

DEPARTMENT OF PHYSICS**ACTIVITIES (2023-2024)****(Association meetings, Guest Lectures, Celebration of Important days)**

| S.No | Date | Topic | Resource Person (designation with complete official address) | Event | Platform |
|-------------|-------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| 1 | 19.07.2023 | An overview of Electronics | Dr. K.Venkatachalam, Associate Professor, Department of Physics, Government Arts College, Coimbatore- 641 018. | Physics Association's inaugural meeting | offline |
| 2 | 02.08.2023 | Preparation of Competitive Examinations | Lt. Dr. A. K. Priya, Professor, Department of Chemical Engineering, KPR Institute of Engineering and Technology, Coimbatore. | Orientation Session | Offline |
| 3 | 22.08.2023 | Flip flops and their applications | Dr. R. Suresh, Assistant Professor, Department of Physics Sri Ramakrishna Mission Vidyalaya College of Arts and Science Coimbatore – 641020 | Guest Lecture | Offline |
| 4 | 31.01.2024 | The Future of Photonics: Emerging Trends and Technologies | Dr. A. Jacqueline Regina Mary, Associate Professor and Dean of Academics, Department of Physics, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam – 625601 | Webinar | Online |
| 5 | 02.02.2024 | Seminar - Career Guidance – Scope and Opportunities for a Promising Future | Dr. M. Senthilkumar M.Sc., PhD, Assistant Professor (SG) Division of Physical Sciences Karunya Institute of Technology and Sciences Coimbatore – 641 114 | Seminar | Offline |

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|---|------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|
| 6 | 23.03.2024 | Health Care for Women | Dr. L. Catherine Zipporah Dental surgeon Sri Venkateswara Dental College and Hospital Chennai | Guest Lecture | Online |
| 7 | 28.02.2024 | The Success Story of Indian Nuclear Power Program | Dr. D. Khanna Assistant Professor Department of Applied Physics Karunya Institute of Technology and Sciences Coimbatore – 641 114 | Guest Lecture | Offline |

Competitions Organized

| S.No | Date | Topic | Name of the Competition | Platform |
|------|-------------------------|---------------------------------------------|-------------------------------|----------|
| 1 | 24.07.2023 | Fizika-2023 | Quiz | Offline |
| 2 | 25.07.2023 | Best Start Up | Interdepartmental Competition | Offline |
| 3 | 01.08.2023 | Transition to transformation – Theme | Model Making | Offline |
| 4 | 21.10.2023 - 23.10.2023 | Dr.A.P.J Abdul Kalam – Missile Man of India | Quiz | Online |

WORKSHOPS, SEMINARS, CONFERENCES, SYMPOSIUMS, HANDS ON TRAININGS ORGANISED BY THE DEPARTMENT

State level Workshops Organized by the Department

| S. No | DATE | TOPIC | RESOURCE PERSON | No. of Participants | Platform |
|-------|------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------|----------|
| 1 | 19.10.2023 | Entrepreneurship and Innovation as Career Opportunity | Ms. Tanya Siju, II B.SC. Physics, Nirmala College for Women (Autonomous), Coimbatore. | 59 | Offline |
| 2 | 19.12.2023 | Spectrophotometry | Dr. S. Sivashankari | 30 | Offline |

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|---|------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----|----------------------|
| | | | Associate Professor & Head Department of Bioinformatics Nirmala College for Women Coimbatore | | |
| 3 | 23.01.2024 | Operation of an Oscillator | Mr. S.P. Senthil Subramaniam, Mighty Electronics Equipment's Corporation, Coimbatore | 23 | Offline |
| 4 | 01.02.2024 | Success Starts Here: Entrepreneurial Skills & Attitudes | Ms. Sherlin Infancia, Fashion Designer | 42 | Online - Google meet |
| 5 | 14.03.2024 | Workshop on Sesin keychain making | M. Sreeja III. B.Sc., B.Com (E.Com), Nirmala College for Women | - | Offline |

International level Seminars and Conferences Organized by the Department

| S. No | DATE | TOPIC | RESOURCE PERSON | No. of Participants | Platform |
|-------|------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------|
| 1 | 29.09.2023 | Development of Energy Storage Technology – A view of battery material design | Dr. R. Muruganantham, Department of Chemical Engineering, R & D Center for Membrane Technology, Research Center for Semiconductor Materials and Advanced Optics, Chung Yuvan Christian University (CYCU), Chung Li District, Taoyuan city 32023, Taiwan | 57 | Online |

State level Seminars and Conferences Organized by the Department

| S. No | DATE | TOPIC | RESOURCE PERSON | No. of Participants | Platform |
|--------------|-------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| 1 | 25.08.2023 | Ion Beams in Material Processing and Research Opportunities | Dr. P. Matheswaran, Assistant Professor, Department of Physics, Kongunadu Arts and Science College, Coimbatore – 641 029 | 12 | Offline |

National level Symposia Organized by the Department

| S. No | DATE | TOPIC | RESOURCE PERSON | No. of Participants | Platform |
|--------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| 1 | 4.10.2023 | <p align="center">Nanotechnology and its applications</p> <p align="center">Conducting polymer composites for anti-bacterial and anti-cancer activity</p> <p align="center">Energy conservation, audit and management</p> | <p>Dr. S. Saravanan, Associate Professor, Department of Science and Humanities, Swarnandhra College of Engineering & Technology, Narsapur, Andhra Pradesh – 534280.</p> <p>Dr. P.Jayamurugan, Assistant Professor, Department of Physics, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore.</p> <p>Dr. P. Maadeswaran, Assistant Professor, Department of Energy Science and Technology, Periyar University, Salem – 636011.</p> | 52 | Online |

EXPOSURE VISITS

| S. No | DATE | CLASS | PLACE | No. of days | No of students | Type |
|-------|-------------------------|---------------------|--------------------------------------------------------|-------------|----------------|------------------|
| 1 | 13.07.2023 | UG Physics Students | Plasma Exhibition Bharathiar University | 1 | 30 | - |
| 2 | 07.09.2023 | II B. Sc. Physics | Mighty Electronics Equipments Corporation – Coimbatore | One day | 10 | Industrial Visit |
| 3 | 21.09.2023 – 23.09.2023 | III B. Sc. Physics | Bangalore & Mysore | Three Days | 8 | Educational Tour |

BEST PRACTICES OF THE DEPARTMENT

| SL. No. | DATE | DEPT | ACTIVITY |
|---------|------------|---------|----------------------------------------|
| 1 | 08.09.2023 | Physics | Survey on Energy consumption in Houses |

FDP ATTENDED BY THE FACULTY

| S.No | Date | Name of the faculty | Title | Organized by | Online/Offline |
|------|-------------------------|-------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------|----------------|
| 1 | 03.07.2023 – 07.07.2023 | W. Maria Therease Ramya | National Level Five Day Virtual Faculty Development Programme | Department of Management Studies, KG College of Arts and Science, Coimbatore - | Online |
| 2 | 03.07.2023 – 07.07.2023 | R. Leethiyal | National Level Five Day Virtual Faculty Development Programme | Department of Management Studies, KG College of Arts and Science, Coimbatore - | Online |
| 3 | 03.07.2023 – 07.07.2023 | A. Yuvarani | National Level Five Day Virtual Faculty | Department of Management Studies, KG College of Arts | Online |

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| | | | Development Programme | and Science, Coimbatore - | |
| 4 | 03.07.2023 – 07.07.2023 | S. Krishnaveni | National Level Five Day Virtual Faculty Development Programme | Department of Management Studies, KG College of Arts and Science, Coimbatore – 641 035 | Online |
| 5 | 21.08.2023 - 26.08.2023 | Dr. R. Amutha | Recent Advances in Nanomaterials and Nanotechnology | Department of Science and Humanities, Kalaignar karunanidhi Institute of Technology, Coimbatore, Tamil Nadu. | Online |
| 6 | 07.10.2023 | Dr. R. Amutha | Data Analytics | Nirmala College for Women, Coimbatore | Offline |
| 7 | 07.10.2023 | R. Leethiyal | Data Analytics | Nirmala College for Women, Coimbatore | Offline |

TRAINING PROGRAMMES ATTENDED BY THE FACULTY

| S.No | Date | Name of the faculty | Title | Organized by | Online/Offline |
|------|------------|-------------------------|--------------------------------------------------|-------------------------------------|----------------|
| 1 | 08.08.2023 | Dr. R. Amutha | National Intellectual Property Awareness Mission | Intellectual Property Office, India | Offline |
| 2 | 08.08.2023 | W. Maria Therease Ramya | National Intellectual Property Awareness Mission | Intellectual Property Office, India | Offline |
| 3 | 08.08.2023 | X. Mary Josephine | National Intellectual Property Awareness Mission | Intellectual Property Office, India | Offline |
| 4 | 08.08.2023 | S. Krishnaveni | National Intellectual Property Awareness Mission | Intellectual Property Office, India | Offline |

PARTICIPATION OF THE FACULTY IN CONFERENCES

| S. No | Date | Name of the faculty | Title | National/Intl | Organizing Committee with Address | Platform |
|-------|-------------------------------|------------------------|---------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1 | 10.08.2023 – 11.08.2023 | Mrs. X. Mary Josephine | Advanced Biocompatible Materials and Devices / Systems for Biomedical Applications (ABMDB – 2023) | National | Department of Physics and Biomedical Engineering, Sri Ramakrishna Engineering College, Vattamalaipalayam, N.G.G.O. Colony Post, Coimbatore – 641 022 | Offline |
| 2 | 01.02.2024 – 02.02.2024 | X. Mary Josephine | International conference on sustainable materials for biological and energy applications | International | Department of Physics, Periyar University Centre for Post Graduate and Research Studies, Dharmapuri | Online Google Meet |
| 3 | 26.02.2024 – 29.04.2024 | R. Leethiyal | International conference on advanced functional materials and device | International | Nanotechnology Research Centre, SRM University, Chennai | Online Google Meet |

PARTICIPATION OF THE FACULTY IN WORKSHOPS

| S. No | Date | Name of the faculty | Title | National/Intl | Organizing Committee with Address | Platform |
|-------|-------------------------------|-------------------------|-------------------------|---------------|----------------------------------------------------------------------------------------------------------------|----------|
| 1 | 22.08.2023 – 23.08.2023 | W. Maria Therease Ramya | Electrochemical Devices | National | Department of Physics, PSGR Krishnammal College for Women, Coimbatore – 641 004 and Materials Research Centre, | Offline |

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| | | | | | Coimbatore – 641 045 | |
| 2 | 18.10.2023 – 20.10.2023 | Dr. R. Amutha | Research Project Proposal Writing & Report Writing | National | HI LEARN EDUTECH INSTITUTE, MSME, GOI Registered, An ISO Certified Institute, Bijapur / Vijayapur, Karnataka | Online |
| 3 | 18.10.2023 – 20.10.2023 | W. Maria Therease Ramya | Research Project Proposal Writing & Report Writing | National | HI LEARN EDUTECH INSTITUTE, MSME, GOI Registered, An ISO Certified Institute, Bijapur / Vijayapur, Karnataka | Online |
| 4 | 27.10.2023 | Dr. R. Amutha | Artificial Intelligence Tools for Educators | National | IGNITE Life Skill Academy & IQAC, Sacred Heart College (Autonomous) Kochi-13 | Online |
| 5 | 27.10.2023 | W. Maria Therease Ramya | Artificial Intelligence Tools for Educators | National | IGNITE Life Skill Academy & IQAC, Sacred Heart College (Autonomous) Kochi-13 | Online |
| 6 | 27.10.2023 | X. Mary Josephine | Artificial Intelligence Tools for Educators | National | IGNITE Life Skill Academy & IQAC, Sacred Heart College (Autonomous) Kochi-13 | Online |
| 7 | 27.10.2023 | A. Yuvarani | Artificial Intelligence | National | IGNITE Life Skill Academy & IQAC, | Online |

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|---|------------|-------------------------|------------------------------------------------------|----------|------------------------------------------------------------------------------|--------|
| | | | Tools for Educators | | Sacred Heart College (Autonomous) Kochi-13 | |
| 8 | 28.10.2023 | Dr. R. Amutha | Advanced Artificial Intelligence Tools for Educators | National | IGNITE Life Skill Academy & IQAC, Sacred Heart College (Autonomous) Kochi-13 | Online |
| 9 | 28.10.2023 | W. Maria Therease Ramya | Advanced Artificial Intelligence Tools for Educators | National | IGNITE Life Skill Academy & IQAC, Sacred Heart College (Autonomous) Kochi-13 | Online |

PUBLICATIONS BY THE FACULTY
BOOKS PUBLISHED BY THE FACULTY

| S. No | Year | Name of the faculty | Name of the Book | IBBN/ISSN |
|-------|------|---------------------|----------------------------------------|-------------------|
| 1 | 2023 | Dr. R. Amutha | அன்றாட வாழ்வின் அறிவியலை அறிந்திடுவோம் | 978-93-5620-310-5 |

PAPER PRESENTATION BY THE FACULTY

| S No | Date | Name of the faculty | Topic | Category | Organizing Committee with address | Platform |
|------|-------------------------|---------------------|---------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1 | 19.09.2023 – 20.09.2023 | Dr. R. Amutha | Studies on Thermally Evaporated p-ZnTe/n-CdSe Heterojunction Diodes | Poster presentation | Coimbatore Institute of Technology in collaboration with Western Norway University of Applied Sciences, Norway, and University of Jaffna, Sri Lanka | Offline |

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|---|-------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------|--------------------|
| 2 | 01.02.2024 – 02.02.2024 | X. Mary Josephine | Chemical designing of 1,2-dihydroxyanthraquinone - as an efficient sensitizer for dye sensitized solar cell | International Conference | Department of Physics, Periyar University Centr for Post Graduate and Research Studies, Dharmapuri | Online Google Meet |
| 3 | 26.02.2024 – 29.04.2024 | R. Leethiyal | Green Synthesis of Titanium dioxide nanoparticles for antibacterial and photocatalytic activity using justicia adhatoda and cissus quadrangularis leaf extract | International Conference | Nanotechnology Research Centre, SRM University, Chennai | Online Google Meet |

ACHIEVEMENTS AND AWARDS – FACULTY

| Year of award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies |
|---------------|---------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------|
| 2023 | Dr. R. Amutha | Assistant Professor & Head of the Department | Best Poster presentation award |

ONLINE COURSES COMPLETED BY THE STUDENTS

| SL.NO | NAME | NAME OF THE COURSE | COURSE CONDUCTED BY |
|-------|----------------|----------------------------------|---------------------|
| 1 | Roshall Packia | Brief Introduction to Psychology | NPTEL |

STUDENT'S PARTICIPATION IN SEMINARS

| S. No | Date | Name of student | Topic | Name of the Seminar | Organizing Committee and platform | National/ International |
|-------|------|-----------------|-------|---------------------|-----------------------------------|-------------------------|
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| 1 | 04.08.2023 | Hema Praveena. J | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 2 | 04.08.2023 | Maria Josephin Vimala. S | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 3 | 04.08.2023 | Pavithra. A | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 4 | 04.08.2023 | Agnes J | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 5 | 04.08.2023 | Dionysia Christina D | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |

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| 6 | 04.08.2023 | Harnini T | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 7 | 04.08.2023 | Hemalatha M | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 8 | 04.08.2023 | Janet C | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 9 | 04.08.2023 | Jemi Praiselin T R | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 10 | 04.08.2023 | Liji Agnes A | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |

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|----|------------|-------------------|---------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------|----------|
| 11 | 04.08.2023 | Mathi Manjari M M | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 12 | 04.08.2023 | Roshini S | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 13 | 04.08.2023 | Sanofar M | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 14 | 04.08.2023 | Tanya Siju | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 15 | 04.08.2023 | Rudh P | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |

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|----|------------|-----------------|---------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------|----------|
| 16 | 04.08.2023 | Sakthi Harini V | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 17 | 04.08.2023 | Geetha P | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |
| 18 | 04.08.2023 | Pooja S | Exoplanets: Distinct worlds from the solar system | National Webinar on Astrophysics | Division of Physical Sciences, Karunya Institute of Technology and Sciences, Coimbatore. | National |

STUDENTS' PARTICIPATION IN CULTURAL/EXTRA CURRICULAR ACTIVITIES AND PRIZES

| S. No | Date | Name | Event | Participation/ Prize | Organizing Committee |
|--------------|-------------|--------------|--------------|-----------------------------|----------------------------------|
| 1 | 20.02.2024 | Athira. U. P | March Past | Winner | Department of Physical Education |
| 2. | 20.02.2024 | Athira. U. P | Throw Ball | Runner | Department of Physical Education |
| 3. | 20.02.2024 | Sharnitha. H | Throw Ball | Winner | Department of Physical Education |
| 4. | 20.02.2024 | Sharnitha. H | Volley Ball | Runner | Department of Physical Education |

EXTENSION ACTIVITIES OTHER EXTENSION ACTIVITIES OF THE DEPARTMENT

| S. No. | DATE | ACTIVITY | PLACE | NO. OF BENEFICIARIES |
|---------------|-------------|--------------------|-------------------|---------------------------------|
| 1 | 16.09.2023 | Extension Activity | Palamalai Village | 2 |