
Dr. Veeva Appukuttan - IOAC
Dr. Rakha R. S. - Placement Cell
Dr. Prasanth Mathew - Alumni Association

In association with
Alumni Association
P.K.M. College of Education



International attractive session on global pedagogic system and career opportunities for next generation teachers on 8/12/2022 PKM College Alumni, experienced teacher, and classroom profiler Mr. Prasad Peter conducted the section. He was a teacher in Queensland, Australia and talked about different teaching methods and career opportunities. It was very useful for us to think about the career development.

EPC WORKSHOP 2022-2024

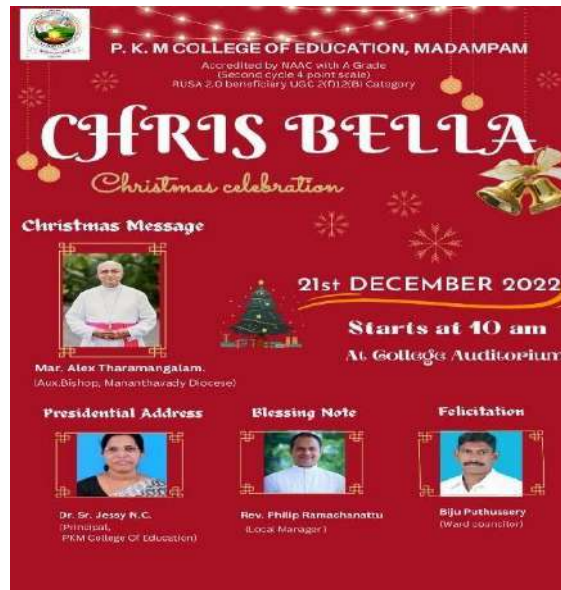
(19th December 2022)

PKM College of Education, Madampam 2022 -24 batch EPC workshop was organized on 15th, 16th and 19th December 2022 at college auditorium. Dr. Rekha K.R, Associate Professor and Head of English Department was the in-charge of EPC and coordinator of the workshop. The main objective of this workshop was to create a general understanding of the various discourse forms in the language among the student teachers in view of the course Reading and reflecting on texts. Dr. Prasanth Mathew, the department head of physical science, led the third day of the EPC workshop on the subject of "Graphic Organizers.". He emphasised the importance of being a graphic organizer and using graphics for a superior teaching – learning process.



CHRIS BELLA 2k22 (2022-24)

(21st December 2022)



P.K.M College of education, Christmas program *CHRIS BELLA 2022* was conducted on 21 December 2022 at College Auditorium. College of education, Christmas program *CHRIS BELLA 2022* was conducted on 21 December 2022 at College Auditorium. Mar Alex Tharamangalam (Auxiliary Bishop, Mananthavaady Diocese) inaugurated the function and delivered Christmas message to all. He said that “Men are not thinking nowadays.” Fifty student teachers together sang Carol. Christmas gift exchange took place in the afternoon session.





DEPARTMENT OF PHYSICAL SCIENCE

THREE DAY PANEL DISCUSSION

“SCIENCE IS WHAT SCIENTISTS DO”

(14th, 17th & 18th December 2022)



Day 1:

The Physical Science department of PKM College of Education, Madampam, conducted a Panel Discussion on the topic “**Science is what Scientists Do**” on 14/10/2022 at 1.30 pm. Ms. Anusha V (2022-2024 batch) served as the program host. Ms. Ann Maria Raju gave the opening remarks. Dr. Prasanth Mathew presented the theme of the discussion as he welcomed everyone. The panelists were Mr. Nived C M (M Ed Scholar, School of Pedagogical Sciences, Kannur). Mrs. Manjusha K (M Ed Scholar, School of Pedagogical Sciences, Kannur) Mrs. Anusree C K (M Ed Scholar, School of Pedagogical Sciences, Kannur University).

What is science? Was the opening question posed by Dr. Prasanth Mathew, Head of the department in the physical science who moderated the panel discussion. One of the panelists, Ms. Manjusha, provided a brief explanation of the question. According to her, “Science is a corpus of knowledge, and we are its product.” Based on this assertion, Dr. Prasanth Mathew made the claim that students in science classes are essentially becoming mini scientists. Following it, the topic of discussion was the origin of scientists. The second panelist, Mr. Nived, made a comment to the effect that “curiosity is the driving factor that leads to all discoveries.” Some of the attendees, though, took issue with that. They claimed that “curiosity” and “necessity,” two motivating factors, are what lead to discoveries. Finally, they concluded that “necessity” will lead to inventions and “curiosity” will lead

to discoveries. This suggests that there are two categories of scientists: discoverers and inventors. The final panellist, Ms. Anusree, described how scientists come up with tentative or untentative answers to problems through a process that includes observation, hypothesis creation, and either temporary or permanent solutions then to answers.

The first panel discussion day was then finished with the query “What is the scientific methodology?” Ms. Anitta Roy proposed a vote of gratitude at the conclusion of the debate.

Day 2:

The second day of panel discussion was started with a welcome speech by Ms. Drishya P. P. The moderator, Dr. Prasanth Mathew, started the discussion with a question about whether questions, problems, and issues are the same or different on 17th October 2022.

The participants said that, "There are solutions for each problem, but there is no solution for an issue, but sometimes the solutions for issues are responsible actions." Further discussion leads to types of research. There are many types of research, including basic research, applied research, analytical research, quantitative research, qualitative research, etc. However, the main two views are basic research and applied research. In basic research, research is based on fundamental things. Therefore, new theories are developed by scientists from questions. The methodology of basic research is as follows:

Data \longrightarrow patterns \longrightarrow hypothesis

In applied research, the research is based on the theories that have developed from basic research, i.e., scientific truths are used. The methodology of applied research is as follows,

Theories \longrightarrow hypothesis \longrightarrow data \longrightarrow confirmation of theory. This type of research will lead to concepts. Based on these two pieces of data, we can distinguish scientific methods into basic research and applied research. From this, we can say that basic research is based on curiosity, which leads to discoveries, i.e., each scientific truth is a discovery. And in the same way, applied research is based on necessity, which leads to inventions, i.e., each invention are concepts. The next question was, what scientists and philosophers do? Whether both are the same? After discussion on these questions, some of the panellists and participants concluded that scientists use both logical and technical processes, and that it is a hands-on process, i.e., it is an empirical method. And philosophers are those who use logic only. It is a mind-on process, i.e., it is an analytical method. However, some scientists, like Isaac Newton, Aristotle, etc., are also philosophers. Then the discussion went through whether science and technology are interrelated. This leads to the conclusion that both science and technology are related because technology is a continuation of science. In technology, they are using the theories that were discovered through basic research. The further discussion was on six types of thinking, which are: reasoning, concept formation, critical thinking, creative thinking, problem solving, and discussion making.

The discussion concluded with the concept that there are naturalistic observations and artificial observations, i.e., basic research is based on naturalistic observations and applied research is based on artificial observations. At the end of the discussion, a vote of thanks was proposed by Ms. Divya K. S.

Day 3:

Physical science department of PKM College of Education (2022-2024 batch) On October 18, 2022, at 1:30 pm, we held the concluding session of our panel discussion on the subject "Science is what Scientists do" in the physical science classroom. Dr. Prasanth Mathew served as the discussion's moderator (Head of the department of Physical Science).

The moderator made the point that nature and the human mind are structured. What do scientists do? was appropriately addressed by sir. They do investigate the natural world. Then he talked about the three "i"s of nature: interdependence, interrelationships, and interconnections. Then we discussed the need to structure developed knowledge, that is, to organise, analyse, and synthesise it. We then clearly understood that facts are discrete and concepts are broad ideas. Psychological point of conceptualization is viewed via the lenses of sensation, perception, abstraction, and generalisation. Gestalt theory is typically how we understand perception. Through obtaining, organizing, analysing, and synthesising data we will get some insights. The four components of concepts—examples of concepts, attributes of concepts, definitions of concepts, and names—were then the subject of our discussion. The four components of a notion, from a scientific standpoint, are scientific facts, scientific attributes, scientific definition, and scientific name. Then, sir emphasised the point that concepts, laws, theories, and principles are forms of conceptual knowledge. The moderator stated that empirical questions will provide empirical answers through basic research, which will produce scientific data that need to be organized, analysed, and synthesised. Similarly, concepts are formed from analytical answers through applied research. Then, sir discussed the four categories of knowledge: factual, conceptual, procedural, and metacognitive. Then, we talked about the laws, concepts, principles, theories, and facts that are the products of science. By 2.30 pm, the vote of thanks proposed by Ms. Anju T Mathew brought the discussion to a close.

The major outcomes of the three-day panel discussion on "Science Is What Scientists Do" were;

- ❖ The motivation behind inventions is necessity, while the motivation behind discoveries is curiosity.
- ❖ Inventions are built on discoveries.
- ❖ Technology and science are interconnected.
- ❖ Science is continued and applied through technology.
- ❖ Empirical (Hands-on) questions will yield empirical answers through empirical processes (basic research) which will result in scientific facts, and analytical (minds on) questions will yield analytical answers through analytical processes (applied research) which will result in concepts.
- ❖ Basic and applied research are the two categories of research. The basic and applied research rely on the theory's location. i.e., if theory is the foundation, it is applied research and if theory lies the last it is basic research.
- ❖ Facts are real and discrete while concepts are broad ideas.
- ❖ Empirical questions arise from observation and analytical questions via thinking process.
- ❖ Four components of scientific concepts are scientific facts, scientific attributes, scientific definitions, and scientific name.

- ❖ The scientific facts obtained should be organized, analysed, and synthesized.
- ❖ Facts, theories, principles, laws, and concepts are the product of science.



SCIFARI 2022- INTERNATIONAL SCIENCE DAY CELEBRATION

(10th November 2022)



On November 10 ,2022 “SCIFARI -2022” was hosted by department of Physical Science at P.K.M College of Education, Madampam in honour of “World Science Day”. We mainly ran three activities, Brain Rain (Puzzle Crossword), Spy Science (Identify the scientific terms) and Sci-Land (Doodle Art). We have got active participation from the teaching staffs and the student teachers. Brain Rain and Spy Science were conducted as competitions.

On November 11,2022 at 9.45 am, Dr.Sr. Jessy NC (Principal, P.K.M College of Education, Madampam) gave the competition winners their prizes. The winners of Brain-Rain were selected through draw, The prize winners of the Brain-Rain were Miss.Aiswarya PV(Natural Science),Miss.Anju MJ (Natural Science) and Miss.Anu Maria Jacob (Mathematics).The winners of Spy-Science were Miss. .Anju MJ (Natural Science) ,Miss. Linet Treesa ((Natural Science) and Miss.Aiswarya PV(Natural Science).They were awarded by Mrs. Jomol Jose and Dr. Fr. Sinoj Joseph respectively. Sr. Mariya Baby (Student Coordinator) presented a gift to Dr.Sr.Jessy NC for her active participation in the puzzle crossword competition. The program came to an end by 10.15 am.



URJA KIRAN: ENERGY CONSERVATION RALLY AND SIGNATURE CAMPAIGNS (2022-24)

(15th December 2022)



Urja Kiran 2022 – 23, Energy conservation rally and signature campaign of P K M College of Education was held on 15th December 2022. It was a programme jointly organised by energy management centre, Kerala and P K M College of Education at B C M Club and library, Madampam. It was flagged off by shri Dominic P L – president of BCM Club, Madampam. Student teachers conducted a rally from regulator cum bridge Madampam town at 3 P M with their slogans and pluck cards up. The official program started at 3 .15 P M at Madampam town in the presence of members of B C M Club, student teachers and the general public. Dr. Fr. Sinoj Joseph, Assistant Professor of Physical Education welcomed the gathering with his profound words about energy conservation and its necessity. The programme was presided over by Sr. Dr. Jessy N C – Principal, P K M College of Education. She reminded the gathering about the crisis we are in it’s the question of energy conservation is not answered properly the future generation will have its impacts. The signature campaign was inaugurated by Srimati. Meena Saji, Councillor of Sreekandapuram Municipality. She reflected upon various methods we must adopt in our daily life to preserve and conserve energy resources. She added about the need of change that should be practised in each home. Mr Anand Ravi, resource person of EMC as well as second year B Ed student handled a detailed session on energy conservation and its relevance. The information shared was thought provoking since the statistics of energy usage by Keralites was shocking. In order to overcome this crisis, the alternative systems should be developed at the earliest. And he gave a framework of different government policies and it’s benefits to the audience. Shri Binoy, Headmaster of Madampam Maryland High school, and Shri Dominic gave their felicitation address. The pledge was provided by Anusha V Urja Kiran Coordinator. Dr. Prasanth Mathew, coordinator – Urja Kiran project proposed the

vote of thanks. The students, members of B C M club and the general public marked their initial step for energy conservation through a signature as part of the campaign. The student teachers of P K M circulated a pamphlet detailing the scientific methods for energy conservation.

SI No.	Name of the Student Teacher	Responsibilities
1	Akshay Sukumaran	Technical Session
2	Anitta Roy	Programme Committee
3	Anju T Mathew	Urjakiran Co-Ordinator
4	Ann Maria Raju	Rally Co-Ordinator
5	Anusha V	Urjakiran Co-Ordinator
6	Christy Philip	Stage Committee
7	Divya K S	Programme Committee
8	Drishya P P	Rally Co-Ordinator



**URJAKIRAN 2022-2023
AWARENESS CAMPAIGN**

(08th January 2023)



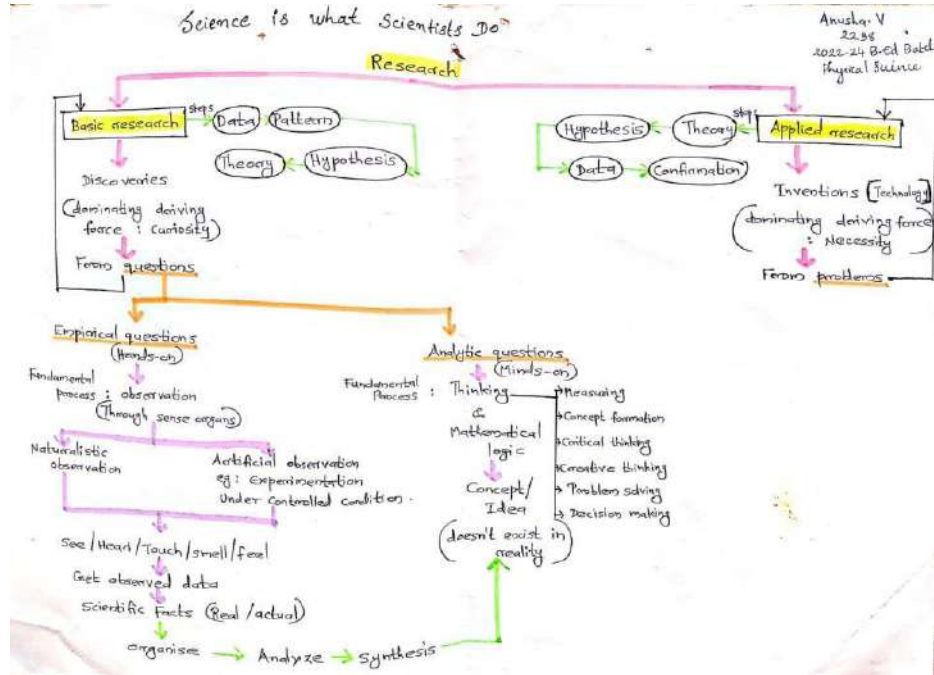
Urjakiran 2022-2023 energy conservation awareness campaign initiated by Energy Management Centre, Govt. of Kerala along with Centre for Environment & Development, Govt. of India, An Energy conservation seminar about “Lifestyle and energy efficiency” was conducted on 08th January 2023 at St. Alphonsa Church Parish Hall, Mundanur organized by P. K. M. College of education Madampam. The program held from 4.30-6.30 pm which was inaugurated by Adv. Sajeev Joseph MLA Irikkur Constituency.

The classes were managed by E.M.C resource persons Anand Ravi, Arya K.I and Ann Kurian. They stressed about the need of energy conversion and its relevance today. Around eighty people attended this seminar. P. K. M. College principal Dr. Jessy N.C presided the meeting. Vice principal Dr. Prasanth Mathew, Vicar Fr. Amal Tomy, Biju Cyriac, program coordinator Ms. Anjana Chandran extended their greetings.



TASKS

- Concept Mapping about “Science is what Scientist Do.”



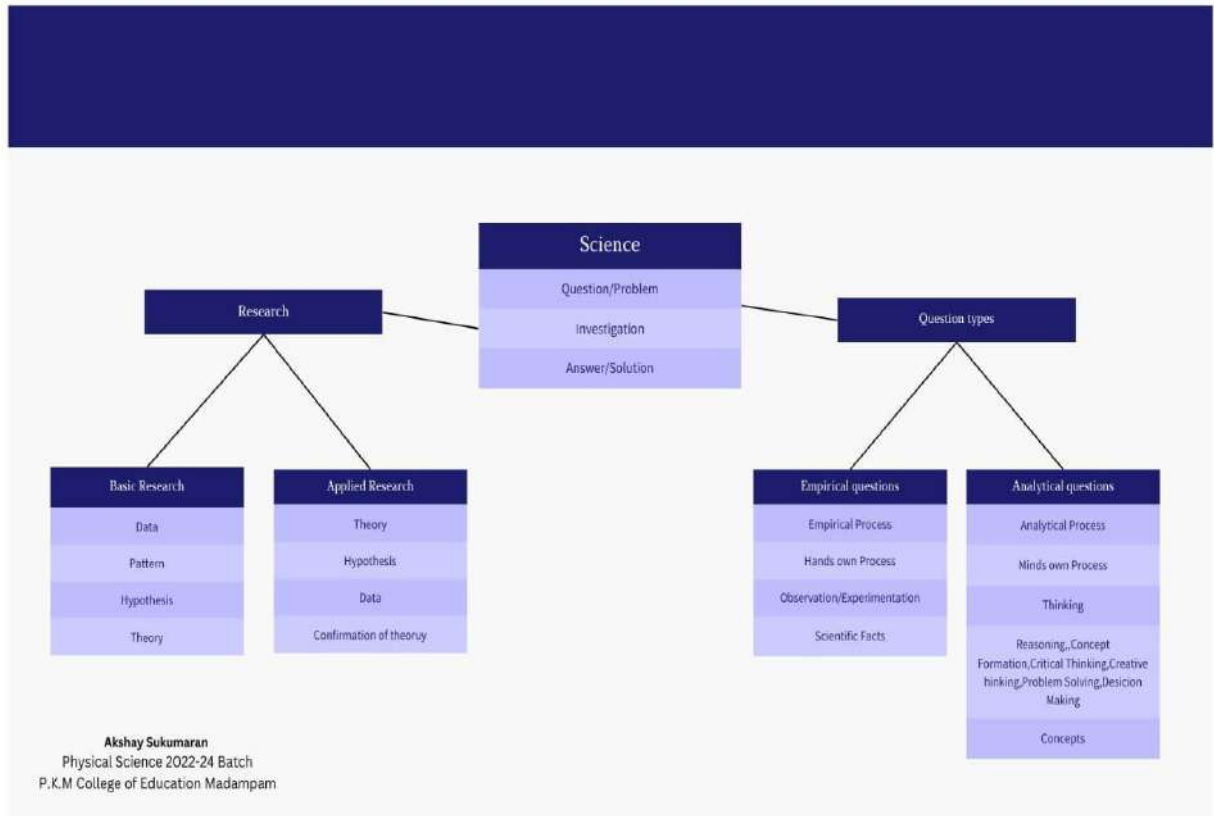
- Presented Capillarity using different discourses.

CONCEPT FORMATION FROM FACT

Examples	Attributes	Definition and name
	<ul style="list-style-type: none"> Phenomenon Against gravity Natural process Liquids usually undergo Narrow tube or through porous 	<p>Phenomenon in which liquid spontaneously rises or falls in a narrow space such as a thin tube or in the voids of a porous material. This phenomenon is known as capillarity</p>

ANITA ROY
2235
Physical Science Batch 2022-2024

BRIEF OVERVIEW OF TEACHING LEARNING PROCESS



EXAMINATIONS

Model Examination 2022-23

1st semester Model examination for the student teachers of the batch 2022-24 had been conducted from **9th January 2023 to 12th January 2023**. Exams were scheduled on morning started from 9.30. Core papers were given 3 hours of time and LAC paper & Optional subject 2 hours. The classes were dismissed and students were given break from afternoon onwards during the days of examination.

Schedule of examination:

09/01/2023: Psychology of Childhood and growing up (3 hr)

10/01/2023: Contemporary India and Education (3 hr)

11/01/2023: Language Across the Curriculum (2 hr)

12/01/2023: Understanding disciplines of the subject (2 hr)

University Examination 2022-23

1st semester University examination for the student teachers of the batch 2022-24 had been conducted from **20th January 2023 to 27th January 2023**. Exams were scheduled on afternoon started from 1.30 PM. Core papers were given 3 hours of time and LAC paper & Optional subject 2 hours. On Fridays the Exam was started on 2PM. There was a gap in between exam days for the convenience of students.

Schedule of examination:

20/01/2023: Psychology of Childhood and growing up (2 pm-5pm)

23/01/2023: Contemporary India and Education (1.30pm -4.30pm)

25/01/2023: Language Across the Curriculum (1.30pm-3.30pm)

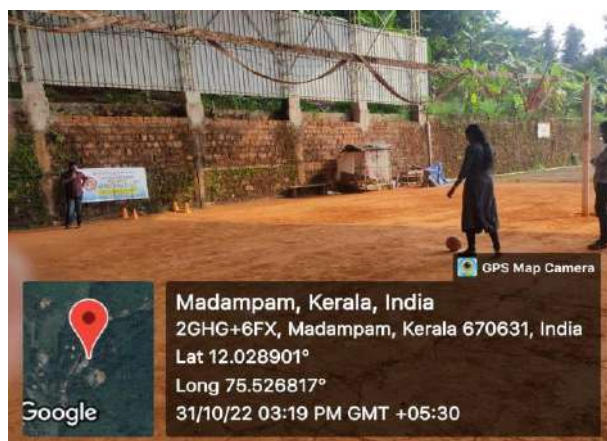
27/01/2023: Understanding disciplines of the subject (2pm-4pm)

SEMESTER ACHIEVEMENTS

- **‘YODHAV’- QUIZ COMPETITION:** As per part of ‘Yodhav’ anti-drug campaign quiz competition was held on 21st October 2022. **Ms. Ann Maria Raju** from the Physical Science department got **first prize** in the quiz competition.



- **‘YODHAV’- GOAL CHALLENGE:** As per part of ‘Yodhav’ anti-drug campaign penalty shootout was held on 31st October 2022. The **Physical Science** department got **first prize** in the penalty shootout.



- **‘THAIMOZHI – 2022 BHARANABHAASHAVARAKHOSHAM’**: In line with ‘*Bharanabhaashaavarakhosham 2022*’, the Malayalam department of P.K.M College of Education conducted a **debate** on 7th November 2022. **Ms. Anusha V** from the Physical Science department got the prize for **best debater**.



- **‘THAIMOZHI’ - QUIZ COMPETITION**: As per part of ‘*Bharanabhaashavarakhosham*’ 2022’, A **quiz competition** was held on 7th November 2022. **Ms. Ann Maria Raju and Ms. Christy Phillip** got second prize. And the Physical Science department got overall trophy of ‘*THAIMOZHI-2022*’.
- **‘THAIMOZHI’2K22 OVERALL CHAMPIONS**: As per part of ‘*Bharanabhaashavarakhosham*’ 2022’, department of Physical Science won the overall championship.



- As part of Children's Day, Department of Social Science conducted an **online fancy dress competition** of theme, CHACHAJI. **Mr. Akshay Sukumaran** won **first prize** in the competition.



- Mr. Akshay Sukumaran** got **second** prize in a football quiz competition organized by English Department.

STUDENT PROFILE		
Sl. No.	Name of the Student Teacher	Competitive Examinations
1.	Akshay Sukumaran	K-TET 2&3
2.	Anitta Roy	K-TET 2&3
3.	Anju T Mathew	K-TET 2&3, SET
4.	Ann Maria Raju	K-TET 2&3, SET
5.	Anusha V	K-TET 2&3, SET
6.	Christy Philip	K-TET 2&3
7.	Divya K S	-
8.	Drishya P P	K-TET 2&3, SET



**DEPARTMENT OF PHYSICAL SCIENCE
2022-24 BATCH**