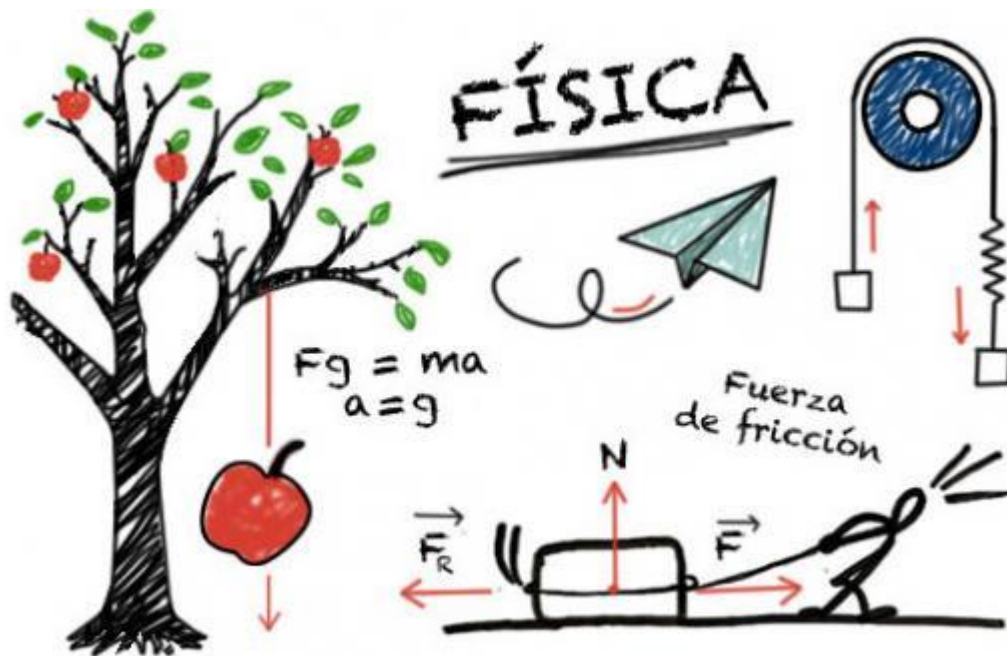


LA PHYSICA



PHYSICS ASSOCIATION REPORT

2018-19

*It gives me great pleasure to present the report on the activities of
Physics Association La Physica for the academic year 2018-19.*

**Adona V. S.
Secretary
Physics Association 2018-19**

LA PHYSICA

The aim of the Physics association La PHYSICA, is to enable the students to have a sense of unity and understanding among themselves and the surrounding community. Apart from imparting subject knowledge, the association aims to improve the character of the students with good civic sense, compassion and empathy to the poor and the sick. It also aims to mould the students to full-fledged persons –physically, mentally and spiritually.

We are really proud to say that we have sincerely tried to exploit all the resources at our disposal for the success of the association. We are grateful to all the faculty members and students of the Physics association for their whole-hearted cooperation for making the program

memorable. The annual report of Physics association, La Physicia for the year 2018-19 is submitted herewith.

OFFICE BEARERS



OUR BACKBONE, 2018-19

I. ACADEMIC PERFORMANCE

I.1 A+ HOLDERS

I.2 SEMINAR/WORKSHOPS CONDUCTED

I.3 DAYS OBSERVED

I.4 EXHIBITION CONDUCTED

I.5 PERSONALITY DEVELOPMENT/ STUDENT ENPOWERMENT PROGRAMMES

I.6 MANUSCRIPT MAGAZINE

I.7 INTERCOLLEGIATE COMPETITIONS/ FEST CONDUCTED

I.8 INTERDEPARTMENTAL COMPETITIONS

I.9 SUBJECT ENRICHMENT PROGRAMMES

II. ARTS & INTER-DEPARTMENTALCOMPETITION

III. NCC

IV. NSS

V. ALUMINI DAY

VI. CHARITABLE ACTIVITIES

VII. PRIZES IN INTERCOLLEGIATE COMPETITIONS

VIII. INNOVATIVE/ UNIQUE PROGRAMMES

IX. UNION MEMBERS

X. PROGRAMMES FOR SLOW/ ADVANCED LEARNERS

XI. EXTENSION ACTIVITIES

I. ACADEMIC PERFORMANCE

I.1 A+ HOLDERS

2017-2018 was a year of academic excellence. Our students have come out with flying colours in their academic performance. It is with immense joy and pride that we introduce our three students who secured A+ out of the 30 students who appeared for the final year BSc examination conducted by MGU. Anju Sajan , Thanjnu Humayoon and Sonia Benny secured A+.



I.2 SEMINAR/WORKSHOPS CONDUCTED

INTERNATIONAL SEMINAR ON RENEWABLE ENERGY

An International Seminar on Renewable Energy Utilization was organised on 10th July, 2018. Dr. Sreekala K S, Assistant Professor, Govt. College, Kottayam inaugurated the seminar and Principal Mrs. Josephina Simon presided over the meeting.

Dr. Sreekala K S. gave a talk on Advances in Solid cell Technology, followed by an interactive session. Sun is the major source of energy. The current concepts on the effective use of this energy was put forward to the students by our eminent resource person Dr. Saji Philip. He performance Manager, Anesco Ltd, UK, which purely manufactures solar power fields and solar equipment's all over the world. There was an interactive session with him and many students interacted.





Saji Philip, Ph.D
Performance Manager
Anesco Ltd, UK

INTERNATIONAL SEMINAR ON RENEWABLE ENERGY UTILIZATION

10 JULY, 2018
BCM COLLEGE, KOTTAYAM

Dr. Saji Philip is a renewable energy professional with many years of work experience in commercial and research sectors around UK and Asia.

Before migrating to UK he had worked for 26 years in various capacities at Renewable Energy Research Institute in India. He had joined this institute as a junior scientist and later became the Head of Solar Energy and Deputy Director.

He successfully planned and obtained MCS accreditation for solar PV, Solar Thermal and Heat Pump technologies. In the last two years he have been spending most the time in technical work related to batteries. Currently he is involved in commercial and residential battery storage systems.

Email: saji.Philip@anESCO.co.uk skphilip@hotmail.com



ORGANIZED BY
DEPARTMENT OF PHYSICS
BCM COLLEGE, KOTTAYAM

VENUE: **SR. SAVIO HALL**
DATE: **10 JULY, 2018**

Dear All,

The Department of Physics, BCM College is organizing a one day International Seminar on Renewable Energy Utilization on July 10th, 2018 at Sr. Savio Hall, BCM College, Kottayam. Here we try to get in-depth knowledge in the developments in the field of solar energy which is one of the main sources of renewable energy, at national and international level. All are welcome!!

With Regards

Mrs. Josephina Simon, Principal

Dr. Elizabeth V. John, Coordinator & HOD

Mr. Binu Binoy

Ms. Tini Am Jose

Ms. Emi Mons

Ms. Athira Maria Johnson



Programme

- 09:00- 09:30 Registration
- 09:30- 10:30 Inauguration
- 10:30- 10:45 Coffee Break
- 10:45- 12:45 **Dr. Sreelatha K. S., Assistant Professor, Govt. College, Kottayam Advances in Solid Cell Technology**
- 12:45- 02:00 Lunch Break
- 02:00- 03:30 **Dr. Saji Philip, Performance Manager, Anesco Ltd, UK, Solar Photovoltaic systems for power generation**
- 03:30- 03:45 Coffee Break
- 03:45- 04:00 Valedictory Function

Registration

Registration fee: Rs. 100/-
UG & PG students, research scholars and teachers can attend this seminar
Duty certificate will also be provided.

For More Details

Dr. Elizabeth V. John: elizjo@gmail.com 7558897015





Science Academies' Refresher Course on Quantum Mechanics for Nuclear and Particle Physics

BCM College, Kottayam

December 1-15, 2018

The Science Academies' Refresher Course on Quantum Mechanics for Nuclear and Particle Physics at BCM College, Kottayam, was organized during the period 1st to 15th December, 2018.

Prof. M. V. N. Murthy, The Institute of Mathematical Sciences, Chennai, was the Course Director and Dr. Elizabeth V. John, BCM College was the Course Co-ordinator.

There were 45 participants including 32 teachers and 13 students for this refresher course. The participants included 11 from outside Kerala and others from different parts of the state.

Inauguration

The inaugural function began at 09:30 am on Dec 1, 2018. Mrs. Josephina Simon, Principal, BCM College, presided the function and Prof. H S. Mani, Chennai Mathematical Institute inaugurated the function. The lamp was lighted by Prof. Mani, Prof. V. Ravishankar, IIT Delhi, Mrs. Josephina Simon, Mrs. Smitha Joseph, HOD of Physics Department, Mrs. Susy Philip N., former Vice Principal and HOD and Dr. Elizabeth V. John. The Course Co-ordinator, Dr. Elizabeth V. John welcomed the gathering and Mrs. Smitha Joseph, HOD gave the Vote of thanks.

Course Design

The Refresher Course timing was from 09:30 am to 04:45 pm, with two tea breaks and a 45 mints lunch break. There were four sessions, each of 90 mints. A total of 56 sessions were handled by 5 eminent Resources persons from various reputed institutions in the country.

Prof. H S Mani, Chennai Mathematical Institute ,

Prof. Mani started the first session with Special Theory of Relativity and Electrodynamics. Sir handled 10 sessions and also gave a special talk on Paradoxes in Relativity.

Prof V. Ravishankar, IIT Delhi.

Prof. Ravishankar took 15 lectures and tutorial sessions from December 1 to 8, 2018 on introduction to Quantum Mechanics, Perturbation and Scattering Theories. Sir also gave a Special talk on Yang Mills and QGP.

Prof. D. Indumathi, The Institute of Mathematical Sciences, Chennai.

Prof. D. Indumathi joined the team on Dec 5th and took 6 sessions on Relativistic Quantum Mechanics. Madam also gave a special talk on Indian Neutrino Observatory project.

Prof. M.V.N. Murthy, The Institute of Mathematical Sciences, Chennai.

Prof. Murthy took 13 lectures and tutorial sessions from Dec 8th to 15th, giving an introduction to Particle Physics, symmetry and Conservation Laws in Physics. Sir also gave a special talk on Standard Model and Higgs Boson

Prof Kamales Kar, Ramakrishna Mission Vivekananda Educational And Research Institute, Belur, West Bengal.

Prof. Kamales took 12 sessions on Introduction to Nuclear Physics from Dec 10th to 15th. A special talk on Supernovae was also given by the Professor.

Dr. S.V.M. Sathyanarayan, Assistant Professor , Department of Physics, Pondicherry University, who was a participant , also took a special talk on Angular momentum Algebra. The talk was very helpful to get a better understanding on Nuclear and Particle Physics sessions that followed.

Excursion

As part of Refresher course, a tour was conducted to Kumarakom Backwaters on Dec 9th, Sunday. About 23 participants including Resource persons, teachers and students enjoyed the boat trip and the cold breeze.

Valedictory Function

As the concluding session the valedictory function was arranged on Dec 15th. Certificates were distributed. Mrs Smitha Joseph ,HOD , Department of Physics, presented the report. Prof. M. V. N. Murthy and Prof. Kamales Kar gave their feedback and suggestions.

 SCIENCE ACADEMIES' REFRESHER COURSE IN 
QUANTUM MECHANICS FOR NUCLEAR AND PARTICLE PHYSICS
1 - 15 December 2018



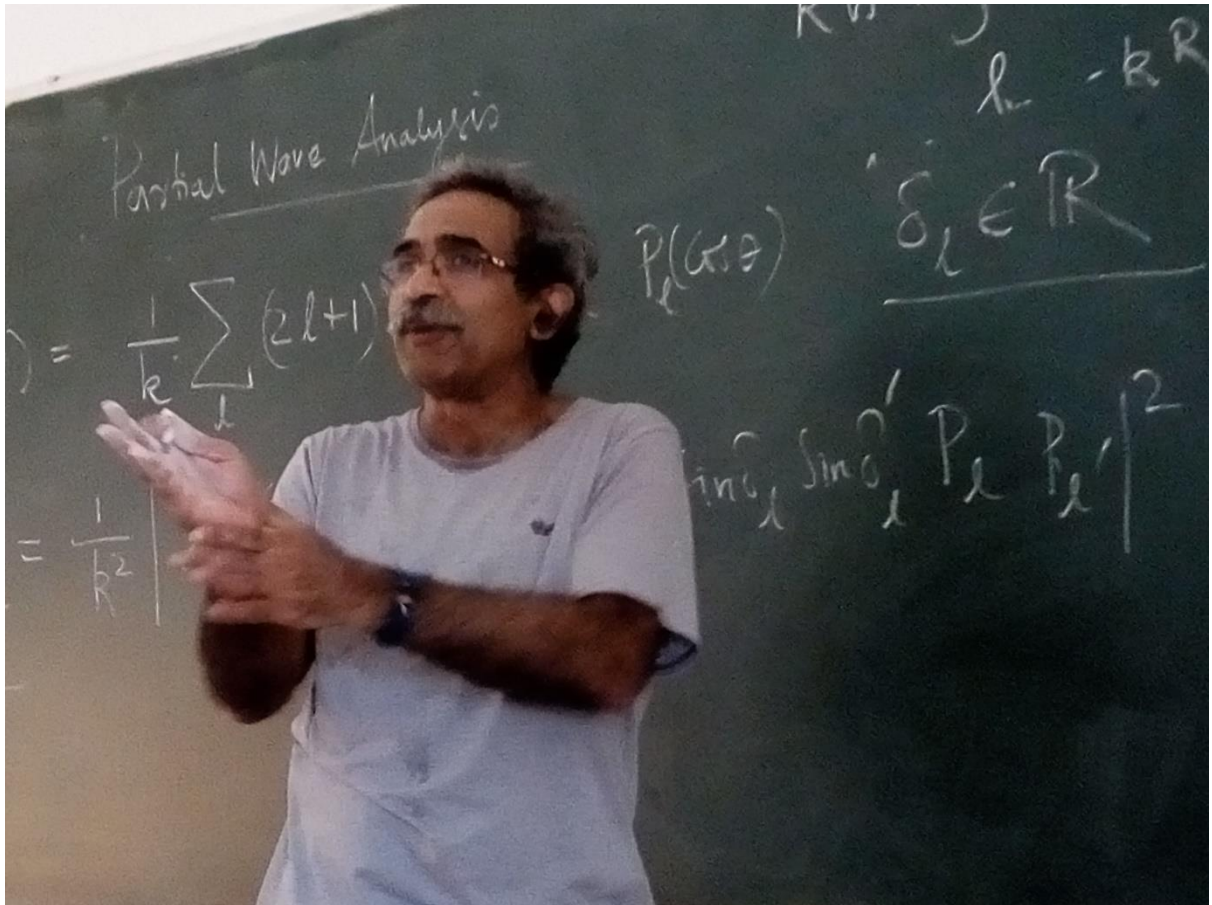
In collaboration with BCM COLLEGE, KOTTAYAM













LED Bulb Assembling workshop

An electrical workshop on LED bulb assembling, repair and maintenance was conducted on 11th January 2019 in association with St. Mary's College, Manarcad. LED bulbs are getting wide popularity as they are eco-friendlier than incandescent lamps and CFL. LED bulb can give more light per watt (800 lumens for 9W). A group of 6 students from the department of Physics, St Mary's college Manarcad conducted a class on LEDs and demonstrated its assembling. By assembling LED bulbs ourselves, we can give it at much cheaper than the market value. This was very useful for the association members.







I.3 DAYS OBSERVED

Hiroshima Nagasaki Day, August 6, 2018

On August 6, 1945, during World War II (1939-45), an American B-29 bomber dropped the world's first deployed atomic bomb over the Japanese city of Hiroshima. The explosion wiped out 90 percent of the city and immediately killed 80,000 people; tens of thousands more would later die of radiation exposure. Three days later, a second B-29 dropped another A-bomb on Nagasaki, killing an estimated 40,000 people. Japan's Emperor Hirohito announced his country's unconditional surrender in World War II in a radio address on August 15, citing the devastating power of "a new and most cruel bomb."

In memory of Hiroshima and Nagasaki bomb blast Physics department in association with History department conducted an interdepartmental quiz competition to bring the awareness. Students from all departments participated. The first prize went to Liya Elsa Sabu and Maneesha Mathew of English Model I, and second prize went to Julia and Pooja KK of English Model II.



Teachers' Day

Education is the key to success in life and teachers make a lasting impact in the lives of their students. Students of Physics department celebrated Teachers day in September 4.

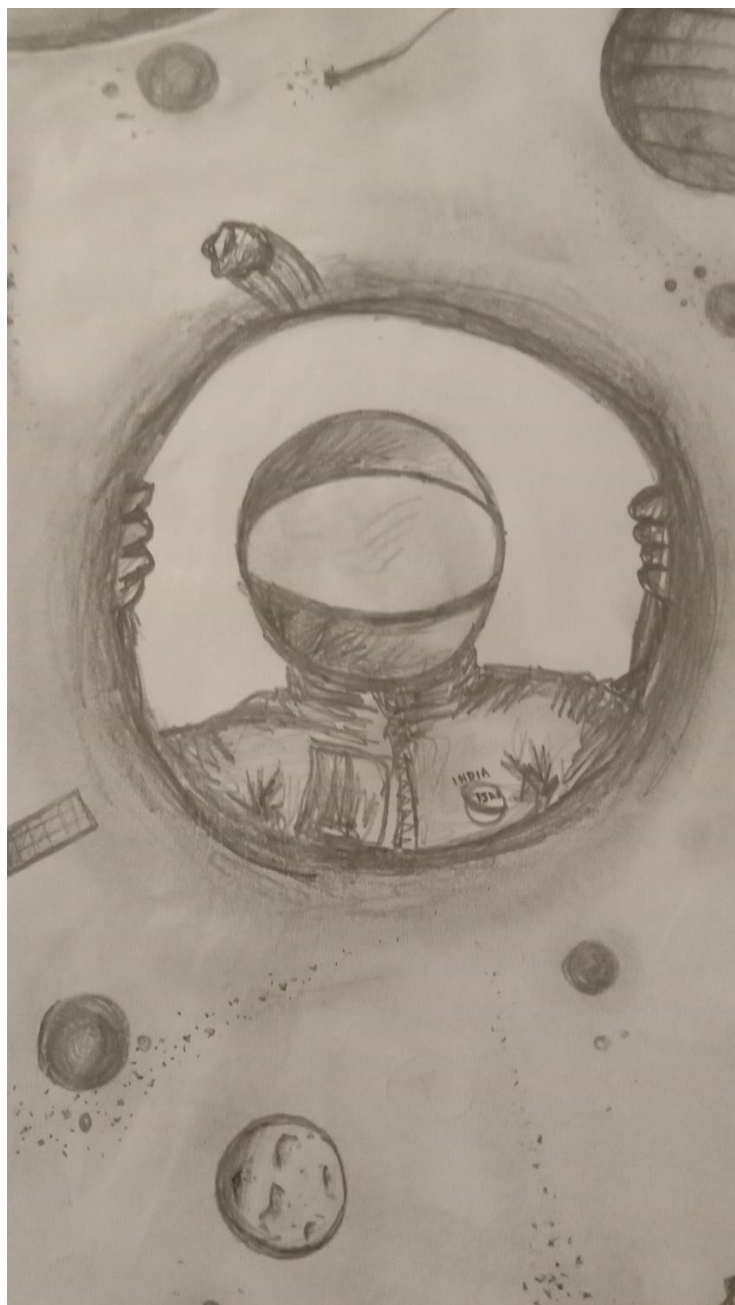


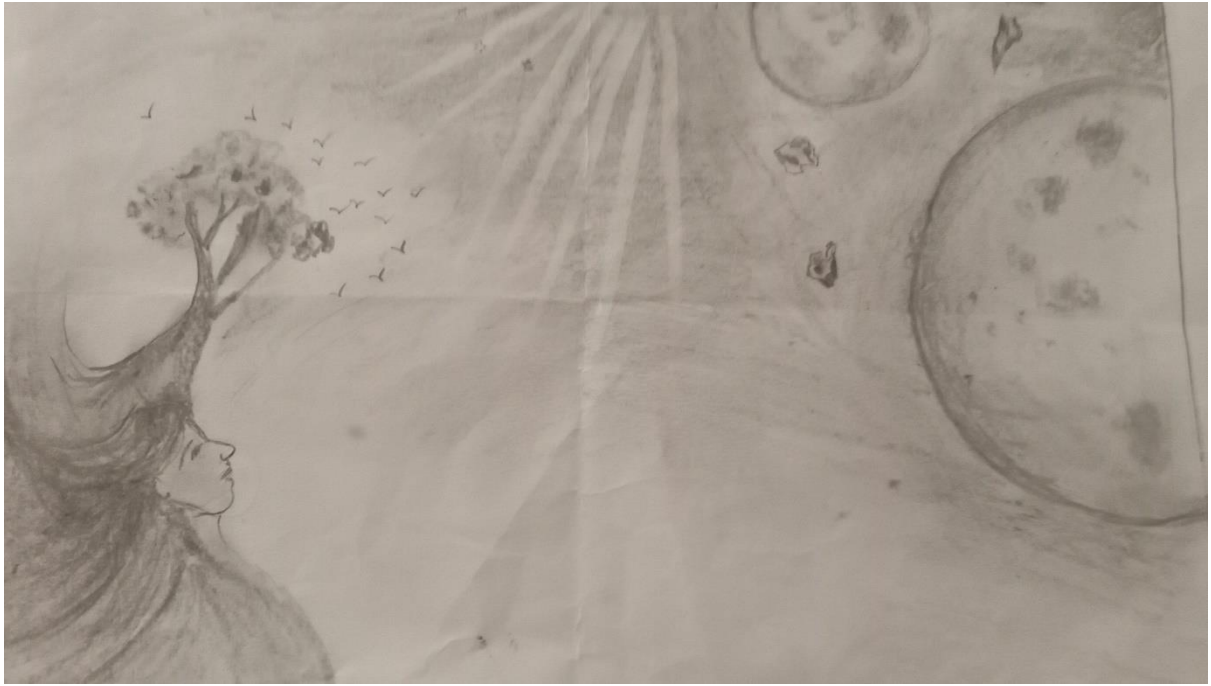
International Space week Oct 4-10, 2018

To understand and study about astrology and space in detail, Physics department celebrated International Space Week from October 4 to 10, 2018. This was marked with various activities for the students to trigger their curiosity to look beyond the Earth's horizon.

October 4, 2018: - Pencil drawing Competition

An interdepartmental pencil drawing competition on the topic "The Space" was organized to mark the beginning on International Science Week. Angel Maria Paul, English I got the first prize, Maria Chacko of II FSQC got second prize and Malavika Prem, II Eng M1 got third place.





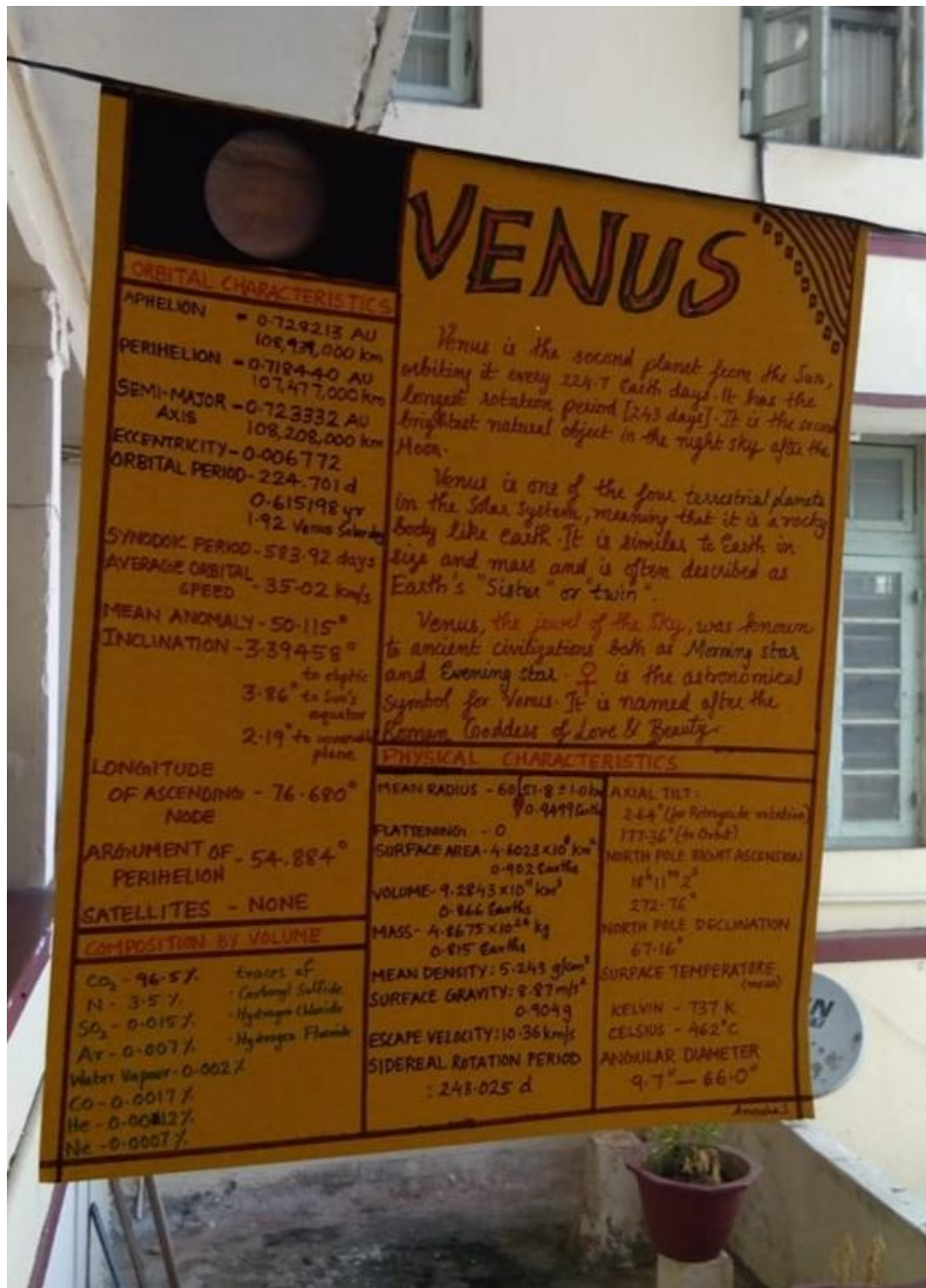
October 5, 2018: - Essay competition

A departmental essay competition was conducted on the topic, “Indian contribution in the satellite era”. Donna Susan Abraham secured first position, Biya Thomas secured second place and Arya S Nath secured third position.



October 8, 2018: - Exhibition on Solar system

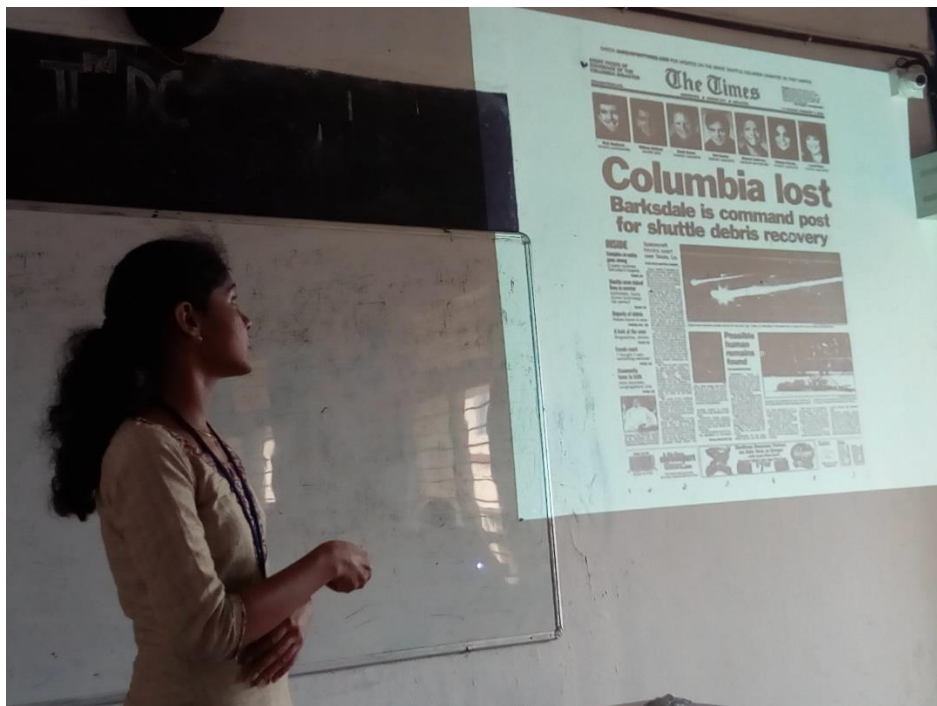
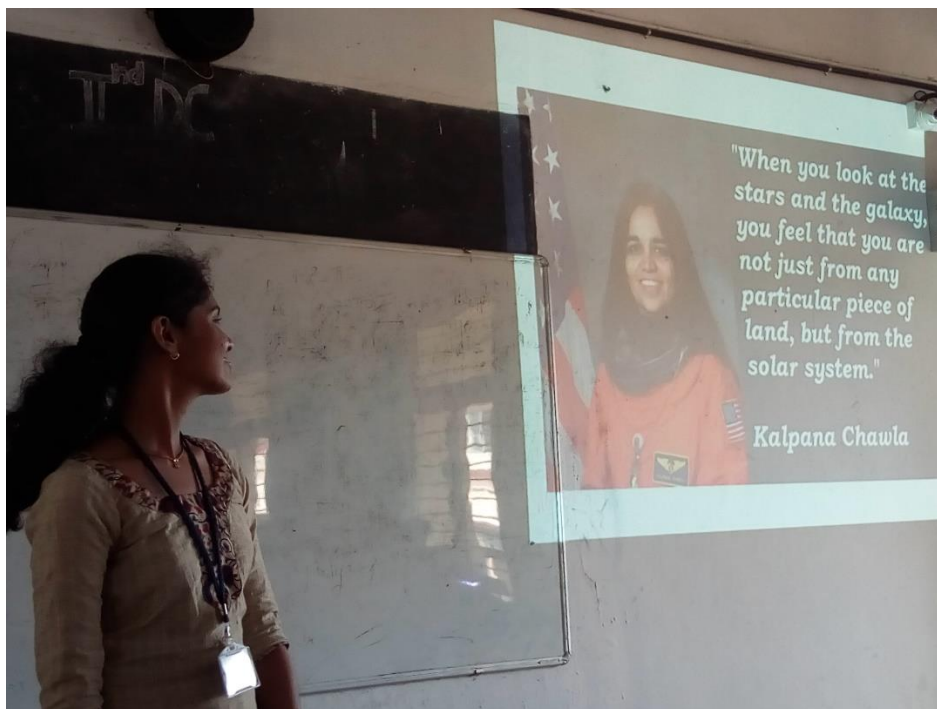
An exhibition was conducted to give a detail idea on our solar system, sun and planets including our Earth. There was the model of solar system and chart exhibition on each of the planets giving a detail description on each planet was arranged in the Physics corridor.





October 9, 2018: - Talk on Kalpana Chawla

Ms. Ardra Dhananjayan, II DC Physics, gave an informative and motivational talk on the great Indian scientist and astrophysicist Kalpana Chawla, the lady who followed her dreams. Kalpana's hard work and dedication took her from a small village in India to NASA, to be the part of prestigious Columbia project.



October 10, 2018: - Talk on Rakesh Sharma

As part of the International Space Week, a power point presentation was conducted on 10th October 2018 at 1:30 PM. The presentation was about Rakesh Sharma, the first Indian space traveller. The presentation was taken by Raiza Rebecca of 2nd DC Physics. Students of various departments attended the presentation.



Christmas celebration

The department of Physics celebrated Christmas, sharing the joy with whole students, teachers and non-teaching staffs of the department. Christmas gifts were exchanged, carol songs were sung and cake were distributed among all.





1.4 EXHIBITION CONDUCTED

Madem curie Day – Exhibition

Madam Cuurie is an important scientist in the world of Science. We the the students of Physics and Chemistry department in association with Breakthrough Science Society conducted a Madan curie exhibition on July 4th. The exhibition was inaugurated by our Principal, Mrs Josephina Simon and Thankachan Sir gave a talk on the life and contribution of Madam Curie. The exhibition was enjoyed by many students and her life was thrilling for the BCM girls.





I.5 PERSONALITY DEVELOPMENT/ STUDENT ENPOWERMENT PROGRAMMES

March for Science

On April 4 Physics department has participated in March for Science conducted from CMS College Kottayam. March for science aims to give a better scientific insight in the younger minds, than going behind superstitions.



Association Inauguration

LA PHYSICA we proudly announced our association name on August 13. LA PHYSICA means all are Physicists. We are proud to become physicists. Physics association aims at the all-round development of the students.



International seminar at Baselious College Kottayam

Third year degree students and teachers participated in International seminar on the “Recent Trends in Nanotechnology” on August 13th. It was a great experience and enlightening to learn more about the new areas and trends in nanotechnology.



**INTERNATIONAL SEMINAR
ON
RECENT TRENDS IN NANOTECHNOLOGY**

Organized by:
Post Graduate Department of Physics and Centre for Research, Baselious College, Kottayam
Co Sponsored by: Mahatma Gandhi University, Kottayam

SPEAKERS:

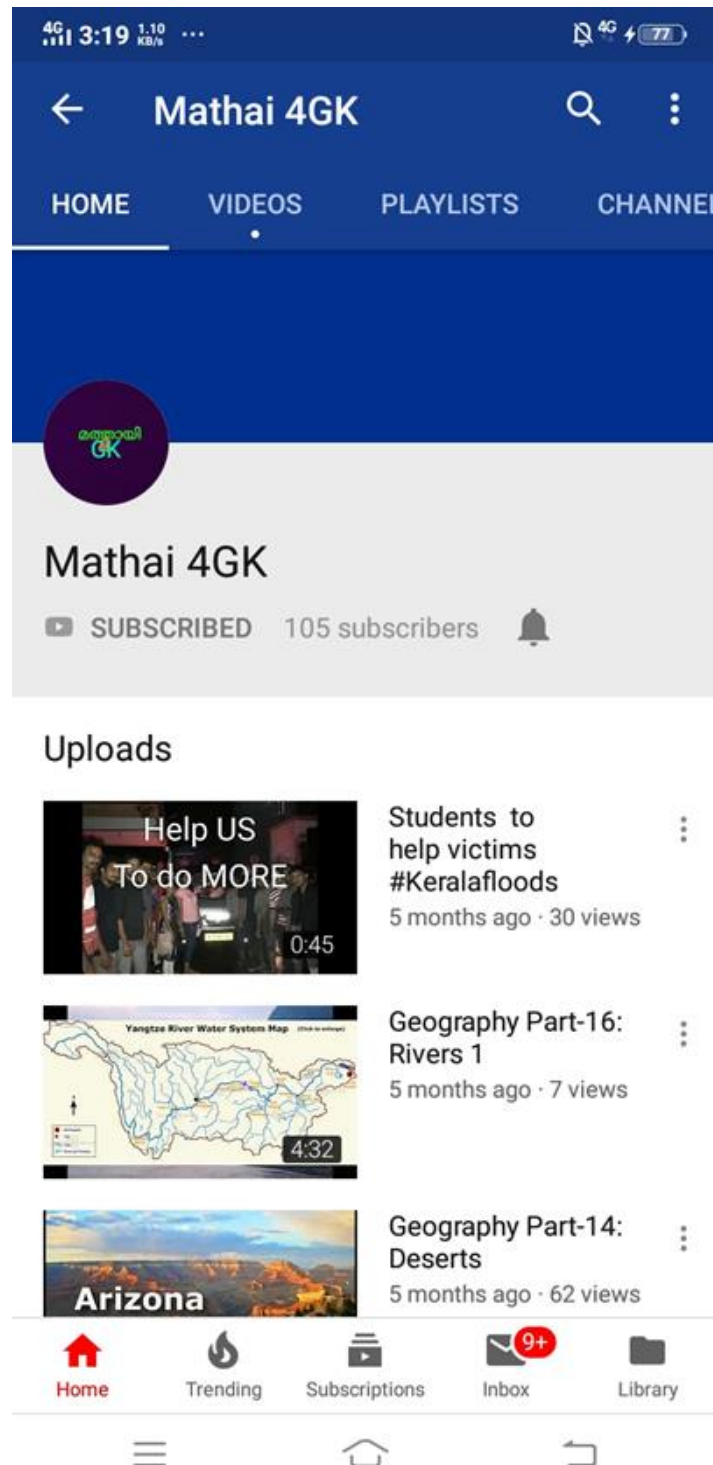
 Dr. C.S. MENON Former Dean and Director SMP	 Dr. KRISHNAKUMAR PILLAI Institute of Technology, Dubai U.A.E.	 Dr. APRINA THIRUMAPPAN Assistant Professor, Baselious College, Kottayam
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Venue : Dr. A.P. Mari Medla Centre, Baselious College, Kottayam
Date : 13 Aug 2018 Time : 10:00 am



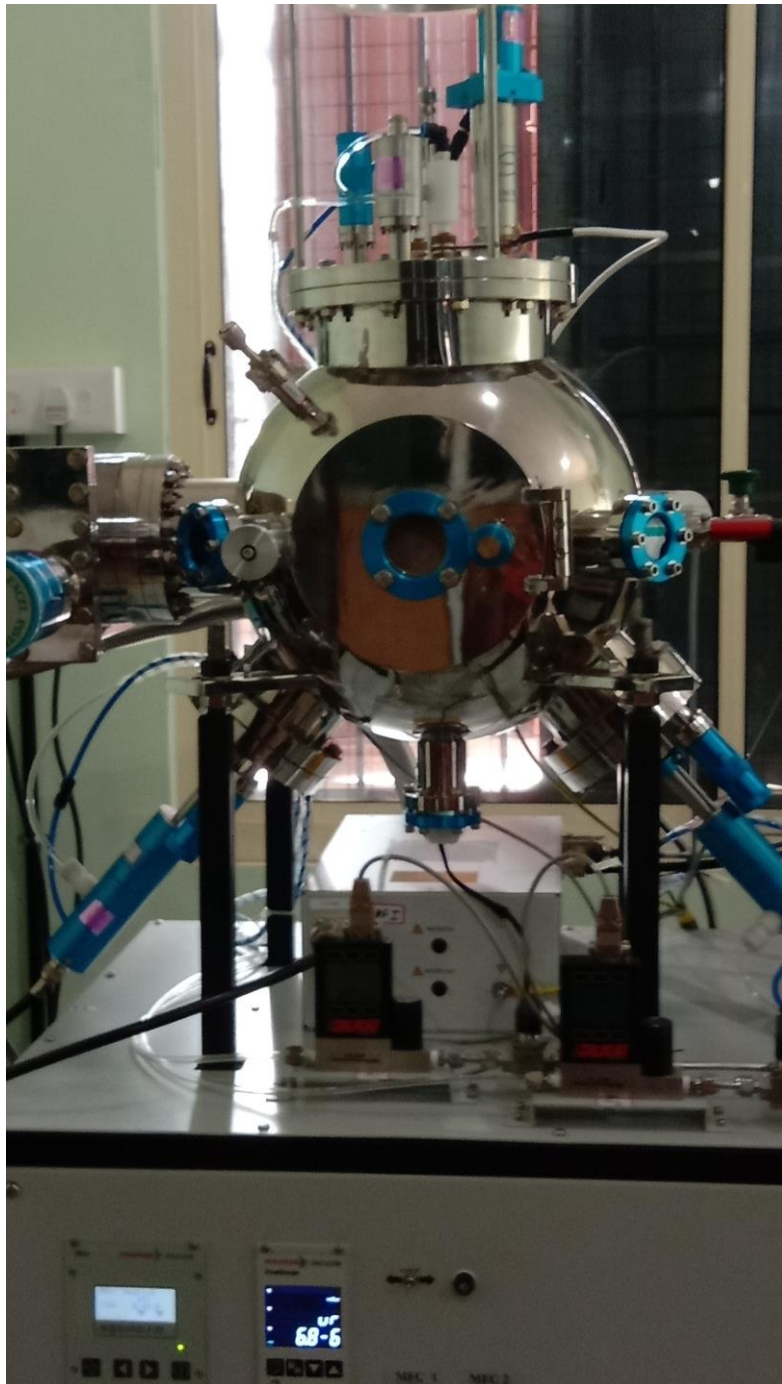
Mathayi 4gk – Youtube channel

Under the guidance of Mr. Binto Binoy, we have created a Youtube channel. The major aim is to improve the current affairs and prepare for PSC examinations.



Visit to Research lab

As a part of student enrichment programme Physics department conducted visit to Bishop Moore College Mavellikara at 5 November. It was very helpful in studying about thin film production and other modern experiments in nanotechnology technology.





S



Excursion

The students of 3rd year Physics along with their teachers Dr. Elizabeth V John and Ms. Athira Maria Johnson went for five days trip to Coorg, Chickmanglore and Malpe between 9th to 13th November 2018. We all enjoyed it with great joy and excitement. The unforgettable prime events included, river rafting at Coorg, trekking at Chickmanglore and banana ride at St. Marys Island, Malpe.





Interaction with H S Mani

As part of the student enrichment programme, there was an interaction section with Prof H S Mani, Adjunct Professor, Chennai Mathematical Institute, Tamilnadu on 3rd December 2018. He did his doctoral degree at world famous University of Columbia. He is one among the founders of Harish Chandra Research Institute, Allahabad. He encouraged students to find Physics in all activities around us. He also gifted his book on Modern Physics for students to learn Physics through problem solving.





Interaction with Prof. Kamales Kar

As a part of the interaction activities and student enrichment programme, an interaction session with Prof. Kamales Kar, Ramakrishna Mission Vivekananda Educational and Research Institute, Belur, West Bengal, was organised on 12th December 2018. Students were motivated by his words and work.



Interaction with Prof. V. Ravisankar

Prof V. Ravishankar is an eminent teacher and scholar in the field of Quantum Mechanics, at IIT Delhi. It was a great opportunity to talk to him on the life and study nature followed by students and teachers in IITs. He also shared his experience as a student and as a teacher.



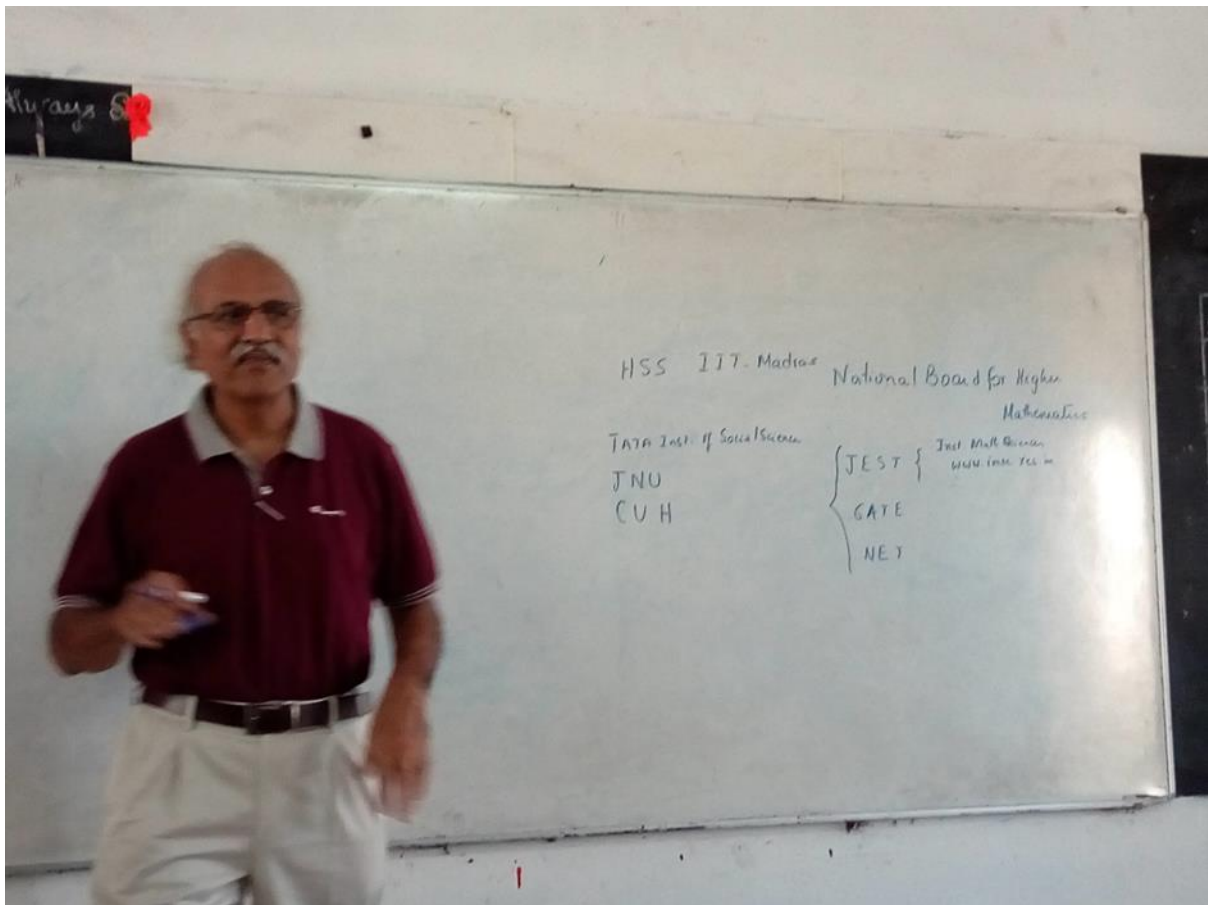
Interaction with D. Indumathi

Prof. D. Indumathi from The Institute of Mathematical Sciences, Chennai came to our college as a resource person for Science Academies' Refresher Course on Quantum Mechanics for Nuclear and Particle Physics. Madam interacted with our students , she spoke about her experience and motivated girls to have a solid career in their life.



Interaction with Prof MVN Murthy

Prof. M V N Murthy, The Institute of Mathematical Sciences, Chennai, the man behind Indian Neutrino Observatory, Theni, was a great source of inspiration and motivation. He shared his thoughts and views about the INO project, and also motivated students to go to top institutes in India for their higher studies. He also explained the patterns of examination followed by different PG entrance examinations in India.



GURUVANDHANAM 2019

The department organised Guruvandhanam on 12 January 2019 to express our sincere thanks to our retired teachers. Dr. Marykutty Thomas former HOD and Mrs. N. Susy Philip, former Vice Principal and HOD were the chief guests. Dr. Marykutty inaugurated the event. Both of them shared their experiences with the students. The session was presided by the HOD Mrs Smitha Joseph. As a token of love and gratitude, LED bulbs prepared by us were presented to the teachers.





Talk on stars, constellations and zodiacal constellations

Our department organised an interactive session with the scholars of Breakthrough Science Society on 11th January 2019. Prof. P. Thankachan, Secretary, Breakthrough Science Society conducted a class on astrophysics and various space activities. The talk was helpful to segregate the superstitions from the concepts of birth start, birth time, birth stones, etc. He was assisted by other members of the Society. All the students and teachers actively took part in the event.



I.6 MANUSCRIPT MAGAZINE

To promote the talents of the Physics students, the association released a manuscript. About 80% of our students contributed towards this. The hand-written magazine Spectrum was released by Mrs. N. Susy Philip, former Vice-Principal and HOD of Physics department on 24th January, 2019. The magazine included, poems, short stories, drawings, scientific articles, etc.



I.7 INTERCOLLEGIATE COMPETITIONS/ FEST CONDUCTED

Intercollegiate Physics fest Sagittaria 2k18

The curtain raised for Physics fest SAGITTARIA 2K18 on August 4, 2018. Students from 19 colleges participated in the fest. There were many events, for the all-round development of students for prize worth Rs. 28,200/-. The inaugural function was presided over by Association President, Ms. Anjali G. and inaugurated by the Principal Mrs. Josephina Simon. Fr. Philmon Kalathara, Bursar and Secretary to Collegiate Education of Archeparchy of Kottayam and Ms. Athira Maria Johnson, Association Teacher in-charge, felicitated the program.



For more details:

Anjali G
Association president
9207572407

Biya Thomas
Student coordinator
9645944373

Aysha Basheer
Student coordinator
8078932599

BCM College for Women
Kottayam-Kumily Rd, Kottayam,
Kerala 686001

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Our Sponsors

Essay & Presentation Competition
Sponsored by:



Troll Contest
Sponsored by:



Photography Competition
Sponsored by:



In Association with
Mahindra Tvs Nattakom | Pulimoottil silks, Kottayam

BCM College, Kottayam
DEPARTMENT OF PHYSICS
PRESENTS



Sagittaria'18
INTER COLLEGIATE PHYSICS FEST

4TH AUGUST

Sir/ Madam
The Department of Physics, BCM College
Kottayam. Proudly Presents before you the inter
collegiate Physics Fest

Sagittaria'18
INTER COLLEGIATE PHYSICS FEST

On 4th August 2018. We invite all the young
talents to our college. Conquer your true talent
with SAGITTARIA'18. Prize Worth 28k

INAGURATION CEREMONY
Date: Friday, August 4th
Time: 10.00AM
Venue: College Auditorium

Ms Athira Maria Johnson
Faculty in charge

Anjali G
Association President

Adona V S
Secretary

4th August

RAPIDOZ
[Quiz]
Prize Worth
2k+ 1k
Registration ₹ 100/-

KALOPSIA
[Face Painting]
Prize Worth
2k+ 1k
Registration ₹ 100/-

CONFERRAL
[Essay & Presentation]
Prize Worth
2k+ 1k
Registration ₹ 100/-

YUGMA
[Duet Song]
Prize Worth
2k+ 1k
Registration ₹ 100/-

BAILAMOZ
[Group Dance]
Prize Worth
5k+ 3.5k
Registration ₹ 200/-

FISSIA
[Split Dance]
Prize Worth
3k+ 1.5k
Registration ₹ 100/-

ZHASINOZ
[Photography]
Prize Worth
2k

AL-TROLLAN
[Troll Contest]
Prize Worth
1k

Online Contests

a. Physics Quiz Competition

Physics Quiz competition was organized in two rounds, first was elimination round and second was final round. There were 10 teams from different colleges in and around Kottayam. Five teams were selected for the second round. Mr. Binto Binoy was the quiz master. The team from SB College won the first prize.



b. Presentation competition

An inter collegiate presentation competition was conducted on Physics related topics. Students from various colleges participated. Nandhu S., S N College, Kumarakam and Jofiya Jose, BCM College won the first and second prizes respectively.



c. Group dance

One of the attractive events of our fest was the group dance. Christhujothi College won the first prize and Alphonsa college won the second prize.



d. Split dance

Split dance had seven teams for participation. Team from Ettumanurappan college won the first prize with an ever-shinning performance and team from Cristhujyothi College won the second position.



e. Spot choreography

The most challenging event, spot choreography was conducted as a surprise event by SAGITTARIA 2k18. The winners were selected through two round competition. Suraj Sukumaran from SJCC I Media village won the first prize.



f. Face Painting

As a part of Sagittaria 2k18 a unique face painting competition was conducted on the topic 'War and Peace'. Rahul R of KITS College won the first prize.



g. Online Competitions

Two online competitions were also conducted as part of Sagittaria 2k18, namely photography and troll competition. The topic for photography competition was “new beginning”. Arjun Sreekumar, Christujyothi College won the first prize. The topic for troll competition was “Women’s College”. Aju Jose from BCM College won the first prize in the same.



1.8 INTERDEPARTMENTAL COMPETITIONS

Power Quiz competition

Interdepartmental Power Quiz competition was conducted in association with KSEB, on 8th November 2018 , for which was a very informative one. Students from various departments participated in the programme. Maths department and Physics Department students won the first and second positions respectively.



Interdepartmental Star making competition

An interdepartmental star making competition was conducted as part of the Christmas week on 19th of December 2018. Various departments participated Out of which Mathematics and English department bagged 1st and 2nd prizes respectively.



National Science Day Celebration 2K19

We have planned to celebrate National Science Day celebration on February 7th and 8th, 2018. The major aim to conduct this programme is to popularize and share importance of science in day to day life. We have applied for KSCSTE's NSD-19. We had received the grant for last three years. The focal theme of this year is "Communicating Science for all".

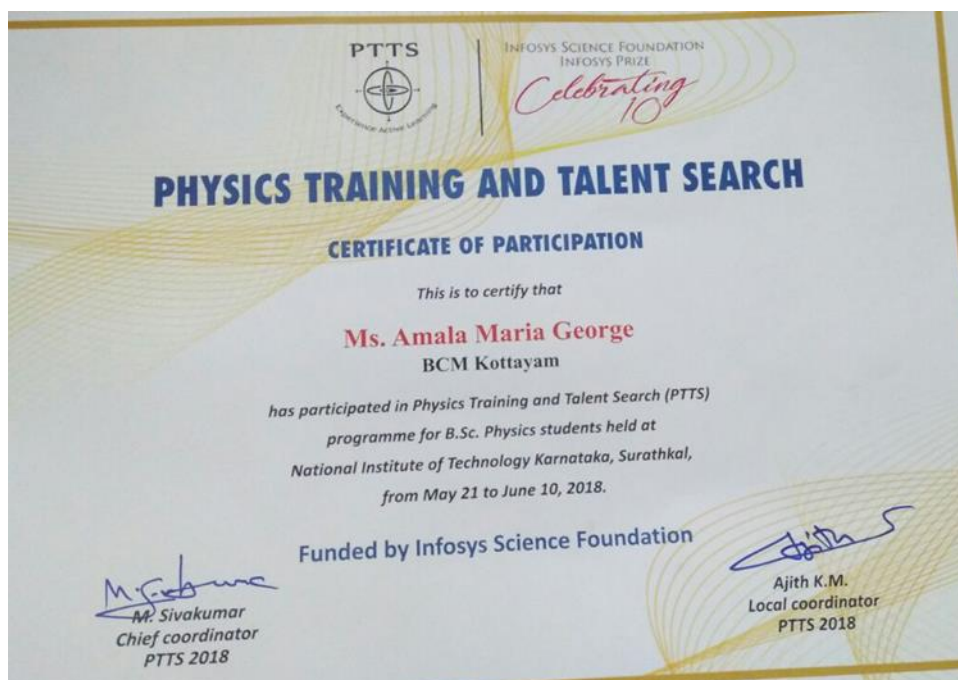
We propose the following activities for the coming NSD-2K19.

- Application of Science is widely seen in all spheres of life. To enlighten the college students in everyday science, we are planning to organize a lecture on the topic 'How Science and technology driven communication help in growth of mankind'.
- A "KNOWLEDGE CORNER" will be set near the Physics department during Feb 8th showing the life and contribution of the great scientist Alexander Graham Bell. There will be chart and model exhibition on his works.
- A field visit to the nearby BSNL office will be organized to study the working of communication system in new era.
- As computers are taking our many spheres of life, a talk on basic computer programming languages C++ will be organized.
- A scientific power point competition will be organized to motivate students to communicate well with others.

1.9 SUBJECT ENRICHMENT PROGRAMMES

INTERNSHIP PROGRAMME : PTTS-2018

Miss. Amala Maria George of 3rd DC Physics was selected for a summer internship programme called “Physics Talent and Training Search” funded by Infosys Science Foundation and was held at **National Institute Of Technology**, Surethkal (NIT) from May 21st to June 10th. The programme was coordinated by Dr. Sivakumar (University of Hyderabad), Dr. SVN SathyaNarayanan (Pondicherry University) and Dr.Kaushik Dutta (IIT, Mumbai)



Talk by Dr. Seema R

On August 13th, Dr. Seema R., Assistant Professor, CMS College, Kottayam, gave a talk on the topic Luminescence in nano-materials. This shed light on the phenomenon of luminescence in nano-materials and its application. This was a research-oriented talk which motivated students to go for higher education.



Knowledge corner (still continuing.....)

From the beginning of this academic year, on every Wednesdays, Physics department presents chart exhibition, models and experiments of various scientists on their birthdays. Students of all groups are divided into groups of six and prepare the materials for the exhibition. Knowledge corner of following scientist were set,

SI No.	Scientist & Major contribution	Birthdays
1	James Clerk Maxwell – Classical electromagnetic theory	13 June
2	Charles Augustin de Coulomb- Coulomb's law and electrostatic laws of attraction and repulsion	14 June
3	W H Bragg- Bragg's law, 1915 Nobel prize	2 July
4	Madam Curia- discovered radium & polonium	4 July
5	Amedeo Avogadro- Avogadro's law, Avogadro's law	9 August
6	Louis- Victor di Broglie- Nobel Laureate, matter-particles have wave like properties	15 August
7	Ernest Rutherford- Nobel Laureate, father of nuclear physics	30 August
8	Michael Faraday- Electromagnetic Induction	22 September
9	Meghanad Saha	6 October
10	S ChandraShekhar- astrophysicist, Nobel Laureate	19 October
11	Homi Jahangir Bhabha- Father of Indian Atomic Energy program	30 October
12	C V Raman- Raman Effect, Nobel Laureate	7 November
13	Edwin Powell Hubble- Hubbles telescope	20 November
	Still Continuing.....	

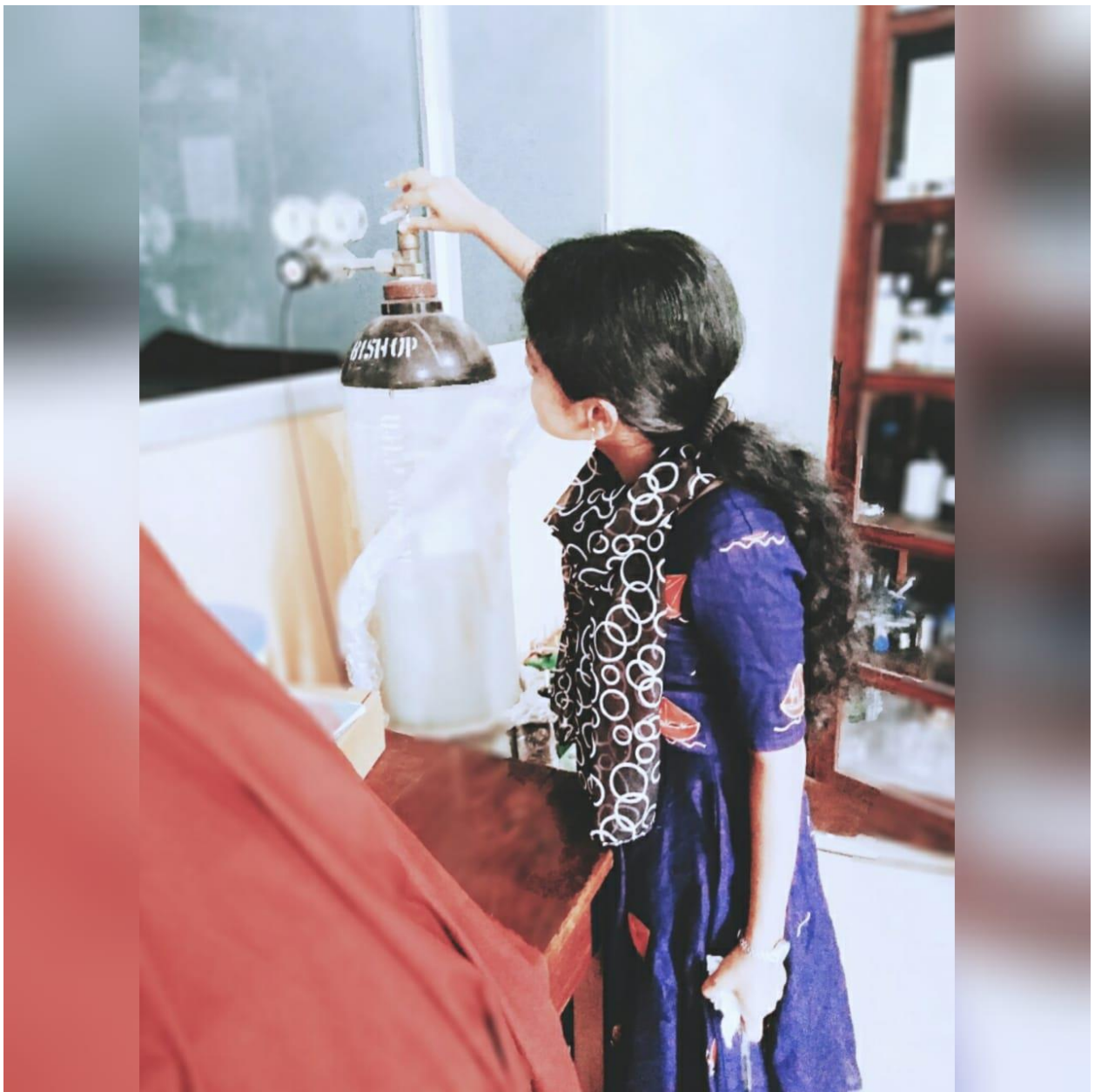




Project in collaboration with other Institutes and Departments

A group of students from our department got the opportunity to do their project in collaboration department of Food Science & Quality Control. This showed how different sciences are related with one another.

Three groups of students are doing project in collaboration with BMC College Mavellikara. This has developed a scientific attitude in students and it was a golden opportunity to us to interact with the research scholars.



Sky watch

Our association once again successfully organised a “sky watch -see beyond your vision” programme on 11 January 2019 in association with Breakthrough Science Society. The sky watch was arranged using the telescopes made by the students of our department as a part of their final year project. It was scheduled in-front of the college auditorium further followed at the rooftop of college hostel. A new app named “STARChart” which introduced to students that aroused curiosity in the young minds, as they could follow the star positions in every season , around the year.



Talk on Quantum Mechanics

A one-day talk on Quantum Mechanics by Dr C S Praveen, INSPIRE Faculty, CUSAT was organised on October 11th 2018. As a tribute to Prof. ECG Sudarshan, a presentation on his life and work was presented by Ms. Haritha Thomas. This was followed by the talk about the importance of Quantum Mechanical Theory in Physics. All teachers, Physics WWS students and the 3rd year students attended the talk.





Project Presentation competition

We proudly announce that we are conducting a project presentation competition on February 4th, 2018. The various experimental studies conducted by students of Physics department during this academic year will be presented. This competition will help student to prepare and present a presentation without any hesitation.

II. ARTS COMPETITIONS & INTER-DEPARTMENTAL COMPETITIONS

The following students of Physics association participated in various inter-departmental competitions held in the college during 2018-19.

Competition	Participants	Position
Christmas message, Dept of sociology	Donna Susan Abraham 3 rd dc	First
Essay competition, Dept of Physics	Donna Susan Abraham	First
Drawing competition Dept of Physics	Biya Thomas	First
Best manneger, Dept of commerce	Raiza Rebecca Jacob Tiby Monichan	First
Xmas Messege, Dept of Maths	Donamol Abraham	First
Dham Dhamaka, Dept of Sociology	Deepthi Dileep & Sreepriya S Prasad	First
Quiz competition, Dept of English	Dianna Anna Savior	Second
Xmas thought, Dept of sociology	Sr. Gloria	Second
Carol competition, Dept of computer science	Team from Physics	Third
Treasure Hunt, Dept of English	Anjali G Biya Thomas	Third
Damsherats, Dept of English	Amala Mariya George Anjali G	Third
Debate competition Dept of Maths	Adona v S Donna susan Abraham	participated
Febonacci series Dept of Math	Amala Mariya George	participated

Febonacci series Dept of Math	Feba Ann Thomas	participated
Quiz competition, Dept of History	Nithya George Sruthy Reji	participated
Quiz competition, Dept of History	Adona V S Akshara Baby	participated
Treasure Hunt, Dept of English	Selda Siju Akshara Baby	participated
Bookmark Making	Biya Thomas	Participated
Bookmark Making	Arya S Nath	Participated
Cake Making, Dept of FAQC	Selda Siju	Participated
Cake Making, Dept of FAQC	Biya Thomas	Participated
Essay competition, Dept of Physics	Amala Maria George	Participated
Puzzle map, Dept of Chemistry	Ardra Dhananjan Silpa Susan Thomas	Participated
Puzzle map, Dept of Chemistry	Nayana N Lakshmi Nandhana M V	Participated

III. NCC

CERTIFICATE

IT MAY TO WHOM SO EVER CONCERN

This is to certify that the following students of department of physics participated in various NCC camp during the academic year 2018-19 A

1 Abhirami G Kumar

2 Alpha Joseph

3 Parvathy SalimKumar

4 Vineetha Devadas

5 Nayana. N

6 Tony Thomas

7 Betty James

8 Safalya Surendra

9 Parvathy Manoj

10 Amurtha Siby

IV. National Service Scheme (NSS)

Our 1st year and 2nd year students participated in 7 day camps organized by NSS. They also were the part of various programs organized by the NSS for the development of students

1 Christy Philip

2 Megha Suresh

3 Sister Gloriya

4 Tiby Monichan

5 Liyona Jomy

6 Jilsa John

7 Neeraja Rmaseh

8 Aleena Anna Alex

10 Akshara Baby

11 Sruthy Reji

12 Donna Susan Abraham

V. ALUMINI DAY

Alumni Meet 2019

Following the previous years, this year also Alumni meet was organised on 12th January 2019. Former students participated and shared their memories. Mementos were distributed to the previous year's toppers. The seniors shared their experiences about the college and how it influenced the current status of their living and academics. Various cultural programmes were performed and snacks and tea were distributed. The session ended with a group photo.



Alumni visit

We have an interaction with our seniors on June 12. They helped us to know about various entrance exams and how to prepare for it.



VI. CHARITABLE ACTIVITIES

Charity for Refugee camp

When Kerala was affected by flood, students and staffs of Physics department stood together for the flood affected people. We collected Rs. 7,000/- and used for charitable activities through OJESS. We supplied food packets and several students were volunteers in refugee camps. We also distributed stationery items worth Rs. 5000/- in the camps.



Visit to Old age Home

As part of the New Year celebration the students of 3rd year Physics along with their respected teachers visited Santhibhavan, Kottayam. The inmates were so delightful to see us and share their happiness through songs and stories. The students also performed different programmes.



A visit to Infant Jesus Shishubhavan

In association with Botany department we visited Infant Jesus Shishubhavan, Thottackad on 18th of December 2018. The children of Infant Jesus Shishubhavan were very excited to see us and they were very happy to interact with us. We also met the caretakers of the orphanage and also distributed sweets and snacks to the children.



VII. PRIZES IN INTERCOLLEGIATE COMPETITIONS

Our students participated in various intercollegiate competitions held during the academic year 2018-2019

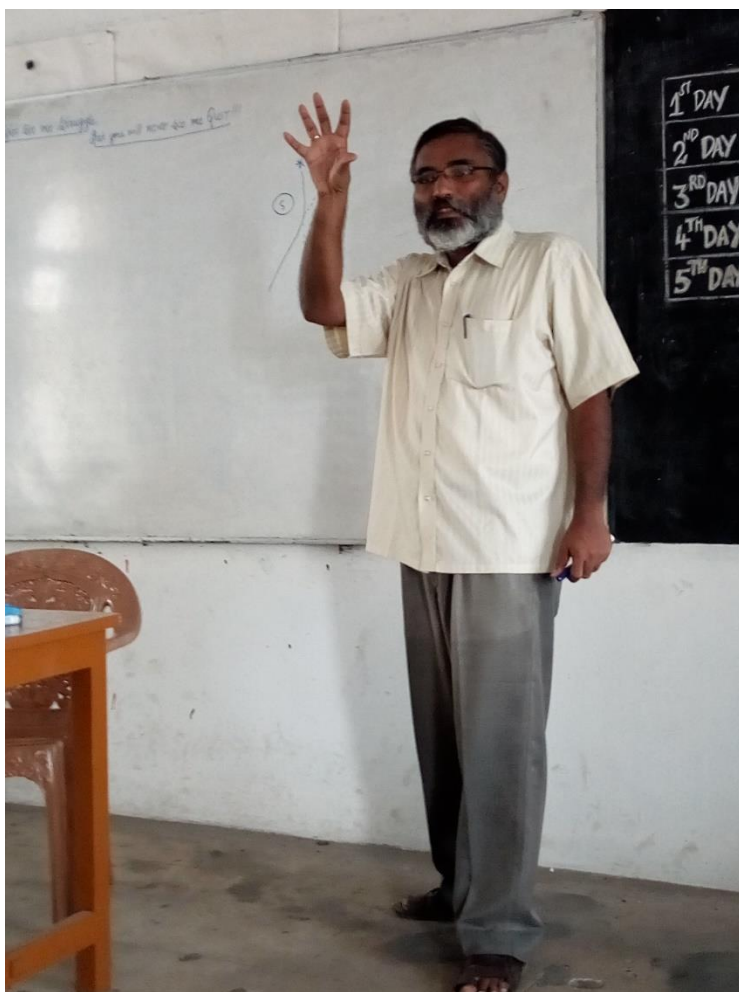
Competition	Participants	Position
Quiz@Basellios	Adona v s Feba Ann Thomas	participated
Quiz@Basellios	Amala mariya George Biya Thomas	participated
Quiz@Assumption	Adona v s Feba Ann Thomas	participated
Quiz@Assumption	Amala mariya George Biya Thomas	participated
Quiz@RIT	Amala mariya George Biya Thomas	participated
Quiz@RIT	Silpa Susan Abraham Archa	Participated
Presentation competition@Basellious	Adona V s Haritha Thomas	Participated
Quiz@RIT	Tiby Monichan Avani Prem Prakash	Participated

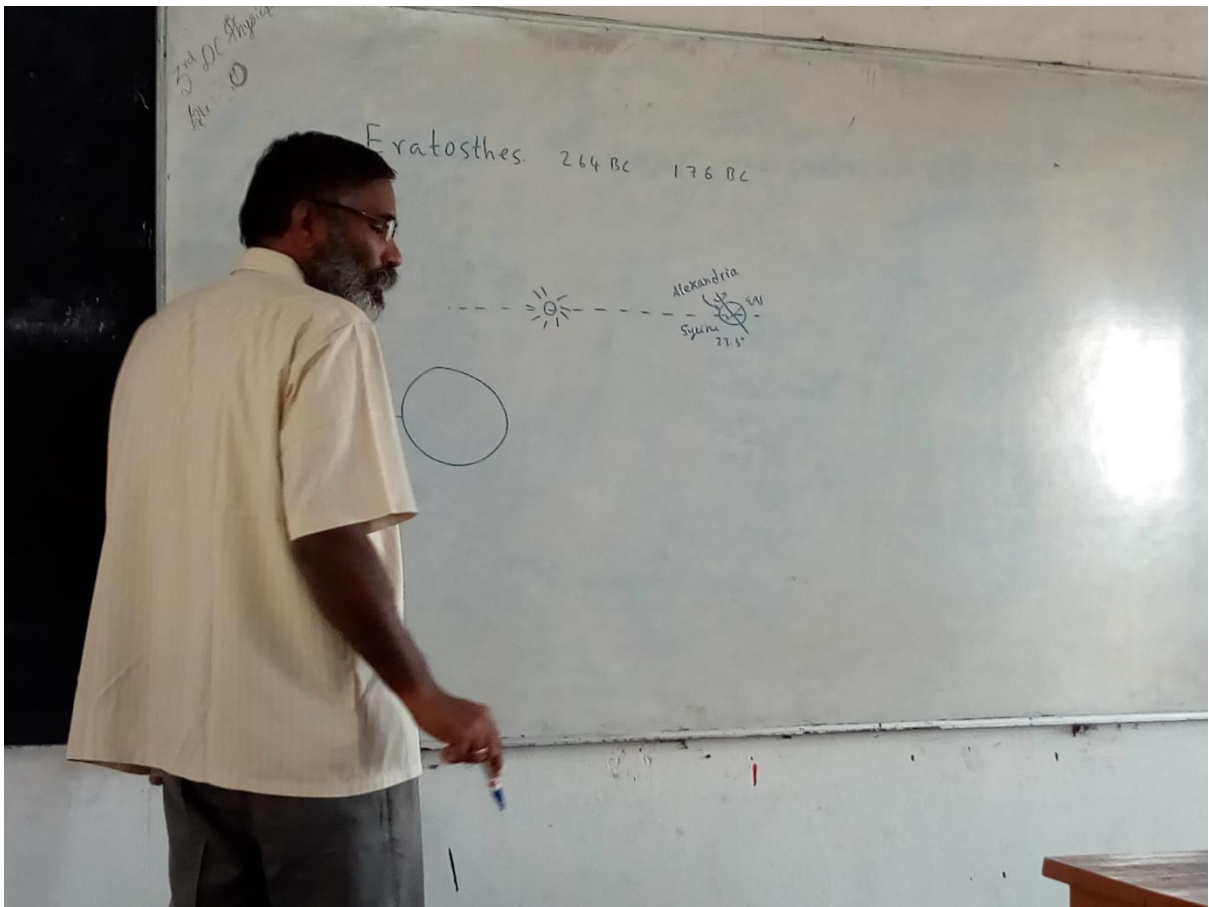
VIII. INNOVATIVE/ UNIQUE PROGRAMMES

Lecture Series by Dr. S. V. N. Sathyanarayanan

The interaction with eminent personalities is the best mode of scientific transfer of knowledge and information. The department of Physics had received a golden opportunity to improve our insight by the interaction with Dr. S.V.N Sathyanarayanan, Assistant Professor, Pondicherry University. The lectures series had seven talks from Dec 5-13, 2018, from 9:00 to 9:30 AM, before the regular class hours. These talks were on how to learn Physics effectively, contribution of eminent scientists including Galileo, John Kepler and Isaac Newton and growth of Science.

Students from our college, Baselius College and Government College, Kottayam attended the classes. Dr. S.V.N Sathyanarayanan is an experienced Physicist who is well versed in the field of Quantum Mechanics. He had chosen general theory of relativity and basic astrophysics concepts for improvisation of the curious young minds. Through him it was sure that students had developed an attitude of questioning rather than just answering.





Membership in Professional Bodies

About 15 students of Physics department got membership in Breakthrough Science Society .they become the active members of their society which is working on the development of scientific temper among younger generation, Science and Technology





Science for Man | Science for Society | Science in Thinking

BREAKTHROUGH SCIENCE SOCIETY

KERALA CHAPTER

(Reg. No. KTM/TC/847/2013)

MEMBERSHIP CARD

Name *Adona V.S.*

Membership No. *93*



Science for Man | Science for Society | Science in Thinking

BREAKTHROUGH SCIENCE SOCIETY

KERALA CHAPTER

(Reg. No. KTM/TC/847/2013)

MEMBERSHIP CARD

Name *Amala Maria George*

Membership No. *90*

Homage to Dr. E. C. G. Sudershan

Enakkal Chandy George Sudershan popularly called as Dr. ECG Sudershan was one among the most famous Indian Physicists. He was born and graduated at the native city Kottayam, Kerala. The contributions towards the Science society took him very close to Nobel prize and TACHYONS is just one among them.

He passed away on 13th of May, 2018 and a gathering was arranged as a part of obituary by his old classmates and students at CMS College, Kottayam. Eminent personalities from different part of the country came together. A meeting was held and a documentary on Dr. ECG Sudershan was shown.

Miss.Amala Maria George, as a representative of the Physics department of BCM College, Kottayam had attended the meeting.



IX. UNION MEMBERS

Raiza Rebecca Jacob of 2nd year Physics is the UUC of our college union.



Nithya George of 3rd DC Physics is selected as the sub magazine Editor of college union 2017-2018.

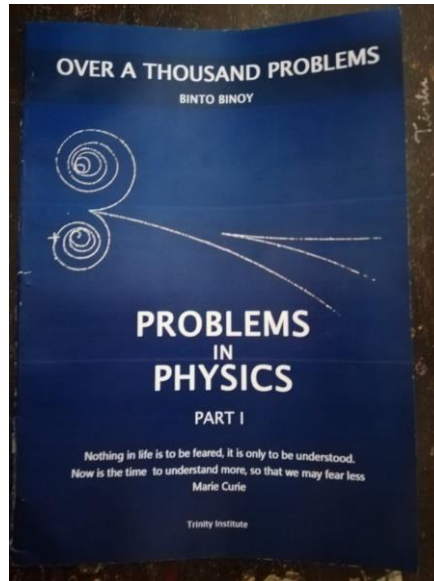


X. PROGRAMMES FOR SLOW/ ADVANCED LEARNERS

JAM coaching

Mr. Binto Binoy of Physics department is providing a JAM coaching for students around Kottayam to prepare for Physics PG entrance examinations by various reputed Indian Institutes and Universities on all Saturdays and Sundays. This year a book ‘Problems in Physics Part I ‘was also published, which had over a thousand problems for students to practice. Various students from our college and other colleges are participating in this programme.





BCM COLLEGE
KOTTAYAM



DEPARTMENT OF
PHYSICS

COACHING IN IIT-JAM (PHYSICS) 2019

Commence from

14 JULY 2017

All saturdays, sundays.

Course duration: 50 days

Five hours per day in two section

COURSE PATH

- @ July - October
Developing skills to solve problems.
Improving your knowledge and concepts in
Physics.
- @ November- University exams
- @ December – February
Discuss previous year question papers

Please Contact:

Elizabeth V John
HOD Physics
7558897015

Binto Binoy
Lecturer
9497278245

Every students capable of hardworking (or intelligent working), curious, interested in Science and questioning everything that they can't understand are welcome to this class. Booklets will be given to all individuals participating in the program.

Venue: BCM college, Kottayam.

Binto Binoy

Talk on Research Methodology

A talk on research methodology was taken for the final year students by Dr. Elizabeth V. John on Nov 1st. This was to orient them in doing their project effectively.



XI EXTENTION ACTIVITIES

Science camp at Jawahar Balabhavan

Sharing is an experience. In association with Breakthrough Science Society and Chemistry department, we organised 2 day Science camp for school children of 8th, 9th and 10th students on May 18th & 19th. We gave a talk on the great Physicist Alexander Graham Bell and demonstrated experiments based on the theory the students study in their 8th 9th and 10th classes. The children were very excited to see the effects of electricity and magnetism, the principles of reflection and refraction, the power of vaccum, etc. They were very curious and asked many questions, tried many of the experiments themselves, and tries to all questions of the quiz competition based on the demonstrated experiments.









LED Bulb Assembling and repairing workshop

With the financial assistance of Paristikam 2018, a LED Bulb assembling and repairing workshop was organised on Jan 11th for the teachers and students of other department. The Principal of our college, Mrs. Josephina Simon inaugurated the Workshop. Ms. Amala Maria George took a presentation on the theory and process behind the assembling. Teachers and students of Physics department assisted the participants in the assembling.





