

DEPARTMENT OF PHYSICS: ANNUAL REPORT 2018-19

The academic year 2018-19 of the department started with the commencement of classes for the III and V semester of the BSc programme, as well as the III semester of the MSc programme and also conducted a department meeting for the faculties to plan Departmental Activities for 2018-19. This annual report will provide an overview of the department's activities during the past year, including academic achievements, research accomplishments, and outreach efforts. This year we organized several programmes, including seminars, invited talks, exhibitions etc.

I. ACADEMIC PROGRAMS OFFERED BY THE DEPARTMENT

Sl No.	Name of the Program	Aided / self financing
1	BSc Physics	Aided
2	MSc Physics	Self financing

II. FACULTY DETAILS

Sl. No.	Name of the Faculty	Designation	Qualifications	NET/JRF / GATE/ SET	PhD/ M.Phil.
1	Biju KG	Associate Professor	MSc, MPhil	Nil	MPhil
2	Hashim NK	Assistant Professor	MSc	NET	Nil
3	Joseph MV	Rtd. Professor	MSc	Nil	Nil
4	Sumeesha KL	Associate Professor	MSc	SET	Nil
5	Febina CK	Associate Professor	MSc	SET	Nil
6	Shamna KH	Associate Professor	MSc	SET	Nil
7	Neeraja Krishna	Associate Professor	MSc	Nil	Nil
8	Shemeena P H	Associate Professor	MSc	SET	Nil
9	Salim K K	Assistant professor	MSc	Nil	Nil

III. STUDENT STRENGTH

programme	year	student strength	total
BSc Physics	I Year	39	116
	II Year	37	
	III Year	40	
MSc Physics	I Year	11	23
	II Year	12	
TOTAL STUDENTS			139

IV. UNIVERSITY EXAMINATION RESULTS

Programme	No of students attended the examination	No of students passed	Pass Percentage
BSc Physics	31	22	71%
MSc Physics	12	11	91.6%

V. DEPARTMENTAL ACTIVITIES

1. Physics Association Inauguration



The Physics Association was officially inaugurated by **Mr. Sabu Jose**, Science writer on **28/01/2019**. Dr. T P Muhammed Fareed, Principal, Presided over the function. The Department magazine was released by Dr. Biju K G, Head of the Department.

2. Science Fest



The department organized 'Science fest 2019' in connection with National Science Day on **28-02-2019**, with the support of KSCSTE, Trivandrum. **Sri. Muhammed Kutty PV**, Research Scholar, National Institute of Geomagnetism has delivered a talk on “**Geomagnetism**”

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Tommy M M (The Former Principal, St. Thomas college, Nadavayal) has delivered a talk on “**Our Universe**”. The programme concluded with a star watching session, lead by Mr. Tommy. M.M. 86 students participated in the programme.

3. Science Exhibition



The Department organized a physics open day with an Exhibition named ‘**SCILORE-2019**’ for the students of the entire college. Students exhibit a variety of science experiments. It was a great experience for the students from other departments as well as the faculties.

4. Lunar Day Celebration

The Department celebrated ‘Lunar Day 2019’ on 20th July. A poster exhibition was also conducted along with this. Students exhibited a variety of attractive Posters on successful Lunar



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landings, Chandrayaan etc. It was a great effort by the students of the Physics Department and was a good experience for the students from other Departments as well as faculties

5. Study Tour 2019



A study tour was conducted for third year BSc students to Chikmangalur, Dandeli etc. in the month of December 2019. We visited a PVC Factory and it was a great experience for students as well as teachers.

6. Workshop On Python Programming



The department conducted a two day workshop on 'python Programming' on **16-07-2018**. **Mr. Sunil John**, Assistant Professor, St. Mary's college, Sulthan Bathery was the resource person. 31 students participated in the workshop.

7. Sent-Off Function 2019



The Department celebrated '**SENT-OFF FUNCTION 2019**' on **17/04/2023** with a variety of cultural programmes. Students shared their experience with friends and teachers. 2nd year BSc students arranged lunch.

8. Invited Talks

Department conducted three invited talks in the academic year 2018-19:



Dr. PM. Sidharthan , Rtd.Scientist, ISRO gave a talk on “ 50 years of lunar landing” on 06/10/18. Third and second BSc students were the participants.



.Sri. Aliyas KP has taken a class on 06/10/18 on the topic “Mapping the Sky”. He discussed various Mapping softwares like Stellarium, Skymap, Skyview etc.



Mr. Sabu Jose, Science writer, has delivered a talk on “Science and Pseudo science’ on 28/01/2019. He discussed difference between science and pseudo science.

10. Department Magazine



The Department has released a magazine in which students contributed a variety of creative articles, drawings etc. The magazine was named as 'Ningal Thedunnathonnum Ithilundavanidayilla'. The Chief Editor was Dr. Biju K G and staff Editor, Mr. Salim K K.

VI. EXTENSION ACTIVITIES

1. Department organised physics open day with an Exhibition 'SCILORE-2019' for the students and the Public.
2. The department Organised a QUIZ COMPETITION for UG and PG students in connection with National Science day 2019.

VII. EMINENT PERSONALITIES VISITED THE COLLEGE

1. Sri. Muhammed Kutty PV researcher IIG
2. Tommy M M amateur astronomer
3. Mr. Sunil John Assistant professor St.Mary's college

VIII. ACHIEVEMENTS OF STUDENTS

- Two of our students got admission in MSc Nanoscience at Madras University.
- The Students of physics department actively participated in the F zone competition and bagged many prizes.
- A large fraction of the students of the department are members of Bhoomitra Sena and NSS.

IX. PAPER/ POSTER/ INVITED TALKS BY FACULTY:

- Biju KG delivered a skype talk in the Indo-Belgium conference in Brussels on 10/10/2018.
- Biju KG has Given an invited talk on the topic "The radio sky" in the National seminar at University of Calicut.
- Biju KG was the resource person for Data analysis in the Astronomy seminar at Farook

college, Calicut.

- Biju KG has presented a poster entitled “GMRT observations of a 2.2 megaparsec scale Giant Radio Galaxy, with ~ 650 kpc uninterrupted jet.” in the international conference “Meter wavelength sky-II” at Pune from 18-22 March 2019.

X. TEACHERS ATTENDED VARIOUS PROGRAMMES:

- Biju KG attended the Astronomical Society of India (ASI) meeting at Bangalore conducted at Christ (Deemed to be University) from 18-22 February 2019.
- Biju KG Participated in the international conference on “Meter wavelength sky-II” at NCRA, Pune from 18-22 March 2019.
- Hashim NK has attended a one day workshop on the National Program on Technology Enhanced Learning (NPTEL).
- Hashim NK has attended a one day workshop on Curriculum Designing at University of Calicut.
- Neeraja Krishna has attended a workshop on solution focussed anti-bullying organized by WMO college Muttill and ASFAR on 17th December 2018.

XI. BEST PRACTICES

- The department collects used books from senior students and gives them to students.
- The department has arranged an honesty shop, where students will get paper, pen, pencil, rubber, etc., and the money can be deposited in the box there. This is introduced to inculcate moral values like honesty, trust and self-respect in the students.