2020- 2021 was an interesting academic year in the sense that COVID pandemic flipped everything upside down. Though the college and department of physics had some difficulties in adapting to the new environment, we were able to switch to online classes and online programs thanks to the leadership and availability of facilities. Almost all activities were online programs due to the lockdown.

### I. ACADEMIC PROGRAMS OFFERED BY THE DEPARTMENT

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

#### II. DETAILS OF FACULTY

Sl.	Name of the	Designation	Qualifica	NET/JRF /
No	Faculty	Designation	tions	GATE/ SET
1	Biju KG	Associate Professor	PhD	Nil
2	Hashim NK	Assistant Professor	MSc	NET
3	Joseph MV	Rtd. Professor	MSc	Nil
4	Amaya Sivan	Assistant Professor	MSc	Nil
5	Febina C K	Assistant Professor	MSc	SET
6	Nidhin Soman P	Assistant Professor	MSc	NET
7	Neeraja Krishna	Assistant Professor	MSc	Nil
8	Muhammad Javad P	Assistant Professor	MSc	JRF

#### III. STUDENTS DETAILS

Programme	Year	Student Strength	Total
BSc Physics	I Year	40	120
	II Year	41	
	III Year	39	
MSc Physics	I Year	18	34
	II Year	16	
TOTAL STUDENTS			154

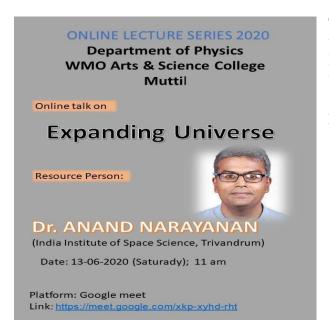
### IV. UNIVERSITY EXAMINATION RESULT (2020-21)

PROGRAMME	No of students attended the examination	No of students passed	Pass %
BSc Physics	39	29	74
MSc Physics	16	11	69

#### V. DEPARTMENT ACTIVITIES

#### 1. Online Talk Series

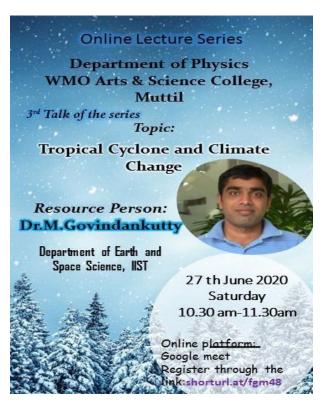
The Department of Physics conducted an online talk series during the peak of Pandemic. The series included five talks by faculties from various institutions in India



The series started with a talk on Expanding universe by Dr. Anand Narayanan, Indian Institute of Science, Trivandrum. The talk was organized via googlemeet on13th June 2020. Almost all students and faculties from physics department attended the talk.

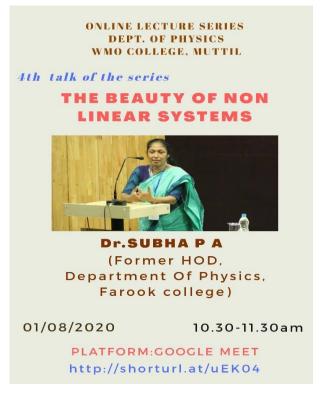
The second instalment of the series was a talk on Women in Science by Dr. Resmi Lekshmi, Department of Earth & Space Sciences IIST, Thiruvananthapuram. The talk was held on 20/06/20 via google meet. Dr. Reshmi Lekshmi gave an exciting insight into the contributions and achievements of women in science. She also focused on the current opportunities emerging in the field of science.

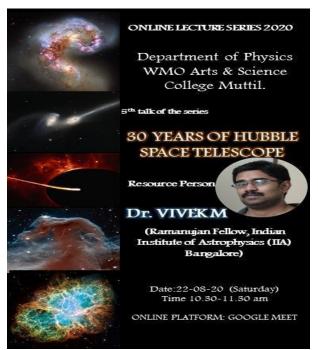




The 3rd talk of the series was on Tropical Cyclone and Climate change, One of the most heated topics of the time by Dr. M Govindankutty, Department of Earth and Space Sciences, IIST. The talk was organized on 27th June 2020 via googlemeet

Another talk in the series was given by Dr. Shubha PA, former HOD, Department of Physics, Farook College. The topic was 'The Beauty of Nonlinear Systems'. Students had an opportunity to hear about Chaos and nonlinear systems and its significance in day-to-day life. The talk was held on 1st August 2020 via google meet.





The fifth and final talk of the series was on '30 Years of Hubble Space Telescope' by Dr. Vivek M, IIA, Bangalore. The talk peaked into the pasts of our history.

It was held on 22nd August 2020 via googlemeet

#### 2. Regional Astronomy meeting

Another interesting and exciting online activity was the Regional Astronomy Meeting. The two-day program was on 9th and 10th July 2020. The sixth regional meeting focussed on the topic 'Research in Astronomy: Opportunities and Challenges'. The program was sponsored by IUCAA. The inaugural talk was presented by Prof. Ajit Kembhavi, IUCAA, Pune. Main





Highlights of the meeting:

9 Review talks by Senior Astronomers 22 Research talks by PhD students and Post Doc 14 Lightning talks by MSc students

highlights of the program include Review talks by senior Astronomers, Research talks by PhD students and Postdoctoral fellows and Lightning talks by MSc students. There were 10 review talks of 30 minutes each, 17 presentations of 15 minutes each and several lighting talks during the workshop. Eminent personalities delivered talks include Prof. Ajit Kembhavi, IUCAA, Pune, Prof. Annapurni Subramaniam, IIA, Bangalore, Prof. Ramaprakash A. N., IUCAA, Pune, Prof. Ishwar Chandra, NCRA-TIFR, Pune, Prof. A. Gopakumar, TIFR, Mumbai, Prof. Manoj Puravankara, TIFR, Mumbai, Prof. Anand Narayanan, IIST, Thiruvananthapuram, Prof. Debbijoy Bhattacharya, Manipal Centre for Natural Sciences, Manipal, Dr. Joe Ninan, Pennsylvania State University, USA, Prof. Ninan Sajeet Philip, St. Thomas college, Kozhencherry, Prof. Indulekha K., Mahatma Gandhi University, Kottayam, Prof. Paul K. T., Christ University, Bangalore, Prof. Ravikumar C. D., University of Calicut, Kerala, Prof. Harikrishnan K. P., Cochin College, Kochi, Dr. Smitha Subramanian, IIA, Bangalore, Dr. Minu Joy, Alphonsa College, Pala, Prof. Titus K. Mathew, CUSAT, Kochi Organising Committee, Dr. Reju Sam John, IUCAA, Pune, Dr. Jithesh V., IUCAA, Pune, Dr. Sheelu Abraham, Mar Thoma College, Chungathara, Dr. Savithri Ezhikode, IUCAA, Pune, Dr. Charles Jose, CUSAT, Kochi, Dr. Vivek M, IIA, Bangalore, Dr. Biju K G, W.M.O. College, Muttil, Wayanad, Prof. Joe Jacob, Newman College, Thodupuzha, Prof. Ranjeev Mishra, IUCAA, Pune

#### 3. National Science Day

The National Science Day was observed at the college. Ms Aparna KM was the chief guest. The program was conducted on 28th February 2021 via google meet.

#### VI. STUDENT MAGAZINE

One of the most excruciating concerns during pandemic was the student life in campus. Students all over the world missed their campus life and we have seen its significance via





news media. Student from department of physics however showed their enthusiasm and came up with a beautiful magazine for which the whole department gave immense support. Students adapted to the situation and decided on an online magazine. 2020-2021 magazine was named 'KARADU 2.0' following the previous year magazine 'KARADU'. Shameemudheen KA coordinated the efforts as the student editor. Students contributed to the magazine by providing articles and other creative ideas. Readers can look up the magazine here https://online.fliphtml5.com/ppdig/gkxc/#p =11

### VII. EMINENT PERSONALITIES VISITED THROUGH VIRTUAL PLATFORMS

- 1. Prof. Ajit Kembhavi, IUCAA, Pune
- 2. Prof. Annapurni Subramaniam, IIA, Bangalore
- 3. Prof. Ramaprakash A. N., IUCAA, Pune
- 4. Prof. Ishwar Chandra, NCRA-TIFR, Pune
- 5. Prof. A. Gopakumar, TIFR, Mumbai
- 6. Prof. Manoj Puravankara, TIFR, Mumbai
- 7. Prof. Anand Narayanan, IIST, Thiruvananthapuram
- 8. Prof. Debbijoy Bhattacharya, Manipal Centre for Natural Sciences, Manipal
- 9. Dr. Joe Ninan, Pennsylvania State University, USA
- 10. Prof. Ninan Sajeet Philip, St. Thomas college, Kozhencherry
- 11. Prof. Indulekha K., Mahatma Gandhi University, Kottayam
- 12. Prof. Paul K. T., Christ University, Bangalore
- 13. Prof. Ravikumar C. D., University of Calicut, Kerala
- 14. Prof. Harikrishnan K. P., Cochin College, Kochi
- 15. Dr. Smitha Subramanian, IIA, Bangalore
- 16. Dr. Minu Joy, Alphonsa College, Pala
- 17. Prof. Titus K. Mathew, CUSAT, Kochi
- 18. Dr. Reju Sam John, IUCAA, Pune
- 19. Dr. Jithesh V., IUCAA, Pune
- 20. Dr. Sheelu Abraham, Mar Thoma College, Chungathara
- 21. Dr. Savithri Ezhikode, IUCAA, Pune

- 22. Dr. Charles Jose, CUSAT, Kochi
- 23. Dr. Vivek M, IIA, Bangalore
- 24. Prof. Joe Jacob, Newman College, Thodupuzha
- 25. Prof. Ranjeev Mishra, IUCAA, Pune
- 26. Prachi Praaavati, PRL Ahmedabad,
- 27. Dr. Anand Narayanan, Indian Institute of Science, Trivandrum.
- 28. Dr. Resmi Lekshmi, Department of Earth & Space Sciences IIST, Trivandrum.
- 29. Dr. M Govindankutty, Department of Earth and Space Sciences, IIST.
- 30. Dr. Shubha PA, former HOD, Department of Physics, Farook College
- 31. Dr. Vivek M, IIA, Bangalore

#### **VIII. ACHIEVEMENTS OF STUDENTS:**

- 16 out of the 29 students who passed BSc physics joined for higher studies.
- 4 of the MSc students joined for higher studies and two got employed in the software field.
- Geethika Gopinathan and Shammas Ahammed got PG admission in central Universities.

#### IX. POSITIONS HELD BY FACULTY MEMBERS

- Mr. Biju KG served as a member of UG Board of studies, University of Calicut.
- Mr. Biju KG is the chairman of even semester UG CV/CMV camps of Calicut University in the Wayanad region.
- Mr. Biju KG is the chairman of UG physics Practical examinations of Calicut
- University in the Wayanad region.
- Mr. Biju KG served as the IQAC Coordinator.
- Mr. Biju KG is a member of the College Council.
- Mr. Hashim NK is the officer in charge of NCC.
- Mr. Hashim NK is the coordinator of the Basic amnesties cell of the college.

### X. BEST PRACTICES

- The department collects used books from alumni and provide currents students a department library facility
- 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.