

## How to Apply

Kindly register for the workshop on or before **30/01/2022** using the link provided. The registered participants will be provided the link to attend the webinar through email or WhatsApp group.

**Registration Link** : <https://forms.gle/DbbvPihN2wgLZGxs9>



**Registration Fee** : Rs 100 /-  
(Reg fee exempted for Newman students)

**Account Details** : Newman College,  
Thodupuzha, South Indian  
bank, Newman college  
extension counter

**Account No** : 0858053000000003

**IFSC Code** : SIBL0000858

### Programme Coordinators

Dr. Beena Mary John

Mr. Noble C.Kurian

Dr. Indu Sebastian

Dr. Sr.Simi N.J

Dr. Subin Jose

For any queries, please contact +91-8848522094,  
+91- 9446501116, physics@newmancollege.ac.in



## About the Department

The Department of Physics started functioning since 1965 for the purpose of teaching ancillary subjects and in 1981 it was elevated to the status of a full-fledged Department with the commencement of Undergraduate course in physics. The Postgraduate course was started in 1993 and in 2007 the Department was recognised as a Research centre of the Mahatma Gandhi University. Our Department has eight research guides and produced six Ph. D theses during the last five-years. It has contributed more than 80 international peer reviewed research publications. The Department has active research collaboration with IUCAA, Pune and functions as an ICARD centre from 2018 onwards.

### Target audience

- Those who have completed /pursuing M.Sc in Physics /Material Science/Chemistry
- Faculties, Researchers and those who wish to pursue research

*Certificates will be issued for those who have 80% attendance and 75 % marks in assessment*

## Department of Physics

Newman College, Thodupuzha

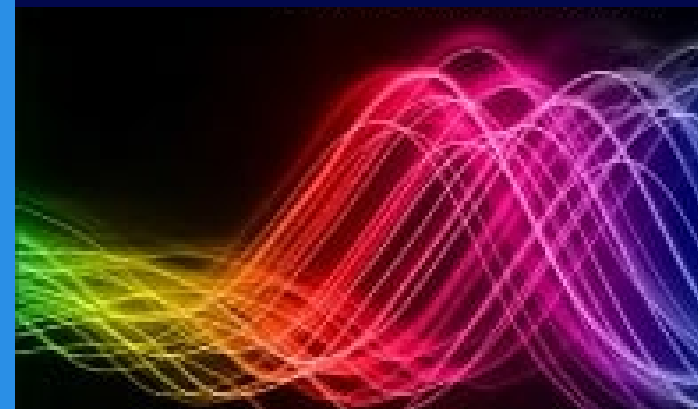
*Affiliated to MG University, Reaccredited with 'A' grade by NAAC*



In association with

*DBT STAR College Scheme*  
organise

## SSECT - 2022



Two weeks online workshop on:

*"Spectroscopic, Structural  
and Electrical  
Characterization  
Techniques"*

**31 Jan - 15 Feb 2022**



Dear Sir/Madam,

Greetings from Newman College, Thodupuzha.

With immense pleasure, the Research and Postgraduate Department of Physics is organizing a Two weeks workshop on "**Spectroscopic, Structural and Electrical Characterization Techniques**" from **31 January-15 February 2022**. The sessions are handled by experts and includes hands on training on each characterization techniques, which will be helpful for our students in their future career. We cordially welcome you and your students to this workshop.

Dr. Aloysius Sabu N  
(HoD, Physics)

Dr.Thomson Joseph  
(Principal, Newman College)

Mr. Noble C. Kurian (Dept. coordinator,  
DBT STAR college scheme)



## Inaugural Function

02 Feb 2022, 02:45 pm

Prayer	Mr. Binto George Babu
Welcome Speech	Dr. Aloysius Sabu N, HoD Physics
Presidential Address	Dr.Thomson Joseph, Principal
Inaugural Address	Msgr. Rev. (Dr). Pius Malekandathil, Manager of Colleges, Corporate Educational Agency, Diocese of Kothamangalam
Felicitation	Dr. Ratheesh Kumar P.M, Senior Manager - Application Engineering, 3M India Ltd, Bangalore
Felicitation	Rev. (Dr.) Manuel Pichalakattu, Vice Principal
Felicitation	Rev.Fr.Paul Karakombil, Bursar
Vote of thanks	Mr. Noble C. Kurian, Dept. Co-ordinator, DBT STAR college Scheme



# Schedule

*Date & Time*

*Topic*

*Resource Person*

31/01/2022- 3.15- 4.15 pm	Introduction to 'Origin' Software	Dr. Beena Mary John, Asst. Professor, Department of Physics, Newman College, Thodupuzha
01/02/2022- 3.15- 4.15 pm	Advanced Options in 'Origin' Software	Dr. Subin Jose, Asst. Professor, Department of Physics, Newman College, Thodupuzha
02/02/2022- 3.15- 4.15 pm	UV-Visible Spectroscopic Analysis	Dr. Ratheeskumar P.M, Senior Manager - Application Engineering, 3M India Ltd, Bangalore
03/02/2022- 3.15- 4.15 pm	X-Ray Diffraction and Transmission Electron Microscopy	Mr. Mathew John, Research Fellow, Newman College, Thodupuzha
04/02/2022- 3.15- 4.30 pm	Infrared Spectroscopy and Scanning Electron Microscopy	Dr. Alex Joseph, Asst. Professor, Department of Chemistry, Newman College, Thodupuzha
05/02/2022- 10.00- 11.00 am	Electrical Characterization Techniques	Dr. Swapna S Nair, Head Dept. of Physics, Central University of Kerala, Kasargod
05/02/2022- 11.15 - 12.15 pm	Magnetic Characterization Techniques	Dr. Swapna S Nair, Head Dept. of Physics, Central University of Kerala, Kasargod
07/02/2022- 3.15- 4.30 pm	Atomic Force Microscopy and Magnetic Force Spectroscopy	Dr. Mercy Mathews, Asst. Professor, Department of Physics, K.E College, Mannanam
08/02/2022- 3.15- 4.15 pm	Raman Spectroscopy	Dr. Indu Sebastian, Asst. Professor, Department of Physics, Newman College, Thodupuzha
09/02/2022- 3.15- 4.15 pm	Electron Paramagnetic Resonance Spectroscopy	Prof. (Dr.) M.R. Prathapachandra Kurup, Retd. Professor, Dept. of Chemistry, Central University of Kerala, Kasargod
10/02/2022- 3.15- 4.15 pm	X-Ray Photoelectron Spectroscopy	Dr. (Sr). Simi N.J, Asst. Professor, Department of Physics, Newman College, Thodupuzha
11/02/2022- 3.15- 4.15 pm	Photoluminescence Spectrum Analysis	Dr. Jayakrishnan R, Associate Professor, Department of Physics, University of Kerala, Thiruvananthapuram
12/02/2022- 10.00- 11.00 am	Z Scan Technique	Ms. Riya Sebastian, Research Fellow, Department of Physics, University of Kerala, Thiruvananthapuram
14/02/2022- 3.15- 4.30 pm	Thermogravimetric Analysis & Differential Scanning Calorimetry	Dr. Cincy George, Asst. Professor, Department of Chemistry, Newman College, Thodupuzha
15/02/2022- 2.45- 3. 45 pm	Data Organization & Research Paper Writing	Dr. Aloysius Sabu N, Head, Department of Physics, Newman College, Thodupuzha
3.45- 4.15 pm	Feedback Session	Mr. Noble C Kurian, Asst. Professor, Department of Physics, Newman College, Thodupuzha
4.15- 4.45 pm	Valedictory Ceremony	