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# **CO-CURRICULAR ACTIVITIES**

## **2024-2025**

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**POST GRADUATE DEPARTMENT OF  
PHYSICS**



# POST GRADUATE DEPARTMENT OF PHYSICS

## ACTIVITIES: 2024 – 2025

(Conferences, Seminars, Webinars, Workshops, Industrial Visits, Field Trips, Talks, Campaigns, etc.)

1. **Summer Internship by Academy of Sciences - Bertleja. S of II M.Sc. Physics** completed her Summer Internship Training Program in Physics (SITPIP-2024) conducted by The Academy of Sciences, Chennai, associated with National Center for Nanoscience and Nanotechnology, Madras University and Dept of Physics, Bharathiar University for a period of 21 days from 24/05/2024 to 14/06/2024.



## 2. NPTEL Course Completion

- ◆ **Gracy M of II M.Sc. Physics** completed the 4 week NPTEL certificate course on “Structural analysis of Nanomaterial” offered by IIT Roorkee from July 2024 to September 2024.



# NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**GRACY M**

for successfully completing the course

**Structural Analysis of Nanomaterials**

with a consolidated score of **48** %

Online Assignments	18.33/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **102**



**Prof. Kaushik Ghosh,**  
Professor (Chemistry)  
Coordinator CEC

**Jul-Aug 2024**  
(4 week course)



**Prof. Ranjana Pathania,**  
Professor (BSBE)  
Coordinator (NPTEL)



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Indian Institute of Technology Roorkee



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Roll No: NPTEL24ME80S433102817

To verify the certificate



No. of credits recommended: 1 or 2

### 3. ACUCA Microdegree certificate program

- ◆ **Ms. Vinisha W of II M.Sc. Physics** completed her “Service learning and community-based Participatory research for responsible leadership” offered by ACUCA and Christ University from 22/07/2024 to 09/08/2024.



- ◆ **Ms. Swetha Raja of II M.Sc. Physics** has completed a course on “Metaverse and Multisensory Servicescape: Creating virtual environment to leverage customer experineces” offered by ACUCUA and Christ University from 22/07/2024 to 09/08/2024.



4. **Swetha Raja of II M.Sc. Physics** Participated in the state level “Build a Robot workshop” on 14/08/2024 organised by the Department of Physics in collaboration with Evolve Robot lab.



5. **Ms. Lakshmid devi S**, Associate Professor, PG Department of Physics attended the "LaTeX Basic to Advance: A Workshop with an Emphasis on Academic Writing" on 21-22 SEPTEMBER 2024 (online), organised by Janardan Singh Foundation (JSF) in collaboration with Association of Indian Physicists (AIP) "LaTeX Basic to Advance: A Workshop with an Emphasis on Academic Writing" on 21-22 SEPTEMBER 2024 (Online)





6. **Elizabeth Carline. S of I M.Sc. Physics** has participated in Online Quiz Competition for residents on “Quality Standards of Products” in commemorating World Standards Day on October 2024.



7. **Catherine. R, Vinisha. W, Deva Dharsini, Suwathi Sethu and Harene.V.G** (II M.Sc. Physics) volunteered for the United Board project on empowering women in underserved communities through interdisciplinary collaboration on 28/08/2024 in interviewing women in Chetpet slum along with **Dr. Meera**.
8. **Dr. Alison Christina Fernandez**, Assistant Professor, PG Department of Physics attended Glow in the Dark: SALT Conference organized by Sishya at SAIACS CEO Centre Bangalore on 5th and 6th October 2024



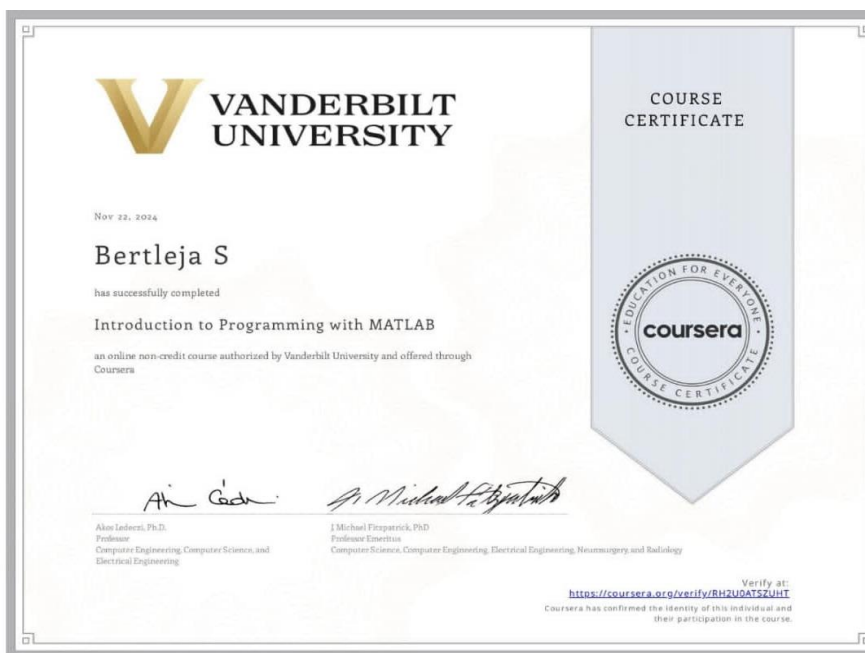
9. **Dr. K. Meera**, Head and Assistant Professor, PG Department of Physics attended **Faculty Development Program** on “Advanced Pedagogy and Classroom Delivery Enhancement Techniques in Higher Education” organized by Madras Christian College, Chennai in association with MCC and E&ICT Academy IIT Guwahati from 4.11.2024 to 8.11.2024.



10. **Dr. Alison Christina Fernandez**, Assistant Professor, PG Department of Physics attended Seven-Day Self-Paced Online Faculty Development Programme (FDP) / Capacity Building Programme (CBP) on AI-Driven Research organized by Sri S. Ramasamy Naidu Memorial College, Sattur from November 4<sup>th</sup>-12<sup>th</sup> 2024.



11. **Bertleja** of II M.Sc. Physics has successfully completed the Coursera Course on “Introduction to Programming with MATLAB” in November 2024.



12. **Kristina Heikrujam** of I M.Sc. Physics has successfully completed mentorship programme on artificial intelligence from B. tech Walleh in associated with Teachnook in November 2024.



13. **Dr. K. Meera** has completed with honors a course on “Introduction to the Biology of Cancer” offered by John Hopkins University through Coursera. (February 28, 2025, 8 hours (approximately))
14. **Dr. K. Meera** has completed a course on “Putting the Personal in Personalized Nutrition” offered by University of Illinois Urbana Champaign through Coursera. (March 16, 2025, 11 hours)



## Industrial Visit

The department organized an **Industrial Visit** to IIT Instrumentation Centre and Tamil Nadu Science City on 6<sup>th</sup> December 2024. Two faculty **Dr. Alison Christina Fernandez and Ms. Bency Mary B** accompanied 23 II M.Sc. Physics students.

### **Industrial Visit -SAIF- IIT MADRAS**

A guided tour of the advanced analytical and research instruments such as spectroscopy devices, electron microscopes, and precision measurement tools. The students interacted with faculty and research scholars who explained ongoing projects and applications of instrumentation in various fields. The students were enlightened on how to make use of the facilities and carry out their research in order to facilitate better industrial and academic research.

### **Industrial Visit -Tamil Nadu Science City**

The students had an exploration of interactive science exhibits on robotics, space technology, and energy conservation. The visit to the Planetarium, provided insights into astronomy and space sciences. The Hands-on experience with models related to renewable energy, and environmental science created awareness and provided them with an insight of how they can implement such ideas into their research work.







15. Celcia and Harene (II MSc physics) received **3rd place in Lab experiments** in Physica'24 conducted by Department of Physics, Loyola College.



16. **Vincy Theresa** (II MSc physics) received **3rd prize in Poster making** in Physica'24 conducted by Department of Physics, Loyola College.



17. **Matilda K, Elizabeth Carline S, Gracia LJ, Keerthana, Akshaya, Agnus Malar Dimanche** (I MSc physics) participated in Physica'24 conducted by Department of Physics, Loyola College.
18. **Catherine and Devadarsini** (II MSc physics) participated in the United Board workshop on empowering women in underserved communities through interdisciplinary collaboration which is a part of integrated scholarship project (Tea coaster designing) on 21<sup>st</sup> January 2025.
19. **Catherine, Devadarsini, Harene, Swathi Sethu, Vinisha** (II MSc physics) participated in the United Board workshop on empowering women in underserved communities through interdisciplinary collaboration which is a part of integrated scholarship project (Microgreen project) on 21<sup>st</sup> January 2025.
20. **Dr. K. Meera**, Head and Assistant Professor, PG Department of Physics has participated in **Murdoch Educators Meet**, “Masterclass for the educators on the Topic: The Role of Long-Duration Energy Storage in Energy Transition – Open Opportunities for Australia and India” on 24<sup>th</sup> February 2025 in Taj Coromandel, Chennai.





21. The department organized an **Industrial Visit** to **Saveetha Dental College** on 18<sup>th</sup> March 2025 with the session titled “Innovations Unveiled: Exploring Research Innovations at the Patent Museum and Research Facilities”. Two faculty **Dr. Alison Christina Fernandez and Dr. Radha R** accompanied 42 Students [I & II MSc Physics].

### **Industrial Visit - SAVEETHA DENTAL COLLEGE**

The industrial visit to Saveetha Dental College was a valuable learning experience, bridging the gap between theoretical knowledge and practical application. The students had an exploration of patent museum, with a display of patented innovations in healthcare and biomedical research. It provided students with practical exposure to intellectual property rights (IPR) and patent filing processes, A guided tour of the advanced analytical and research instruments such as spectroscopy devices, electron microscopes, and precision measurement tools. The students interacted with faculty and research scholars who explained ongoing projects and applications of instrumentation in various fields. The students were enlightened on how to made use of the facilities and carry out their research in order to facilitate better industrial and academic research.



**Post Graduate Department  
of Physics  
Women's Christian College  
Chennai**



## **Innovations Unveiled: Exploring Research Innovations at the Patent Museum and Research Facilities**

An Industrial Visit to Saveetha Dental College, Chennai  
organised by the PG Department of Physics in collaboration  
with Institution Innovation Cell of WCC



**18th March 2025 | 8.30 am - 3 pm**

**Saveetha Dental College, NH48, Chennai, TN, 600077**

