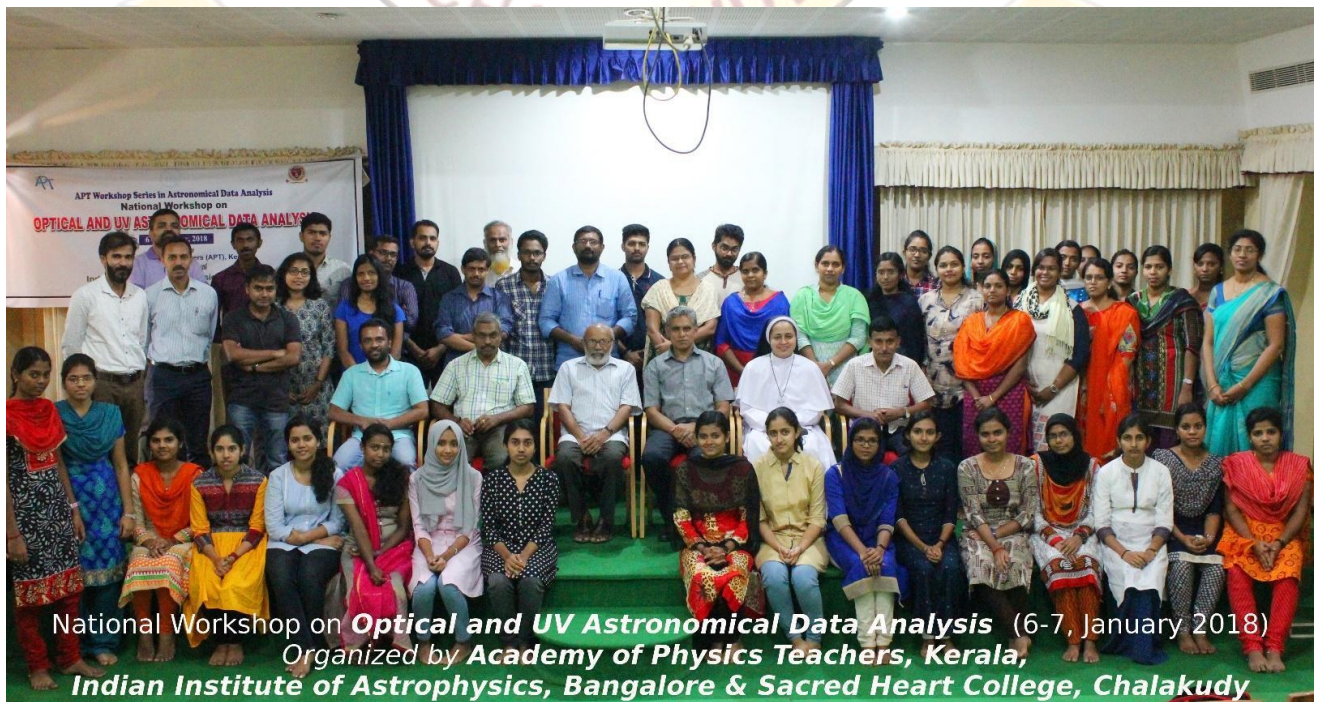


# National Workshop on “Optical and UV Astronomical Data Analysis” for researchers and faculty

6 - 7 January, 2018

## Report

A National Collaborative Workshop on “Optical and UV Astronomical Data Analysis” was organized by the Department of Physics, Sacred Heart College, Chalakudy in collaboration with the Indian Institute of Astrophysics, Bangalore and the Academy of Physics Teachers, Kerala on 6<sup>th</sup> and 7<sup>th</sup> January 2018. This workshop is aimed at enhancing the astronomical data analysis skills of researchers in the area of Astrophysics. The team of scientists from IIA handling ASTROSAT Data served as resource persons for the workshop. The faculty, researchers and students across the nation who attended the workshop provided positive feedback, especially about the hands-on training they obtained during the workshop. The certificate issued for the workshop clearly establishes the collaboration with the Indian Institute of Astrophysics (IIA), Bangalore.



## Brochure of the Event which shows the collaboration:

### APT COMPUTATIONAL PHYSICS SERIES

Series 1 : Astronomical Data Analysis

#### **National Workshop 4 : OPTICAL AND UV ASTRONOMICAL DATA ANALYSIS**

In Collaboration with IIA, Bangalore

Topic : **OPTICAL AND UV ASTRONOMICAL DATA ANALYSIS**

Dates : 6 - 7 January 2018

Venue : Sacred Heart College, Chalakudy

Resource persons : 1. Dr. P. Sreekumar, Director, Indian Institute of Astrophysics, Bangalore  
2. Dr. Annapurni Subramaniam, Professor, IIA  
3. Dr. C. S. Stalin, Associate Professor, IIA  
4. Dr. Koshy George, Post-Doctoral Fellow, IIA  
5. Rekshesh Mohan, Scientist D, IIA

The workshop is a joint venture of APT, Kerala, IIA, Bangalore and Sacred Heart College, Chalakudy. In this workshop, we will start with the basic techniques of astronomical data analysis in the optical and ultraviolet band and discuss how the data can be extracted and analyzed. The resource persons belong to the team of scientists in charge of the UV telescopes in the Indian satellite ASTROSAT and the original data from ASTROSAT will be used for hands-on sessions. The workshop aims to provide teachers and students with a range of ideas and activities which will help them initiate minor projects related to optical and UV astronomy. Both students and teachers can apply. No registration fee for students.

Maximum intake : 40

**Last date for registration : 20 December 2017**

**Registration fee** : Non-Resident : Rs.600, Resident : Rs.900.

**How to apply** : Transfer the registration fee by internet banking to the account of Nijo Varghese, SB A/C. No: 67066021541, Bank: SBI, Chalakudy PSB, IFSC: SBIN0071020. After transferring the fee, notify your name, college, amount credited, and transaction ID and date by e-mail to [nijovarghesen@gmail.com](mailto:nijovarghesen@gmail.com).

**Coordinator** : Dr. Nijo Varghese, Dept. of Physics, Sacred Heart College, Chalakudy  
E-mail : [nijovarghesen@gmail.com](mailto:nijovarghesen@gmail.com) | Ph : 9496805788

## Programme Schedule

### SCHEDULE

#### Day - 1 (06 January 2018)

- 10:00 - 10:45 : Optical and UV astronomy in India : Current scenario and future possibilities  
Dr. P. Sreekumar
- 11:15 - 12:00 : Optical Astronomy: Observations and observables  
Dr. Annapurni Subramaniam
- 12:00 - 13:00 : Optical Astronomy: Procedures to extract information from Data  
Dr. C. S. Stalin
- 14:00 - 15:30 : Optical Astronomy: Hands-on-session  
Stalin/ Annapurni Subramaniam / Snehalata Sahu/ Kshama Kurian
- 16:00 - 17:30 : Optical Astronomy: Hands-on-session - continued  
Stalin/ Annapurni Subramaniam/ Snehalata Sahu/ Kshama Kurian

#### Day 2: (07 January 2018)

- 10:00 - 10:45 : UV astronomy: Observations and observables  
Dr. Annapurni Subramaniam
- 11:15 - 12:00 : UV Astronomy: Procedures to extract information from UVIT on board AstroSat  
Dr. C. S. Stalin
- 12:00 - 12:45 : UV Astronomy: Planning an observation with UVIT  
Rekshesh Mohan/ Koshy George
- 14:00 - 15:30 : UV Astronomy: Hands on session for UVIT analysis  
Snehalata Sahu/ Stalin/ Koshy George/ Rekshesh Mohan
- 16:00 - 17:30 : UV Astronomy: Hands on session for UVIT analysis - continued  
Snehalata Sahu/ Stalin/ Koshy George/ Rekshesh Mohan
- 17:30 - 17:45 : Feedback from participants

Image 1: Dr. P Sreekumar, Director, IIA inaugurating the event

Image 2: Newspaper Report

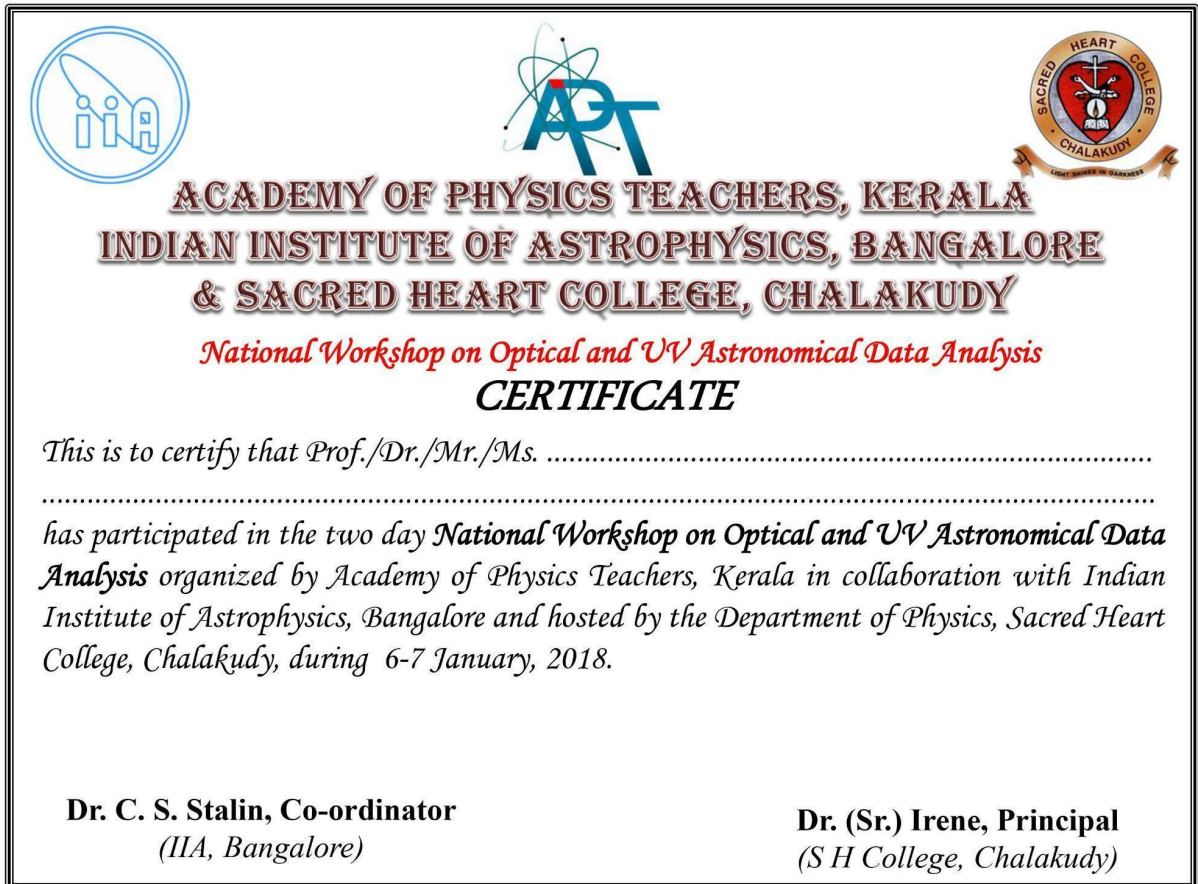


**Translation -**

**Title: ASTRONOMICAL WORKSHOP**

*Chalakudy: Two day National Workshop on Astronomical data analysis was conducted at Sacred Heart College, Chalakudy. This is the second time a national workshop being organized by the Department of Physics. The workshop was related to the analysis of the information regarding ISRO satellite ASTROSAT. The software required for the data analysis was introduced. The sessions were headed by Dr. P. Sreekumar, Director, Indian Institute of Astrophysics, and Dr. Annapurni Subrahmanyam. Principal Dr.Sr. Irene presided over the function. Dr. C.S.Stalin, Dr.Prakash George, Dr. Nijo Varghese addressed the gathering. This is the fourth workshop being conducted at Sacred Heart College in association with the Academy of Physics Teachers, Kerala.*

**Model of Certificate issued for the Workshop which indicates the Collaboration with IIA**



## List of Participants

<b>APT COMPUTATIONAL PHYSICS SERIES</b>			
<b>Series 1 : Astronomical Data Analysis</b>			
<b>National Workshop 4 : OPTICAL AND UV ASTRONOMICAL DATA ANALYSIS</b>			
<b>In Collaboration with IIA, Bangalore</b>			
<b>Teachers</b>			
<b>SL.No</b>	<b>Name</b>	<b>Institute</b>	
1	Dr. Sujatha N V	St. Xavier's Collage, Aluva	
2	Aranya S	S.N College, Sivagiri, Varkala	
3	Dr. Vinod G	Sree sankara College, Kalady	
4	Dr.B.Kavitha	Sri G.V.G Visalakshi College for women, Tamil Nadu	
5	Ms.J.Sree Sudha	Sri G.V.G Visalakshi College for women, Tamil Nadu	
6	Abdul Rafoof K A	Sullamussalam Science College, Areacode	
7	Sudheesh T P	Newman College, Thodupuzha	
8	Shahana.T.A	M.E.S.Asmabi, Kodungallur	
9	C Sukesh	Govt. Victoria College Palakkad	
10	Nimmi Narayanan	Sree Sanakara College Kalady	
11	Minu.K.M	S N College, Nattika.	
12	Dr. Shaju K Y	Christ College, Irinjalakuda	
13	Fency K F	S H College, Chalakudy	
14	Bhavana E M	AWH Engineering College, Kozhikode	
15	Aparna Raj	K.E College , Kottayam	
16	Dr. Jeena	Providence College	
17	C A Safeeqe	Sullamussalam Science College, Areacode	
<b>Students</b>			
18	Jasmine Mary Kuriakose	Assumption College, Changanacherry	M.Sc
19	Dhanya Mary Mathew	Assumption College, Changanacherry	M.Sc
20	Amrutha Gayathri A	Bishop Moore College,Maveli	1M.Sc
21	Devika B S	Bishop Moore College,Maveli	1M.Sc
22	Koushika VP	Central University of Tamilnadu	int MSc
23	Dona Joseph	Christ College, IJK	B.Sc
24	Aswani	Christ College, Ijk	M.Sc
25	Delji Jose	Christ College, Ijk	M.Sc
26	Faiha mujeeb	CUSAT	M.Sc
27	Mahith M	CUSAT	M.Sc
28	Rahul G S	Devaswom Board College	1M.Sc
29	Thahsina Ibrahim	M.E.S.Asmabi, Kodungallur	B.Sc
30	Kasthuri. N.M.	M.E.S.Asmabi, Kodungallur	B.Sc
31	Catherine George	Marthoma College,Thiruvalla	2M.Sc
32	Shilpa Mary Mathew	Marthoma College,Thiruvalla	2M.Sc
33		Newman College, Thodupuzha	M.Sc
34		Newman College, Thodupuzha	M.Sc
35	Sharon Xavi	NSS College , Ottapalam	M.Sc
36	Elza Johnson	S H College, Chalakudy	2M.Sc
37	Niya Yathendran	S H College, Chalakudy	1M.Sc
38	Sreelekshmi Krishnadas	S H College, Thevara	M.Sc
39	Rajalakshmi T R	SPAP, M.G.University	RS
40	Bismi Badherdheen	SPAP, M.G.University	2M.Sc
41	Ms.S.Agalya	Sri G.V.G Visalakshi College for women, Tamil Nadu.	M.Sc
42	Ms.C.Prema	Sri G.V.G Visalakshi College for women, Tamil Nadu.	M.Sc
43	Ms.C.Sangeetha	Sri G.V.G Visalakshi College for women, Tamil Nadu.	M.Sc
44	Mariya Maneesha TS	St Albert's college	M.Sc
45	Dhivya Murali	St Albert's college	M.Sc
46	Merlin Varghese	St. Thomas College, Thrissur	B.Sc