

P.K.M. COLLEGE OF EDUCATION

MADAMPAM, KAITHAPRAM PO, KANNUR-670631, Website-www.pkmcollege.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 NATURAL SCIENCE
2020-2021



DEPARTMENT OF NATURAL SCIENCE

ACTIVITY REPORT 2020-2021

Objectives

- To acquaint with the theoretical back ground in teaching learning process.
- Develop skills in teaching like skill of introducing a lesson, skill of explanation, illustrating with examples, class management, skill of questioning, skill of board writing, skill of using learning aids, teaching methods, class management, organizing different school activities etc.
- Develop research skills and research culture among the student teachers by preparing and publishing field manuals, books, booklets etc.
- Develop competent natural science teachers with subject competency, organization skills, communication skills, ICT Skills, leadership quality, laboratory skills, skills in organizing different curricular and co-curricular activities etc.
- Develop socially committed Natural science teachers with scientific sensitivity, attitude interest and creativity in all works and activities.
- Student teachers get critical thinking, analytical skill, creativity skills, organization skills, leadership quality etc. through different co-curricular activities such as role play, projects, seminars etc.
- The student teacher develops presentation skills and communication skills through different presentations and seminars.
- By doing outdoor activities like project, nsurveys helps the learner to get opportunity to spend with nature and gain naturalistic intelligence.
- By organizing different webinars and programmes the students develop different skills organizing and executing different activities and programmes.

Strategic plan

- By role play session the student teachers will get critical thinking, analysis, creativity skills, organizing skills , develops ways of expression, communication skills etc.
- Through the different projects the student teachers get opportunity to develop research skills, leadership skill, co-operation, organization skill, interpersonal skill, collection of data, analysis, interpretation, report writing etc.
- By preparing science related albums the student teachers will get skills in collecting data, analyzing, organizing, presenting and reporting etc.
- Surveys, field trips project works etc were also helps the student teachers to acquire different skills.
- Seminars and presentations will improve the presentation skills and confidence among the student teachers.
- Both theoretical and practical curricular and co-curricular activities definitely develop different skills and this makes efficient natural science teachers with ethics and positive attitude.

Course learning outcomes

- By theoretical activities, discussions, demonstrations, role play, panel discussions, online teaching etc. student teachers get a sound knowledge on the theoretical back ground of the teaching learning processes, become subject competent.
- By the practical sessions such as microteaching discussion, demonstration and criticism lessons the student teachers develop different skills in teaching learning process, student management , class management, organizing different programmes, science clubs, exhibitions, games, conducting projects, role plays debates and several curricular and co-curricular activities.
- By preparing science related albums the student teachers develop skills in collecting data, writing skills, skills in analysis, organizing skills, editing skills etc.

- By doing action research and preparing articles and presenting papers the student teachers develop research skills.
- By conducting survey, field trips, projects the student teachers get deeper knowledge in different methods and acquire different skills such as leadership skills, interpersonal skills, data analysis, interpretation etc.
- By doing environment related activities the student teachers develop naturalistic consciousness.

Activities planned

- Role play
- Biologists Album
- Project
- Seminar
- Paper presentations
- Assignments
- Webinar
- Day observance
- Ecofriendly activities
- Content analysis
- Practical records
- Discussion, demonstration and criticism. Sessions.
- Teaching aids preparation
- Action research
- Resource unit

- School internship.
- Sanitizer preparation

Many curricular and co-curricular activities were done by the Natural Science department. The details were given below

ONLINE CLASSES

Online class started on December 10th in the context of Covid. Many motivational classes were included in the initial days. Pedagogy classes were started on December 20th. Classes were conducted in the online platforms like Zoom, Google meet and Teams. We mostly used Google meet for taking seminars as it was most preferred by all. We had a WhatsApp group for academic related updations. We often submitted our works to Gmail and the WhatsApp group. Most of our discussion related activities were done through WhatsApp group as it was most feasible. Above all this we felt Teams as the better platform as we had the provision to record the classes, share videos and documents in the same platform.

ROLE PLAY

As a part of first semester B. Ed curriculum, The teacher aid role play from the chapter four was enacted by the Natural science students on March 15th and 16th. The role play was presented in a unique and attractive manner so that it was very well understood by the students. Various topics were presented as role plays by the Natural science students are as followed, Digital drawing- Anulakshmi. P, Digital image- Athira Anand.A., 3D animation- Jeena Sajith M, Micrographs- Kavya. V., Specimen- Lumitha Bhai , Video- M. Anu Mariya, Power point-Maria Baby and the Web resources – Mariza Markose.

SEMINAR

Seminar presentation is one of the activities done during the academic year 2020 – 2021. The topics for seminar was selected from the unit three “Approaches and strategies of learning Biological Science”. Lecture method and lecture cum demonstration method, project method, problem solving method, questioning technique, brain storming and role playing, seminar and discussion method, debate and programmed learning. Seminar topics were assigned to student teachers according to the roll number. The seminars were assigned on 26 January. Due to dearth of offline classes, Seminar paper was submitted as softcopies through Gmail on 3 march 2021. All seminar presentations were conducted in the online mode and it

took three days for all of us to complete our presentations. Google meet and Microsoft teams were used as online platform for the same.

BIOLOGISTS ALBUM

Biologist album is one of the activity done during the academic year 2020-2021. The assignment was given on December 19. The biologist album is the collection of professionals who has specialized knowledge in the field of biology. This was an individual task. Everyone make each album with information and contributions of 10 famous biologists. We include both old generation and new generation scientists. Famous foreign scientists who had contributed more to different fields of biology were prominently selected by most of students. Due to dearth of offline classes, initially this album was submitted as soft copies through email on January 22, 2021. The hard copies were submitted on March 26 2021. This work helped us to attain more knowledge about famous biologists.

ASSIGNMENT

Assignments are one of the activity that was done in the academic year 2020-2021. The topics were assigned from the syllabus itself. All the assignments were submitted as soft copies through Gmail on January 18 ,2021 . This helped to attain more knowledge about the subject. The topic ass selected from the unit one “Nature and Scope of Natural Science or Biological Science ”. “Historical background of science education – A brief sketch”. The assignments were given on January 14 2021. Only soft copy was submitted for this project because of lack of offline class in month of January.

PROJECT

Project is one of the must to be done activity in the academic year 2020-2021. The syllabus asked for a group project. But due to the pandemic it was not possible for us the students to engage in a group project. So the teacher students were completed as individual project with less resources and materials. The duration of the project was 2 months. The topics were finalized on January 26,2021. The core topic of the project work was “identifying fauna and flora of the nearby ecosystem”. The topic is selected according to the easiness and suitability of the students. A core topic was selected for attaining uniformity to the works done. The soft copy of the project report was submitted on March 16, 2021.

Sl. No.	Name of the student	Project Topic
1	Anulakshmi P.	Identification of flora and fauna with special reference to Lepidoptera of Pattannur area,Kannur,Kerala
2	Athira Anand A.	Floristic diversity of Sree Andalur Kavu ,Kannur district,Kerala
3	Jeena Sajith M	Floristic diversity of Mannampuath Sacred Grove, Kasargod
4	Kavya V.	Faunal diversity of Dharmadam Mangrove ,Kannur district, Kerala
5	Lumitha Bai B.	Fauna and flora diversity in Kannapuram-Azheekal Estuary,Kannur
6	M.Anu mariya	Floral and faunal diversity of lentic ecosystem.
7	Maria Baby	Biodiversity identification around a stream I Piravom of 4eranakulam district.
8	Mariza Markose	Floristic diversity of Mannampuath Sacred Grove, Kasargod

PREPARED DISCUSSION LESSON PLANS

To familiarize with lesson planning student teachers discussed the various instructional objectives and activities in groups and prepared five discussion lesson plans based on the topics in high school biology through online sessions were Conducted lesson plan discussion sessions. First, I had given an orientation to lesson plan writing, its objectives, steps involved, pattern, procedure, critical evaluation etc. Then I had given one discussion lesson plan session for whole group. Directed, guided them in throughout the session. Then divided the students in to two groups and conducted two discussion lesson plan preparation session. Given corrections and after modifications the students were submitted five discussion lesson plans.

PREPARED DEMONSTRATION LESSON PLANS

Conducted five demonstration lesson plan sessions. Given the links of class videos of Victers channel. Given directions to observe the classes and for preparing lesson plans on demonstration classes. After the five sessions the students were prepared five discussion lesson plans and submitted. The demonstration lessons helped to develop observation skills and learned the patterns and teaching skills used in the constructivist classrooms

CRITICISM CLASSES

Ten students in natural science where prepared one criticism lesson plans and submitted. Given corrections and modification. Then each one had taken a criticism class and recorded it. The recorded video of the classes where uploaded in the Teams. Later conducted a criticism lessons for each student to critically evaluate the classes. Critically evaluated different teaching skills of each student and pointed out strength and weaknesses and given suggestions for improvement. The students made the initial attempt to execute the lesson plan. Most of the students were presented the class with confidence. They understood their strength and weaknesses. The teacher educator had given the suggestion for improvement. Due to COVID-19 the student teachers were missed the real classroom experience but we used digital platform to conduct the lesson.

PEDAGOGY OF SCHOOL SUBJECT- PART II: NATURAL SCIENCE

Student teachers developed deep knowledge and understanding TPACK, networking, smart classroom, fostering creativity, tackling gifted, talented, creative, social backward, academically backward students. Developed skills in pedagogic analysis and its transaction.

ONLINE PRACTICE TEACHING

Done a six-week online internship programme in different schools. Students got opportunity to take classes, giving clarifications, summary, homework correction, conducting online test etc. Student teachers were participated in different school activities, summary preparations, home works corrections, test preparations etc. Directed them in their activities in online school internship programme. They developed skills in online teaching, organizing different activities, homework correction, test preparation etc. They were practiced to manage works in schools, interact with students, teachers etc. The online internship programme was a good initiative of our college in COVID 19 pandemic situation.

COMMON ACTIVITIES

- **WORLD ENVIRONMENT DAY**

P K M COLLEGE OF EDUCATION MADAMPAM KANNUR
 Accredited by NAAC with 'A' Grade (Second Cycle -4 Point Scale)
 RUSA 2.0 Beneficiary, UGC 2(f) 12 (B)






ജൂൺ 5 ലോക പരിസ്ഥിതി ദിനം
"Time of Nature"

നിങ്ങൾ ചെയ്യേണ്ടത്



- 1. P.K.M Tree Challenge:** നിങ്ങളുടെ വിദ്യാലയത്തിൽ ഒരു മരത്തെ നടുന്നതിന്റെ ഫോട്ടോ എടുത്ത് അയച്ചുതരിക.
- മനുഷ്യന്റെയും മറ്റു ജീവജാലങ്ങളുടെയും നിലനിൽപ്പിനും വളർച്ചയ്ക്കും ആവശ്യമായ പലകങ്ങൾ നൽകുന്നതിലുള്ള പ്രകൃതിയുടെ പങ്ക് എന്ന വിഷയത്തെ അടിസ്ഥാനമാക്കി A4 ഷീറ്റിൽ ഒരു പേജിൽ ഉൾക്കൊള്ളുന്ന രീതിയിൽ എഴുതി സ്കാൻ ചെയ്ത് അയച്ചുതരിക.
- നിങ്ങളുടെ പരിസരത്തുള്ള സ്കൗൾവിദ്യാർത്ഥികളെ പങ്കെടുപ്പിച്ചുകൊണ്ട് അവർക്ക് ജൈവവൈവിധ്യത്തിന്റെ പ്രാധാന്യം മനസ്സിലാക്കിക്കൊടുക്കുവാൻ സഹായകരമായ ഒരു പ്രവർത്തനം ആവിഷ്കരിച്ച് നടപ്പിലാക്കുന്ന വിധിയോ തയ്യാറാക്കി അയയ്ക്കുക.
 (വിധിയോ സമയം 3 മിനുട്ടിനും 5 മിനുട്ടിനുമിടയിലായിരിക്കണം)

ലഭിക്കേണ്ട അവസാന തീയതി : 2020 ജൂൺ 7 രാത്രി 8 മണി

NB : മൂന്ന് മത്സര ഇനങ്ങളിലും പങ്കെടുക്കുന്ന രണ്ടു പേർക്ക് സമ്മാനം നൽകുന്നതാണ്. എല്ലാ അദ്ധ്യാപക വിദ്യാർത്ഥികളും 2 ഇനങ്ങളിലെങ്കിലും പങ്കെടുക്കേണ്ടതാണ്.



9745940766

എസ്. ജോമോൾ ജോസ്
കൺവീനർ



ജോബി മാത്യു
ഡെപ്യൂട്ടി കോ ഓഡിറ്റർ

World environment day is celebrated on 5th June every year and is the United Nations principle vehicle for encouraging awareness and action for the protection of the environment. The environment that we live in is very important not only for our health but also for our survival, so there is a huge need for us to protect it. We would not be able to survive if we do not have clean air and water and land to live on. The theme for World Environment Day 2020 is “Time for Nature” with a focus on its role in providing the essential infrastructure that supports life on earth and human development.

On 5th June 2020 World Environment Day, P.K.M College of Education had conducted various activities to transact the theme “Time for Nature” among our students.

P.K.M TREE CHALLENGE

Conducted a competition on planting saplings at home. Many students participated enthusiastically in the competition and sent their photographs of planting saplings at their homes. This programme conveyed the message conservation of nature among the students.





ARTICLE COMPETITION

Conducted an article competition on the topic “Role of environment in providing materials required for the sustainable development of different organisms and human beings” in an A4 sheet. This activity stressed and conveyed the importance of our environment in providing sustainable development. Many students participated and sent their articles in different names such as Nature and human being, Karuthalode, Kaikorkkam pachappinayi, Thulanam, Prakrithipadham, Eniyumethranal, Jeevadhayini etc. in these articles students were stressed the significance of our environment and its role in sustainable development, importance of ecosystem, existing environmental issues, need of conservation of environment, over exploitation of our resources etc.

INNOVATIVE AWARENESS ACTIVITY

We had conducted a competition on the organization & execution of an innovative activity for nearby school students to convey the importance of biodiversity to them. Many students were participated and sent their videos of this activity.

ONLINE ENVIRONMENT QUIZ

An online quiz was organized by PKM College of Education for the B.Ed. students. The quiz was conducted by giving a web link for 20 minutes on June 5th. The quiz was contained 15 questions related to environment and its conservation. Many students were participated in the online quiz and Jain James, Anuhridya O, Anitha P, and Haritha P.C. A are the winners of the quiz competition.

**P.K.M COLLEGE OF EDUCATION
MADAMPAM, KANNUR**
Govt. Aided College of Teacher Education Affiliated to Kannur University Recognized by NCTE,
Listed Under UGC (2f) & 12(b) Category Accredited by NAAC with 'A' Grade (Second cycle),
RUSA 2.0 Beneficiary

World Environment Day
5th June 2020
"Time of Nature"
Online Environment Quiz

Online Quiz link will be available at Bhoomithrasena Whatsapp group on 5th June at 9am

Organized by Bhoomithrasena Club & Department of Natural Science
Mrs. Jomol Jose
Staff Co ordinator
Student Co ordinators

- **WEBINAR “TIME FOR NATURE”**

P K M COLLEGE OF EDUCATION MADAMPAM KANNUR
Accredited by NAAC with 'A' Grade (Second Cycle -4 Point Scale) RUSA 2.0 Beneficiary, UGC 2(f) 12 (B)

IN ASSOCIATION WITH
SEEK (Society For Environmental Education in Kerala)

**WEBINAR ON
TIME FOR NATURE**

on 26th June 2020 11 am

Inauguration

Dr. John C Mathew
Environment Programme Manager
Directorate of Environment and Climate Change

RESOURCE PERSON

Dr. MANOJ K. H.O.D.
Kannur University
Dept. of Environmental Studies

Welcome Speech : Mrs. JOMOL JOSE
Asst. Prof. in Natural Science
P.K.M.College of Education

Presidential Address : Dr. JESSY N.C
Principal P.K.M. College of Education

Vote of Thanks : Miss. Bency Scaria
Student Co-ordinator

Technical Support
Sr. Christeena & Joby Mathew

REACH US : 8281531744

Organised by Dept. of Natural Science, Bhoomithrasena & I.Q.A.C in association with SEEK

Link for Registration : [https:// forms.gle/wRfcJGWwCHre 5 FHu 5](https://forms.gle/wRfcJGWwCHre5FHu5)

Nature is essential to our lives from the food on our plates to the clothes we wear, from medicines to mental health benefits. The UN declared theme for the World Environment day 2020 is Biodiversity Conservation. It is the need of the hour. Due to the COVID 19 pandemic situation we used online digital platform for conducting a webinar in the same. Dept. of Natural Science, Bhoomithrasena, IQAC, PKM College of Education in association with SEEK (Society for Environmental Education in Kerala) has conducted a webinar on “Time for Nature” on 26th June 2020 at 11 am. The inaugural session was started at 11: 30 am. A total of 50 people were participated in the session. The participants included B.Ed. students, teachers etc.

INAUGURAL SESSION

The welcome speech was delivered by Mrs Jomol Jose, Asst. Professor in Natural Science, PKM College of Education. The session was presided by Dr. Jessy N.C, Principal, PKM College of Education. Respected principal Dr. Jessy N.C. delivered the presidential address. Then the chief guest Dr. John C. Mathew, Environment Programme Manager, Directorate of Environment & Climate Change Govt. of Kerala inaugurated the webinar. He also appreciated PKM College of Education for the initiative. Later Environmental Officer

Sreeja Raj and Asst. Environmental officer Tom Augustine were explained about the different schemes offered for schools and colleges such as Parishithikam, Workshops, Training programmes, Day observance etc. under Kerala Directorate of Environment and Climate Change. This was a wonderful experience for all.



TECHNICAL SESSION & RESOURCE PERSON

After the inaugural address the technical session was started by our resource person Dr., Manoj K., HOD, Environmental Studies, Kannur University. He was delivered a wonderful and excellent theme presentation on the need of Biodiversity Conservation. Human beings use the nature for his life but he still mistreats the nature. Biodiversity is the foundation that supports all life on land and below water. He explained about different types of diversity such as genetic diversity, species diversity, ecosystem diversity, mega diversity

countries etc. Later he explained about the values of biodiversity such as food value, medicine value, fuel value, fibre, productive use value (timber value, fishery value, bio fertilizers etc.), ecosystem service value etc. Later he explained about the threats to biodiversity, different pollutions and the need for conservation of biodiversity. He said everyone should work together to protect the nature that support's us all.



Student coordinator Jain James anchored throughout the programme. Student coordinator Bency Scaria was delivered vote of thanks for the function. The session was ended at 12: 45 pm. Later a feedback form was given for all participants. The e- certificate were distributed later.

- **WORLD HABITAT DAY OBSERVANCE**

HOUSING FOR ALL: A BETTER URBAN FUTURE

THEME PAPER PRESENTATIONS

On 5th October 2020 as a part of the celebration of World Habitat Day in association with Social Entrepreneurship, Swachhata & Rural Engagement Cell, Department of Natural science and Boomithrasena club of PKM College of Education, Madampam has organised a theme paper presentation on the topic “Housing for all: a better urban future” on the Microsoft teams platform. The program began at 2 pm. Ms Jain James was anchored the program. The program started with a prayer by Ms. Sweetymol Shaji. The welcome speech was delivered by Ms Haritha P. C. the presidential address was delivered by Dr. Sr. Jessy N C, Principal of PKM College of Education, Madampam. Through her presidential address, she explained the significance of celebrating such days. She also spoke about the importance of habitat protection. The felicitation to the program was delivered by Mrs Jomol Jose, Assistant professor Department of Natural Science, and the program coordinator.

P. K. M. COLLEGE OF EDUCATION MADAMPAM KANNUR
Accredited by NAAC with 'A' Grade (Second Cycle-4 Point Scale) RUSA 2.0 Beneficiary, UGC 2(f) 12 (B)

SOCIAL ENTREPRENEURSHIP, SWACHHTA & RURAL ENGAGEMENT CELL (MGNCRE)

OBSERVANCE OF WORLD HABITAT DAY
5th October 2020

"Housing for all : A better Urban Future"

THEME PAPER PRESENTATIONS -
Via Microsoft Teams (2 pm)

COMPETITIONS :

Identity Habitat - നിങ്ങളുടെ വീടിന്റെ പരിസരത്തുള്ള ഒരു ജീവി അല്ലെങ്കിൽ സസ്യത്തിന്റെ Habitat (ആവാസം) നിർമ്മിച്ച് കണ്ടെത്തലുകൾ കൃത്യമായി രേഖപ്പെടുത്തി പോട്ടോ സഹിതം അയച്ചുതരിക. തിരഞ്ഞെടുക്കുന്നവയ്ക്ക് "ഐ" സർട്ടിഫിക്കറ്റ് നൽകുന്നതാണ്.

Photography Competition -
Theme- Natural Habitat - My Home

Nb : മത്സരങ്ങളിൽ പങ്കെടുക്കുന്നവർ 06 - 10 - 2020 5 മണിക്ക് മുൻപായി ആവാസം - കണ്ടെത്തലുകൾ, പോട്ടോസ് എന്നിവ അയക്കേണ്ടതാണ്.

8281531744

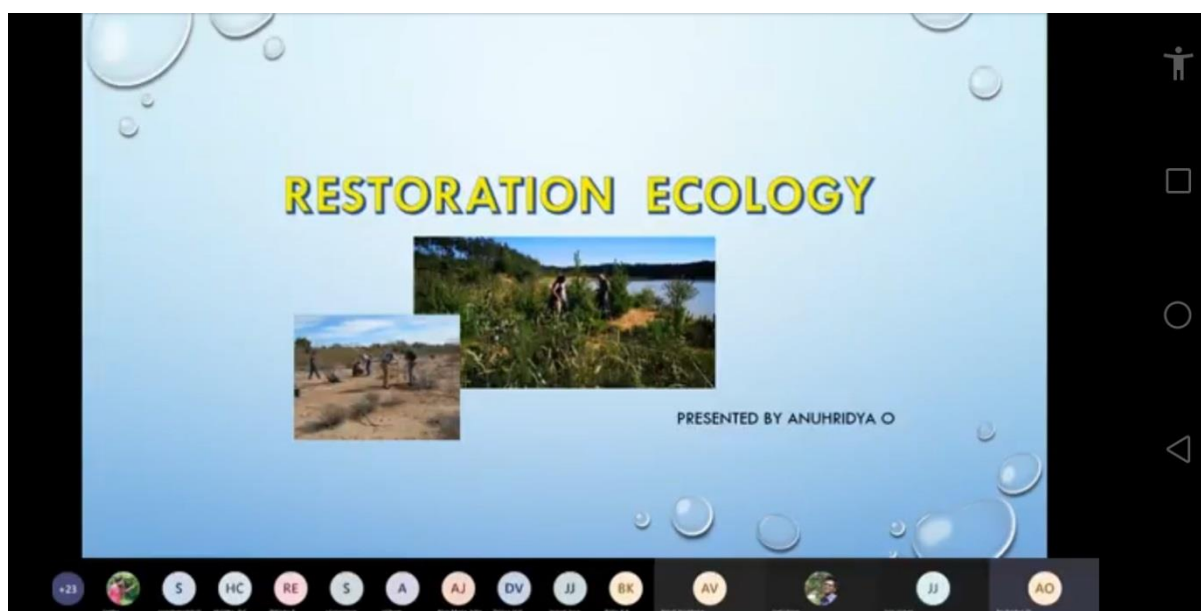
Organised by,
Dept. Of Natural Science & Bhoomithrasena

Staff Co ordinator
Mrs. Jomol Jose,

Student Co ordinators
Drisya. V. V.,
Haritha P. C.,
Vinaya P. P.

Later the paper presentation session was started. The first presentation was done by Ms. Anjali Varghese, department of Mathematics on the topic “Housing for all for a better urban future”. Through her presentation, she elaborately explained the importance of protecting the habitat. Also explained why we need a sustainable development. The presentation ended with discussion about the topic. The second presentation was done by Mr Jomal Jose, Department of English on the topic “Habitat loss driving up human- elephant conflict in Kerala”. He explained the topic habitat destruction in the context of problems in Kerala. He explained the topic with the number of destructed habitats of elephant in Kerala. The reason of habitat destruction were presented and the ways to protect the habitat also explained by him. The presentation ended with discussion.

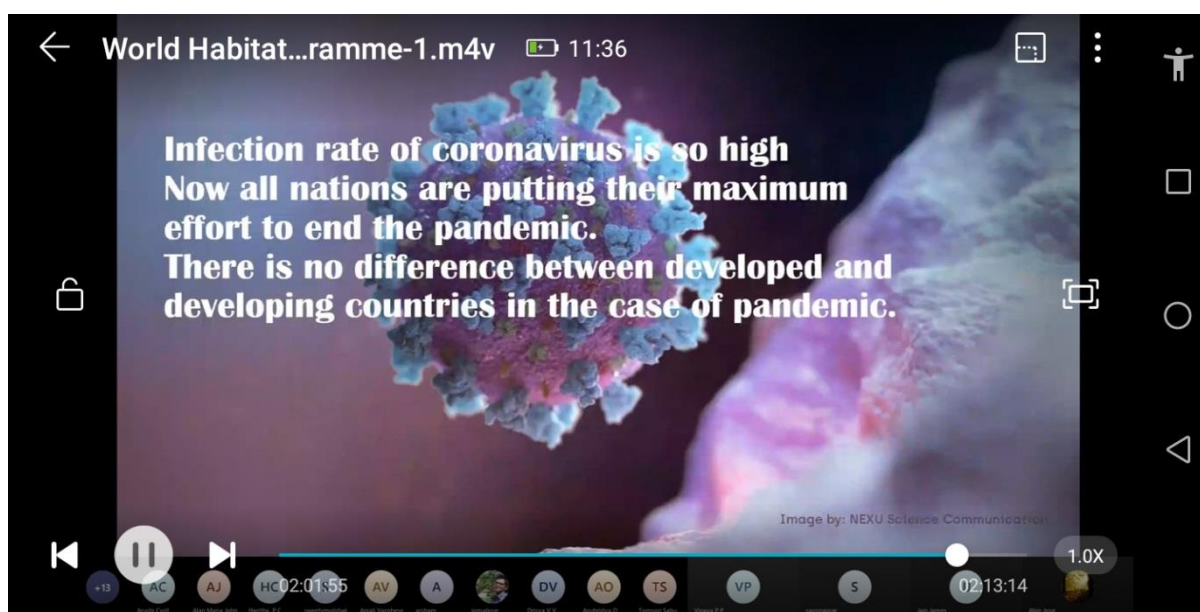
The third presentation topic was “Restoring ecology” which is taken by Ms. Anuhridya O, Department of Natural Science. In her presentation, she elaborately explained how to restore an ecosystem or habitat. The elaborated and informative sessions ended with a discussion. Ms. Sayona Jose, Department of Malayalam done by the fourth presentation on the topic “Habitat significance”. It was very informative session in which she explained in detail about what is habitat, the purpose of protecting the habitat. The presentation winded up with a discussion on the topic.



Fr. Abin Jose department of physical science done the fifth and last presentation on the topic “habitat changes in the context of Covid 19”. The destruction of habitat resulted in the loss of habitats of infectious agents like viruses, bacteria etc. Thus they started to infect humans. He explained that if the natural balance of ecosystem got disturbed, it will lead to

infectious diseases. He concluded that, during this pandemic condition we need to think about protecting the habitats. The presentation concluded with discussion.

After the presentations Ms Amrutha K, Department of Natural sciences made the programme very beautiful with her sweet voice. Ms Vinaya P P, Department of Physical sciences , convenor of Bhoomitrasena club delivered vote of thanks to the program. The program winded up with the vote of thanks. The program was so informative and provide awareness about conservation of habitat.



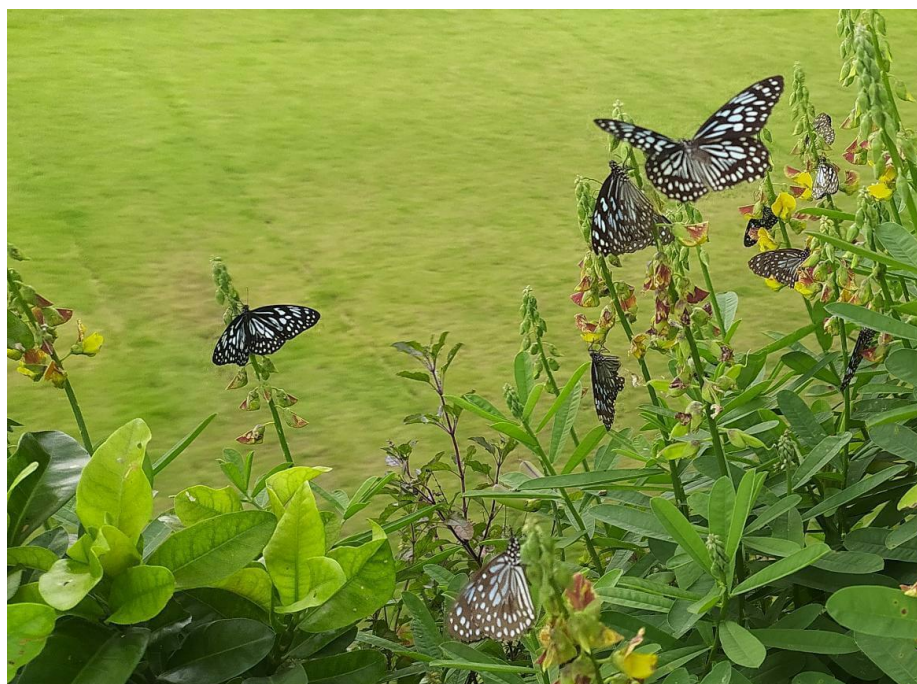
1. IDENTIFY HABITAT- COMPETITION

Conducted identify habitat competiotion for the B.Ed students. In this competition given instructions to identify the habitat of one animal or plant and observe, find out the characteristics and peculiarities of its habitat. Send the findings of the habitat with photo. This competition was conducted to inculcate observation skills and research attitude, natural consciousness etc. Many students were participated in the programme and the first place was won by Anuhridhya O (Natural Sciences).



2. PHOTOGRAPHY COMPETITION

Conducted a photography competition on the theme Natural habitat- My Home , for the B.Ed students. This competition held to promote natural consciousness and to appreciate and value biodiversity and the nature. Many students were participated in the competition and the first place was won by Abin Jose (Physical sciences).



P. K. M. COLLEGE OF EDUCATION, MADAMPAM, KANNUR
 Accredited by NAAC with 'A' Grade (Second Cycle - 4 Point Scale), RUSA 2.0 Beneficiary, UGC 2(f) 12(B)



**HOUSING FOR ALL
 A BETTER URBAN FUTURE**

AS PART OF WORLD HABITAT DAY OBSERVANCE
 OCTOBER 5, 2020

**Identify Habitat
 Competition**

WINNER



ANUHRIDYA O
 (Dept. of Natural Science)

**Photography
 Competition**

WINNER



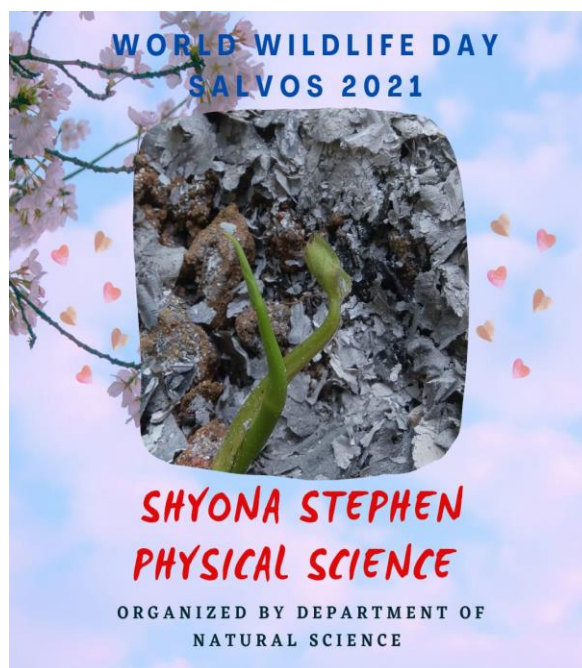
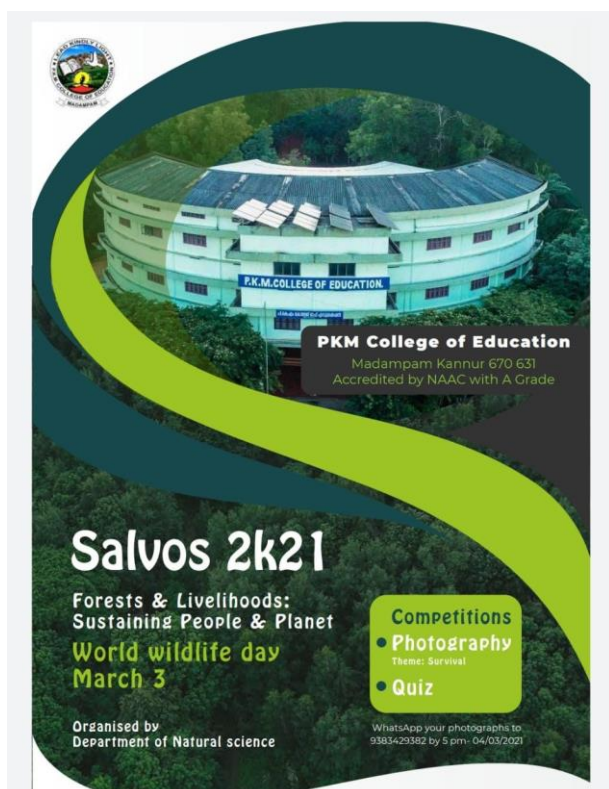
ABIN JOSE
 (Dept. of Physical Science)



ORGANIZED BY
 SOCIAL ENTREPRENEURSHIP, SWACHHTA & RURAL ENGAGEMENT CELL,
 DEPT. OF NATURAL SCIENCE & BHOOMITHRASENA

• WORLD WILDLIFE DAY CELEBRATION

As part of World Wildlife Day on March 3, the Department of Natural Science and Bhoomithrasena of PKM College of Education conducted a programme 'SALVOS 2K21'. UN declared the theme of World Wildlife Day 2021 as 'Forests and Livelihoods: Sustaining People and Planet'. To show the importance of Wildlife and to create awareness on conserving Wildlife was the motto behind the celebration. Due to the current pandemic situation, offline celebration was not practical so the programme was conducted through online mode. SALVOS 2K21 comprised of two competitions for the first year B.Ed. students of our college. An online Quiz Competition and a Photography Competition. The quiz programme was held in a new platform called Mentimeter'. 28 Students from various departments participated in the quiz. There were 2 sets of 5 questions each. Anusree M. from Mathematics optional won the first prize. Athira Shaji from Social Science and Aswathi N.V. from Physical Science shared the second and third prize. The Second Programme was Photography Competition. Theme of the competition was 'SURVIVAL'. All total 16 entries participated in the competition, among them Shyona Stephen from physical Science optional was the winner. The SALVOS 2K21 programme was highly thought provoking and entertaining, which became more effective by the active participation of the students



• SANITIZER PREPARATION AND DISTRIBUTION

Boomitrasena of PKM College of Education, Madampam conducted a sanitizer preparation programme on 12th march 2021 from 10 AM to 2PM. It was one of the programmes organized during the academic year 2020- 2021. Sanitizer preparation was guided by Mrs Jomol Jose, Assistant professor of Natural Science Department. First year students Anulakshmi P, Kavya V and Lumitha Bai participated in preparation process.



Distilled water, Isopropyl alcohol, glycerine and hydrogen peroxide were the ingredients of sanitizer. Measuring cylinders, bottles (100 ml), conical flasks, beakers and burette were the main equipments used for sanitizer preparation. Total of 5000 ml (5l) of sanitizer was prepared and stored in 50 bottles. For 5000 ml, 961.5 ml of distilled water, 3750 ml isopropyl alcohol, 208.5 ml hydrogen peroxide and 72.5 ml glycerine were added and stirred well. Five to six drops of essential oil was added for smell and poured it in 50 bottles of 100 ml size. All bottles were fully labelled. These 50 bottles of sanitizers were stored for 3 days before use to ensure that no contaminants remain in the bottle. Sanitizer preparation and production is one of the initiative took by Boomitrasena of PKM College of Education in the current pandemic situation. Local production of standard sanitizer making is a very informative activity to teach students how to make and use it. Later distributed sanitizers among the auto drivers near to the college that is in Thumbeny and Madampam junctions. They appreciated our team.





In the academic year 2020 -2021 most of the classes were online. This year was a new experience for students, teachers and other staffs. During this COVID pandemic situation Department of Natural Science had conducted different innovative and unique activities by utilizing the possibilities of online platforms. We conducted different class activities, role play, seminars, projects, Environment day, Habitat day, Webinar, different competitions, sanitizer preparation and distribution etc. for giving a multi-dimensional experience for our student teachers to contribute for our society.



DEPARTMENT OF NATURAL SCIENCE

2020-2021 ACADEMIC YEAR