



**ST.STEPHEN'S COLLEGE PATHANAPURAM**

**POST GRADUATE DEPARTMENT OF PHYSICS**

**ANNUAL REPORT**

**2022 -2023**

# PHYSICS ASSOCIATION INAUGURATION - A BRIEF REPORT

## ST STEPHEN'S COLLEGE, PATHANAPURAM



WE WISH  
THE  
POTENTIAL  
OF YOUR  
LIFE NEVER  
ENDS.....

 Aprem Ramban Seminar Hall  
 14-NOV-2022  
 10 am

Ms. Shibi Krishnan  
Head of the department

### OUR CHIEF GUEST



Mr. Laby George Jose  
Consultant Psychologist

### PHYSICS ASSOCIATION INAUGURATION

Dr. Koshy P M  
Principal

## INAUGURATION CEREMONY

The department has an active association. The association organizes curricular as well as co-curricular activities every year. These activities provide ample opportunities for the students to express their talents and develop various skills. The inauguration of our Royal Physics Association was conducted on 14th November 2022 at 10 a.m. in the College Seminar Hall.



Ms. Arunima S Kumar, Student of IIIDC B.Sc welcomed the gatherings. Ms. Shibi Krishnan (H.o.D) described the importance of Department Associations in Colleges. She motivated everyone to actively participate in the association programmes to get benefited. The association was then inaugurated by Dr. Koshy P M, College Principal. The Chief Guest of the day, Mr. Laby George Jose, Consultant Psychologist delivered the keynote address. He spoke with immense pleasure and motivated the gathering, by his inspirational talk. After this, a memento was presented to the Chief Guest by the Head of the department. Finally, Ms. Fousiya S, I DC student extended the Vote of Thanks.

## COUNSELING SESSION TO STUDENTS

Under the COVID-19 scenario, students were facing unique challenges in their academic as well as social and personal life. Our department sees it as our responsibility to support students to face various challenges in their life. Mr. Laby George Jose, Consultant Psychologist was invited to deliver a counseling class on the topic "Mental Health" on 14th November 2022 to our UG and PG students. About 48 students participated in this motivational and supportive counseling session. They thoroughly enjoyed and were benefited through the various activities and discussions initiated by Mr. Laby.





# PARTICIPANTS LIST

46

Sl No	Name of Student	class & college/school	Signature
1	Agnes Robert	S <sub>1</sub> - Bsc Physics	
2	Anjana Krishnan S	S <sub>1</sub> - Bsc physics	
3	S. Jothi	S <sub>1</sub> - Bsc physics	
4	Aparna Shibu	S <sub>1</sub> - Bsc physics	
5	Ganapathi S	S <sub>1</sub> - Bsc physics	
6	Abhijith M	S <sub>1</sub> - Bsc physics	
7	Mandaleshkumar S	S <sub>1</sub> - Bsc Physics	
8	Karthik S	S <sub>1</sub> - Bsc Physics	
9	Dhruv S	S <sub>1</sub> Bsc Physics	
10	Amruthesh T Nair	S <sub>1</sub> Bsc Physics	
11	A. Devakrishnan	S <sub>3</sub> Bsc Physics	
12	Christy Kurian	S <sub>3</sub> Bsc Physics	
13	Edson Edwino	S <sub>3</sub> Bsc physics	
14	Cybil John Mathew	S <sub>1</sub> Bsc physics	
15	Aaron T Varghese	S <sub>1</sub> Bsc physics	
16	Govini Karishma	S <sub>1</sub> Bsc physics	
17	Jenat Thomas	S <sub>1</sub> Bsc Physics	
18	Anjana Krishna	S <sub>1</sub> Bsc Physics	
19	Vaishnavi M	S <sub>1</sub> Bsc physics	
20	Krishnakumar	S <sub>1</sub> "	
21	Southe Suresh	S <sub>3</sub> Bsc Chemistry	
22	Poornima	"	
23	Peeyu	"	
24	Radhika	"	
25	Anju	"	
26	Lavanya Suresh	"	
27	Lekshmi S. Krishnan	"	
28	Subhane S	"	
29	Hizaba A.P	S <sub>3</sub> B-sc physics	
30	Ajay M	"	
31	Scooraj	"	
32	Krishna	"	

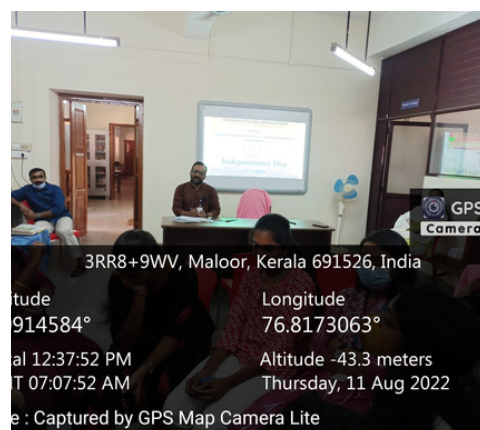
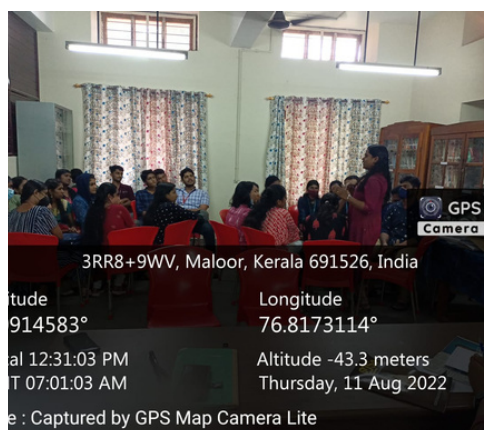
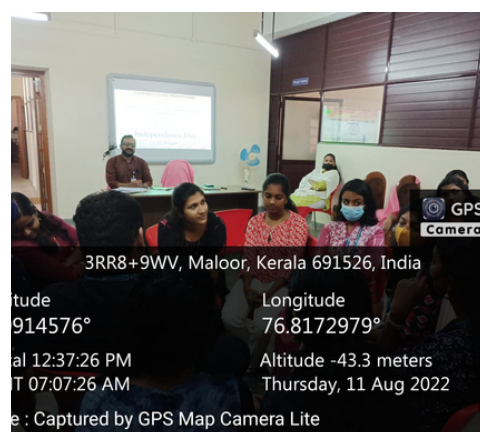
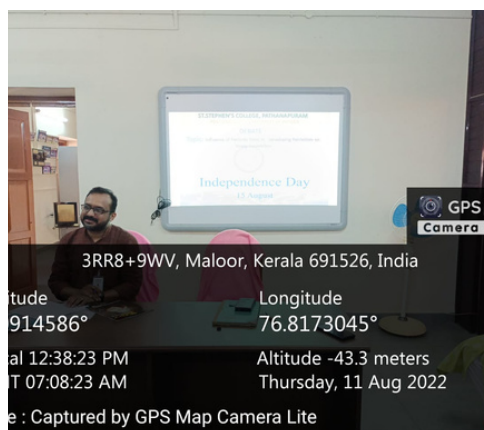
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Jana Thomas	S <sub>3</sub> Bsc physics	
Ashwani S	S <sub>3</sub> Bsc physics	
Anju A	"	
Anasutha TA	S <sub>3</sub> Bsc physics	
Vysali B	"	
Ananth C.B	"	
Lakshmi Raj	"	
Abhirami S	"	
Amuna S. Kumar	"	
ABEL	"	
Sreelekshmi AS	S <sub>3</sub> Bsc physics	
Tharim S. Muhammed	"	
Karthika Viji	"	
Althira G.K	11th msc Physics	
Reeba Roy	"	

## A brief Report on Independence Day Celebrations

Post Graduate Department of Physics St. Stephen's College Pathanapuram, celebrated the 75th Independence Day with great pride and enthusiasm. We organised a Patriotic film show at our department seminar hall on 11th August 2022. The movie started at 10 am after all the students settled and after a span of 3 hours the movie ended.

After watching the movie, we organised a debate on the topic "Influence of Patriotic Films in developing Patriotism among younger generation." Mr. Liju T. Varghese, Assistant Professor, Department of Oriental Languages of our college anchored the competition. The debate helped the students to think critically and share their views on the given topic. The programme received enthusiastic participation from both UG and PG students. The session concluded with a vote of thanks from Ms. Athira G.K., Second Semester M.Sc Student.






# WORLD SPACE WEEK CELEBRATIONS

OCTOBER 2022





World Space Week is an international celebration of science and technology, and their contribution to the betterment of the human condition. The United Nations General Assembly declared in 1999 that World Space Week will be held each year from October 4-10.

**World Space Week - 2022**

**Theme: Space and Sustainability**

This theme allows World Space Week to address sustainability from two angles: \* how space benefits society and contributes to sustainable development on Earth and \* what are the challenges ahead of us to keep space activities and the space environment safe and sustainable.

Let's join the World Space Week organized by Vikram Sarabhai Space Centre, Liquid Propulsion Systems Centre & ISRO Inertial Systems Unit.



We welcome you to this Lecture.

<b>Capt.(Dr.) Koshy P. M.</b> Principal	<b>Mr. Roy John</b> IQAC Coordinator
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**Organizing Committee**

Ms. Shibi Krishnan (H.o.D)	Dr. Mary Varughese (Convenor)
Ms. Suchithra S	Dr. Ragesh Chandran
Ms. Seena Sivasdas	Ms. Rini Varghese
Dr. Pillai Aswathy Mohan	

**ST. STEPHEN'S COLLEGE, PATHANAPURAM**




**World Space Week - 2022**


*Welcome to Lecture on*

**"Space Exploration and Society"**

**11 am, 11<sup>th</sup> October 2022**

**Dr. Ankush Bhaskar**  
Scientist VSSC



 World Space Week OCTOBER 4-10

**Organized by Post Graduate Department of Physics & IQAC**



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# **A Brief Report      •••••**

**World Space Week is an international celebration of science and technology, and their contribution to the betterment of the human condition. The United Nations General Assembly declared in 1999 that World Space Week will be held each year from October 4-10.**

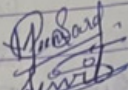
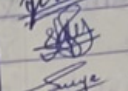
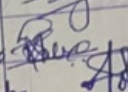
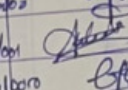
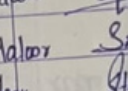
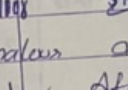
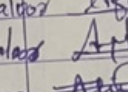
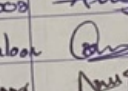
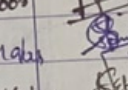
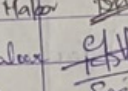
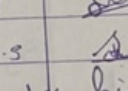
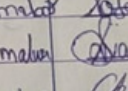
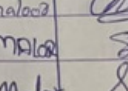
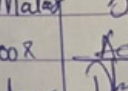
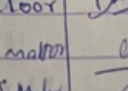
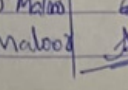
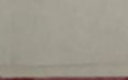



**As part of World Space Day Celebration, the Physics department has been celebrating this space week in our college in the past years and this year we organized a Lecture on 11th October 2022. VSSC has been actively providing many programs to reach out to students of all levels and has supported us too in the previous years to conduct seminars. Ms. Shibi Krishnan, H.o.D., welcomed all and then Dr. Koshy P M, College Principal inaugurated World Space Week Celebration - 2022. Our H.o.D, Dr. Mary Varughese (convenor), other faculty members, our UG & PG students, and principal & students from MTDMHS High School Maloor Pathanapuram attended this Lecture. Dr. Ankush Bhaskar, VSSC Scientist, the chief guest of the programme delivered the main talk. The 2022 theme of World Space Week is “Space and Sustainability”. Ankush Sir led us through a nice presentation giving awareness to World Space Week and motivated students to have dreams to join the future space team. Students actively participated in the discussion followed. After this, a memento was presented to the Chief Guest by Fr. James, Principal of Maloor School. Ms. Aleena S.P, III DC Physics student gave Vote of Thanks.**

# Event Photos





# PARTICIPANTS LIST

Sl. No	Name of the student	class & college/school	Signature
1.	Meenu. Soro Jaimson	XI, MTDM HSS, Maloor	
2.	Simi S	XI, MTDM HSS, Maloor	
3.	Ashley A. Shibu	XI, MTDM HSS, Maloor	
4.	Sanya S	XI, MTDM HSS, Maloor	
5.	Ashida T	XI M.T.D.M.H.S.S Maloor	
6.	Ashachinu Achankurru	XI M.T.D.M.H.S.S Maloor	
7.	Akhila J.R	XI M.T.D.M.H.S.S Maloor	
8.	Georosi Kraisboa S	XI M.T.D.M.H.S.S Maloor	
9.	Sreya S Nair	XI M.T.D.M.H.S.S Maloor	
10.	Stony Johnson	XI M.T.D.M.H.S.S Maloor	
11.	Sreuthi S. Nair	XI M.T.D.M.H.S.S Maloor	
12.	Afiya fathima B	XI M.T.D.M.H.S.S Maloor	
13.	Angel C. Varghese	XI M.T.D.M.H.S.S Maloor	
14.	Aliya fathima B	XI M.T.D.M.H.S.S Maloor	
15.	Raina Lix Mathew	XI M.T.D.M.H.S.S Maloor	
16.	AnuSree S	XI M.T.D.M.H.S.S Maloor	
17.	Saanya Manoj	XI M.T.D.M.H.S.S Maloor	
18.	Sneha Sreebakutty	XI M.T.D.M.H.S.S Maloor	
19.	Queeshma Krishnan R	XI M.T.D.M.H.S.S Maloor	
20.	Steffin Thomas	XI M.T.D.M.H.S.S Maloor	
21.	Stanley George	XI M.T.D.M.H.S.S Maloor	
22.	Rohan Roy	XI M.T.D.M.H.S.S Maloor	
23.	Sarvam B Mathew	XI M.T.D.M.H.S.S Maloor	
24.	Christy L. Jose	XI MT/DM HSS Maloor	
25.	Stephin Johnson	XI MTDM HSS Maloor	
26.	Sidhaanth R	XI MTDM HSS Maloor	
27.	Adhithyalal B	XI MTDM HSS Maloor	
28.	Dhanush A.S	XI MTDM HSS Maloor	
29.	Akhi / Krishna	XI MTDM HSS Maloor	
30.	Salman S	XI MTDM H.S.S Maloor	
31.	Adhitya Krishna V	XI MTDM HSS Maloor	



## PARTICIPANTS LIST

Sl. No.	Name	Course	Signature
32	Anandhu kumar	XI MTDMHS Maloor	Anandhu
33	Alimoran. Z	XI MTDMHS Maloor	Alimoran
34	Dara Nand G	XI MTDMHS Maloor	Dara
35	Kiran. M. Prince	XI MTDMHS Maloor	Kiran
36	XRAVIND. AK	XI MTDMHS Maloor	XRAVIND
37	AKSHAY SHAKVEER	XI MTDMHS Maloor	Akshay
1.	Abhisami S	S5, BSc physics	Abhisami
2.	Anocha TA	S5, BSc physics	Anocha
3.	Nysali B	S5, BSc physics	Nysali B.
4.	Arathi C.B	S5, BSc Physics	Arathi
5.	Krishna Ravikumar	S5, BSc Physics	Krishna
6.	Hizara A.F	S5 BSc physics	Hizara
7.	Parvalthy. S	S5 BSc physics	Parvalthy
8.	Firdousey	S5 BSc physics	Firdousey
9.	hemikuni Ray	"	hemikuni
10.	Neena S. Naik	"	Neena
11.	Alena S.P	"	Alena
12.	Anu George	"	Anu
13.	Sooraj Ks	"	Sooraj
14.	Muhammed Jashtakkar	"	Muhammed
15.	Ajay. M	"	Ajay
16.	Deetika J.B	S3 MSc physics	Deetika
17.	Anisha G. Anil	S3 MSc physics	Anisha
18.	Abhilash. U	"	Abhilash
19.	Anandhu Krishnan	"	Anandhu
20.	Biji Krishna U	S1 MSc Physics	Biji
21.	Arthur Gk	S3 MSc physics	Arthur
22.	Peeta Roy	S3 MSc Physics	Peeta
23.	Staphy Thomas	S3 MSc Physics	Staphy
24.	Achuth	BSC PHVSICS	Achuth
25.	Hanirajya R	MSc. physics (S3)	Hanirajya
26.	Dinaya Umni	MSc physics (S3)	Dinaya

## PARTICIPANTS LIST

43

27	Shreein Wilson	Msc phy (S <sub>3</sub> )	<del>Shreein</del>
28	Jayalekshmi Krishna	S Msc physics	Jays
29	Aparna R	S <sub>5</sub> BSC chemistry	<del>APR</del>
30	Arshad M	S <sub>1</sub> BSC Physics	<del>Arshad</del>
31	Karthika S	" BSC Physics	<del>Karthika</del>
32	Aaron J. Varghese	" BSC Physics	<del>Aaron</del>
33	Cyril John	" BSC physics	<del>Cyril</del>
34	Krishnadev	" "	<del>Krishnadev</del>
35	Aparna Shibu	" "	<del>Aparna Shibu</del>
36	Prayathar S	" "	<del>Prayathar</del>
37	Moudhulesh kumar S	" "	<del>Moudhulesh</del>
38	Anjana Krishna S	S <sub>1</sub> "	<del>Anjana</del>
39	Agnes Robert	"	<del>Agnes Robert</del>
40	Abhijith M	"	<del>Abhijith</del>
41	Vaishnavi M	"	<del>Vaishnavi</del>
42	Cravari Krishna's	"	<del>Cravari</del>
43	Devika V	"	<del>Devika</del>
44	S. Fousi	"	<del>Fousi</del>
45	Anjana Krishna	"	<del>Anjana</del>
46	Arunima	S <sub>5</sub> BSC physics	
47	Abel	S <sub>5</sub> BSC physics	



# Very. Rev. T. M . Samuel Ramban Memorial Lecture Series

## A BRIEF REPORT

**Dr. Anoop K. K.** is Assistant Professor in the Department of Physics at Cochin University of Science and Technology (CUSAT), Cochin, India. His research interests are Ultra short Laser Ablation studies, Laser Produced Plasma Diagnostics, Laser Induced Plasma Spectroscopy, and Femtosecond Laser Surface Micro/Nanostructuring and its Applications.

**Dr. Nishil A.** is Assistant Professor in the Department of Electronics and Communication, Yousang College of Engineering & Technology (YCET), Kollam. His field of specialization is in Digital Signal Processing.

**Dr. Anshad A.** is Assistant Professor in the Department of Physics, TMM College of Arts & Science. His area of Interest is in Holography.

**Mr. A V Sathish** is the Scientific Officer in Kudankulam Nuclear Power Plant which is the part of Nuclear Power Corporation of India Ltd (NPCIL). He is well experienced in various nuclear power reactors. He interacts with people of different ages to share his innovative ideas on sustainability. Being a conservationist, he believes that today's wastage can lead to tomorrow's shortage.

**ABOUT THE PROGRAMME**  
This lecture is instituted by Mr. Jacob Thomas (Former H.O.D, Department of Physics) in fond memory of Very. Rev. T. M. Samuel Ramban, his mentor and former member of Mount Tañor Daira. This seminar is scheduled to be conducted in every two years by the Department of Physics. The main objective of the lecture series is to sensitize students, researchers and teachers about the latest trends in Physics.

**23-11-2022**  
Session 1: Inauguration  
Career Opportunities in Physics  
Session 2: An introduction to Digital Signal Processing  
**24-11-2022**  
Session 3: Statistical Physics  
Session 4: Nuclear Power Plant and its safety features

**Organizing Committee**  
Ms. Shibi Krishnan (H.O.D) Dr. Mary Varughese (Co-ordinator)  
Ms. Suchithra S Dr. Ragesh Chandran  
Mr. Sreena Sivadas Ms. Rini Varghese  
Dr. Pillai Aswathy Mohan

**ST. STEPHEN'S COLLEGE**  
**PATHANAPURAM, KOLLAM**  
Affiliated To The University of Kerala  
Re-accredited by NAAC at B++ Grade with CGPA 2.95

**Very. Rev. T. M. Samuel Ramban**  
**Memorial Lecture Series**  
**23<sup>rd</sup> and 24<sup>th</sup> November 2022**  
**Venue: Aprem Ramban Seminar Hall**  
**Organized by Post Graduate Department of Physics & IQAC**

**Resource Persons:**  
**Dr. Anoop K K** **Mr. Nishil A**  
**Dr. Anshad A** **Mr. A V Sathish**

-----Sponsored by-----  
**Mr. JACOB THOMAS (Former H.O.D, Dept. of Physics)**

**We welcome you all to the Lecture Series**  
**Dr. Koshy P. M.** **Ms. Shibi Krishnan** **Mr. Sandu John Sajan**  
Principal H.O.D. IQAC Coordinator

Very. Rev. T. M . Samuel Ramban Memorial Lecture Series is instituted by Mr. Jacob Thomas (Former H.o.D of Department of Physics) in the fond memory of his mentor Very. Rev. T. M. Samuel Ramban. The lecture series is conducted biennially. This year the "Very. Rev. T. M . Samuel Ramban Memorial Lecture Series" was organized by the Post Graduate Department of Physics, St. Stephen's College, Pathanapuram on 23rd and 24th November 2022

Ms. Shibi Krishnan, H.o.D. of Physics Department welcomed all to the inaugural session of the Lecture Series. Dr. Koshy P M, College Principal delivered the presidential address. The Chief Guest Dr. Anoop K K, Assistant Professor, CUSAT inaugurated the Lecture series. Rev. Fr. Dr. N. J. Koshy Ramban, Management Board Member and former H.o.D of Mathematics Department and Mr. Sandu John Sajan, IQAC coordinator felicitated the Lecture Series. Dr. Mary Varughese (Co-ordinator) gave a vote of thanks to the inaugural session.





After Inaugural session Dr. Anoop K K gave a highly motivational and beneficial talk on Career Opportunities for Physics students. Session 2: Dr. Anshad A, Assistant Professor, Department of Physics, TKM College of Arts & Science introduced students to the world of Digital Signal Processing. Session3: Mr. Nishil A, Assistant Professor, Department of Electronics and Communication, Younus College of Engineering & Technology (YCET), Kollam gave a lecture on Statistical Physics and how to do some numerical problems in aid of competitive exams. Our UG & PG students and PG students from neighboring colleges participated in the Lecture series.





# PHOTOS OF THE EVENT



# Participants List

Vcey Rev. T.M Samuel Remban <sup>Lecture Series</sup>  
2022-2023

Sl. No	Name of student	class & college Name	Signature
1.	Sidhi Krishnan G.S	1 <sup>st</sup> MSc, SN college Punalur	
2.	Divya. R	1 <sup>st</sup> MSc, SN Punalur	
3.	Chandipriya. B	1 <sup>st</sup> MSc, SN Punalur	
4.	Ashwathy Rajan	1 <sup>st</sup> MSc, SN Punalur	
5.	Sreuthi Sreejith. K. Suresh	1 <sup>st</sup> MSc, SN Punalur	
6.	Hemitha. S Kumar	1 <sup>st</sup> MSc, SN Punalur	
7.	Meghana Dileep	1 <sup>st</sup> MSc, SN Punalur	
8.	Meghna. S. Shaji	1 <sup>st</sup> MSc, SN Punalur	
9.	Ameera Rafiek	1 <sup>st</sup> MSc, SN Punalur	
10.	Aswami Ashwathi. P. Nair	1 <sup>st</sup> MSc, SN Punalur	
11.	Akshara. B S	1 <sup>st</sup> MSc, SN Punalur	
12.	Athalya Sathyan	1 <sup>st</sup> MSc, SN Punalur	
13.	Ashna S	2 <sup>nd</sup> MSc, St. Ignace's Adoor	
14.	Anaitha. S	2 <sup>nd</sup> MSc, St. Ignace's Adoor	
15.	Preethi. Tharayachan	2 <sup>nd</sup> MSc, St. Ignace's Adoor	
16.	Ashley George	2 <sup>nd</sup> MSc, St. Ignace's Adoor	

[23<sup>rd</sup> November & 24<sup>th</sup> November 2023]

17.	Shreya. R. Kurup	2 <sup>nd</sup> MSc, St. Ignace's Adoor	
18.	Pooja. Parvath	1 <sup>st</sup> MSc, SN Punalur	
19.	Akshana Raj	1 <sup>st</sup> MSc, SN Punalur	
20.	Sasmita. S. Nair	1 <sup>st</sup> MSc, SN Punalur	
21.	V. A. Vibinraj	1 <sup>st</sup> MSc, Sg Kottarakkara	
22.	Nandana. H. L	1 <sup>st</sup> MSc, Sg Kottarakkara	
23.	Athijith G S	1 <sup>st</sup> MSc, Sg Kottarakkara	
24.	Jyothi. D. Thampi	1 <sup>st</sup> MSc, Sg Kottarakkara	
25.	Sheba Babu	1 <sup>st</sup> MSc, Sg Kottarakkara	
26.	Dev. R. Krishna	1 <sup>st</sup> MSc, Sg Kottarakkara	
27.	Gopika M	1 <sup>st</sup> MSc, Sg Kottarakkara	
28.	Sheba Mariyam Thomas	1 <sup>st</sup> MSc, Sg Kottarakkara	
29.	Anandu. B. J	1 <sup>st</sup> MSc, Sg Kottarakkara	
30.	Athira R	1 <sup>st</sup> MSc, Sg Kottarakkara	
31.	Sreelekshmi. S	1 <sup>st</sup> MSc, Sg Kottarakkara	
32.	Keezathi Gopurathu	1 <sup>st</sup> MSc, Sg Kottarakkara	
33.	Arya S. J	2 <sup>nd</sup> MSc Physics NSS College Punalur	



Name of student	Class & college Name	Signature
RESHMI KUMAR P	2 <sup>nd</sup> MSc, NSS, college Pandalam	
EGHA-J-L	2 <sup>nd</sup> MSc, NSS college, Pandalam	
idharan. S.S	2 <sup>nd</sup> MSc, NSS college Pandalam	
ahammed Nadul R	2 <sup>nd</sup> MSc, NSS college Pandalam	
Aswin-S	2 <sup>nd</sup> MSc, NSS college Pandalam	
thias Ashokan	2 <sup>nd</sup> MSc, NSS college Pandalam	
idga. M.S	2 <sup>nd</sup> MSc, NSS college Pandalam	
Devika-K	2 <sup>nd</sup> MSc, NSS college Pandalam	
waraya-A.M	2 <sup>nd</sup> MSc, NSS college Pandalam	
hilpa.M.S	2 <sup>nd</sup> MSc, NSS college Pandalam	
Arya.P.B	2 <sup>nd</sup> MSc, NSS college Pandalam	
uthika A kumar	2 <sup>nd</sup> MSc, NSS college Pandalam	
eelekulmi.S	2 <sup>nd</sup> MSc, NSS college Pandalam	
ajiy.A.S	2 <sup>nd</sup> MSc, NSS college Pandalam	
Abhijith.V	S.N College Punalur 1 <sup>st</sup> MSc	
Vivek.S	1 <sup>st</sup> MSc SN Punalur	

67.	Parvathy.S	1 <sup>st</sup> MSc, St Stephen college	
68.	Jagan. G. Pillai	St Gregorius College 1 <sup>st</sup> MSc	
69.	Sneha Raji	St Stephens College	
70.	Athira.C.S	St Stephen's College	
71.	Mahesh V Nair	St Stephen's college	
72.	Muhammed Dusthakeezha	St Stephen's college BSc 3 <sup>rd</sup> year	
73.	Anjali.C.S	S.N.College Punalur	
74.	Rejeswari C Pillai	SN college Punalur	
75.	Saanya.S	SN College Punalur	
76.	Krishna Ravikumar	St. Stephen's college BSc 3 <sup>rd</sup> year	
77.	Hirana. AF	St. Stephens. college BSc 3 <sup>rd</sup> year	
78.	Biji Karshne. V	St. Stephens college 1 <sup>st</sup> MSc	
79.	Jadim R	St Stephen college 1 <sup>st</sup> MSc	
80.	Abinshan. A	St. Stephens college 1 <sup>st</sup> MSc	
81.	Abhilash.U.K	S.N. college Punalur	
82.	Kaikal. R	SN college Punalur	
83.			

DEPARTMENT OF PHYSICS

# SCIENCE EXHIBITION

The poster features a blue and red geometric design on the left with the text 'Cordially invite you to SCIENCE EXHIBITION 2023 SCI-LAND'. On the right is a portrait of a smiling man with a mustache, wearing a blue and white striped shirt. In the background, there are colorful molecular models. The Innovation Council logo is in the top right.

**Cordially invite you to**

**SCIENCE  
EXHIBITION  
2023**

**SCI - LAND**

**INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

DATE: 9TH MARCH 2023

IN CONNECTION WITH NATIONAL SCIENCE DAY CELEBRATIONS



# SCIENCE EXHIBITION 2022-23

## A BRIEF REPORT

In its initiative to promote participatory and hands-on learning in Science, the department organizes Science Exhibition at Regional level in connection with National Science Day celebrations. The activity aims at providing a common platform to students to use their scientific knowledge and bring the best invention from their brains and also provides an opportunity to give shape to their innovative ideas. The exhibition also provides a medium for popularizing Science and increasing awareness among students.



<i>Highlights</i>			
Chemistry		Zoology	
<ul style="list-style-type: none"><li>• Funny experiments</li><li>• Chart display</li><li>• Slide show</li><li>• Display of periodic table</li></ul>		<ul style="list-style-type: none"><li>• Museum</li><li>• Aqua Show</li><li>• Slide Show</li><li>• Display of instruments</li></ul>	
Physics		Botany	
<ul style="list-style-type: none"><li>• LED cube</li><li>• Piano using 555 timer</li><li>• Hologram</li><li>• Burglar alarm</li><li>• Object counter using IR sensor</li><li>• Capillary rays</li></ul>		<ul style="list-style-type: none"><li>• Diverse plant forms</li><li>• Display of classical texts in Botany</li><li>• Diversity of fruits</li><li>• Microscopic plants</li><li>• Mushroom farming</li></ul>	

The Science Exhibition 2022 – 23 was held on 28th February, 2023. It was inaugurated by the honourable MLA Mr. K.B. Ganesh Kumar in the presence of Principal, staff and Students of the college. The exhibition witnessed the participation of 310 students from our nearby schools and students from various departments of our college -MTDM Higher secondary School Maloor, Govt. UP School Maloor and Mount Tabor school Pathanapuram. In this exhibition, the participating students shared their creative ideas through their innovative working / non-working models, exhibits, and presentations.

# PHOTOS OF THE EVENT





# PARTICIPANTS LIST

53

## Science Exhibition - SCI-LAND 2023

### Participant list

No	Name of student	Class & School / college	Sign
1	Afsal	MIDMHSS +2	
2	Vineesh	" +2	
3	John	St. Stephens college	
4	Gokul	"	
5	AKash	"	
6	Vishu	"	
7	Amal	"	
8	Negha Krishna	SA Bcom	
9	Sandra Suresh	"	
10	Karthika S. Vinod	"	
11	Lekshmi Mohan	"	
12	Akshaya Smesh	"	
13	Shyamili	"	
14	Abhinav	MIDMHSS 4	
15	Murammed Salih	" 4	
16	Chin benoy	" "	
17	Arshiha	" "	
18	Shadhiya	" "	
19	Arya Randa	" "	
20	Quifa	" "	
21	Abhinav	" "	
22	Shajith M	Mount Tabour LPS Pattangudi	
23	Vinodraj D	"	
24	Mary Philip	"	
25	Roshan	Mount Tabour LPS 4	
26	Dhevanand	" "	

59

27	Ben		
28	Aiby		
29	Afsal	MIDMHSS 4	
30	Sree Rag	" "	
31	Baharadh	" "	
32	Caantham Krishna	" "	
33	Aron K	" "	
34	Aron Sam	" "	
35	Alan	" "	
36	Adon	" "	
37	Rekha Ick (i)	Rekha	
38	Johna		
39	Juby		
40	Darig M. G (i)	Mount Tabour Lps PPM 4	
41	Lekshmi Mahan (i)	"	
42	Sudhi Sleebachert	"	
43	Sneha S. Nair (i)	"	
44	Ancel	Mount Tabour Lps PPM 4	
45	Akya	" 4	
46	Ameen	" "	
47	Althana	" "	
48	Adharsh	" "	
49	Akash	" "	
50	Afsal	" "	
51	Amritha	" "	
52	Roshan	" "	
53	Sanjay	" "	
54	Amsal	" "	
55	Sulfiya	" "	
56	Ahina	" "	
57	Aleena	" "	
58	Afiya	" "	

60	Ramya	Mount Tabour Lps PPM 4	
61	Sneha	" 4	
62	Sihana	" "	
63	Ameya	" "	
64	Afiya	" "	
65	Alfiya	" "	
66	Adam	" "	
67	Sravan Krishna	" "	
68	Shabaniwarth A	" "	
69	Muhammed Ajith	" "	
70	Abhinav S	" "	
71	Leba	" "	
72	Sadhika	" "	
73	Diyu	" "	
74	fatimista	" "	
75	Alfiya	" "	
76	Johanna	" "	
77	Rishan	" "	
78	Rishan	" "	
79	Sheno	" "	
80	Naman	Sy Bcom SSC	
81	Amal	"	
82	Sachu	"	
83	Sajath	"	
84	Aromal	"	
85	Abhinava B	Mount Tabour Lps PPM 4	
86	Nija fathima	" 4	
87	Diyu	" "	
88	Ameena	" "	
89	Amala	" "	
90	Aleena	" "	
91	Karthika	" "	

92	Dhevanandha		
93	Geena		
94	Abraham	Faculty SSC	
95	Rojin	"	
96	Vishal	Ss chen	
97	Vina	"	
98	Paulthy R. Nade	Bcom sadya	
99	Sudha S	"	
100	Sandra Jeyapal	"	
101	Sija Jacob	Faculty SSC	
102	Sija wael	" "	
103	Sneha Baby Alex	" "	
104	Rashmi	Librarian	
105	Abel	Bcom	
106	Saravanan	Bcom	
107	Mithun	Bcom	
108	Jasika	Bcom	
109	Meen. Kishan	"	
110	Jessem	"	
111	Thomas	"	
112	Beth Lal-R	"	
113	Angel Raj	"	
114	Crastina Chandran	"	
115	Kathia P	"	
116	Nandana Suresh	"	
117	Afreena-N	"	
118	Alfiya S. S	"	
119	Athira Anil	"	
120	Alshifa S	"	
121	Maria S. Rajin	"	
122	Benjamina Krishnan	"	
123	Sudhakar S.R	"	
124	D. Rish M	"	



156	Sangeetha S	"	
157	Sreedha Subhash	"	
158	Pooja S	"	
159	Anurag V. S	B.Sc. Mathematics	
160	Apurva S	B.Sc. Zoology	
161	Ashika G	"	
162	Johny V. S	"	
163	Ravi S	B.Sc. Zoology	
164	Jathin S	"	
165	Rabha S	"	
166	Aswini	B.Sc. Zoology	
167	Vishnu	"	
168	Anjali	M.Sc. Maths	
169	Swamy S	"	
170	Anurag S	M.Sc. Botany	
171	Abhinav D	"	
172	Adithyan	Malabar School	3
173	Anandhu	"	
174	Adithyan	"	5
175	Uthir	"	
176	Ekamath	"	
177	Ammed zyan	"	
178	Vineesh	"	
179	Prithvi	"	
180	Shibha	"	
181	Megha	"	
182	Rajal	"	
183	Karthika	"	
184	Devika	"	
185	Anandhu	"	
186	Lejo V	"	
187	Abha	"	
188	Preethi	"	

200	Arshadudin V		
201	Kalhar		
202	Saurav		
203	Devanarayana		
204	Manu		
205	Safa		
206	Gauri		
207	Devika		
208	Sarath		
209	Prithvi		
210	Vinayak		
211	Abhinav		
212	Abhiraj		
213	Agithy		
214	Adithyan		
215	Abhinav		
216	Muhammed		
217	Sham		
218	Vaiga Lakshmi		
219	Prithvi		
220	Suraj		
221	Arushi		
222	Swethika		
223	Anneke		
224	Manu		
225	Bigi		
226	Kailas		
227	Adithyan		
228	Annu		

233	Nishu		
234	Anurag		
235	Vijesh		
236	Nivedha		
237	Ananya		
238	Alondra		
239	Hansa Nagesh		
240	Aravind		
241	Adarsh		
242	Arjun K		
243	Devadharsh		
244	Abhinav S		
245	Adithyan G		
246	Gautam Anil		
247	Arjun S	B.Sc. Zoology	
248	Kishorachandhan	"	
249	Parvathy	B.Sc. Chemistry	
250	Anu S	"	
251	Kee S	Malabar School	6
252	Diya	"	6
253	Nandana	"	6
254	Ragi		
255	Beem V S		
256	Rijul		
257	Rajitha V R		
258	Ullas Kumar		
259	RAJESH T		
260	Niranjan		
261	Ashwanya		
262	Vaiga		
263	Meenu		
264	Annie		
265	Anashwara		

266	Febin C Abraham		
267	SUTHAR S		
268	Hiba		
269	Dija Dinesh		
270	Princy P		
271	Narain		
272	Athira M		
273	Haritha S		
274	Gopika		
275	Preethika		
276	Amal A		
277	Pavan P Narayanan		
278	Nazma		
279	Alfiza		
280	Aradhya VR		
281	Aradhya S R		
282	Akhila M Babu		
283	Aminah		
284	Priya P Babu		
285	Ashly Jacob		
286	Reshmi S K		
287	Kavya S		
288	Radhika R Venu		
289	Pooja T S		
290	Ganga		
291	Vidhya		
292	Jasna		
293	Hasna		
294	Anju		
295	Poojima		
296	Meera		
297	Veena		
298	Karthika		
299	Aradhya		



300	Anu	"	Anu
301	Dushyn	"	Dush
302	Ahalya	"	Amba
303	Anju-s	M.Sc Mathematics	Anju
304	Leena	"	Leena
305	vishnu	M.Sc chemistry	Vishnu
306	Ravibh Suresh	M.Sc Botany	Ravibh
307	Anathi As	"	Anathi
308	Dr. Binayakol C. S.	Dep. of Hindi	Dr. Binayakol
309	Dr. Shree. R. John	Dep. of Malayalam	Dr. Shree. R. John
310	Sara Susan-Aji	Standard 12	Sara Susan-Aji

## BOOK DONATION

*Knowledge shared is after all knowledge squared and books are the means to do so effectively!*

Final Year Students of our department wished to donate some books to the library. On 15/05/2023 evening, a short meeting was arranged in the College Library. College Librarian Mr. Baiju Joy gave a short message to the students and encouraged them to give a review on their experience of College Library. On behalf Students, class-in-charge Dr. Mary Varughese, donated 6 books to the College Library.





# **REPORT ON CERTIFICATE COURSES**







**GURU ANGAD DEV  
TEACHING  
LEARNING  
CENTRE**



सत्यमेव जयते

**MINISTRY OF  
EDUCATION  
GOVT. OF INDIA  
PANDIT MADAN  
MOHAN  
MALVIYA  
NATIONAL  
MISSION ON  
TEACHERS AND  
TEACHING  
(PMMNMTT)**

# **30 Hours Certificate Course on Entrepreneurship in LED Lighting Business**

**07 January 2023 to 04 March 2023**



*In collaboration with*



**Bishop Moore College  
Mavelikara**



**St. John's College  
Agra**



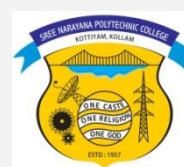
**St. Stephen's College  
Pathanapuram**



**Catholicate College  
Pathanamthitta**



**Assumption College  
Changanacherry**



**Sree Narayana Polytechnic  
College Kottiyam**



**Christian College  
Katakana**

## **Topics Covered:**

- LED Fundamentals and Circuits
- LED Lights & Drivers
- Entrepreneurship of LED Business
- Practical Training Session

**To Register  
[Click here](#)**

## **About the Certificate Program**

The Program is designed for UG/PG students and Research Scholars, who wish to launch their small & medium size business in LED Light products and who wish to benefit from the High-potential LED products' opportunity.

## **Eligibility of 30hrs Certificate Program**

- ❖ *UG and PG Students all disciplines*
- ❖ *Research Scholars*
- ❖ *Polytechnic diploma and Engineering students*
- ❖ *All Science Faculty Members & Research Scholars Can Apply*
- ❖ *Registration fees: **Rs.750/-** (Inclusive of Course Fee, Study Material & Certificate)*
- ❖ *Last Date for Registration: **5 pm on 31 December 2022***

## **About GAD-TLC of MHRD**

“Guru Angad Dev Teaching Learning Centre” is a centre of MHRD under the Pandit Madan Mohan Malviya National Mission on Teachers and Training (PMMNMTT) of the MHRD, Govt. of India. The objectives of the Teaching Learning Centre are to prepare Modern age teachers. Under this centre many National level activities like Seminars, FDPs and workshops at both basic and advanced level are being conducted to empower the teachers in ICT skills, develop teaching kits / teacher's tools and ICT empowered pedagogies to enhance teaching-learning process. In its various programmes, around 55,000 teachers across the nation have benefitted till now. GAD TLC is also organizing Student Specific Training Courses to upgrade their skills as required for their Professional Development.

**Prof. A.K. Bakhshi**  
Vice-Chancellor, PDM  
University, Haryana  
Chairman, GAD-TLC

**Prof. K.V. Bhanu Murthy**  
Professor, DTU  
Vice-Chairman,  
GAD-TLC

**Prof. Jaswinder Singh**  
Principal,  
SGTB Khalsa College  
Director, GAD-TLC

**Dr. Vimal Rarh**  
Project Head &  
Joint Director, GAD-TLC





# 30 Hours Certificate Online Course on Entrepreneurship in LED Lighting Business 07 January 2023 to 04 March 2023



## About the Collaborating Colleges



**Bishop Moore College, Mavelikara**, established in 1964 and affiliated to the University of Kerala, has been awarded A grade by NAAC in the 3rd cycle of accreditation and ranked 76 among the Colleges in India in the NIRF ranking 2020. The College offers 11 undergraduate, four postgraduate and two research programmes in Science, Commerce, Arts and Humanities along with two UGC-sponsored add-on courses, and also provides opportunities for students to carry out Summer Research Projects at reputed institutes in the country. The undergraduate programmes in the Science departments are supported under the DBT-STAR College scheme. The College has become an active hub of research with well equipped laboratories, over 100 publications in international journals, a number of completed major and minor research projects, the research facilities being enhanced by utilizing funds under the DST-FIST scheme and KSCSTE SARD project scheme. The research centres have collaborative projects with institutes like the UGC – DAE Consortium for Scientific Research, BARC Mumbai and IUAC, Delhi.



**St. John's College, Agra**, was established in 1850 by the Church Missionary Society of England through the efforts of the Agra C.M.S. Association which came into being in 1840. From 1862 to 1888 the College remained affiliated to Calcutta University and later up to 1927 to Allahabad University. In 1927 with the formation of Agra University, the then Principal of the College Dr. A.W. Davies became its first Vice-Chancellor and the College was affiliated to the Agra University. The college became a First Grade College in 1891 with B.A. and LL. B. classes, and affiliation was granted in 1893 for postgraduate classes. Thus it has the rare distinction of being a postgraduate institution of more than a century's standing. The college has sixteen post graduate departments with facilities for research and three under graduate departments. The college also runs five self-financed recognized courses viz, B.Com(Vocational), B.B.A., B.Ed, D.El.Ed, M.A(Urdu), Post Graduate Diploma in Clinical Psychology and two partially self-financed degree programs in B.Sc with Industrial Chemistry & BSc with Computer Science. The foundation stone of the Centenary Wing was laid by Bharat Ratna Sarvapalli Radhakrishnan, former President of India, in 1958 and was opened by Bharat Ratna Pt. Jawaharlal Nehru, the first Prime Minister of India, in 1959, with the words "I have come to pay tribute to this temple of learning." The College has very distinguished alumni, the foremost of them being the late Dr. Shanker Dayal Sharma, the former President of India present situation.



**St. Stephen's College, Pathanapuram** was founded in 1964 after the name of St. Stephen, the first martyr of Christianity. The college was the fulfilment of a long cherished desire of its founder, His Grace The Most Rev. Mar Thoma Dionysius. The college was formally declared open by His Holiness Mar Baselios Augen-I, Catholicos of the East on 8th July 1964. In 1968 the College was shifted to its present site, in the serene village of Maloor, 6 kms away from Pathanapuram. Department of Physics, started functioning with the inception of the college in the year 1964. In the year 1979 with the launch of B.Sc. Physics degree course. The physics department was then elevated to the status of 'Postgraduate Department of Physics' with the commencement of the M.Sc. Physics course in the year 2001. The department was always blessed with eminent and industrious teachers in each of its phases. Their expertise and vision has lessened the burden on the present generation in building the basic amenities for the department.



**Catholicate College, Pathanamthitta** founded in 1952 on the serene Basil Hills has a rich legacy of almost seven decades and is affiliated to Mahatma Gandhi University, Kottayam.. The motto of this temple of learning is "Fear of the Lord is the beginning of wisdom." It imparts value-based education aimed at the holistic and intuitive growth of the individual so as to fulfill the vision of creating an educated and enlightened society for a brave new world. It has been re-accredited by NAAC with CGPA 3.60, A Grade and is one of the Thirteen special grade colleges in Kerala. The college has eight research departments and offers fifteen PG Programmes, thirteen UG Programmes and one Integrated MA Programme in the aided stream. The college was identified by the department of science and technology, government of India, for FIST funding. The college has been awarded ISO 9001-2008 certification. Current year, the college is celebrating its platinum jubilee. The college has been endeavoring to shape the destiny of a community in the fullest spirit of its stated mission, an educated, enlightened society for a brave new world.



**Assumption College (Autonomous), Changanacherry** has completed 71 years of memorable service in the field of higher education. The victorious journey in creating enlightened, empowered and socially committed women without compromising the academic standards yet upholding the noblest Christian values is possible only with the constant guidance of the heavenly patron 'The Lady of Assumption'. After attaining autonomous status in 2016, the college strives more in imparting excellence in quality education, incorporating greater space for creativity and innovation. The Department of Physics, which started from the very inception of the college is one of the excellent department offering BSc Physics Programme and MSc Physics Programme with specialisation in Solid State Electronics. A major uplift of the Department took place in 2012 when the department was selected for DST-FIST programme. The Department which got recognised as Research Centre under Mahatma Gandhi University in November 2019 is presently involved in intense research activities.





# 30 Hours Certificate Online Course on Entrepreneurship in LED Lighting Business 07 January 2023 to 04 March 2023



## About the Collaborating Colleges



**Sree Narayana Polytechnic College, Kottiyam** near Kollam, Kerala in south India. It is named after the Saint and social reformer “Sree Narayana Guru”. SNPTC was founded in 1957, by the Sree Narayana Trusts, Kollam under the initiative of the secretary, the late Sri.R.Sankar, former chief minister of Kerala. In the period 2006-07, the college celebrated its Golden Jubilee. It is a technical institute, approved by the All India Council of Technical Education (AICTE) and is located in a 15-acre campus at Kottiyam, 12 km from the Kollam city. The college has more than 50 faculty and 750 students. The governing body of the college is constituted by the Kerala Board of Technical Education is chaired by S.N Trust. The college started functioning with three courses: Mechanical Engineering (63 seats), Civil Engineering (63 seats) and Electrical Engineering (63 seats). In 2000 it started Electronics Engineering (63 seats).



**Christian College, Kattakada** near Thiruvananthapuram, Kerala in south India. Awakening to the aspirations of higher education, Rev. Legg, the erstwhile Bishop of South Kerala Diocese, founded the institution on 1965 July 22 in a serene locality in Poovachal Panchayat under Nedumangad Taluk, 20 kms from the city of Thiruvananthapuram. Upgraded in 1976-77 to an undergraduate Arts and Science college, the institution now offers Under-Graduate courses in Botany, Chemistry, Mathematics, Physics, Statistics, Zoology, History, Economics and Commerce along with Post-Graduate courses in Botany, Chemistry and Physics. The college was accredited by NAAC in 2022 and was awarded ‘A’ grade. Christian College, Kattakada has had able academicians and administrators at its helm from the very early days of its inception. The post-graduate programmes in the Science departments and the research facilities of the college are supported by the DST-FIST scheme and KSCSTE SARD project scheme

Certificate Program For  
Students

**UG students ,  
PG students, Research  
Scholars &  
Others**

### Organizing Committee

**Prof. S. P. Singh**, Co-Patron, Principal, St. John's College, Agra  
**Dr. Jacob Chandy**, Co-Patron, Principal, Bishop Moore College, Mavelikara  
**Dr. Koshy P M**, Co-Patron, Principal, St. Stephens's College Pathanapuram  
**Dr. Philipose Omman**, Co-Patron, Principal, Catholicate College, Pathanamthitta  
**Dr. Anitha Jose**, Co-Patron, Principal, Assumption College, Changanacherry  
**Dr. Sandeep V**, Co-Patron, Principal, S.N polytechnic College, Kottiyam, Kollam.  
**Dr. Ranjith Mathew Abraham**, Vice Principal, Bishop Moore College, Mavelikara  
**Dr. Susan Verghese P.**, IQAC Co-Ordinator, Head of the Department of Chemistry, St. John's College, Agra  
**Dr. D. Sajan**, Co-Ordinator, Head of the Department of Physics, Bishop Moore College, Mavelikara  
**Ms. Shibi Krishnan**, Co-Ordinator, Head of the Department of Physics, St. Stephens's College Pathanapuram  
**Dr. Dhanya. I**, Co-Ordinator, Head of the Department of Physics, Catholicate College, Pathanamthitta  
**Dr. Marina Aloysius**, Co-Ordinator, Head of the Department of Physics, Assumption College Changanacherry  
**Mr. Adarsh S**, Co-Ordinator, Head of the Department of Electrical and Electronics, S.N polytechnic College, Kottiyam  
**Dr. Arun Aravind**, Convenor, Department of Physics, Bishop Moore College Mavelikara  
**Ms. Ann Mary Jose**, Convenor, Department of Physics, Bishop Moore College Mavelikara  
**Ms. Seena Sivadas**, Convenor, Department of Physics, St. Stephens's College Pathanapuram  
**Ms. Rini Varghese**, Convenor, Department of Physics, St. Stephens's College Pathanapuram  
**Dr. Raji Koshy**, Convenor, Department of Physics, Catholicate College, Pathanamthitta  
**Ms. Asitha C. Nair**, Convenor, Department of Physics, Catholicate College, Pathanamthitta  
**Dr. Sherin Thomas**, Convenor, Department of Physics, Assumption College Changanacherry  
**Ms. Joselin Xavier**, Convenor, Department of Physics, Assumption College Changanacherry  
**Mr. Laji T R**, Convenor, Department of Electrical Engineering, S.N polytechnic College, Kottiyam

Successful Completion  
Certificate:

Based on Attendance, Online  
MCQ Test, Assignments &  
Projects (50% or above)  
Attendance & Feedback  
Compulsory

Flexible Online Mode  
Live Sessions-Saturdays &  
Public Holidays

### Brief Description of Training Program

This training program is designed for UG/PG students, research scholars and professionals who are looking at demystifying the business, finance, technology & regulatory landscape of LED Lighting. In this program, information necessary to enter the business of LED Lighting Industry will be provided along with excellent networking opportunities. A candidate will be able to have an understanding of, Government policies, Fundamentals of LED, Fixtures and establishing business in a variety of options from small to high investment. The course will be conducted in a workshop mode (participative) and each session builds upon the others.6



## **30 HOURS CERTIFICATE COURSE ON ENTREPRENEURSHIP IN LED LIGHTING BUSSINESS**

After the pandemic situation, it has become a new normal for students and teachers of even the remote and socio-economically underdeveloped areas to embrace the online mode of learning. The weaker sections of the student community were supported enough to secure gadgets and facilities necessary for the same. This dramatic change in the circumstances could help us in implementing an online LED development certificate course in association with the PMMMNMT under MHRD including four other reputed colleges around us. After the successful implementation of the course, we were able to conduct hands on training session for our graduate students to fabricate light emitting diodes and bulbs. They were also given awareness on energy savings through opting and promoting the use of these less energy consuming devices. This recurring activity of our department has been successfully conducted for the academic year 2022-23. About 42 students got enrolled into this program and very positive feedback has been received from the students end. The program has imparted the skill for fabricating a device which can be pursued as a trade for those interested. The training also aims on understanding of the theoretical and practical knowledge on LED devices apart from encouraging their entrepreneurship skills.

**LIST OF STUDENTS REGISTERED FOR LED CERTIFICATE COURSE**

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5	Besam Muhammad	basammuhammad2@gmail.com
6	Rahul Raj N	rajrahul00600@gmail.com
7	Allan Johnson	alenj567@gmail.com
8	ABHIRAMI S R	ramiabhi72@gmail.com
9	Anju. I. B	anjuibvln@gmail.com
10	Amal mathew	Mathewamal55@gmail.com
11	Reshma Hari	reshmaharitmala@gmail.com
12	Srihari R S	sriharibovikanam@gmail.com
13	Haripriya R	haripriya7zzz@gmail.cim
14	Devika.J.B	jbdevika27@gmail.com
15	Christy Kurian	Chrisrtykurian003@gmail.com
16	Jayalekshmi Krishna	jayalekshmikrishnarj@gmail.com
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22	Abhilash u	AbhiUpilla@gmail.com
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29	Ashwani s	ashwaniachu777@gmail.com
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40	Jayalekshmi js	Jayalekshmisspillai44@gmail.com
41	Anju A	anjuajayan 2003@gmail.com
42	Arya Somarajan	aryasomarajanaryasomarajan@gmail.com



**GURU ANGAD DEV  
TEACHING  
LEARNING  
CENTRE**



सत्यमेव जयते

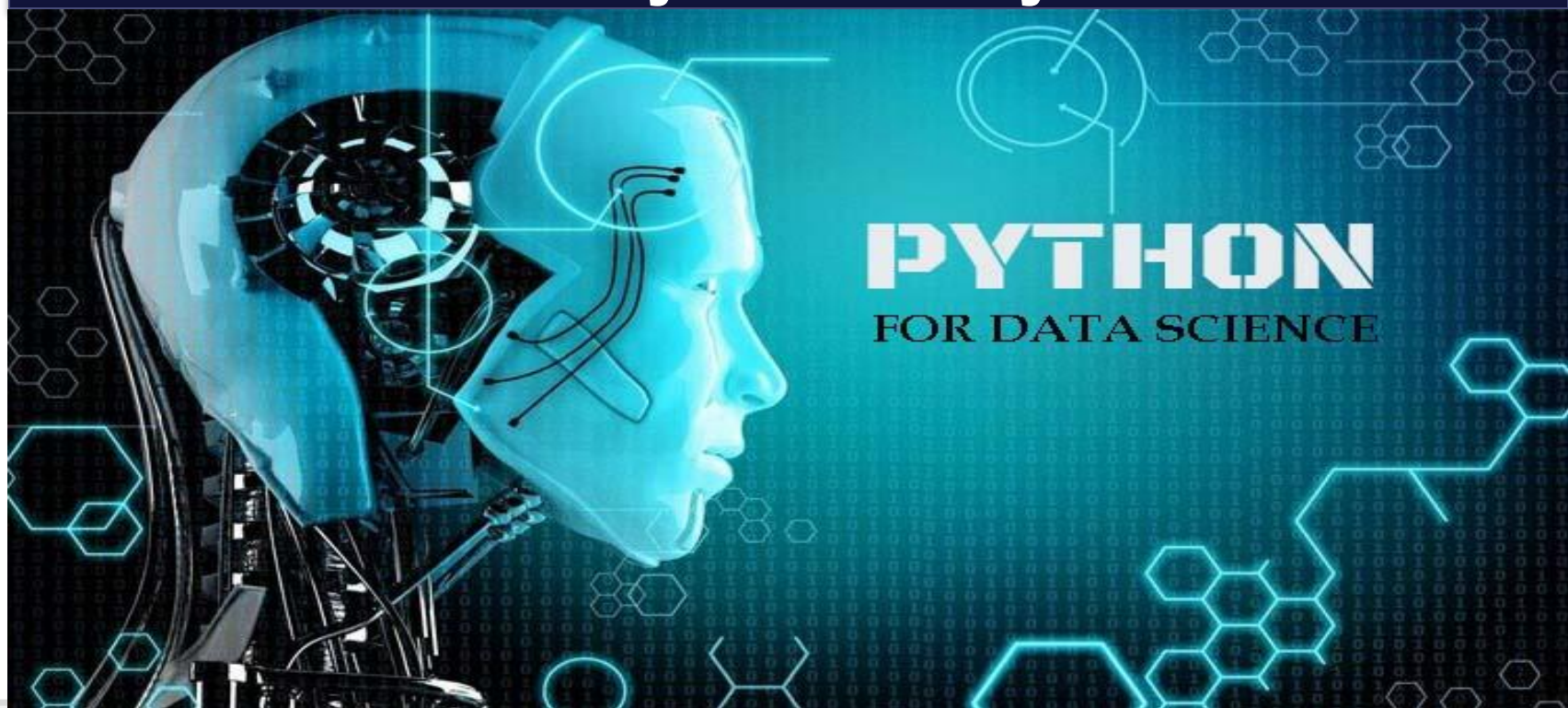
**MINISTRY OF  
EDUCATION**

**GOVT. OF INDIA**

**PANDIT MADAN  
MOHAN  
MALVIYA  
NATIONAL  
MISSION ON  
TEACHERS AND  
TEACHING  
(PMMMNTT)**

# 45 Hours Certificate Course on Python for Data Science

**01 January 2023 31 May 2023**



**Bishop Moore College  
Mavelikara**



**St. John's College  
Agra**



**St. Stephen's College  
Pathanapuram**



**Catholicate College  
Pathanamthitta**



**Assumption College  
Changanacherry**



**Sree Narayana Polytechnic College  
Kottiyam**

## Topics Covered:

- Introduction to Data Sciences Concepts
- Data structures in python
- Reading and writing different kinds of data formats in python
- Data Pre-processing using Python
- Visualization of Data
- Hands-on Session on the Python and Data visualization
- Research Issues and Challenges

**To Register  
Click here**

## About the Certificate Program

As Python programming language is framed for Data Science applications it is essential to visualize Data science applications using Python to ripe maximum benefits. Hence, it is important to bring awareness among researchers & academicians and train manpower on data science using Python programming to do innovative research, projects and to create knowledge base.

## Eligibility of 45 hrs Certificate Program

- ❖ *UG and PG Students all disciplines*
- ❖ *Research Scholars*
- ❖ *Polytechnic diploma and Engineering students*
- ❖ *All Science Faculty Members & Research Scholars Can Apply*
- ❖ *Registration fees: **Rs.500/-** (Inclusive of Course Fee, Study Material & Certificate)*
- ❖ *Last Date for Registration: **5 pm on 28 December 2022***

## About GAD-TLC of MHRD

“Guru Angad Dev Teaching Learning Centre” is a centre of MHRD under the Pandit Madan Mohan Malviya National Mission on Teachers and Training (PMMMNTT) of the MHRD, Govt. of India. The objectives of the Teaching Learning Centre are to prepare Modern age teachers. Under this centre many National level activities like Seminars, FDPs and workshops at both basic and advanced level are being conducted to empower the teachers in ICT skills, develop teaching kits / teacher's tools and ICT empowered pedagogies to enhance teaching-learning process. In its various programmes, around 55,000 teachers across the nation have benefitted till now. GAD TLC is also organizing Student Specific Training Courses to upgrade their skills as required for their Professional Development.

**Prof. A.K. Bakhshi**  
Vice-Chancellor, PDM  
University, Haryana  
Chairman, GAD-TLC

**Prof. K.V. Bhanu Murthy**  
Professor, DTU  
Vice-Chairman,  
GAD-TLC

**Prof. Jaswinder Singh**  
Principal,  
SGTB Khalsa College  
Director, GAD-TLC

**Dr. Vimal Rarh**  
Project Head &  
Joint Director, GAD-TLC





# 45 Hours Certificate Online Course on Python for Data Science

## 01 January 2023 to 31 May 2023



### About the Collaborating Colleges



**Bishop Moore College, Mavelikara**, established in 1964 and affiliated to the University of Kerala, has been awarded A grade by NAAC in the 3rd cycle of accreditation and ranked 76 among the Colleges in India in the NIRF ranking 2020. The College offers 11 undergraduate, four postgraduate and two research programmes in Science, Commerce, Arts and Humanities along with two UGC-sponsored add-on courses, and also provides opportunities for students to carry out Summer Research Projects at reputed institutes in the country. The undergraduate programmes in the Science departments are supported under the DBT-STAR College scheme. The College has become an active hub of research with well equipped laboratories, over 100 publications in international journals, a number of completed major and minor research projects, the research facilities being enhanced by utilizing funds under the DST-FIST scheme and KSCSTE SARD project scheme. The research centres have collaborative projects with institutes like the UGC – DAE Consortium for Scientific Research, BARC Mumbai and IUAC, Delhi.



**St. John's College, Agra**, was established in 1850 by the Church Missionary Society of England through the efforts of the Agra C.M.S. Association which came into being in 1840. From 1862 to 1888 the College remained affiliated to Calcutta University and later up to 1927 to Allahabad University. In 1927 with the formation of Agra University, the then Principal of the College Dr. A.W. Davies became its first Vice-Chancellor and the College was affiliated to the Agra University. The college became a First Grade College in 1891 with B.A. and LL. B. classes, and affiliation was granted in 1893 for postgraduate classes. Thus it has the rare distinction of being a postgraduate institution of more than a century's standing. The college has sixteen post graduate departments with facilities for research and three under graduate departments. The college also runs five self-financed recognized courses viz, B.Com(Vocational), B.B.A., B.Ed, D.El.Ed, M.A(Urdu), Post Graduate Diploma in Clinical Psychology and two partially self-financed degree programs in B.Sc with Industrial Chemistry & BSc with Computer Science. The foundation stone of the Centenary Wing was laid by Bharat Ratna Sarvapalli Radhakrishnan, former President of India, in 1958 and was opened by Bharat Ratna Pt. Jawaharlal Nehru, the first Prime Minister of India, in 1959, with the words "I have come to pay tribute to this temple of learning." The College has very distinguished alumni, the foremost of them being the late Dr. Shanker Dayal Sharma, the former President of India present situation.



**St. Stephen's College, Pathanapuram** was founded in 1964 after the name of St. Stephen, the first martyr of Christianity. The college was the fulfilment of a long cherished desire of its founder, His Grace The Most Rev. Mar Thoma Dionysius. The college was formally declared open by His Holiness Mar Baselios Augen-I, Catholicos of the East on 8th July 1964. In 1968 the College was shifted to its present site, in the serene village of Maloor, 6 kms away from Pathanapuram. Department of Physics, started functioning with the inception of the college in the year 1964. In the year 1979 with the launch of B.Sc. Physics degree course. The physics department was then elevated to the status of 'Postgraduate Department of Physics' with the commencement of the M.Sc. Physics course in the year 2001. The department was always blessed with eminent and industrious teachers in each of its phases. Their expertise and vision has lessened the burden on the present generation in building the basic amenities for the department.



**Catholicate College, Pathanamthitta** founded in 1952 on the serene Basil Hills has a rich legacy of almost seven decades and is affiliated to Mahatma Gandhi University, Kottayam.. The motto of this temple of learning is "Fear of the Lord is the beginning of wisdom." It imparts value-based education aimed at the holistic and intuitive growth of the individual so as to fulfill the vision of creating an educated and enlightened society for a brave new world. It has been re-accredited by NAAC with CGPA 3.60, A Grade and is one of the Thirteen special grade colleges in Kerala. The college has eight research departments and offers fifteen PG Programmes, thirteen UG Programmes and one Integrated MA Programme in the aided stream. The college was identified by the department of science and technology, government of India, for FIST funding. The college has been awarded ISO 9001-2008 certification. Current year, the college is celebrating its platinum jubilee. The college has been endeavoring to shape the destiny of a community in the fullest spirit of its stated mission, an educated, enlightened society for a brave new world.



**Assumption College (Autonomous), Changanacherry** has completed 71 years of memorable service in the field of higher education. The victorious journey in creating enlightened, empowered and socially committed women without compromising the academic standards yet upholding the noblest Christian values is possible only with the constant guidance of the heavenly patron 'The Lady of Assumption'. After attaining autonomous status in 2016, the college strives more in imparting excellence in quality education, incorporating greater space for creativity and innovation. The Department of Physics, which started from the very inception of the college is one of the excellent department offering BSc Physics Programme and MSc Physics Programme with specialisation in Solid State Electronics. A major uplift of the Department took place in 2012 when the department was selected for DST-FIST programme. The Department which got recognised as Research Centre under Mahatma Gandhi University in November 2019 is presently involved in intense research activities.





# 45 Hours Certificate Online Course on Python for Data Science

## 01 January 2023 to 31 May 2023



### About the Collaborating Colleges



**Sree Narayana Polytechnic College, Kottiyam** near Kollam, Kerala in south India. It is named after the Saint and social reformer "Sree Narayana Guru". SNPTC was founded in 1957, by the Sree Narayana Trusts, Kollam under the initiative of the secretary, the late Sri.R.Sankar, former chief minister of Kerala. In the period 2006-07, the college celebrated its Golden Jubilee. It is a technical institute, approved by the All India Council of Technical Education (AICTE) and is located in a 15-acre campus at Kottiyam, 12 km from the Kollam city. The college has more than 50 faculty and 750 students. The governing body of the college is constituted by the Kerala Board of Technical Education is chaired by S.N Trust. The college started functioning with three courses: Mechanical Engineering (63 seats), Civil Engineering (63 seats) and Electrical Engineering (63 seats). In 2000 it started Electronics Engineering (63 seats).

Certificate Program For  
Students

**UG students ,  
PG students, Research  
Scholars &  
Others**

**Successful Completion  
Certificate:**

**Based on Attendance,  
Online MCQ Test ,  
Assignments & Projects  
(50% or above)  
Attendance & Feedback  
Compulsory**

**Flexible Online Mode  
Live Sessions-Saturdays  
& Public Holidays**

### Organizing Committee

**Prof. S. P. Singh**, Co-Patron, Principal, St. John's College, Agra  
**Dr. Jacob Chandy**, Co-Patron, Principal, Bishop Moore College, Mavelikara  
**Dr. Koshy P M**, Co-Patron, Principal, St. Stephens's College Pathanapuram  
**Dr. Philipose Omman**, Co-Patron, Principal, Catholicate College, Pathanamthitta  
**Dr Anitha Jose**, Co-Patron, Principal, Assumption College. Changanacherry  
**Dr. Sandeep V**, Co-Patron, Principal, S.N polytechnic College, Kottiyam, Kollam.  
**Dr. Ranjith Mathew Abraham**, Vice Principal Bishop Moore College, Mavelikara  
**Dr. Susan Verghese P.**, IQAC Co-Ordinator, Head of the Department of Chemistry, St. John's College, Agra  
**Dr. D. Sajan**, Co-Ordinator, Head of the Department of Physics, Bishop Moore College, Mavelikara  
**Ms.Shibi Krishnan**, Co-Ordinator, Head of the Department of Physics, St. Stephens's College Pathanapuram  
**Dr. Dhanya I**, Co-Ordinator, Head of the Department of Physics, Catholicate College, Pathanamthitta  
**Dr.Marina Aloysius**, Co-Ordinator, Head of the Department of Physics, Assumption College Changanacherry  
**Ms.Sema S S**, Co-Ordinator, Head of the Department of Electrical and Electronics, S.N polytechnic College, Kottiyam  
**Dr Merin George**, Convenor, Department of Physics, Bishop Moore College Mavelikara  
**Dr. Lija K Joy**, Convenor, Department of Physics, Bishop Moore College Mavelikara  
**Ms. Suchitra S**, Convenor, Department of Physics, St. Stephens's College Pathanapuram  
**Ms. Rini Varghese**, Convenor, Department of Physics, St. Stephens's College Pathanapuram  
**Dr. Achamma George**, Convenor, Department of Physics, Catholicate College, Pathanamthitta  
**Mr. Anoop P D**, Convenor, Department of Physics, Catholicate College, Pathanamthitta  
**Dr.Sherin Thomas**, Convenor, Department of Physics, Assumption College Changanacherry  
**Ms.Joselin Xavier**, Convenor, Department of Physics, Assumption College Changanacherry  
**Mr. Akhash Kumar K.S**, Convenor, Department of Electrical Engineering, S.N polytechnic College, Kottiyam.  
**Mr, Sabarigireesh C**, Convenor, Department of Electrical Engineering, S.N polytechnic College, Kottiyam

### Objectives of the Program

The 45 hours Certificate Online Course on Python for Data Science is aimed at imparting knowledge and training on the fundamentals of interdisciplinary field of data science with its different aspects and applications. The main objective is to make the participants familiar with emerging field of data science along with the preparation of data for extracting valuable insights from vast amount of heterogeneous data. Expert lectures will be delivered by faculty members from academia. This course may be beneficial to UG students, PG students, faculty members & research scholars who intend to practice/begin research in the field of processing and analysis of data using advanced techniques such as AI/ML/DL etc.

### Outcomes

The students and research scholars will able to

- ❖ Learn tools and languages used to data analysis using Python
- ❖ Understand the concept and use of data mining techniques
- ❖ Understand and implement the algorithms for large amount of data using machine learning techniques such as regression, classification, clustering and to perform graphical data analysis
- ❖ Understand visualization for distribution analysis, correlation analysis, multivariable analysis, ranking analysis deviation analysis
- ❖ Understand how to leverage the insights from big data analytics and to help them to expertise in the field of data science



## **45 HOURS CERTIFICATE ONLINE COURSE ON PYTHON FOR DATA SCIENCE**

Our department has always been interested in assisting students with expert help and technical support on topics within the syllabus that need special attention. Python is a computer programming language that has enough data science related application. The basic knowledge and advanced understanding of the same can be of potential interest to senior graduate and post graduate students as well as researchers. With this in view, we had associated with some reputed colleges and PMMMNMTT in conducting a 45 hour certificate course for the aforementioned category of learners. The students will be given opportunity to check their own ability in handling this programming language for their specific aim or objectives of research. Our first attempt of conducting this course had received a very positive and encouraging response. This prompted us to enlist this program in the recurring activities of the department. This academic year 2022-23, we could successfully implement this certificate course with 13 students and the feedback is quite encouraging.

**LIST OF STUDENTS REGISTERED FOR THE CERTIFICATE COURSE-**  
**“PYTHON FOR DATASCIENCE”**

<b>Sl.No</b>	<b>Name of the Student</b>	<b>Email Address</b>
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5	Anisha G. Anil	anishaanil62@gmail.com
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7	Sherin Wilson	Sherinadr1999@gmail.com
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