



VOLUME I
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PHYSIK

Aloysian Physics News Letter



Published by: Department of Physics, St. Aloysius' College Edathua, Alappuzha

Ph : 0477-2212264 Web: physicssacedathua.org E-mail: physicssac2013@gmail.com

Manager's Message



I am only too happy to note that our Department of Physics is releasing its first edition of the News Letter *Physik* in connection with 35 years of service. My mind always recollects the name of the Department with pride because it has been flourishing day by day owing to the dedication of teachers. I pray the Almighty to shower blessings upon the department for ever.

Manager

Very. Rev. Fr. John Manakunnel

From the Desk of the Principal



Department of Physics is celebrating its Coral Jubilee. Yes, it is the 35th year of its existence in an institution which is 52 years young. I am contented to see that the alumni of the department are placed in many educational institutions, public and private sector companies and Government offices in India and abroad.

The college, the input of which is mainly from the waterlogged, secluded rural villages of Kuttanadu taluk, considers this educational service as a vocation under the blessings of our Patron Saints, St. Aloysius Gonsaga and St. George which helped many marginalised and socially and financially backward families find a decent living.

It is noteworthy to observe that the department which runs the UG and PG programmes in Physics is at the doorstep of becoming an approved research centre. Four of the eight faculty members are doctoral degree holders and three are pursuing their Ph.D also. I am privileged to observe that the department played a central role this year in securing Rs. 95 Lakhs from the DST under its FIST scheme, for the development of all the science departments of the College. I wish the department could scale greater heights in Higher Education, Research and Nation building.

Principal

Dr. Saban K V

EDITORIAL



It is with great pleasure that we bring you the first issue of *Physik*, an annual newsletter of Department of Physics. The newsletter- *Physik* very aptly sums up the prospects of the department.

It also highlights the activities of our students and the achievements of the faculties during the past one year. This news letter also throws light on the facilities that the department provides.

In this coral jubilee year we thank God Almighty for the blessings showered on us. We are very proud to say that our students would surely benefit from all these programmes. The intent of *Physik* is to disseminate information about our department, and we hope that readers find the issues informative and useful. We welcome suggestions and feedback that help us to improve further.

Dr. Vinu T. Vadakel
Editor

"Dream Comes True"



A long cherished dream of our department to publish a news letter is finally materialised in connection with Coral Jubilee celebration of the department.

Physik- 2017 is the outcome of the unity and strength of our department for the last 35 years. I congratulate Dr. Vinu T Vadakel and our teachers for the successful publication of the first edition of the newsletter *Physik*- 2017.

Physics walks forward on two feet namely theory and experiment. But the continuous progress is only made by the use of both.

All the Best

Yours HoD

Dr. Jochan Joseph.

Farewell



FR. THOMAS KANJIRAVELIL
Bursar of the College
for the last 6 years

Welcome

FR. VARGHESE EDACHETHRA
New Bursar of the College



ABOUT DEPARTMENT OF PHYSICS

The department of Physics commenced its functioning in 1965. It became a full fledged department in 1981 by starting B.Sc Physics main course with Chemistry and Mathematics as complementary courses. M.Sc Physics with Material Science as specialisation was started in 1999. A UGC sponsored Model III course Electronic Equipment Maintenance was also launched in 2001 under the Physics department. Now there are eight faculties in the department with Dr. Jochan Joseph as the Head of the Department. Almost 130 students are now studying in the department. Aloysian Instrumentation facility and the Research Lab is very useful for the students to do their projects. This facility is open for outside students also. The procedures to upgrade the department into a research department is under process. The teachers of the department conducted so many activities for the betterment of students. The department has owned 8 laboratories for UG and PG classes. Almost 1000 books, 13 journals and periodicals are present in the department library. Astronomy club of the department conducting Sky Watching programmes every year. The alumni forum – Diamond Dual, meeting was conducted on second Saturday of every February. The department conducts invited lectures and seminars by renowned resource persons based on relevant topics in physics. There are 17 endowments instituted by the former faculty and well-wishers for the outstanding students.

ISRO LAUNCHED 104 SATELLITES IN A SINGLE MISSION CREATED WORLD RECORD

India's space agency Indian Space Research Organisation (Isro) successfully launched 104 satellites in a single mission on 15-02-2017, setting what it says is a world record of launching the most satellites at one go. Of the 104, 101 are foreign satellites to serve international customers as the South Asian nation seeks a bigger share of the \$300 billion global space industry.



Research Facilities available in the Department

- * Photoluminescence spectrofluorimeter
- * Spin Coating Unit
- * Dip Coating Unit
- * Vacuum Furnace
- * Muffle Furnace
- * Distilled water unit
- * Magnetic stirrer
- * Ultrasonic cleaner

The launch of PSLV-C37 in a single payload, including the Cartosat-2 series and 103 co-passenger satellites, together weighed over 650kg. Out of 101 nano satellites, 96 were from the United States and one each from Israel, Kazakhstan, the Netherlands, Switzerland and the United Arab Emirates.

FACULTY CORNER

Faculty



Dr. Jochan Joseph



Prof. Lizymol Xavier



Ms. Rosmin John



Dr. Lakshmi Vijayan



Dr. Vinu T Vadakel



Ms. Rani George



Mr. Babu K Thomas



Mr. Pradeepkumar G
Guest Faculty

Congratulations
NET - JRF 2016
Alumni Member

Minor Research Projects (UGC Sponsored) Completed/ in Progress

Dr. Jochan Joseph- Photoelectronic studies of Mn doped Potassium halides- Rs. 1,31,000/- (completed)

Lizymol Xavier- Characterisation and studies of metal sulphide thin films in PVA matrix prepared by spin coating technique- Rs. 2,00,000/-

Rosmin John- Characterization and Studies of Metal Sulphide thin films in Sol-Gel Matrix Prepared by Spin Coating Technique-Rs. 70,000 /-

Dr. Lakshmi Vijayan- Investigations on Electrical, magnetic, electrochemical behaviour of NASICON and Olivine materials- Rs. 2,00,000

Dr. Vinu T Vadakel- Influence of high energy radiation on the optical and luminescent properties of Phthalocyanine thin films- Rs. 5,00,000

Rani George- Synthesis and Characterisation Studies of rare – earth doped TiO₂/PVDF hybrid membranes- Rs. 4,55,000. (completed)

SEMINARS/ CONFERENCES /WORKSHOPS ATTENDED

Rosmin John

- *Experimental Workshop conducted by APT at St. Thomas College , Pala from 29-06-2016 to 02-07-2016.

Dr. Lakshmi Vijayan

- *Orientation Programme conducted by UGC HRDC Calicut University from 15-6-2016 to 12-7-2016.
- *Refresher Course in Nano Science conducted by UGC HRDC Kannur University from 01-03-2017 to 21-03-2017.

Dr. Vinu. T. Vadakel

- *Experimental Workshop conducted by APT at St. Thomas College, Pala from 29-06-2016 to 02-07-2016.
- *Electronics Workshop conducted by APT at Providence Women's College ,Kozhikode from 10-12-2016 to 12-12-2016.

Rani George

- *Workshop on Spectroscopic Technique Sponsored by SRIBS, Pampady from 10-6-2016 to 12-6-2016.
- *Experimental workshop conducted by APT at St. Thomas College , Pala from 29-06-2016 to 02-07-2016.
- *Workshop on Electric and Magnetic Fields in Matter at Vimala College, Thrissur Sponsored by APT from 13-08-2016 to 15-08-2016.
- *Workshop on Basics of Relativistic Quantum Mechanics and Field Theory organized by Joint Science Education Panel of the three Science Academies from 29-11-2016 to 1-12-2016 at Bishop Moore college Mavelikkara.

Babu K Thomas

- *Workshop on powder, solids, nano& thin film characterisation using X-ray diffraction technique on 15th & 16th Decemer 2016 at PSG College Coimbatore.

STUDENT PROJECT SCHEME- KSCSTE SPONSORED

Project entitled as synthesis and optical characerisation of Dy³⁺ doped TiO₂/PVDF Hybrid material of Gokul H and Harishma Murlai of II MSc Physics got sanction from KSCSTE under student project scheme. Doing project under the guidance of Prof. Rani George.

NATIONAL SEMINAR

UGC sanctioned an amount of Rs. 1 Lakh for conducting a National Seminar on “Nanostructured Materials and its applications in green energy system”

DST FIST SANCTIONED

To strengthen the Teaching and Research facilities in the Science Departments of the college, DST-FIST sanctioned an amount of Rs. 95 lakhs. Among that Physics Department got **Rs. 63 lakhs** for Purchasing Research Equipments and Books. Principal, Dr. Saban K V, Head of the Department of Physics, Dr. Jochan Joseph were respectively the Chairman and Secretary of the Programme Implementation group.

“SMART ENERGY”- For a Better Future

(Got first prize in science article competition conducted by the department)

As energy conservation continues to gain attention on economic and social development across all nations, its importance is vastly increased. Modern, industrialized, society is ultimately depended on ubiquitous, cheap energy, which we expect to be readily available and to be convenient to use. Being the fact that major resources of energy consumption makes negative impacts on environment, the political representatives, industries and citizens have shown increased interest in the use of renewable and natural energy source. The term “smart” is little confusing, it just about everything is smart: phones, TV's, etc. A smart energy system is cost effective, sustainable and secure energy system in which renewable energy production, infrastructures and consumption are integrated through energy services and technologies. “Smart energy” covers the entire spectrum of renewable energy- wind, solar, bio mass, geo thermal and hydro power solutions vital to the growth and security of the country. 100% of green energy implies that there are no negative externalities from the use of energy of anything more than trivial consequences. Simply green energy refers to energy sources that are environmental friendly and thus harmless to the nature.

But the way to a “smart energy nation” is not so easy. The challenges are huge. Fundamental science has found solutions to many of the smart energy issues. It is the largest scale deployment in a cost -effective, safe and environmentally sound manner which has to be addressed. A successful implementation of a smart energy system will required reliable and secure production and balancing of energy.

Sariga V Jose
IInd M.Sc

SEMINARS / WORKSHOPS

ORIENTATION PROGRAMME

The activities of the Physics association during the year 2016-17 were started with an orientation programme on 8-7- 2016. Our former HoD Prof. James Sebastian gave an orientation class to all the students of the department. He took a class on "moral and spiritual values that the students must follow in life". Dr. Saban K V, the Principal gave an introductory talk. HoD Dr. Jochan Joseph welcomed all and the Physics Association Secretary Mr. Mathew Abraham Varghese of III DC Physics proposed the vote of thanks.



BRIDGE COURSE

Dr Varghese Mathew, Former HoD of Physics took a class on basics of physics as a bridge course. Discussed about the preliminary facts the students should remember ever. The class was very useful for students to refresh their basic knowledge. In the afternoon session Prof. Rani George discussed about the future scope of Physics in detail.



NATIONAL WORKSHOP ON ATOMIC ENERGY AWARENESS.

A National workshop on Atomic Energy Awareness was conducted by Indian Association of Nuclear Chemists and Allied Scientists- Southern Regional Chapter(IANCAS-SRC), jointly organized by Department of physics and Atomic Energy Retirees Association Kerala(AERAK) on 3rd February 2017. About 150 participants from various departments of the college attended the workshop. In the inaugural session, Dr. R Kumaresan Scientific Officer/ E, IGCAR, Kalpakam delivered a lecture on "Theory of Radioactivity" followed by Sri. G V S Ashok Kumar, , Scientific Officer/ D, IGCAR, Kalpakam took a class on "Application of Radioisotopes". In the afternoon session Dr. K A Venkatesan, Scientific Officer/ G, IGCAR, Kalpakam organized a practical demonstration to calculate the half life of Ba- 137 m and to find the half value thickness of lead. Principal Dr Saban K.V inaugurated and delivered the inaugural address. Sri C.R Venkata Subramani, President IANCAS -SRC delivered the keynote address. HoD Dr. Jochan Joseph gave away the welcome speech and the Coordinator, Prof. Rosmin John proposed the vote of thanks.



THE NOBEL PRIZE IN PHYSICS 2016-"FOR THEORETICAL DISCOVERIES OF TOPOLOGICAL PHASE TRANSITIONS AND TOPOLOGICAL PHASES OF MATTER

The Nobel Prize in Physics 2016 was divided; one half awarded to David J. Thouless, the other half jointly to F. Duncan M. Haldane and J. Michael Kosterlitz "for theoretical discoveries of topological phase transitions and topological phases of matter".

This year's Laureates opened the door on an unknown world where matter can assume strange states. They have used advanced mathematical methods to study unusual phases, or states, of matter, such as superconductors, superfluids or thin magnetic films.

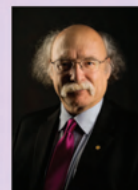
The three Laureates' use of topological concepts in physics was decisive for their discoveries. Topology is a branch of mathematics that describes properties that only change step-wise. Using topology as a tool, they were able to astound the experts. In the early 1970s, Michael Kosterlitz and David Thouless overturned the then current theory that superconductivity or suprafluidity could not occur in thin layers. They demonstrated that superconductivity could occur at low temperatures and also explained the mechanism, phase transition, that makes superconductivity disappear at higher temperatures.

In the 1980s, Thouless was able to explain a previous experiment with very thin electrically conducting layers in which conductance was precisely measured as integer steps. He showed that these integers were topological in their nature. At around the same time, Duncan Haldane discovered how topological concepts can be used to understand the properties of chains of small magnets found in some materials.

We now know of many topological phases, not only in thin layers and threads, but also in ordinary three-dimensional materials. Over the last decade, this area has boosted frontline research in condensed matter physics, not least because of the hope that topological materials could be used in new generations of electronics and superconductors, or in future quantum computers. Current research is revealing the secrets of matter in the exotic worlds discovered by this year's Nobel Laureates.



David J. Thouless



F. Duncan M. Haldane



J. Michael Kosterlitz

COMPETITIONS

Prof. Sabu Jacob Memorial Intercollegiate Science Quiz Competition- KSCSTE Sponsored

For the fond memory of Prof. Sabu Jacob, the Dept. of Physics conducted the 4th Sabu Jacob Memorial Intercollegiate Science Quiz Competition on 20th January 2017, sponsored by KSCSTE. Twenty four teams from various colleges were participated in the Quiz Competition. Prof. Justin John, Assistant Professor, Dept. of Physics, St. Berchmans College, Changanassery was the Quiz Master. Joel Jose and Don Xavier Sabu of St. Berchmans College, Changanassery won the first prize of Rs. 3000 and Prof. Sabu Jacob Memorial Ever Rolling Trophy. Sidharth R and Gayatri Govind V of St. Aloysius College, Edathua received the second prize of Rs. 1500. Third prize of Rs.500 bagged to Jinu John and Felicia Aswathy of C.M.S College Kottayam. Dr. Saban K.V, the Principal presided the Prize distribution ceremony. Prof. Rani George was the convenor of the programme.



DR.VARGHESE MATHEW ENDOWMENT ELOCUTION COMPETITION



To inculcate knowledge and language the Department conducted Dr. Varghese Mathew endowment elocution competition for the students of the Physics Department. Topic was "മഴമുളവാൽ അനുമാകുന്ന നാളെയെക്കുറിച്ച്". Fr. Joyce S. Thomas (I.B.Sc), Bikki Kuriakose (II M.Sc), Robin Jacob Roy (II M.Sc) respectively got I, II and III Prizes . Prof. Kochuthresiamma Joseph (HoD Mathematics) and Prof. Sherin Mathichipparambil (Asst. Prof. English) were the judges. Prof. Babu. K Thomas coordinated the programme.



SCIENCE POPULARISING PROGRAMME - EUREKA CORAL- KSCSTE SPONSORED

To familiarise the students of class X with basic principles in physics through hands-on experience, the Department of Physics conducted a two day workshop EUREKA CORAL-2016, sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) on 10th and 11th November 2016. Various conceptual experiments were arranged in seven stalls namely Electronics, General Physics, Light, Electricity and Magnetism, Hydroelectric Power, Universe and Satellites, Non conventional energy and Meteorology. About 503 students from neighbouring 11 schools participated in the workshop. Rev.Fr. John Manakunnel, the Manager inaugurated the workshop. Head of the Department, Dr. Jochan Joseph welcomed the gathering. Fr. Thomas Kanjiravelil (Bursar) Poli Thomas (President, Champakulam Block Panchayat), Tom J Kootakkara (President, Diamond Dual), delivered felicitations. Principal, Dr. Saban K V delivered the valedictory address. The Convenor, Dr. Lakshmi Vijayan proposed the vote of thanks. This workshop provided an opportunity for an in-depth understanding of basics of physics to improve the knowledge of students.



CELEBRATIONS

Coral Jubilee celebrations (1981-2016)

Department of Physics is celebrating its 35 years of service to the society. As the celebrations will give an opportunity to look back and appreciate the grace of God in keeping the department truly united, we decided to make the event a meritorious one. Formal inauguration of the coral jubilee celebration was on 30th September 2016. Before the inaugural ceremony, Dr. George Varghese, Director KSCSTE, delivered lecture on "Parallel Universe" as part of the inauguration of lecture series. HoD Dr. Jochan Joseph welcomed the gathering. Rev. Fr. John Manakunnel, Manager, presided the function and Sri. Thomas Chandy MLA inaugurated the Coral Jubilee celebrations and unveiled the jubilee logo. Principal, Dr. Saban K.V. delivered an introductory talk. Fr. Thomas Kanjiravelil (Bursar) gave a message and launched the official website of the Physics Department. Mr. Poli Thomas (President Champakulam Block Panchayat) released the cover page of the jubilee souvenir - Coral Legacy Dr. Varghese Mathew (former HoD) released the cover page of the newsletter. Mr. Tom J Koottakkara (President, Diamond Dual), Mr. Jaisappan (PTA representative), Mr. Mathew Abraham Varghese (student representative) were felicitated. The programme wound by the vote of thanks of Prof. LizyMol Xavier.



TEACHERS DAY

Under the leadership of Physics Association, Teachers Day was celebrated on September 5th. The programme was started with the welcome speech of Arya Gopinath of III DC Physics. Prof. George .C. Kattampallil , Founder HoD was honoured with shawl by our HoD Dr. Jochan Joseph. Dr. Saban K. V, the Principal presided the meeting. All the teachers of the department were honoured in the programme. As a token of respect, students gave teachers day card and rose flowers to all the teachers. III DC students presented a mime as a tribute to teachers. Prinko Prahalad of II B.Sc Physics felicitated during the function. HoD Dr. Jochan Joseph delivered the reply speech. Jiss Maria Jose of II Dc Physics proposed the vote thanks.



National Energy Conservation Day

National energy conservation day is celebrated every year by the people all over the India on 14th of December. The Energy Conservation Act in India was executed by the Bureau of Energy Efficiency (BEE) in the year 2001. The Bureau of Energy Efficiency is a constitutional body which comes under Government of India and helps in the development of policies and strategies in order to reduce the energy use. Energy conservation day celebration was inaugurated by Sri. Josekutty Sebastian, Resource Person, Energy Management Centre, Govt. of Kerala. Arranged a seminar on energy conservation and conducted LED bulb assembling class by Prof. Jose Abraham, Rtd. Professor, Newman College Thodupuzha. Assembled LED bulbs of 12 W, 9W, 7W and 5W were sold at reduced rate. People from neighbouring places are also participated.



Kudankulam Nuclear Power Plant Visit

Kudankulam Nuclear Power Project is the latest 3G+ reactor operational in the world. It belongs to Generator-III plus category as it incorporates many enhanced safety features like Passive Heat Removal system, Quick Boron Injection System and Passive Hydrogen Recombining System.

Seventy students and Teachers from the Physics department visited Kudankulam Nuclear Power Plant on December 26th. They attended the public outreach program conducted by the Nuclear Power Corporation of India as part of increasing awareness on Nuclear Energy. The Scientists explained about 'How does a Nuclear Power Station work?', Benefits of Nuclear Power, Types of Nuclear Power Plants in India and the safety features of Kudankulam Nuclear power Plant. The visit has enriched their knowledge and enabled them to get a comprehensive understanding of the subject.



ALL KERALA PHYSICS TALENT SEARCH EXAMINATION

To identify the talent among undergraduate Physics students and motivate them to pursue research careers in Physics, Academy of Physics Teachers Kerala (APT) conducted All Kerala Physics Talent Search Examination on 24th September 2016. 41 students of the department were participated in the examination. Dr. Vinu.T Vadakel was the Local Coordinator of the programme.

CHRISTMAS CELEBRATION – CRIB MAKING

As part of the Christmas day celebration the college conducted a crib making competition on department wise. Our students got second prize of Rs.1501/- . They were actively participated in the 'Nanma Maram' - helping hand towards poor people, programme conducted by the CSM.

A Project on Energy Management and Conservation of Energy

(The coordinator of the energy management club, Prof. Rosmin John prepared and submitted the project proposal to Energy Management Centre, Govt. of Kerala)

Conservation of the valuable energy generated through scarce resources has become a crucial necessity with the widening gap between demand and availability of energy. So the present project is an ambitious attempt to study the yearly-use of electricity for household purposes and to highlight how people unconsciously waste a lot of Electricity. The study aims to encourage the use of renewable energy based appliances, which are more eco friendly. It also concerns why one should conserve and manage Electricity for the betterment of our environment. Normative survey method will be used to collect the data.

The main objectives of the project are:

- To study the yearly-electric energy consumption at domestic level of houses of some selected villages.
- To study the use of renewable energy appliances as a supplementary to electric appliances
- To find out the efforts taken by people to Conserve Electricity
- To develop the awareness among students and other people about Conservation of Electricity
- To educate the people about the need and benefits of using renewable energy based appliances.

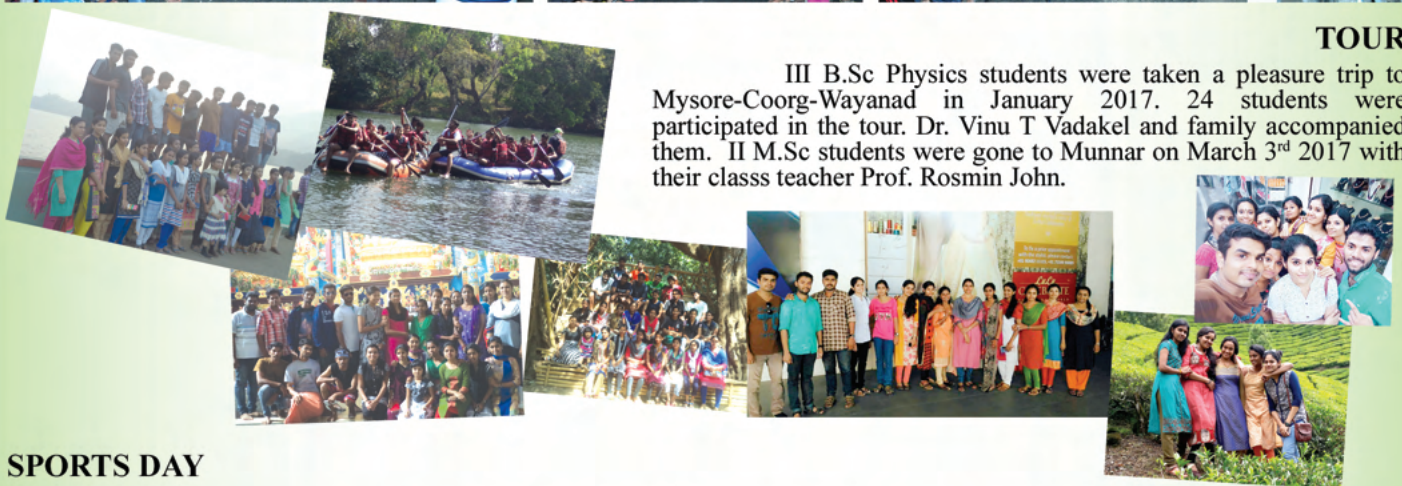
SKY WATCHING

To promote the interest in amateur astronomy, department conducted sky watching. Students from various departments and general public were participated



TOUR

III B.Sc Physics students were taken a pleasure trip to Mysore-Coorg-Wayanad in January 2017. 24 students were participated in the tour. Dr. Vinu T Vadakel and family accompanied them. II M.Sc students were gone to Munnar on March 3rd 2017 with their class teacher Prof. Rosmin John.



SPORTS DAY

The college conducted an annual sports day on 27-01-2017. Our students actively participated in various events and secured 3rd position in overall. The following students got prizes for various items.

Harishma Murali (II M.Sc)

Stephy Merin Antony(III B.Sc)

Christy George Mathew (III B.Sc)

Apsara Ratnan (II B.Sc)

Gayatri Govind V (II M.Sc)

4 x 100 M Rely (Women) - Volley Ball, Foot Ball



DIAMOND DUAL-2017

Alumini meet – Diamond Dual, for the year 2016- 2017 was conducted on 12th February 2017. More than 100 alumni and all former teachers attended . Function was inaugurated by Sri. Poli Thomas, our former student and President Champakulam Block Panchayat. Guruvandanam was conducted to honour the retired teachers. During the function we honoured the meritorious alumni by giving mementos. Alumni's shared their experiences. Discussions aimed at strengthening alumni relations for the benefit of the students and the college



ARTS DAY

Students of the Physics department actively participated in the Arts Day celebration. They presented group dance, Classical dance and Mono act.



ALOYSIAN EXEMPLAR-2017



Five final contestants from the Dept. of Physics

The best outgoing students of St. Aloysius College was determined by a contest called Aloysian Exemplar. Among the 10 finalists 5 of them were from the Physics Department.

Aloysian Exemplars from the Dept. of Physics



Aswathy K
II M.Sc



Mathew Abraham Varghese
III B.Sc



Stephy Merin Antony
III B.Sc

SEMINAR ON QUANTUM MECHANICS

As part of the valedictory function of the Physics Association, Dr. K P Satheesh, Rtd. Principal, Govt. Brennan College, Thalassery delivered a lecture on "Basics on Quantum Mechanics" on 2-3-17. All the students of the department were participated.



VALEDICTORY FUNCTION

The valedictory function of the Physics Association was held in the afternoon of 2-3-2017. Dr. K P Satheesh, Rtd Principal, Govt. Brennan College, Thalassery was inaugurated the function. During the function Aloysian Exemplars were honoured with mementos. All the students who got meritorious achievements in academics, sports and arts were also honoured with prizes.



B.Sc PHYSICS



OUTGOING STUDENTS

M.Sc PHYSICS



ACHEIVEMENTS OF STUDENTS *Congratulations*



Sidharth R
II M.Sc

Second prize in Prof. Sabu Jacob Intercollegiate Quiz Competition held at St. Aloysius college, Edathua.



Gayatri Govind V
II M.Sc



Jibu Issac Raju
I B.Sc

Third prize in Prof. Leela Philip 9th All Kerala Powerpoint Presentation held at Assumption College Changanassery.



Hariram M
I B.Sc



Lesly Anna Varghese
I B.Sc

Bronze medal in M.G University Taekwondo Championship held at MES College, Marampally.



Arya Gopinath
III B.Sc

Rev. Dr. Thomas Pothanamuzhi Award for the best outgoing student of the College from Science stream.

RELEASING OF MANUSCRIPT MAGAZINE

Manuscript Magazine AURORA 2017 was released by the Principal Dr. Saban K. V during the valedictory function. Sreejith Harikumar & Anandhu Gopinath of III BSc were the student editors. Prof. Rosmin John was the staff editor.

