

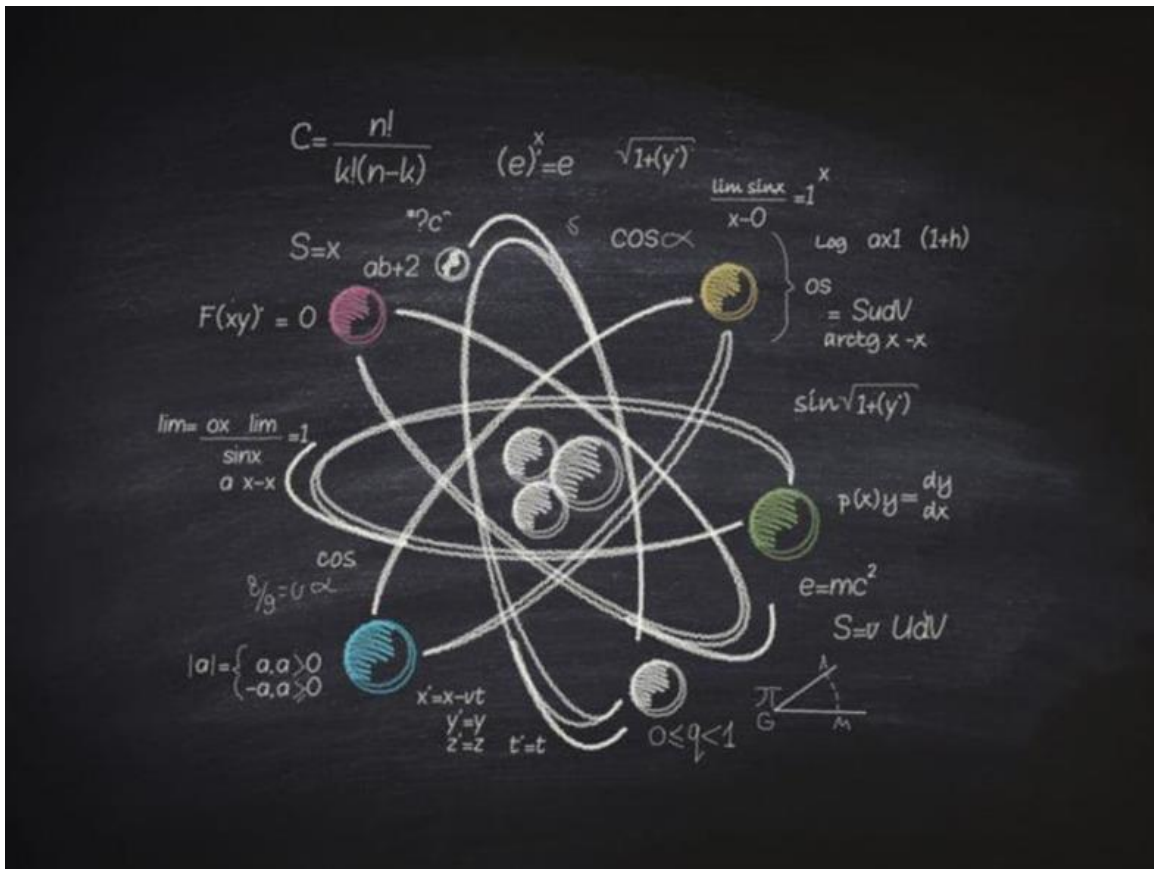


BISHOP CHULAPARAMBIL MEMORIAL
COLLEGE KOTTAYAM, KERALA.

DEPARTMENT OF PHYSICS

Presents

IGNITE



PHYSICS ASSOCIATION REPORT

2022-2023

It gives me immense pleasure to present the report of Physics association '*IGNITE*' of the academic year 2022-2023.

Ansu Sabu
Secretary
Physics association

IGNITE

IGNITE means ‘to Begin to Glow’. The aim of the Physics Association ‘IGNITE’ is to edify the students to be sensible and to cultivate wisdom by experiencing the current societal developments. Bookish knowledge may be enough for academic excellence, but it falls far short for being a good citizen. To develop civic values, one needs to interact with society. Apart from imparting subject knowledge, the association aims to inculcate civic sense, compassion and empathy towards the unfortunate.

We are proud of the success of our association, given the limited time and resources at our disposal owing to the abnormal circumstances forced up on us by the pandemic. “IGNITE” played an important role in the intellectual and social development of students. We are grateful to all the faculty members and students of the physics association for their whole-hearted cooperation in making of “IGNITE” a memorable success.

The annual report of the Physics Association, IGNITE for the year 2022-23 is submitted herewith.

OFFICE BEARERS 2022-23

The first meeting of the association was held on 2nd June 2022. Students and faculties of physics department gathered at 11:45 am. The meeting started with a welcome speech by the Head of the Department Dr. Smitha Joseph. Office bearers of the association were nominated by the students themselves. Elizabeth miss and Smitha miss congratulated the office bearers. Teachers and the new association-in-charges shared their opinion and views on various programmes. We discussed about new projects and strategies that are to be adopted by the association for the academic year 2022-23.

Office bearers for the Academic year

Association President	Dr Smitha Joseph	HOD
Vice President	Nandhana Manoj	III DC
Secretary	Ansu Sabu	III DC
Executive Members	Aisha Sali S Ammu K Reji Ardra Renji P	III DC II DC IDC
Treasurer	Divyamol S	III DC
Magazine	Sneha Surendran	III DC
Arts Club Secretary	Varsha P Nair	III DC



Association Office bearers for the year 2022-23

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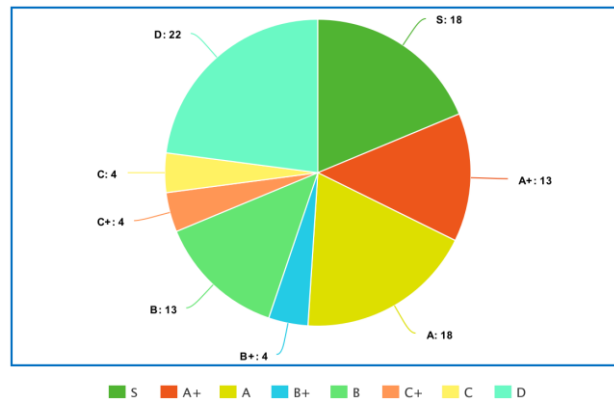
STUDENT PROGRESSION

Student Placements

Students progression to higher studies

ACADEMIC PERFORMANCE

During the academic year 2021-2022, 22 students in total appeared for the university examinations. Four students secured S grade, three students secured A+, four students secured A grade, one student got B+, three students secured B grade, two students secured C+ and C grade respectively. The total pass percentage of the year 2021-2022 is 77 %.



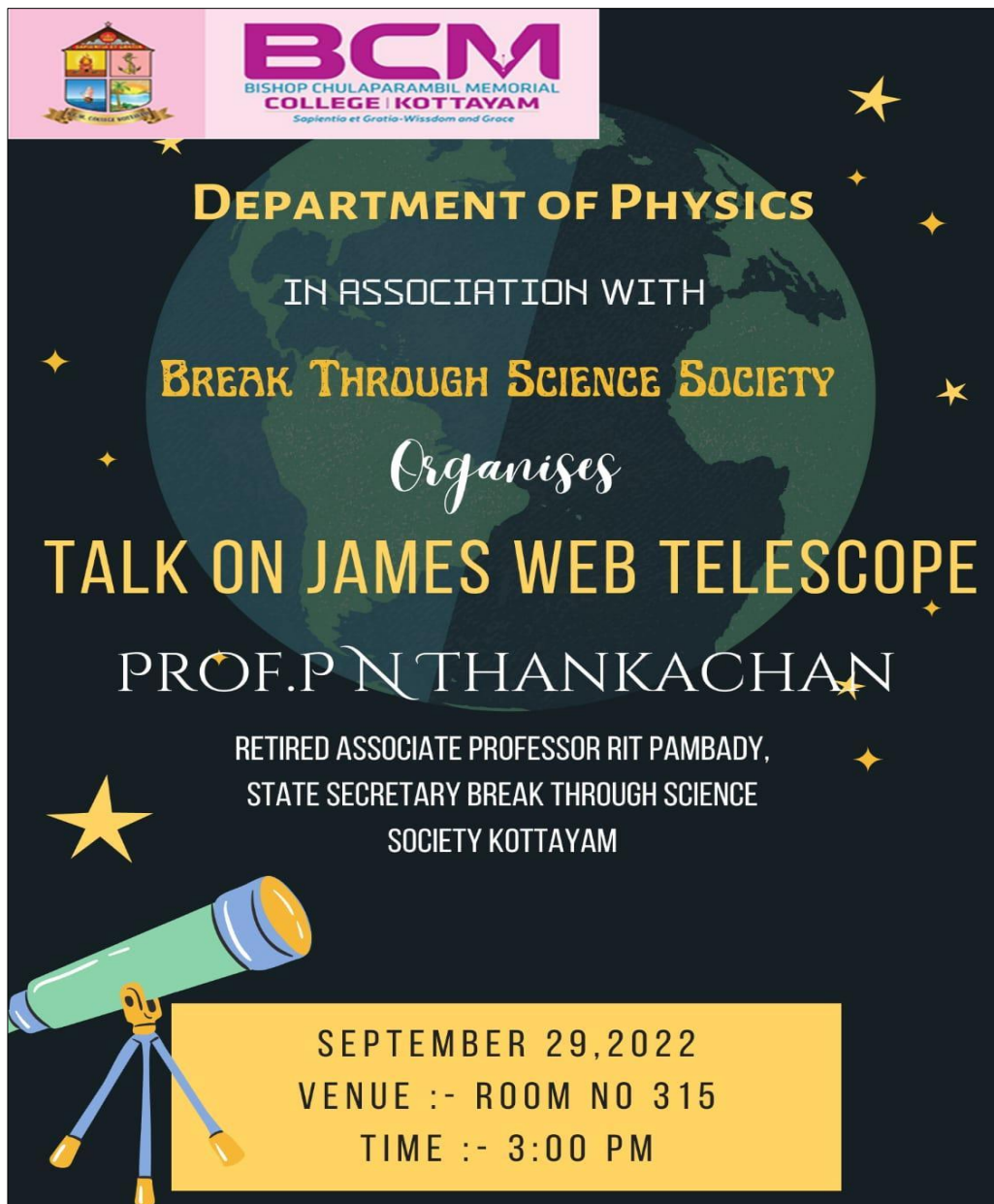
Pie chart showing the University exam results of academic year 2021-22



Our Rank holders in the University exam 2021-22

SEMINARS CONDUCTED

1. SEMINAR ON JAMES WEBB SPACE TELESCOPE



Brochure of the Seminar

Department of Physics participated in World space week celebrations by organizing a seminar on 'JAMES WEBB SPACE TELESCOPE' on September 29, 2022 at 3:00 pm in Room No. 315. The resource person of the program was Prof. P.N. Thankachan, Associate Prof. (Rtd.), Rajeev Gandhi

Institute of Technology, Pampady. The program started with a prayer. Megha H Karat 2nd year physics student delivered the welcome speech. Head of the Department Dr. Smitha Joseph introduced the honourable guest Prof. P. N. Thankachan. He is also the secretary of Secretary of Breakthrough Science Society. The seminar introduced to the students to the history of telescopes and a detailed explanation on the James Webb Space Telescope. The session was very live and interesting. He presented many videos which the students were glad to see and made the session all the more lively. Students took this opportunity to ask questions and clear their doubts regarding black holes and interstellar radiations. The session opened a new path in the knowledge in Physics. They discussed with the resource person in ways to do higher studies in Astrophysics. Ms.Tinu Ann Jose, faculty, Physics department rendered the vote of thanks. The program came to an end by 4.30 pm.



A glimpse of the seminar on James Webb Space Telescope by Prof. P N Thankachan

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2. SEMINAR ON THE TOPIC EARTH OBSERVATION FROM SPACE FOR SUSTAINABLE DEVELOPMENT



Bishop Chulaparambil Memorial College
Kottayam

Department of Physics

Organize

Seminar

Topic : Earth Observations from Space for Sustainable Development

Resource Person



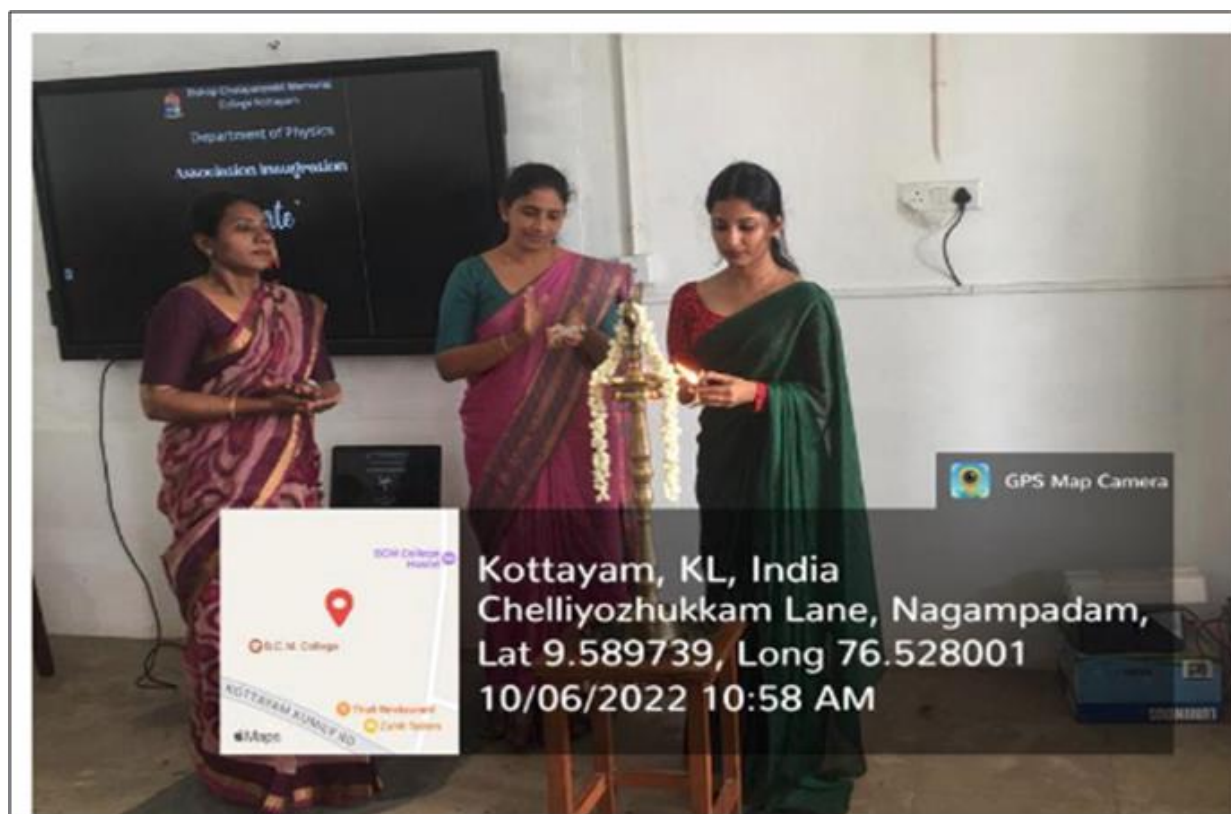
Dr. Marina Aloysius
Head of Physics Department
Assumption College
Changanacherry

Date: 6th October 2022
Time: 10.30am
venue: 314

Brochure

The inauguration of Physics Association – *Ignite* and a seminar on ‘*Earth Observation from Space for Sustainable Development*’ was organized on 6th October, 2022 at 10.30 am in Room No. 314. The Head of physics department, Assumption College, Changanacherry, Dr. Marina Aloysius inaugurated the activities of Physics Association 2022-23. The Association inauguration program commenced with the welcome speech by head of the department, Dr. Smitha Joseph. She welcomed the chief guest and introduced her to the audience.

At the end of the official inaugural session, we had a talk ‘*Earth Observation from Space for Sustainable Development*’ by our chief guest of the day, Dr. Marina Aloysius. The speaker introduced to students the benefits of satellites and about the atmospheric studies made by the scientists using the satellites. The session discussed about how satellites are used to understand and predict about weather conditions. The satellite systems monitors earth’s atmosphere from above and complements land based systems. The session gave insights regarding polar satellites and geostationary satellites. These satellites continuously monitor earth’s atmosphere and give data regarding its state, which help us to understand our atmosphere and climatic conditions. The session was very interacting. She explained how human activities are affecting our atmosphere and what precautions are to be taken to save earth. The session came to an end by 12.30 pm. The vote of thanks for the session was rendered by Ms. Nandhana Manoj, Vice president, Physics Association.



Inaugural Session of the Seminar



Session in Progress

DAYS OBSERVED

ONAM CELEBRATION



Brochure of Onam Celebrations

Onam is the harvest festival of Kerala. It is celebrated every year throughout Kerala with great vigour and fun. Department of physics celebrated Onam this year on September 2nd 2022 in Room No. 315. It was a very happy and fun filled occasion for the students as this was the first department celebration for them at BCM as all other celebrations were online due to Corona.

All the students and teachers come in wearing Kerala saree. Apart from Onam celebrations of the college which included *Malayali Manga* competition and tug of war competition, we had celebrations at the department. This included *onapattu* by I DC, II DC and III DC. Ananya Raju and Lekshmi P.S participated in the *Malayali manga* competition of the college, representing Physics department. The students of the department also prepared beautifully designed *Athapookalam*. We also had delicious *Onasadhya*. All the students, teachers and non-teaching staff together had the *Onasadhya* together and the occasion was a memorable one for each of us.



Onam Sadhya -An indispensable part of our Onam celebration



Glimpses of Onam celebration

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INDEPENDENCE DAY CELEBRATIONS

As part of 75th Independence Day of India *Azadi Ka Amrit Mahotsav* celebrations were organized by our college, the department of Physics also actively participated in the independence day celebrations by conducting various programs and competitions. As part of the program, 75 programs were organized all together by various departments out of which 5 programs were organised by department of physics. These programs included chart exhibition on the life and contributions of Indian Physicsts, slogan writing competition, pencil art competition.

EXHIBITION ON THE CONTRIBUTIONS OF INDIAN PHYSICISTS

As part of 75th Independence Day celebrations *Azadi Ka Amrit Mahotsav* the department of Physics organised a chart exhibition in the college auditorium on August 17, 2022. The exhibition started at 11:00 am. All the departments of our college participated in the exhibition. Exhibition by our department was based on the theme 'Contribution of Indian Physicsts'.

The exhibition highlighted the contributions of SN Bose, JC Bose, SN Saha,, HJ Bhabha, E. C.G.Sudarshan. Contributions and life of C.V. Raman was also exhibited. Other attractions of our exhibition was a hologram made by Amritha Krishna of 3 DC physics and a model of PSLV prepared by our former student Ms. Kavyapriya. The viewers were much attracted by these and were curious to know more about it. Over all the exhibition was a successful one.



BISHOP CHULAPARAMBIL MEMORIAL COLLEGE
KOTTYAM

Department of Physics

IGNITE PHYSICS ASSOCIATION 2022-2023

Celebrating

75th

**INDEPENDENCE DAY
CELEBRATION**

Azadi Ka Amrit Maholsav

CHART EXHIBITION



College auditorium



August 17, 2022

Brochure of the Independence Day celebrations



Exhibition in progress on the life and contributions of Indian Physicists

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CHRISTMAS CELEBRATION

Department of Physics celebrated Christmas on 23rd December by organising various programs. Department wise celebration was organized at 12 pm in Room No.315. Christmas message was delivered by Dr. Elizabeth V John. We also had Christmas carols by I DC, II DC and III DC. Christmas crib and Christmas tree was prepared by II DC and I DC students. Christmas friends were selected for students and teachers well in advance and during the celebrations these Christmas friends exchanged gifts, that part of the program was really interesting. This was followed by Christmas cake cutting. Ms. Tinu Ann Jose, Asst. Professor, Department of Physics shared her memories of her Christmas celebrations. We also had some games as part of the celebration. The program came to an end by 2.30 pm



Christmas celebration-An occasion of joy and togetherness

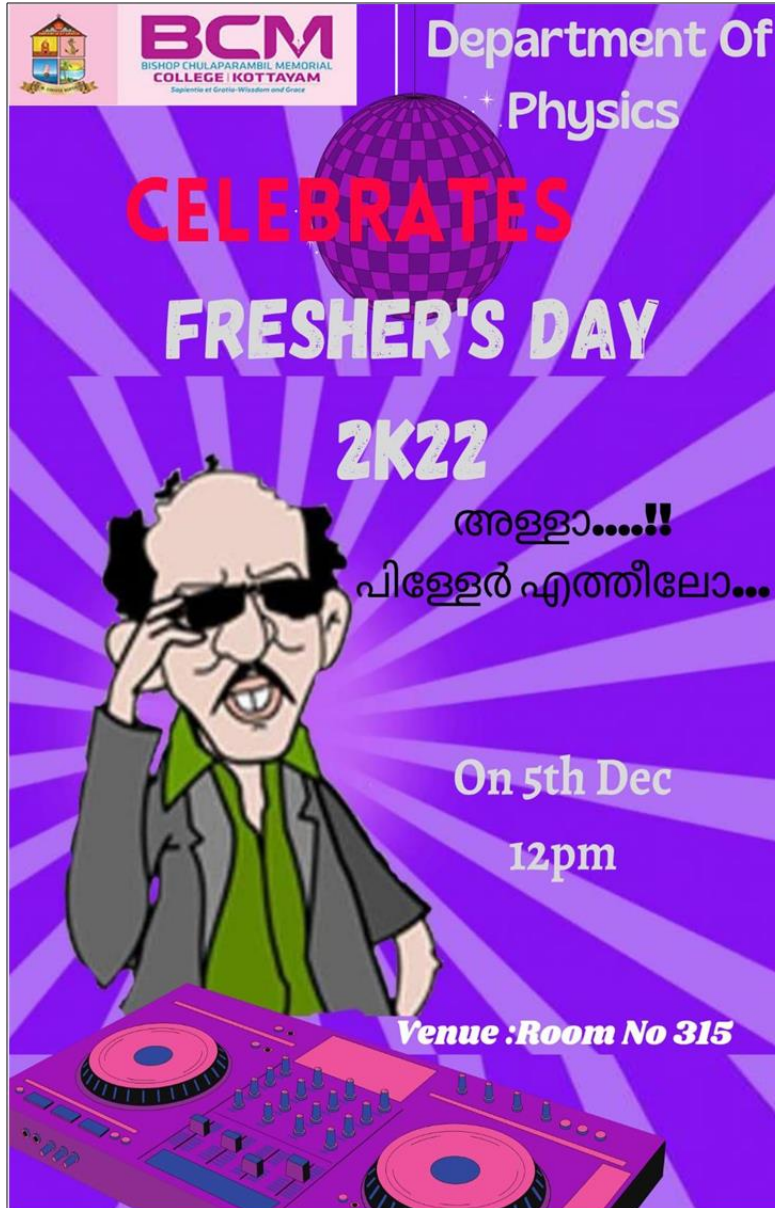
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CAPACITY BUILDING AND SKILL DEVELOPMENT PROGRAMS

Freshers day 2022



Brochure of Freshers Day Program

Though the I DC classes had commenced during last week of September, it was only in December Freshers' day could be organized only on 5th December 2022 due to exams of senior batches. The Freshers' day program was organized in Room No. 315 at 2pm. The program is organized as ice breaking session- to remove the barriers between the freshers and seniors. The

program started with a welcome speech by Dr.Smitha Joseph, head of the Physics department. The program was hosted by 3rd year students. Treesa K Devasia, of 2nd year anchored the program

First year students were initially instructed to dress up in ridiculous costumes and they were all welcomed on to the stage. They were made to tie their hair in a messy manner which made them look hilarious. I DC students were divided into different groups and they were given tasks individually and groups. The task they were given made the program all the more funnier. First task was to introduce themselves in different slangs, based on their native district. As everyone came from different districts, their self-introduction made every one laugh. Next task was to do ramp walk in their funny attire. All of them performed very well. Few other tasks were also given, like, two people standing on a piece of newspaper and dancing without getting out of it, taking coin from a plate of flour using their nose, and a skit performance. They were asked to perform a skit based on their own idea. They prepared within minutes and performed it very well on stage.

At the end the best actor was selected and given gifts by our beloved teachers. It was one such hilarious day. The program ended with an interaction section of freshers sharing their feelings about BCM college life over the few weeks. The program came to an end by 5 pm.

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COIL - COLLABORATIVE ONLINE INTERNATIONAL LEARNING

COIL stands for Collaborative Online International Learning. COIL is a collaborative project between Early Childhood Department, Sinclair community college, Ohio, USA and Dept. of Physics, Bishop Chulaparambil Memorial College. This was a 5 week program which commenced on 22nd September 2022. The sessions were online through ZOOM platform.

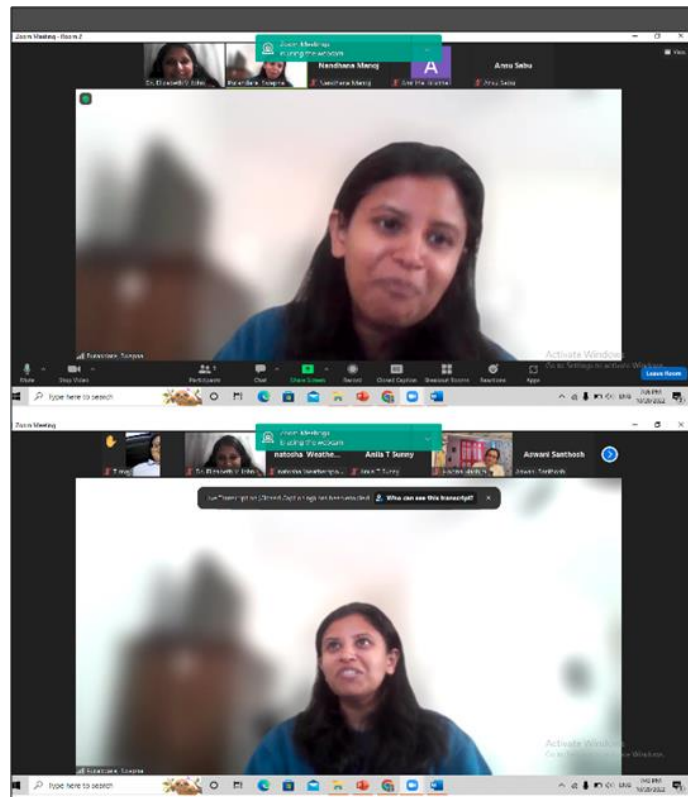
Objective of the program includes -

Effect of toys on the cognitive and psycho-motor development of children.

Faculty in-charge of the program from the two departments are :

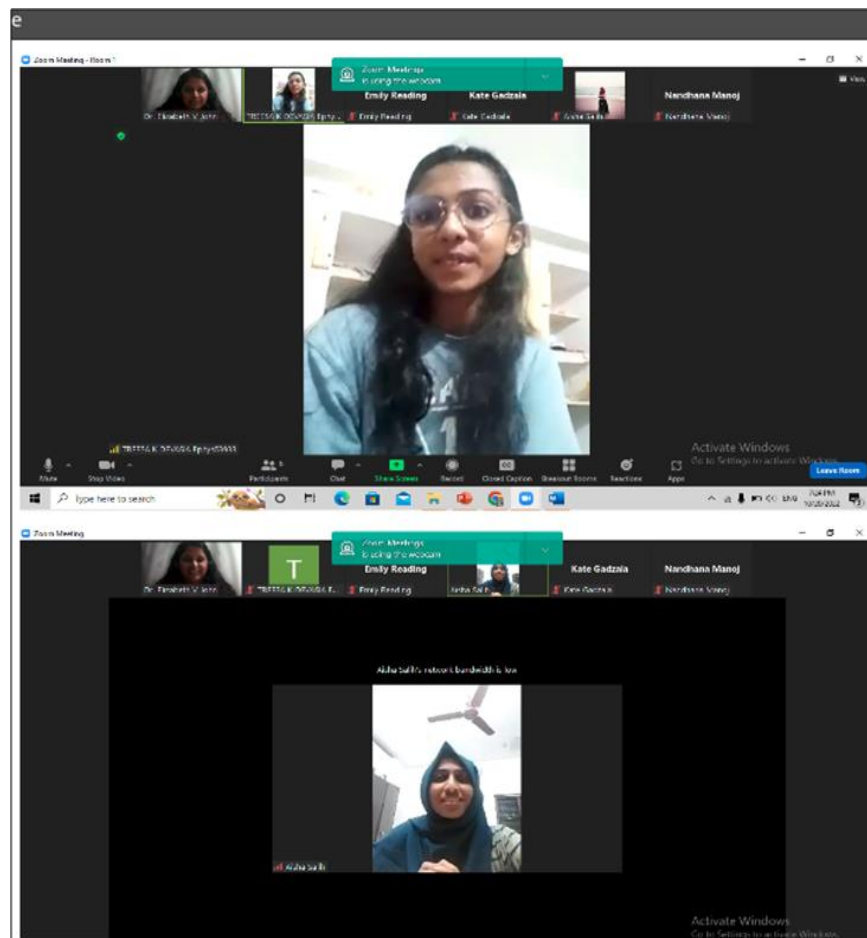
Sinclair College (USA) Faculty: Dr. Swapna Purandare, Early Childhood Education

Bishop Chulaparambil Memorial College Faculty: Dr. Elizabeth V John, Department of Physics



A discussion Session of COIL

The number of Students involved is 14 students from Sinclair College and 30 from BCM College. The students are divided into 5 groups and each group were to submit their project based on a toy selected. The main learning goal of the project was students will demonstrate their ability to identify how a specific toy is developmentally appropriate and how it will be enhancing the specific developmental domain in children. The project helped the students to work with students from a different country and culture. It also helped to improve the knowledge and speaking capability. The five 5-week program was a great opportunity for the overall development of the students.



Students of Physics department presenting their COIL project

GENDER SENSITATION PROGRAMMES

TALK ON WOMEN AND LEADERSHIP


BISHOP CHULAPARAMBIL MEMORIAL COLLEGE
KOTTAYAM

DEPARTMENT OF PHYSICS
IN ASSOCIATION WITH
INTERNAL QUALITY ASSURANCE CELL (IQAC)

Presents
A Seminar on

**WOMEN AND LEADERSHIP -
NAVIGATING CAREERS (LIFE)
SUCCESSFULLY**

Resource Person



Ms. Preethi John
DEPUTY DIRECTOR, GLOBAL BUSINESS
SCHOOL FOR HEALTH, UNIVERSITY COLLEGE
LONDON

Date: 17/06/2022
Time: 3.30pm
Venue: College Auditorium

Brochure of the Program

A seminar by our alumnus, Dr. Preeti John, Deputy Director, Business School for Health, University College, London on the topic ' *Women And Leadership-Navigating Careers Successfully* ' was held at Sr. Savio Hall on 17th June 2022. She is a health and development management professional with 25 years of experience in public and private sector organizations. Her expertise and experience have groomed her as a leader and institution builder. She was chosen

for the 2021 Cohort of Harvard LEAD Fellowship for promoting women in Global Health. Dr. Preeti is the only Asian recipient in the 2021 cohort to do so. The fellowship aims to equip and empower more leaders in global health, together the Harvard Global Health Institute and the Women and Health Initiative at the Harvard .

The program started by invoking blessings of God almighty and welcome speech by Dr Smitha Joseph, HOD Physics department. The program was anchored by 1st year student Megha H Karat. The speaker enlightened the students by how hardwork and perseverance can help to achieve greater heights in life. The program was by the Department of Physics in association with Internal quality assurance cell (IQAC).



A glimpse of the session

The program lighted our minds and paved a way to a new creative life for all of us. Preethi ma'am also spared her valuable time to clear the doubts of the students about how to get into prestigious university like Harvard and how to manage career and life as a woman. All were fascinated by her career guidance class. We all learnt a lot in the program and were happy to have such prominent person for this program. The program ended at 4.30pm with a closing speech by Nandana Manoj of 3rd DC Physics.

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SUBJECT ENRICHMENT PROGRAMMES

WORLD SPACE WEEK OBSERVANCE

World space week ceremony and association ceremony was held in Physics department on September 29, 2022 on 3:00. The program started with a prayer. Megha H Karat, 2nd year physics student delivered the welcome speech. Head of the Department, Dr.Smitha Joseph introduced the honourable guest Prof. P N Thankachan sir, Secretary of Breakthrough Science Society. In connection with space week he conducted a seminar on history of the telescopes and brief explanation of the James Webb Telescope. He taught us various types of telescopes and their functions. The session was innovative which helped us to understand the concept very clearly. He showed students interesting videos which we were glad to see .He showed us many new informative things to us. His class was very interesting and informative. Though he conducted it in a short period of time it was very productive to us .Everyone listened to the class and cleared our doubts. New knowledge was gladly accepted. We all thanked him for being here and spending his valuable time to teach us or to make us aware about space and its wonders.



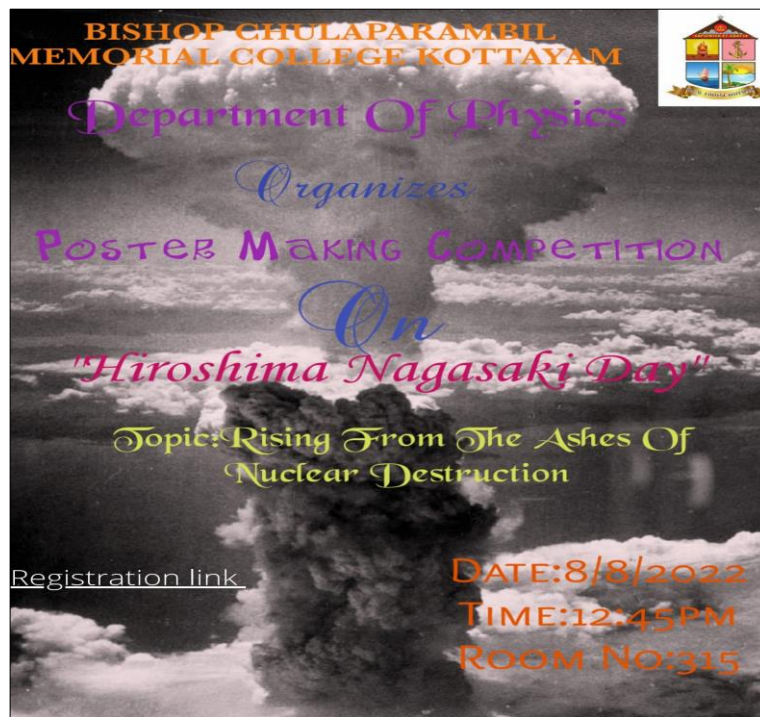
Session by Prof. P N Thankachan sir

HIROSHIMA NAGASAKI DAY

The Department of physics organized a Poster Competition on account of HIROSHIMA NAGASAKI DAY. The topic of the competition was 'RISING FROM THE ASHES FROM NUCLEAR DESTRUCTION'.

The competition was held on 8 August 2022 at 12:45 pm on room number 315. To impart the harmful effects of nuclear weapons on human life, an introductory talk was given by Physics association secretary Ansu Sabu. The talk was informative and fruitful. Several students participated in this competition and are provided with the necessary materials that they needed. Then we started the competition at 1:00 pm. After one hour the competition was concluded. All the participants are wonderfully presented their ideas in their own way.

After the evaluation the result was announced. Jayarani j of 3DC chemistry got the first prize and the second prize was won by Megha H Karat of 2 DC physics. That was the end of our successful poster competition. Winners got the prize and E-certificate.



Brochure

ALUMINI ACTIVITIES

ALUMINAE MEET 2022- REJOICE

Report

Alumnae meet “Rejoice” is a gathering of passed out students of this institution and it is a place where the institution feels proud on seeing its successful alumnae. During their meet, the alumnae community shares their experience in the outside world, which they faced after stepping out of the institution. The meet also creates a platform to identify the department’s most distinguished alumni. This meeting gives ex-students the chance to gel with the people whom they have not met in years. The Department of Physics conducted an alumni meet “Rejoice” a program to consolidate the alumnae. The purpose of alumni meet was to reconnect with the alumnae and celebrate their success and various achievements. The program was held on 1st October, 2022 on 1:00 pm in room number 314.

The alumnae meet started with a welcome speech of the beloved HOD of Physics department Dr. Smitha Joseph. The chief guest of our program was the former HOD, Dr. Marykutty Thomas. She shared her experience about BCM College and her favourite teachers and her experiences. She awarded the university rank holders of the graduated batch of the academic year 2021-2022 with cash prize. Alumnae also interacted with present students and gave the career guidance regarding higher studies and placements. Alumnae shared their views regarding preparations for placements and it was very helpful. 1st years and 2nd years conducted programs to entertain alumnae. They enjoyed the performance. The performance was marvellous. Nandana Manoj secretary of our Physics department delivered vote of thanks. We are grateful to have such an occasion and appreciated faculties of Physics Department for organising this programme. The alumnae took pictures with everyone and the program came to an end on 4:00 pm.



BCM
BISHOP CHULAPARAMBIL MEMORIAL
COLLEGE KOTTAYAM
Department of Science - Wisdom and Grace

DEPARTMENT OF PHYSICS

Invites you to be the part of

REJOICE

ALUMINI EVENT

2022

Happiness is meeting an old friend after a long time, and feeling that nothing has changed."



VENUE:-ROOM NO:315

DATE :- 01-10-2022

TIME :-1:00 PM

Brochure



Rejoice 2022

REJOICE
2022-23










Physics Alumnae Meet

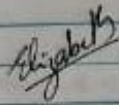
Sl. No	Name & Contact Details	Current Status	Signature
1	Anik Eligalath 828107338	Professor	
2	Preetha . M . S . 9496804969	Panchayat Secretary	
3	Seena . S 9446634331	High School Teacher	
4	Sulochana . K . G . 6238076719	High school teacher	
5	Mann . 9961994385	Business	
6	Ancy Mathan . 9860012975	Business	
7	Jithin . K . Mathew 999305739	Student	
8	Nandana Vijay 9207652610	Student	
9	Anagha . X . Raj 9406682233	Student	
10	Mariya Susan Lal 6282772481	Student	
11	Akhila G. Nair 8590322066	Student	



Head of Centre
Department of Physics
Bishop's College
Pondicherry 605 001

Sl.No	Name - Contact Details	Current Status	Signature
12	Jayamal Jacob (1985-88) 9447779555	ALM (B.SASZ) (VRB) Presently in counselling field	<u>JMJ</u>
13	Manju Joseph (1985-88) 9495562685	Home-maker	<u>Manju</u>
14	KOULA A KUNDRE (1981-88) 9400828406	Asst Secretary in Panchayath of LAL Department (Retired 01/31/20)	<u>K.A.K.</u>
15	Animole K-M (1985-88) 9946557030	Teacher	<u>Animole</u>
16	Antha Mathew 9074093950	<u>Antha</u>	
17	Ashira Maria Johnson 9746935461	Research scholar CMS College	<u>Ashira</u>
18	Donna Susan Abraham 8078749572	<u>Donna</u> B.Ed student	
19	Haritha Thomas 9497707184	Asst Prof GISAT Engg college	<u>Haritha</u>
20	Anusethy Sebastian (2012-2015) 9606852891	Data Scientist, Exact Space, Bangalore	<u>Anusethy</u>
21	SREDEVI (2015-2016) 9061849508	Guest Lecturer MES Ananthi College, Kalyandurg	<u>Sredevi</u>
22	Aravindashree V.H 9761657716	Student	<u>Aravindashree</u>

Sr. No	Name & Contact Details	Pass out year	Current status	Signature
23	Fathima Balthazar 702491565	2022	Student	
24	Neesaja K Shaji 7302998002	2022	Student	
25	Sivan Thackko 7909223945	2022	Student	
26	Aleena Jose Christophos	2021	Student	
27	Shruthi Muralidharan	2021	Developer	
28	Ashika M	2021	Student	
29	Shreela	2009	Web Developer	
30	Sobhitha Chandran	2021	Operations Executive	
31	Jophy Jose	2021	Student	



Dr. Elizabeth V. John
Assistant Professor
Dept. of Physics
B.C.M. College, Kottayam

PARTICIPATION LIST:

Sl.no	Name of participants	Year of study
1	Mitra.Vrinda	2 nd year
2	Aswathy N	2 nd year
3	Josiya George	2 nd year
4	Athira Aniyachan	2 nd year
5	Ammu.K.Reji	2 nd year
6	Tressa.K.Devasi	2 nd year
7	Aleena	2 nd year
8	Sneha Sabu	2 nd year
9	Geetha R	2 nd year
10	Surya.G	2 nd year
11	Janani.K Raj	2 nd year
12	Sneha francis	2 nd year
13	Ardra P	1 st year
14	Gourinandana	1 st year
15	Aswathy	1 st year
16	Jeleeta Luckose	1 st year
17	Jislin	1 st year
18	Anna Elbi	1 st year
19	Fathima	1 st year
20	Shahina	1 st year
21	Aswathy	1 st year
22	Abhirami	1 st year
23	Indupriya	1 st year
24	Ananya Raju	3 rd year
25	Aisha.Sali	3 rd year
26	Aafa.K	3 rd year
27	S.Amrithakriahna	3 rd year
28	Varsha.P.Nair	3 rd year
29	Ansu Sabu	3 rd year
30	Divyamol.S	3 rd year
31	Nandhana Manoj	3 rd year
32	Aswini Santhosh	3 rd year
33	Arjuna Reji	3 rd year
34	Jyothi Lakshmi	3 rd year
35	Nivya Prakash	3 rd year
36	Elsa Rose.K.W	3 rd year
37	Sneha Surendran	3 rd year
38	Lakshmi.P.S	3 rd year

PARTICIPATION IN INTERCOLLEGIATE / INTERDEPARTMENTAL PROGRAMS

INTERDEPARTMENTAL PROGRAMMES CONDUCTED 2022-23

DATE	COMPETITION	NAME OF THE STUDENT	POSITION SECURED	YEAR OF STUDY	CONDUCTED BY
27/06/2022	SPEECH COMPETITION	ASBILIYA S NAIR ASHNA VISHWAMBHARAN ARUNIMA V	FIRST SECOND THIRD	3 DC ENG 3 DC CHEM 1 PG HOME SCIENCE	DEPARTMENT OF PHYSICS
05/08/2022	POSTER COMPETITION	JAYARANI J MEGHA H KARAT	FIRST SECOND	3 DC CHEM 2 DC PHYSICS	DEPARTMENT OF PHYSICS
20/08/2022	SLOGAN WRITING COMPETITION	ARDRA LEKSHMI K J GANGA G NIDIA ROSE GIGI	FIRST SECOND THIRD	3 DC ENG 2 DC ENG M3 2 DC CHEM	DEPARTMENT OF PHYSICS
20/08/2022	ONE WORD TO DESCRIBE COMPETITION	ARDRA SUNIL KUMAR KEERTHY LAKSHMI MARIA ANGEL SAJI	FIRST SECOND THIRD	2 DC BOTANY 2DC ENG M1 3 DC ENG M1	DEPARTMENT OF PHYSICS
10/10/2022	PUZZLE COMPETITION	HARITHASREE S MARIA THOMAS SNEHA JOY ASHNA VISWHWAMBHARAN	FIRST SECOND SECOND THIRD	3DC ENG M1 3 DC ENG M1 3 DC ENG M1 3 DC CHEM	DEPARTMENT OF PHYSICS
19/08/2022	PENCIL ART COMPETITION	RENU KANWAR MEGHNA M P	FIRST SECOND	2 DC COM 3 DC ENG M2	DEPARTMENT OF PHYSICS
20/10/2022	KSEB POWER QUIZ	HARITHASREE S AMALA ANNA RAJESH	FIRST SECOND	3 DC ENGLISH 2DC MATH	DEPARTMENT OF PHYSICS

08/08/2022	SLOGAN WRITING COMPETITION	ANSU SABU NANDHANA MANOJ	FIRST SECOND	3 DC PHYSICS 3 DC PHYSICS	DEPARTMENT OF MATHEMATICS
12/12/2022	GROUP DISCUSSION	TREESA K DEVASIA MITHRA VINDA S KUMAR	FIRST	2 DC PHYSICS	DEPARTMENT OF COMMERCE
22/09/2022	ALZHEIMERS DAY QUIZ COMPETITION	TREESA K DEVASIA	SECOND	2 DC PHYSICS	DEPARTMENT OF ZOOLOGY

INTERDEPARTMENTAL SPEECH COMPETITION

Report

The department of physics in association with anti-narcotic cell organizes a speech competition in account of international day against drug abuse and illicit trafikking. The topic of the competition was ‘drug addiction -is it a choice’.The competition was held on 27 June 2022 at 12:45 pm on room number 315.The Competition started at 1 pm in the presence of our two judges from our college- Fr. Byju mukalel (Assistant Professor, Malayalam department)and Philisy Philip (Assistant Professor, English department). The competition started with 6 participants. The medium of language was Malayalam or English. Judges conveyed the rules and regulations before starting the competition. All the participants wonderfully presented their ideas, in their own ways. What Is addiction, really? It is a sign, a signal, a symptom of distress. It is a language that tells us about a plight that must be understood.”.. Every participant has their own strong opinion about the choice of drug addiction. Some say it is a choice, some say it’s not a choice. The opinions have strong reason and the participants expressed their ideas fluently and clearly. At the end judges announced the result. Asbiliya s Nair of 3rd Dc English, Ashna viswabharan of 3rd Dc chemistry, Arunima v of 1st Home science won the first, second and third prize respectively. Winners were awarded prizes and e certificate. The Speech competition was very enlightening and the competition came to an end by 2:00 pm.




Asbiliya S Nair(Ist)



Ashna Vishwambharan(IIInd)



Arunima S (IIIrd)


BCM College Kottayam
 Balam Changanthi Memorial College

Department of Physics
 In association with
Anti Narcotic Cell
Organizes
"Speech Competition"
"In account of international day against drug abuse and illicit trafficking"

Topic : Drug addiction-Is it a choice?







GUIDELINES ;

- The speech should not exceed more than 3 minutes.
- Medium of language- English or Malayalam
- E-certificates will be provided

DATE: 27 JUNE, 2022
TIME: 12.45 PM
VENUE: ROOM No. 315

Brochure

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Name	Department	Sign
101. Mitna Vinda S. kumar	II nd yr Physics	
102. Anurima-B	I st yr	
103. Ashna Vishwambhawan	III rd yr Chemistry	
104. Nimisha Sunny	I st year MSW	
105. Sonica Mol Senthosh	I st year MSW	
106. Ashliya -S. Nair	III rd yr English	

Results:

Ist prize - Ashliya S. Nair

IInd prize - Ashna Vishwambhawan

IIIrd prize - Anurima v.

Judges:

- Fr. Bijju Mukalel
- philip philip

Participant list

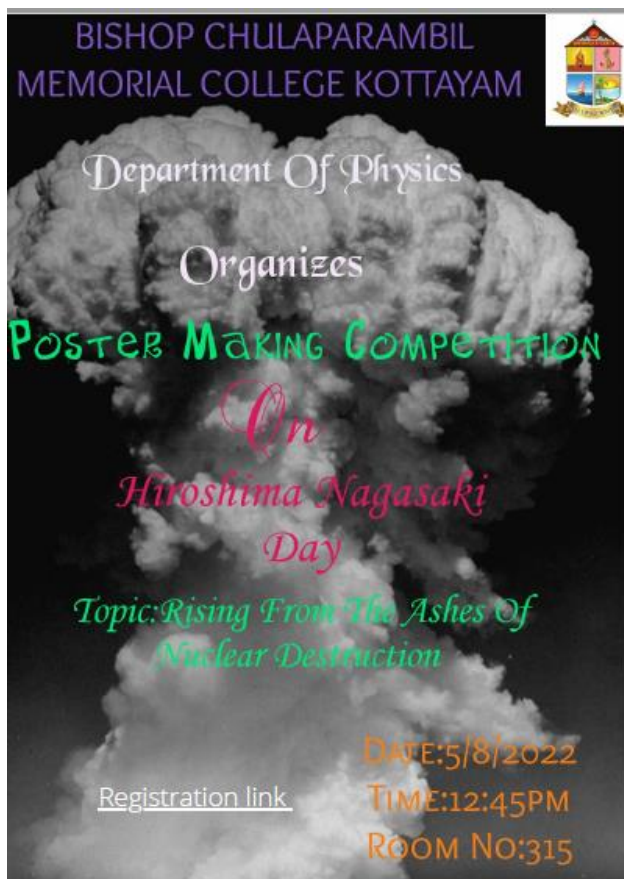
INTERDEPARTMENTAL POSTER DESIGNING COMPETITION

Report

The department of physics organised a Poster Competition in account of HIROSHIMA NAGASAKI DAY. The topic of the competition was RISING FROM THE ASHES FROM NUCLEAR DESTRUCTION.

The competition was held on 5 August 2022 at 12:45 pm on room number 315. The competition was start with the presence of 5 participants. The members of physics department arranged all the settings before starting the competition. We provided them with the necessary materials that they needed. Then we started the competition at 1:00 pm. After one hour the competition was concluded. All the participants are wonderfully presented their ideas in their own way.

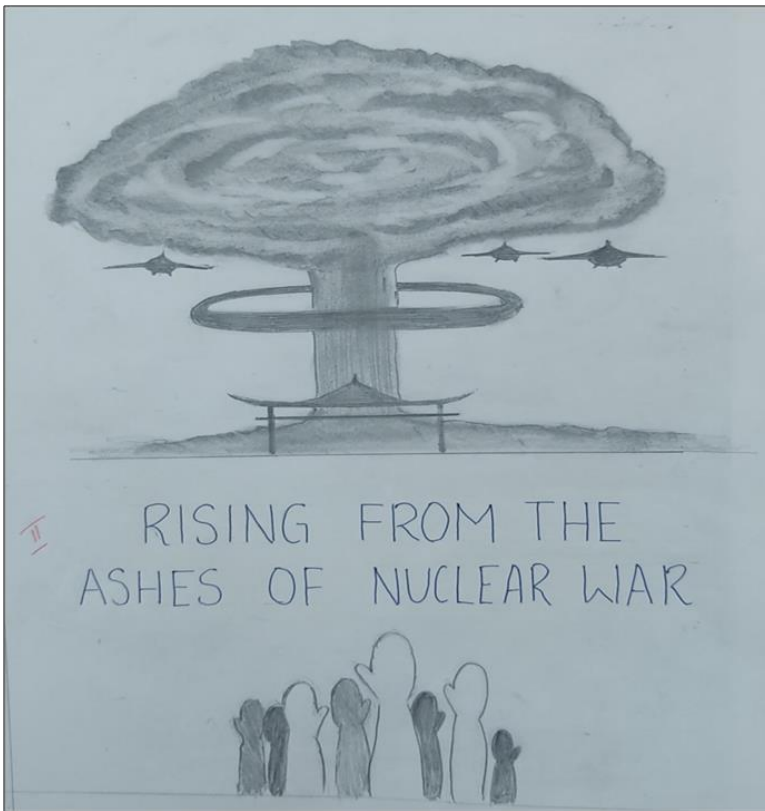
After the evaluation the result was announced. Jayarani j of 3DC chemistry got the first prize and the second prize won by Megha H Karat of 2 DC physics. That was the end of our successful poster competition. Winners got the prize and E-certificate.



Brochure



First prize



2nd prize

POSTER COMPETITION

43

Topic: Rising from the ashes from Nuclear Destruction.

DATE: 05/08/2022 TIME: 1:15 PM

VENUE: Room No: 314

No	NAME	YEAR	DEPARTMENT	Sign.
1	Namitha Suresh	11 th	Mathematics	
2	Danika S. Pariparambil	"	"	
3	Vaindbapriya V	"	"	
4	Jayarani J.	"	Chemistry	
5	Megha H. Karat	11 th	Physics	

Results:

1st prize :- Jayarani J IIIrd oc chemistry

IInd prize :- Megha H. Karat IInd oc physics

Dr. Elizabeth V. John
Assistant Professor
Dept. of Physics
B.C.M. College, Kottayam

Participant List

INTERDEPARTMENTAL SLOGAN WRITING COMPETITION

Report

As a part of Azadi Ka Amrit Mahotsav, the Department of physics conducted a online slogan writing competition on 20th August 2022. The topic of the slogan writing competition was Freedom. The entries are accepted through the email id or phone number of the office bearers. Many entries are sent by the students about the topic freedom. The winners of the programme are as follows.

First prize: Ardra Lakshmi K.J : 3 DC English

Second prize: Ganga G : 2 DC English

Third prize: Nidia Rose Gigi : 2 DC Chemistry



Brochure

SLOGAN WRITING COMPETITION

Topic: Freedom

Venue: Online

46 Date: 20th August

Time :- 9.00 am to 9.00 pm

No	NAME	YEAR	DEPARTMENT	SIGN
1	Arsha Lakshmi K.J	3rd	English	
2	Ganga G	3rd	English M3	
3	Nidra Rose Gigi	2nd DC	Chemistry	
4	Shilpa Saji	3rd DC	Maths	
5	Hanna Saji	2nd DC	Sociology	
6	Meghana M P	3rd DC	English M2	
7	Amia Angel Saji	3rd DC	English M1	
8	Srinidhi Raj	3rd DC	Zoology	
9	Nemmy	3rd DC	Botany	
10	Nemmy Mathis Vindhapriya	3rd DC	Mathematics	
11	Keerthy Lakshmi Raj	2nd DC	Eng M1	
12	Arsha Sunil Kumar	11	Botany	
	1st Prize :- Arsha Lakshmi K.J	3rd	English	
	2nd Prize :- Ganga G	11	Eng M3	
	3rd Prize :- Nidra Rose Gigi	2nd	Chemistry	

Elizabeth

Dr. Elizabeth V. John
Assistant Professor
Dept. of Physics
B.C.M. College, Kottayam

Participants List

INTERDEPARTMENTAL- ONE WORD TO DESCRIBE COMPETITION

Report

As a part of Azadi Ka Amrit Mahotsav, the department of physics conducted an 'One word to describe' competition. The topic of the competition was 'Journey of India towards freedom. There were 12 participants. We provided them with the necessary materials that they needed. Then we started the competition at 1:00 pm. After one hour the competition was concluded. All the participants are wonderfully presented their ideas in their own way. It was very interesting to see the one word term for the journey of India. The winners are;

First prize : Ardra Sunilkumar

Second prize : Keerthy Lakshmi

Third prize : Maria Angel Saji



Bishop Chulaparambil Memorial College
Department of Physics
IGNITE PHYSICS ASSOCIATION 2022-2023
Celebrating
75th independence day
one word to describe
Topic: Journey of India towards
freedom
Date:20th August 2022
Time:9am-9pm

Brochure

ONE WORD TO DESCRIBE COMPETITION

Topic :- Journey of India towards freedom 47

Date :- 20th August 2022

Time :- 9am - 9pm

No	NAME	YEAR	DEPARTMENT	Sign
1.	Ardra Sunil Kumar	2nd DC	Botany	
2.	Hanna Saji	2nd DC	Sociology	
3.	Maria Angel Saji	3rd DC	Eng M1	
4.	Keerthy Saji Dakshmi	2nd DC	Eng M1	
5.	Nidita	3rd DC	Chemistry	
6.	Meghana M P	3rd DC	Eng M1	
7.	Shilpa Maths	11	Mathematics	
8.	Ishitha Manam mathew	11	Chemistry	
9.	Vandhapriya	11	Mathematics	
10.	Vybhavi Bommon	11	Eng M1	
11.	Ganga. G	11	English M3	
12.	Devika	11	Maths.	
	1st prize :- Ardra Sunil Kumar	2nd DC	Botany	
	2nd prize :- Keerthy Dakshmi	2nd DC	Eng M1	
	3rd prize :- Maria Angel Saji	3rd DC	Eng M1	

Elizabeth

Dr. Elizabeth V. John
Assistant Professor
Dept. of Physics
B.C.M. College, Kottayam

Participant List

INTERDEPARTMENTAL- PUZZLE COMPETITION

Report

The department of Physics conducted a puzzle competition in account of Space Week. The topic of the competition was 'Space'. The competition was held on 10th October 2022 at 1 pm on room number 315. The competition was start with the presence of 9 participants . The members of Physics department arranged all the settings before starting the competition. We provided them with the necessary materials that they needed. Then we started the competition at 1:10 pm. After 20 minutes the competition was concluded. All the participants was did well to their knowledge.After the evaluation, the result was announced. Harithasree S of third dc m1 english got the first prize. Maria thomas and Sneha joy of third dc m1 english shared the second prize. And the third prize won by Ashna Viswambaran of third dc chemistry that was the end of our successful puzzle competition. Winners got the prize and e - certificates awarded.



Brochure

PUZZLE COMPETITION

Topic :- space

48

Date : 10/10/2022

Venue: Room No : 314

Time : 1:00 PM

No:	NAME	YEAR	DEPARTMENT	SIGN	NUMBER
1.	Sheeya Elizabeth Shiju	3 rd	English M1	<i>Sheeya</i>	1.
2.	Maria Thomas Ittop	3 rd	English M1	<i>Maria</i>	2.
3.	Harithasree S	3 rd DC	"	<i>Harithasree</i>	3.
4.	Sneha Joy	3 rd DC	English M1	<i>Sneha</i>	4.
5.	Riya J. Thomas	1 st DC	MATHS	<i>Riya</i>	5.
6.	Anjali Kalsbhan	1 st DC	Maths	<i>Anjali</i>	6.
7.	Ashna Viswambharan				7.
8.	Binduja V.B	1 st DC	Botany	<i>Binduja</i>	8.
9.	Dr. Hanna Elizabeth Jose	2 nd DC	Botany	<i>Hanna</i>	9.

RESULT

1 st Prize :-	Haritha Sree S	3 rd DC	M ₁ (English)
1 st 2 nd	Maria Thomas	" "	"
1 st 3 rd	Sneha Joy	" "	"
1 st 4 th	Ashna Viswambharan	3 rd DC	Chemistry

Elizabeth
 Dr. Elizabeth V. John
 Assistant Professor
 Dept. of Physics
 B.C.M. College, Kottayam

Participant List

INTERDEPARTMENTAL- PENCIL ART COMPETITION

Report

As part of Azadi ka Amrit Mahotsav the Department of physics conducted an inter departmental Pencil Art competition on 19 august 2022, on the topic “one nation, one vision, one identity” in room number 314 at 1:00 pm.

Ten participants from different department came for the competition and it became a successful one. Different art of pencil were seen in that competition. Participants happily participated and art with the theme was very beautiful. Then we started the competition at 1:10 pm. After 20 minutes the competition was concluded.

Renu kanwar of 2nd Dc Commerce secured first prize and second prize was won by Meghana M.P of 3rd dc English m2.



Brochure

PENCIL ART COMPETITION

Topic :- One nation, one vision, one identity

U 44

Date: 19/8/2022

Venue: Room No 314

Time: 100pm.

No	NAME	YEAR	DEPARTMENT	SIGN.
1.	Devika Prinj	3 rd DC	Zoology	<i>[Signature]</i>
2.	Saathy M.S	3 rd DC	Zoology	<i>Saathy</i>
3.	Aisha Bashier	3 rd DC	English H1	<i>[Signature]</i>
4.	Archana Murukan	3 rd DC	chemistry	<i>[Signature]</i>
5.	Anjitha. G	3 rd DC	chemistry	<i>[Signature]</i>
6.	Meghana M.P	3 rd DC	English H2	<i>[Signature]</i>
7.	Sania Sreenivasan	2 nd DC	Commerce	<i>[Signature]</i>
8.	Renu Kanwar	2 nd DC	Commerce	<i>Renu</i>
9.	Parvathy. S. Pillai	2 nd DC	Commerce	<i>Parvathy</i>
10.	Anjitha. G			

Result

1st :- Renu Kanwar. 2nd DC Commerce

2nd :- Meghana M.P 3rd DC English H2

Elizabeth

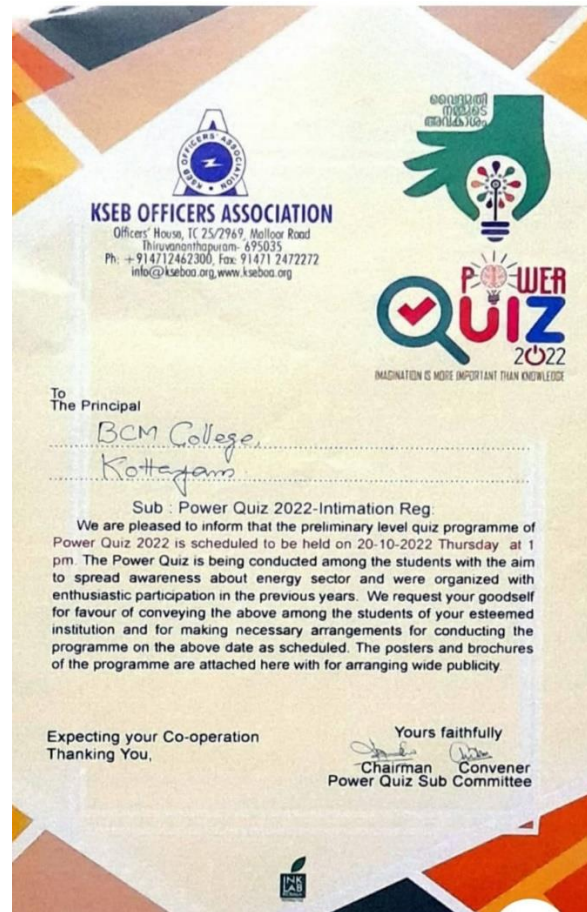
Dr. Elizabeth V. John
Assistant Professor
Dept. of Physics
B.C.M. College, Kottayam

Participant List

KSEB - POWER QUIZ

Report

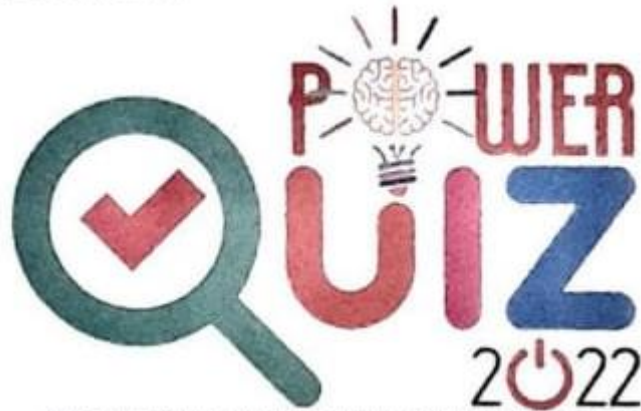
Department of Physics in association with Kerala State Electricity Board (KSEB) conducted a power quiz for students of all department on the topic 'current affairs'. The competition was held on October 20, 2022 at room no 315. The quiz competition began at 1:00 pm. 31 participants from all departments participated in the competition. The question bank was provided by the members of KSEB. The quiz ended at 1:45pm. Later the results were announced. First prize was secured by Harithasree S of 2nd DC English and Amala Anna Rajesh of 2nd DC Mathematics got the second prize. And they were selected to participate in the district level competition.



Brochure



കെ.എസ്.ഇ.ബി
ഓഫീസേഴ്സ്
അസോസിയേഷൻ



IMAGINATION IS MORE IMPORTANT THAN KNOWLEDGE

പ്രാഥമികതല ഉത്സരം

2022 ഒക്ടോബർ 20 വ്യാഴം

ഹയർ സെക്കൻഡറി, കോളേജ്, പോളിടെക്നിക്
ഐ.ടി.ഐ, ഐ.ടി.സി, എൻജിനീയറിംഗ് കോളേജ് വിദ്യാർത്ഥികൾക്ക്

ജില്ലാതല
ഉത്സരം
2022 നവംബർ

സംസ്ഥാനതല
ഉത്സരം
2022 ഡിസംബർ

Brochure

KSEB - POWER QUIZ

Topic :- Current Affairs

Venue : 315

Time : 1:00 pm

51

No	NAME	GRADE	DEPARTMENT	Sign.
1	Shreya Shaji	III DC	Economics	Rasa
2	Sowathy Sathosh	III DC	History	Shruthi
3	Abhirama Mahesh	III DC	History	Shruthi
4	Ansu Sabu	III DC	Physics	Ansu
5	Nandhana. Manoj	III DC	Physics	Nandhana
6	Sreya Suresh	III DC	Physics	Sreya
7	Alisa Rose K.W	III DC	Physics	Alisa
8	Aranya Rayu	"	"	Aranya
9	Lakshmi P.S	"	"	Lakshmi
10	Aswani Santhosh	"	"	Aswani
11	Ajaya Reji	III DC	Physics	Ajaya
12	Asha Saji S	"	"	Asha
13	Jyothi Dassana Md T	II nd DC	Mathematics	Jyothi
14	Amala Anna Rajesh	"	"	Amala
15	Shahina K.S	I st DC	Physics	Shahina
16	Riya J. Thomas	I st DC	Maths	Riya
17	Ajisha Babu	III DC	Eng. MI	Ajisha
18	Haritha Sree S	III DC	Eng. MI	Haritha
19	Arya Prasad	III DC	History	Arya
20	Jobin Joseph	III DC	History	Jobin
21	Lekshmi Suresh	I st DC	Sociology	Lekshmi
22	Mithal Maria Joseph	I st DC	Sociology	Mithal
23	Vanitha Wilson	I st DC	History	Vanitha
24	Shilpa Sharada	III rd DC	"	Shilpa
25	D.S. Kavayalekshmi	III rd DC	"	D.S.
26	Nandita Prasad	III rd DC	"	Nandita
27	Jeeeta Lukose	I st DC	Physics	Jeeeta
28	Indupranya S	I st DC	Physics	Indupranya
29	Asritha Raji P	I st DC	Physics	Asritha
30	Krishnanjaly P.J	I st DC	"	Krishnanjaly
31	Abhirama S. Vinod	I st DC	"	Abhirama
32	S. Amritha Koushika	3 rd DC	"	Amritha

52

31	Vanitha P Nair	3 rd DC	Physics	Vanitha
RESULT				
I st Prize: Haritha Sree S		III DC	English	
II nd Prize: Amala Anna Rajesh		II DC	Mathematics	

Participant List



Power Quiz Competition in Progress

PRIZES IN INTERCOLLEGIATE COMPETITION 2022-23

COMPETITION	NAME OF THE STUDENT	POSITION SECURED	CONDUCTED BY
PRESENTATION COMPETITION	NANDHANA MANOJ AISHA SALI S	PARTICIPATION	BASELIOUS COLLEGE, KOTTAYAM
THIRUVATHIRA COMPETITION	NANDHANA MANOJ LAKSHMI P S VARSHA P NAIR	THIRD	NEHRU YUVA KENDRA, KOTTAYAM
PRESENTATION COMPETITION	NANDHANA MANOJ AISHA SALI S	PARTICIPATION	KG COLLEGE, PAMPADY
PRESENTATION COMPETITION	MITRA VINDA S KUMAR	SECOND WITH CASH PRIZE	BK COLLEGE, AMALAGIRI
TRENDSETTER COLLEGE CONTEST	VARSHA P NAIR DIVYAMOL S JYOTHILAKSHMI D	SECOND	TRENDS AND MALAYALA MANORAMA
DANCE COMPETITION	VARSHA P NAIR	FIRST	YWCA KOTTAYAM
ESSAY WRITING COMPETITION	ANSU SABU	THIRD	PANGODU MILITARY CAMP, TVM
BASKETBALL COMPETITION, INTER BATTALION	ANSU SABU	SECOND	PANGODU MILITARY CAMP, TVM

ARTS FEST PARTICIPATION

KALOISAVAM 'ARANGU'

Competition	Name of the Student	Position
Essay writing English	Ammu.K.Reji	2 nd
Essay writing Hindi	Mitra Vinda S Kumar	3 rd
Short story English	Ammu.K.Reji	3 rd
Short story Hindi	Ammu.K.Reji	3 rd
Poster designing	Indupriya	3 rd
Recitation Hindi	Mitra Vinda S Kumar	3 rd
Quiz	Mitra Vinda S Kumar	3 rd
Group Dance		3 rd

The department of Physics participated in various programmes conducted by college in accordance with Azadi Ka Amrit Mahotsav and other occasion.



Team for ethnic walk

Physics department participated in ethnic walk organized by the college on 12/08/22. Students of the department also participated in the Patriotic Song competition and Notice Board Competition. Department of Physics secured 2nd position for each.

Ananya Raju and Lakshmi P S also participated in Malayali Manka competition organized on 2 September 2022, as part of onam celebration.



Brochure



Participants for the event

The department also participated in the GRAMEENAM programme on 1st November, 2023 as part of Kerala Piravi.vi.



Team for patriotic song



Image from Grameenam



Group dance team

PARTICIPATION IN NCC/NSS

NCC

Cadet Janani Kanakaraj, the proud cadet of BCM College NCC Unit 5 Kerala Girls Bn Changanassery was the only girl cadet from Kerala being selected for the 87 Adventure course conducted at Pahalgam, Jammu and Kashmir from 18th April 2022 to 1st May 2022. She deemed to be the first in team tent pitching competition. Evincing this she was adorned with the on sport award by Lt. General Gurbirpal Singh, AVSM, VSM, DG NCC on 10th May 2022 at 3(K) Air Sqn.



Cadet Janani Kanakaraj receiving prize



Participating in adventure camp at Pahalgam

NCC PARTICIPANTS

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the following students of the Department of Physics actively participated in various activities in NCC during the academic year 2022-23.

1. Ansu Sabu - 3rd Year
2. Sneha Surendran - 3rd Year
3. Janani Kanakaraj - 2nd Year
4. Josiya George - 2nd Year
5. Treesa K Devasia - 2nd Year
6. Surya G - 2nd Year
7. Jislin Jose - 1st Year

* Janani Kanakaraj of 2nd DC Physics has selected for the 87 Adventure Course conducted at Pahalgam from 18th April, 2022 to 1st May, 2022.

* Ansu Sabu, Sneha Surendran of 3rd DC Physics passed the B certificate examination.

NSS PARTICIPANTS

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the following students of Department of Physics are NSS volunteers and actively participated in various activities by NSS during the academic year 2022-23.

1. Geetha R - 2nd Year
2. Ardra Renji P - 1st Year
3. Jeleeta Lukose - 1st Year
4. Krishnajali P.A - 1st Year
5. Indupriya A - 1st Year
6. Shahina K.S - 1st Year

FREESHIPS/ SCHOLARSHIPS

STUDENTS RECEIVING SCHOLARSHIPS

NAME OF STUDENT	NAME OF FREESHIPS/ SCHOLARSHIPS	AMOUNT (RS)
ANSU SABU	CENTRAL SECTOR SCHOLARSHIP	10000
SNEHA SURENDRAN	CENTRAL SECTOR SCHOLARSHIP	10000
ELSA ROSE K. W	POST MATRIC SCHOLARSHIP	6000
ATHIRA ANIYACHAN	VIDHYA KIRANAM SCHOLARSHIP	10000
SAFA K B	E-GRANT	4000

EXTENSION PROGRAMME

CLASSES CONDUCTED

Class at St.Thomas Girls HSS Puthenagady

The department of physics in association with Breakthrough Science society organized a talk in account of world space week celebration. the topic of seminar was 'James Webb space telescope'. The session was held on 11 October 2022 at 11 am at St.Thomas, GHS, Puthenagady. The seminar started at 11 am in the presence of prof.P.N.Thankachan., secretary, Breakthrough science society. It was a great experience for us.

The seminar was for high school students of St.Thomas GHS, Puthrnagady. The members of Breakthrough science society arranged all settings before starting the seminar. The medium of seminar was malayalam. A quiz competition based on 'space' followed the seminar. All the students participated with great enthusiasm. The student who scored highest score in quiz was awarded with a book on life of Albert Einstein. It was a wonderful session for us. The session helped the students to know more about different types of space telescope and how they work.



Brochure



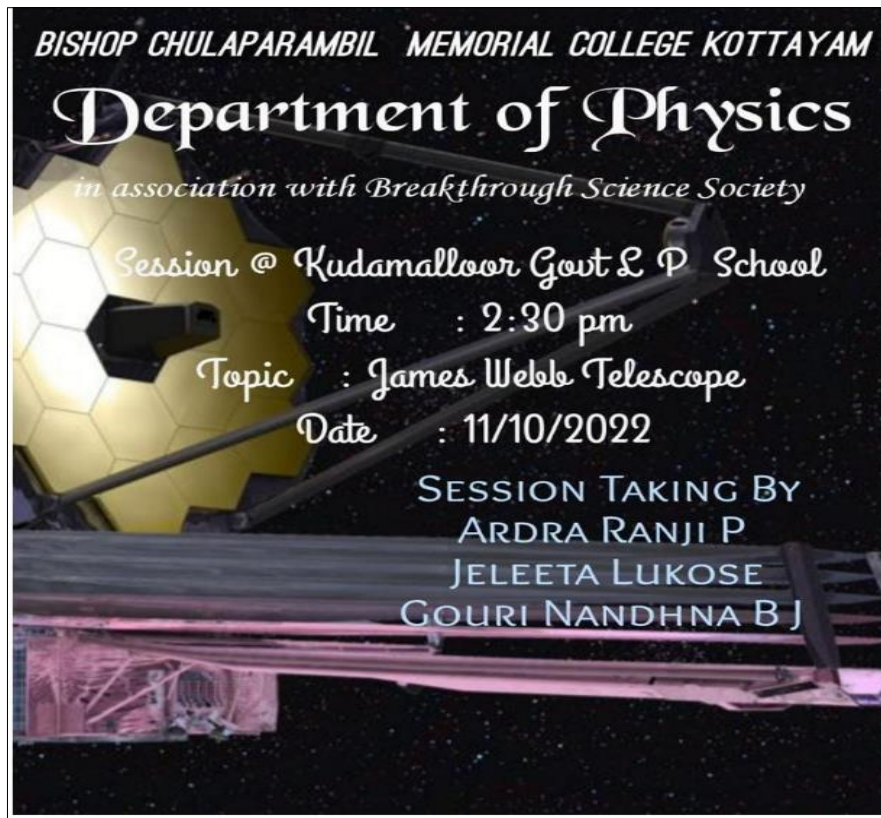
A glimpse of the session

Class at Govt. LP School Kudamaloor

The department of Physics in association with Breakthrough science society conducted a seminar at different schools on account of world space week celebrations. The topic of seminar was 'James Webb space telescope'. The session was handled by Ms. Ardra Ranji P and Ms. Jeleeta Lukose of IDC Physics on 11 October 2022 at 2 pm at Government LP school kudamaloor. The seminar was started at 2pm in the presence of Prof. P N Thankachan, secretary, break through science society. It was a great occasion for us, that Prof. P.N. Thankachan, Retd. Faculty, RIT, Pampady was the guide of our seminar. We also received guidance from Dr. Smitha Joseph, H.O.D, Department of Physics. Both the guides are the main rock of our successful seminar.

The seminar was started with the presence of LP students of Government LP school Kudamalloor. The members of Breakthrough Science Society made all the arrangements for the seminar. The medium of the seminar was Malayalam. Towards the end of the session we made an interactive talk and conducted a quiz competition based on 'space'. The students participated with great enthusiasm. The student who scored highest in quiz was awarded with a book on life of Madam Curie.

It was a wonderful experience for us. The session helped the students to know more about different types of space telescope and how they work. The session came to an end by 4 pm.



Brochure

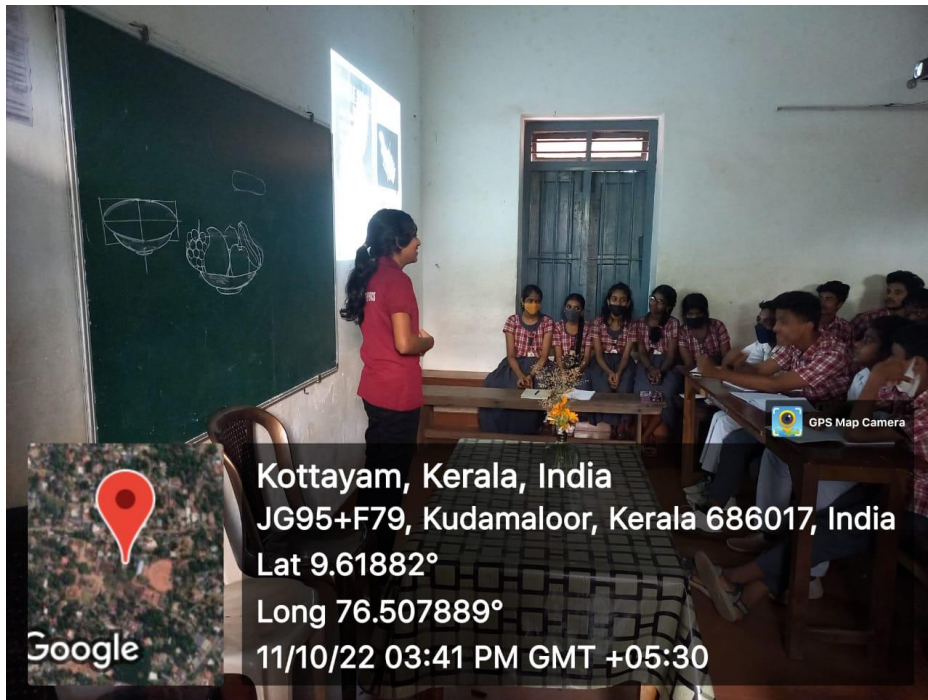
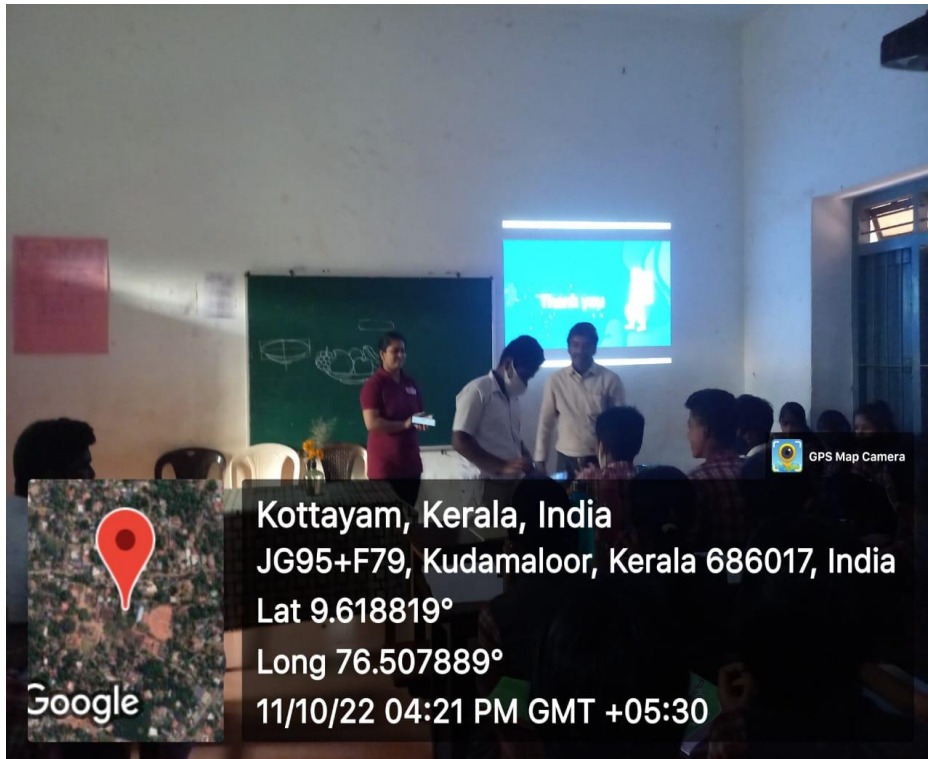


A glimpse of the session

Class at Govt. HS , Kudamaloor

The Department of physics in association with Breakthrough Science society organized a talk in account of world space week celebration. The topic of seminar was 'James Webb space telescope'. The session at Govt. HS , Kudamaloor was held on 11 October 202 at 3.30 pm in the presence of prof.P.N. Thankachan, secretary, Breakthrough science society. It was a great experience for us.

The seminar was for high school students of Govt. HS , Kudamaloor. The members of Breakthrough science society arranged all settings before starting the seminar. The medium of seminar was malayalam. A quiz competition based on 'space' followed the seminar. All the students participated with great enthusiasm. The student who scored highest score in quiz was awarded with a book on life of Albert Einstein. The was a wonderful session for us. The session helped the students to know more about different types of space telescope and how they works.



A glimpse of the session

IV REPORT

An Industrial visit to “Periyar Power Station” was organized by the Physics Department of BCM College on 3rd March 2023. Eleven third year students and two faculties visited the power station to understand the methods and working of a power station. Periyar Hydroelectric project is erected in the Periyar lake of Theni district in the state of Tamilnadu in India. The basin of powerplant is periyar river.

It was a very interactive and useful session for everyone. The session was explained by the Officer of the power station. First we visit the power station one by one. He explained the working and materials were used to generate electricity. Very huge machines are used to produce 11 KV current. Before entering there, the officers gives many instructions that do not touch anywhere and so on.

We understand what the process of generating electricity in a power station. The officer explained all the principle and procedure to us.



At Periyar Power Station

SKILL DEVELOPMENT PROGRAMME

1. TALK ON AGNEEPATH

AGNEEPATH is a relevant issue in news. Ananya Raju talked about AGNEEPATH, and its advantages and disadvantages on 23rd June, 2022. Agneepath Scheme is a new scheme introduced by the Government of India on 14 June 2022, for recruitment of soldiers below the rank of commissioned officers into the three services of the armed forces. The Agnipath Scheme will be the only route for recruitment into the military. The youth selected under the Agneepath scheme will be categorised as Agniveers. With the announcement of this Agnipath Scheme, a window of opportunity has been opened for the youths to serve their nation for a period of 4 years.

Agneepath Scheme: Central Government Benefits Agniveers will get Rs 30,000-45,000 per month as salary. At the end of the four-year contract, 25 per cent of 'Agniveer' will be inducted into the army. The rest will get Rs 11-12 lakh in one lap at the time of retirement. 3 days ago. The Agneepath Scheme will provide employment to the candidates only for 4 years. Only 25% of the candidates will be made permanent after the training period and the other 75% will have to leave the job. There will be no pension for the candidate appointed during the Agneepath Scheme 2022. The selected candidates will be recruited for the non-commissioned ranks only such as Sepoy, Naik, and Lance Naik. This recruitment is only for 17.5-23 years of candidates. There is no job security as the candidates will again become unemployed after the 4 years of service. There will be no extra or basic benefits will be provided to the candidate alike the other government jobs.

For conducting this talk every body clearly understand what is agneepath and its benefits and non-benefits. All the students and our teachers are bothered about that topic. It's a wonderful session for us. After the talk we discuss about that talk and much more understand something more. The talk was very informative and eye opener. The talk was open for the discussions.



2.DANCE PERFORMANCE

On 19 August, 2022 a dance performance was conducted by Varsha P Nair of 3rd BSc Physics as a skill development program. That was an awesome performance of Varsha. All the students enjoyed. By conducting these programs, students got the courage of participation in various extracurricular activities.



Varsha P Nair performing a dance

LED LIVE LAB ASSEMBLING

Objective

To make students independent and to make them good entrepreneurs.

Outcome

- To give the basic knowledge about LED bulbs and it's making and fixing
- The students made LED bulbs .
- The LED bulb cover was prepared by the students of the English department.
- The LED bulb sold in Azhchavattom

Report

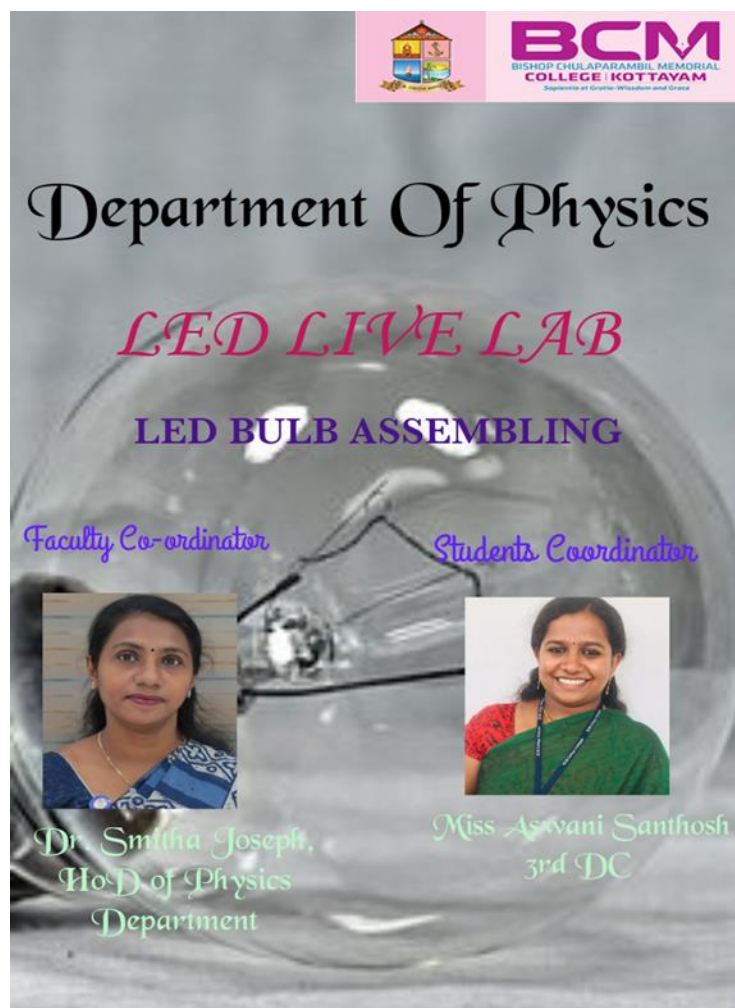
A Light Emitting Diode bulb assembly as LED live lab program was organized by the Physics Department on 18 th January 2023 as Dr. Smitha Joseph, HoD of Physics Department, BCM College, Kottayam as Faculty Coordinator and Miss. Aswani Santhosh, 3 rd Dc Physics Department as Students Coordinator. All students of 1 st DC, 2 nd DC and 3 rd DC participated in the program. The training for students was given by Mr. Tom Simon, Lab Assistant, Department of Physics. The program was conducted to make the students self- earning and independent. The live lab started by giving the basic knowledge about LED bulbs.

Advantages of LED bulbs:-

- Long Lifespan.
- Energy Efficiency.
- Improved Environmental Performance.
- The Ability to Operate in Cold Conditions.
- No Heat or UV Emissions.

- Design Flexibility.
- Instant Lighting and the Ability to Withstand Frequent Switching.
- Low Voltage

The session gave ideas about the fixing, making and selling of LED bulbs. In the session, fixing of LED bulb holders, making connections, fixing of LEDs and soldering of connections was studied. The LED bulb cover was made by the association of the English department. A few of the LED bulb were sold at MSW Azhchavattom on 23 rd January 2023 at Rs 70/-. The program helped students to be good entrepreneurs. The students were very enthusiastic, and the session helped with developing the entrepreneurship skills. After the session, students are able to elaborate on their new ideas to make them independent.



Brochure




LED Live Lab Assembling workshop

INNOVATIVE PROGRAMS


SKY WATCHING

Department of Physics in association with Breakthrough Science Society organised a night sky watching programme on 23rd January 2023 at college patio. The inaugural meeting began at 5:30 PM. All the students of Physics department along with their parents, members of Breakthrough Science Society and hostlers take part in this event. The association secretary Ansu Sabu delivered the welcome speech. The secretary of Breakthrough Science Society Prof. P N Thankachan inaugurated the function. After that he explain the structure and working of telescope. At 7 pm the visitors and students of nearly 100 in numbers reached the terrace of college building and observed the planet Jupiter this time the planet is seen with four of its on satellite on its right side digitals were excited on saying The Spectacular show orderly visit by the visitors during the telescopes were arranged. Next the projected the planet Saturn this is an unusual planet were one can witness a ring in the middle. This time the planet is closest to moon. Atlast we focused the moon. Since it is a full moon day the visitors were advised to look to the entire surface. Members of Breakthrough Science Society also bring 4 telescope for us to watch the Sky views. Students from physics department made two telescopes for observing the sky. Presidential address were delivered by Dr Smitha Joseph Head of the department of Physics. Vote of thanks were given by Aisha Sali, 3 rd DC representative. The staff of breakthrough science society along with supporting and security staff put down a good show by performing their assign role throughout the programme. A number of news reporters came to cover the program and the news was published in a very established newspaper. The programme ends at 10:00 p.m. on 23rd January 2023.The programme was very successful and effective for everyone.

DEPARTMENT OF PHYSICS 

In association with
BREAKTHROUGH SCIENCE SOCIETY
 organises

NIGHT SKY WATCHING
 On January 23rd 2023



Venue:-College Patio
 5.30 pm onwards



Sky watching workshop

KNOWLEDGE CORNER

A knowledge corner was organised by the department for making others aware about important innovations in the field of Physics. Every week charts or models were exhibited in the knowledge corner.

Both 3rd dc, 1st dc and 2nd dc participated whole heartedly. By doing this, others can have a knowledge about some unknown things and we will also get some knowledge additionally. This was one of the best programs which important for the skill development thereby knowledge development. All the students are very interested in watching the programme. The programme was a successful one for the skill development and thereby increasing the knowledge.



Students explaining knowledge corner

ENTREPRENEURSHIP PROGRAMME

AAZHCHAVATTOM

“Azchavattom” was held on 12th December, 2022 under the auspices of the Department Physics, BCM College Kottayam. Azchavattom is a programme which enhances the marketing skills of students in a society. It works by bringing homemade ,agricultural and handicrafts products available in their home to the college campus by staffs and students.

Azchavattom began at 8.30am in the morning on 12th December 2022. Vegetables, fruits, desserts, drinks and snacks, decorating items, etc were sold in each stall. Students were divided into groups and were in charge of each stall. Azchavattom was successfully conducted with the cooperation of staff and students and the outsiders. Many people from outside came to buy various products to support the concept of Azchavattom. The Department was able to sell products worth Rs. 9270 through this Azchavattom. The program successfully completed at 9.30am.





Azchavattom by department of Physics

PROGRAMS FOR SLOW AND ADVANCED LEARNERS

PEER TEACHING

The department of Physics organised peer teaching, with involvement of students. It was a great success for teaching the subjects. Peer teaching involves one or more students teaching other students in a particular subject area and builds on the belief that “to teach is to learn twice” By practising the peer teaching among the students, it will develop the innovative thoughts and improve their knowledge very much.

Every day, a one hour the students practising the peer teaching. Through peer teaching the students were very interested in covering the portions. It was great opportunity for the student, who participating the peer teaching. Through peer teaching everyone should bothered much about the topics that we discussed.

The advantage of Peer Learning is that it allows learners to focus on understanding rather than solving. This develops a spirit of collaboration and cooperation among learners and makes them more effective. So the peer teaching was a great successful one.



Peer teaching by students

ACTIVITIES TO PROMOTE CONSTITUTIONAL VALUES AND HUMAN RIGHT

FIELD STUDY: THE CAUSES, EFFECT OF DIFFERENT POLLUTION

Field study was based on a project. The students must visit some places and discuss the importance and collect the details fully and submitted as a project. The project was associated with Environmental physics.

The topics included in the field study project was :

Visit to a local area to document environmental grassland/ hill/ mountain.

Visit a local polluted site- urban/ rural/ industrial/ agriculture.

Study of common plants, animals, birds, insects etc.

Study of simple ecosystem- pond, river, hill slop etc.

Every student must visit atleast 3 places having different ecosystem.we have to visit a local area and study the details of the place or something.Then we visit the polluted area, study of common plants, and last study of simple ecosystem. The project was based on our education system. By the project every one should understand the detailed study of the different areas having different ecosystem. It was a very interesting study of us.

BISHOP CHULAPARAMBIL MEMORIAL COLLEGE, KOTTAYAM

DEPARTMENT OF PHYSICS



FIELD STUDY REPORT

ON

Common Plant – PANINEERCHAMABA

Submitted by

Ansu Sabu, 3rd DC Physics

200021035838

As part of the course: Environmental Physics and Human Rights.

Submitted on: 10/10/2022

Submitted to: Elizabeth V John, Assistant Professor Department Of Physics

image from field study report



Although bearing the common name rose apple and appearing similar to an elongated apple on the outside, these nutritious fruits do not resemble the rose or the apple in

image from field study report

MARCH FOR SCIENCE



The Department of Physics in association with Breakthrough Science Society organised a March for Science On 22 August, 2022. The March is Started at 2:00 Pm at CMS College, Kottayam.

The all students from second year and third year would participate in the march. According to organizers, the march is a non-partisan movement to celebrate science and the role it plays in everyday lives. The goals of the marches and rallies were to emphasize that science upholds the common good and to call for evidence-based policy in the public's best interest. The March would start from CMS College. The Principal Dr Varghese C Joshua inaugurate the march by flag off. Many colleges participated in the March. By Marching the Students give the idea about the March for science by showing pluckcards, banners, etc. At last the March end at Gandhi Square, Kottayam. A magic show was also organized. The magic show was very interesting. The show is about the theory about science while doing magic's. This "modern scientific method" started to emerge in India in the late 1490s as European explorers such as Vasco de Gama, John Cabot, Ferdinand Magellan and others came over to the "East Indies." This was quickly followed by traders and explorers from England, France and some other parts of Europe.

In the past seven decades, India has built satellites and sent probes to the moon and Mars, established nuclear power stations, acquired nuclear weapon capability, and demonstrated firepower in the form of a range of missiles. Undoubtedly these are all fabulous achievements of Indian scientists and technologists. So, the march for science was a successful program and end with successfully.



March for Science rally

ഇന്ത്യാ മാർച്ച് ഫോർ സയൻസ് ഇന്ന്



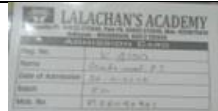





കോട്ടയം ▶ സി.എം.എസ്. കോളേജിൽനിന്ന് ഗാന്ധി സ്കൂയറിന് ലേക്ക് ജില്ലാതല ഇന്ത്യാ മാർച്ച് ഫോർ സയൻസ് തിങ്കളാഴ്ച നടക്കും. സി.എം.എസ്. കോളേജ് പ്രിൻസിപ്പൽ ഡോ. വർഗീസ് സി.ജോഷ്യാ മാർച്ച് ഉദ്ഘാടനം ചെയ്യും. ഇന്ത്യാ മാർച്ച് ഫോർ സയൻസ് 2022, ഓഗസ്റ്റ് 9-23 ന് നടക്കുകയാണ്. ശാസ്ത്രീയതെളിവുകളുടെ അടിസ്ഥാനത്തിൽ നയരൂപവൽക്കരണം നടത്തണമെന്ന് ആവശ്യപ്പെട്ട് 2017-ൽ ആരംഭിച്ച ഗ്ലോബൽ മാർച്ച് ഫോർ സയൻസിന്റെ ഭാഗമാണ് ഇന്ത്യാ മാർച്ച് ഫോർ സയൻസ്. കോവിഡ് കാലത്തൊഴികെ









2017 മുതൽ എല്ലാ വർഷവും ഇന്ത്യാ മാർച്ച് ഫോർ സയൻസ് നടന്നുവരുന്നു. കേന്ദ്രബജറ്റിന്റെ 10 ശതമാനവും സംസ്ഥാന ബജറ്റുകളുടെ 30 ശതമാനവും വിദ്യാഭ്യാസത്തിനായി നീക്കിവയ്ക്കുക, ശാസ്ത്രസാങ്കേതികവിദ്യ, സാമൂഹികശാസ്ത്രഗവേഷണത്തിനായി ജി.ഡി.പി.യുടെ മൂന്ന് ശതമാനം ചെലവഴിക്കുകയും, പരിസ്ഥിതിയെ സംരക്ഷിക്കുകയും ആഗോള താപനം തടയുന്നതിനുള്ള ഫലപ്രദമായ നടപടികൾ സ്വീകരിക്കുകയും ചെയ്യുക തുടങ്ങിയ ആവശ്യങ്ങൾ മുന്നോട്ടുവെച്ചാണ് ഇന്ത്യാ മാർച്ച് ഫോർ സയൻസ് സംഘടിപ്പിക്കുന്നത്.

News in newspaper

STUDENT PROGRESSION

STUDENTS PROGRESSING TO HIGHER EDUCATION DURING THE YEAR

Name of the student enrolling into higher education	Programme graduated from	Name of institution joined	Name of programme admitted to	ID Card
Anagha K Reji	Bsc. Physics	Cusat, Kochi	MSc. Computer Science with Specialisation in Data Science	
Fathima Sulthana	Bsc. Physics	Baselius College, Kottayam	MSc. Physics	
Ginta Mol P. J	Bsc. Physics	Kavitha ITI	Data Entry	
Jithu K Mathew	Bsc. Physics	S.H College, Thevara	MSc. Physics	
Kavya K.S	Bsc. Physics	Govt. College, Kottayam	MSc. Physics	
Keerthana V	Bsc. Physics	T.I.M.E Coaching Centre, KTM	CAT	
Neeraja K Shaji	Bsc. Physics	CMS College, Kottayam	MSc. Physics	
Rona Roy	Bsc. Physics	IIIMC Kottayam	Medical Coding	

Sreelakshmi V H	Bsc. Physics	Brilliant,Pala	SSC Coaching	
Carmel Rose Benny	Bsc. Physics	KE College, Mannanam	MSc. Physics	
Devika K Sunil	Bsc. Physics	NET Computers, Kanjirapally	PDCCA	
Mariya Susan Lal	Bsc. Physics	MACFAST,Thiruvalla	MSC. Food Science &Quality Assurance	
Meenakshi Rajesh	Bsc. Physics	University of Hertfordshire	MSc. Data Sciencewith placement	
Megha Anil	Bsc. Physics	Govt. College, KTM	MSc. Physics	
Nandhana Vijay	Bsc. Physics	SH College, Thevara	MSC. Physics	
Susan T Chacko	Bsc. Physics	Christian Medical College, Velloor	MSc. Medical Physics	
Brilla Johnsan	Bsc. Physics	Trentz Garment, Ernakulam	Job	