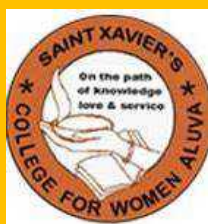




ST. XAVIER'S COLLEGE FOR WOMEN, ALUVA
REACCREDITED BY NAAC WITH A GRADE (CGPA 3.33)

DEPARTMENT OF PHYSICS
ANNUAL REPORT
2019-2020

PHYSICS ASSOCIATION ACTIVITIES REPORT 2019-2020



DEMONSTRATIVE CLASS ON ROBOTICS & AUTOMATION

20/06/2019



A class on Robotics was conducted on 20/06/2019 for third year B. Sc Physics students by DCS ROBOTICS.

PHYSICS ASSOCIATION INAUGURATION
Dr.S.Lekshmi, Asst Prof, SD College, Alappuzha

19/07/2019



The activities of Physics Association was inaugurated by Dr.S.Lekshmi Assistant Professor, Sanatana Dharma College, Alappuzha and a talk was conducted on “*Quantum Information Theory*”

JUNIOR SCIENTIST PROGRAMME

31/07/2019



Junior Scientist Programme by Navadarshan started on 31/07/2019.

ADD-ON COURSE INAUGURATION

1/08/2019



The *inauguration of the add on courses* for the department of Physics was held on 1/8/2019. The classes for the Robotics course were officially inaugurated by Principal Rev. Sr. Dr. Shalini and the classes were started by Ms. Lincy of DCS Robotics, Aluva.

FRESHERS DAY

21/08/2019



The *Fresher's Day* in association with the Physics association was conducted for the I DC students on 21-08-2019.

HUMAN RIGHTS CLASS BY MS. MINIMOLE

27//09/2019



A class was organized for III DC students on the topic “*Human Rights*” by Ms. Minimol, Asst Prof, Department of Political Science, St. Xavier’s College Aluva.

SWACHH BHARATH ABHIYAN

1/10/2019



Swachh Bharath cleaning was conducted as a part of Gandhi Jayanti in St. Xavier's College. The department of Physics bagged the first prize as the cleanest science department in the college.

STUDENT SOLAR AMBASSADOR (SSA 2019)

2/10/2019



Student Solar Ambassador (SSA 2019) was conducted by the IQAC & Energy Conservation Club of St Xavier's College Aluva. Four of the physics department faculties were selected as the trainers for the program. The students from the physics department took part as the young ambassadors for the program.

OZONE DAY CELEBRATIONS

3/10/2019



As a part of Ozone day celebrations online *Kahoot Quiz and essay writing* competitions were conducted for the students of the Physics department. UG and PG students from the department of Physics enthusiastically participated in the events.

Name	Class	Event	Prize
Hina Thomas	3 Dc	Essay	1st Prize
Maria Dona James	1 Dc		2nd Prize
Tharneem V.A Anu George	3 Dc	Quiz	1st prize
Farsana Nazar Sandra Liston	2 Dc		2nd Prize
Nikitha Unni	II PG		3rd Prize

**AN EXPERT TALK – ORACLE –
“SUSTAINABLE DEVELOPMENT, IT STARTS WITH
YOU” BY MR. SURESH**

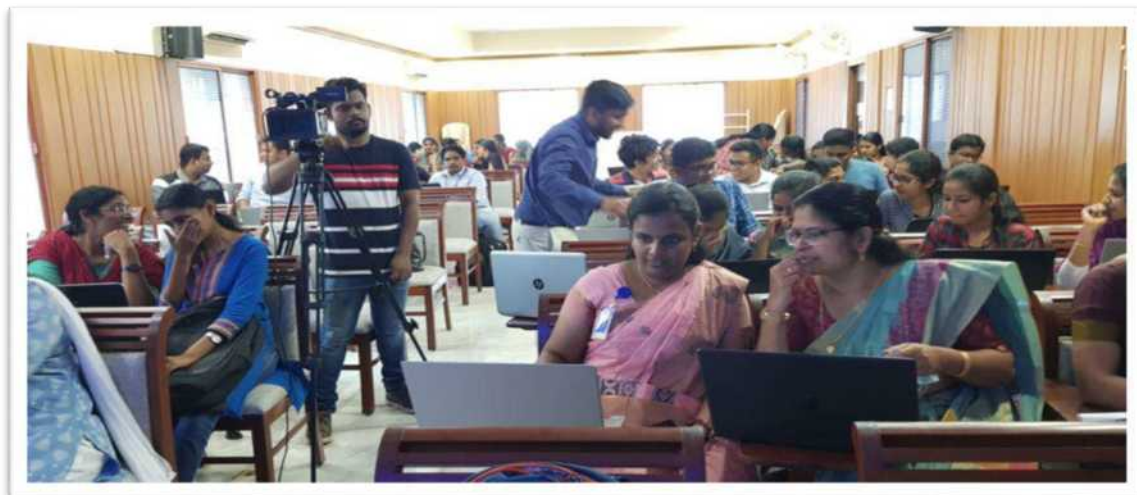
18-12-2019



Academic Week Expert Talk-ORACLE- BY Mr.Suresh Sir,
Additional Director, PCRA on the Topic ***“Sustainable Development:
It starts with you”***. A total of 100 participants were present.

INTERNATIONAL SEMINAR ON “ARTIFICIAL INTELLIGENCE” AND WORKSHOP ON “DEEP LEARNING”

6/1/2020



International Seminar on “Artificial Intelligence” and workshop on “Deep Learning” was conducted by the Physics department under the guidance of Mr. Arun Joseph Machine Learning Scientist @ BrainCorp, San Diego, California, USA. Academicians from various institutes participated in the event.

NATIONAL GRADUATE PHYSICS EXAMINATION (NGPE 2020) - 19/01/2020



In association with IAPT (Indian Association of Physics Teachers) *National Graduate Examination* was conducted on 19/01/2020 Saturday. St. Xavier's College acted as the Centre for the examination. A total of 31 UG students from the Department of Physics took part in the exam.

**ORIENTATION CLASS
BY NETWORKZ SYSTEMS
22/01/2020**



Networkz Systems, Kakkanad conducted an orientation class for the Third year B.Sc. Physics students on Artificial Intelligence and its future aspects. They also introduced various courses available for the students who are interested to pursue their career in the field.

ALUMNI EXPERT TALK

28/01/2020



Ms.Nishi M.S. and Ms. Geethu R. were invited on behalf of the Department of Physics for the annual *Alumni Expert Talk* on 28/1/2020. Both were alumni from the year 2005-2008. Nishi M.S. is working as a postal assistant and Geethu R. is currently doing her Post-Doc at CUSAT. How to live a successful life and how to have a successful career as a researcher were the topics of discussion for the meet.

INTERDISCIPLINARY STUDENT EXCHANGE PROGRAMME - INTERACT

12/02/2020



Inter disciplinary student exchange programme - *INTERACT* was conducted with the Department of Economics.

- Ms. Ajna A, III-year B.A. Economics took a class on “*Gentrification*” for the UG physics students.
- Ms. Sneha Theres, III year BSc Physics took a class for Economics students.

FIZIKA 2020

24/02/2020 & 25/02/2020

General Rules of the Competitions

- For quiz competitions, each School can send two teams, each team with maximum two members.
- For essay and poster designing competition, a maximum of two participants are allowed from class.
- Students are requested to produce permission letters from their Institute & ID cards at the time of registration.
- There will not be any registration fee.

Kahoot Online Physics Quiz Competition Q-1 & Q-2

- Each team should contain two participants. Separate Quiz competitions shall be conducted for school (Q-2) and undergraduate students (Q-1).
- Preliminary tests will be conducted and five teams will be shortlisted for the final.

For School Students

- First prize - Rs. 1000/-
- Second prize - Rs. 500/-

For College Students

- First prize - Rs. 500/-
- Second prize - Rs. 250/-

Essay Competition (Undergraduate students)

- Topic of Essay :Women in Physics.
- Time : 1 hour.
- First prize - Rs. 500/-
- Second prize - Rs. 250/-

Poster Designing Competition (Undergraduate students)

- Topic : Physics as a means to change the world.
- Time : 2 hours.
- Participants should bring the necessary materials for the same. Charts shall be provided.
- For College Students First prize - Rs. 500/-
- Second prize - Rs. 250/-


Treasure Hunt Competition (Undergraduate students)

- A group containing 2 members are allowed to participate from each class.
- Time limit : 45 min
- The game is restricted in the department.
- A total of 5 clues are to be solved and clues provided for each group has distinct colour code.
- Each group should collect all 5 clues in order.
- Discussions are allowed only between partners.
- First prize - Rs. 500/-


National Science Day 2020

" FIZIKA 2020 "


— Supported by —



Organized by
Physics Association
Department of Physics, St. Xavier's College



St. Xavier's College For Women
Aluva - 683101





"Real Growth of a country was in hearts, minds and bodies of young men and women of the country"
- Sir C V Raman.


Dear Sir/Madam,


Research Department of Physics at St. Xavier's College for Women, Aluva is celebrating National Science Day by organizing "FIZIKA 2020"

With great pleasure, we cordially invite the participation of students from your institution for this event.


Co-ordinator
Ms. Dhanya Jose


Head of the Department
Dr. Sheema Xavier


Principal
Rev. Sr. Dr. Shalini



" FIZIKA 2020 "

VENUE : DEPARTMENT OF PHYSICS
Date : 24.02.2020

PROGRAMME SCHEDULE

09.00 am : Inauguration
10.00 am : Talk by Dr. Tharanath R
Assistant Professor, Aquinas College Edacochi (Venue I)
11.30 am : Presentation - Anjali M. Nair, II DC Physics (Venue I)
01.00 pm : Quiz Competition Q-1(Undergraduate Students) (Venue I)
01.00 pm : Essay Writing competition (Venue II)
01.00 pm : Poster competition (Venue III)
03.00 pm : Valedictory Function and Prize distribution (Venue I)

DATE 25.02.2020

10:30 am : Talk on Magnetism & Introduction to Astronomy for School students(Venue I).
01: 00 pm : Quiz Competition Q-2 (School Students) (Venue I)
01: 00 pm : Treasure Hunt Competition (Venue department of Physics)

ORGANISING COMMITTEE

Dr. Sheena Xavier (HOD)
Ms. Leena Deenja N G
Ms. Joissy Mathew
Dr. Vimala George
Dr. Sujatha N V
Ms. Poornima B Shenoy
Ms. Dhanya Jose (Co-ordinator)
Ms. Surya Mary M

As a part of national science day, department of physics in association with All Physics Teachers Association (APT) and Department of Bio Technology of India (DBT) Star College Scheme conducted the annual physics fest **FIZIKA 2020**.

INAUGURATION



Dr. Tharanath R., Assistant prof, Aquinas College, Edacochin, inaugurated & delivered a talk on the topic ***“Knowing the Universe through New Windows”***.



Quiz competition (Q-1) & Poster designing competition





An *Inter school quiz competition* (Q-2) for school students and Treasure Hunt competition was held for UG and PG students of the department of physics as part of FIZIKA 2020.

RESULTS OF THE EVENTS CONDUCTED:

Name	Class	Event	POSITION
Liya Jacob	III DC PHYSICS	QUIZ COMPETITION FOR UG/PG STUDENTS	FIRST
Anu George			
E.Sreelakshmi	I PG PHYSICS	QUIZ COMPETITION FOR UG/PG STUDENTS	SECOND
Sruthi Mildred			
Karthik Jayan	IX std, SNDP HSS ALUVA	QUIZ COMPETITION FOR SCHOOL STUDENTS	FRIST
Vishnu P Venmany			
Afsana Shajahan	VIII std, St. Francis HSS for Girls, ALuva	QUIZ COMPETITION FOR SCHOOL STUDENTS	SECOND
Nisa Mol			
Roshini Nair	II PG Physics	ESSAY COMPETITION FOR UG/PG STUDENTS	FIRST
Aseen M J	III DC Physics	ESSAY COMPETITION FOR UG/PG STUDENTS	SECOND
Sneha Theres O J	III DC PHYSICS	POSTER DESIGNING FOR UG/PG STUDENTS	FIRST
Vineetha E P	II PG PHYSICS	POSTER DESIGNING FOR UG/PG STUDENTS	SECOND
Meenakshi Manoj	I DC PHYSICS	TREASURE HUNT FOR UG/PG STUDENTS	FIRST

School Linkage Program



School Linkage program was conducted for sixth standard school students of SNDP School, Aluva. The classes were led by Ms.Poornima B. Shenoy, Ms. Dhanya Jose and Dr. Sujatha N.V. A talk and a quiz competition using Kahoot online application was held as a part of the event. Students actively participated.

VALEDICTORY FUNCTION

9/03/2020



Students who gave outstanding performance during the academic year 2019-2020 in both academics and co-curricular activities were awarded prizes to acknowledge their achievements. Students who participated and who won prizes for the MG University Kalolsavam were also acknowledged.


AWARDEE DETAILS

Name	Class	Occasion
Twinkle Catherine Anjali	2 DC	2nd Prize for Presentation at BMC Thrikkakara
Hina Liya Neethil	3 DC	2nd Prize for Innovative Business Idea Competition Conducted by Innovation cell
Roshini Nair Lakshmi	II PG	3rd Prize for Innovative Business Idea Competition Conducted by Innovation cell
Neethil Pauline Tharneem Reshma	3 DC	Academic Excellence
Roshini Nair	II PG	

LOCKDOWN GAME EVENT

04/05/2020-08/05/2020

BROCHURE



GET IN TOUCH

Dhanya Jose
dharys40@gmail.com
Department of Physics
St. Xavier's College for Women,
Aluva, 683101

LOCKDOWN GAMES
GAMIFY YOUR
EXPERIENCE
DURING
QUARANTINE

DEPARTMENT OF
PHYSICS,
ST. XAVIER'S
COLLEGE FOR
WOMEN, ALUVA

"Center of your heart is the center of the universe. Go to that center and radiate positive vibration for the well-being of the humanity." — Amit Ray, Peace Bliss Beauty and Truth: Living with Positivity



OUR AIM

To create a stress free environment, to provide motivation, to give space for initiative to keep the students to keep good mental and physical health. Activities that can be done within the safety of your homes.

"Be safe, be active, be happy"

OUR GAMES

Day 1

1. Kahoot Quiz Challenge : Optics
2. "Lockdown memento" - a 1 minute video challenge

Day 2

1. Kahoot Quiz Challenge : Mechanics

Day 3

1. Kahoot Quiz Challenge : Electricity & Magnetism
2. Picture Challenge: Message to the COVID-19 Warriors



"We felt so lonely in the crowd. And now we feel so connected in isolation."

Day 4

1. Kahoot Quiz Challenge : Electronics

Day 5

1. Kahoot Quiz Challenge: Fundamental Mathematics in Physics
2. Video Mashup Challenge: Your Lockdown Creativity, a 2 minute video showcasing all the fun and creative activities done by you.

Let the fun begin !

During the lockdown period due to COVID - 19, the department of Physics conducted a Lockdown Game event as an initiative to help the students to keep good mental and physical health. The activities were so organized, that students could participate with in the shelter of their homes. It was a week long event consisting of challenges like daily Kahoot quizzes, 1-minute video challenge, picture challenge and video mashup challenge. The UG and PG students of the department actively participated for the events.





**PICTURE CHALLENGE
1 PG STUDENTS**





PICTURE CHALLENGE II DC STUDENTS

