

DEPARTMENT OF PHYSICS
ACTIVITIES (2024-2025)
(Association meetings, Guest Lectures, Celebration of Important days)

S.No	Date	Topic	Resource Person (designation with complete official address)	Event	Platform
1	12.07.2024	Thermodynamics in Everyday Life	Dr. G. Umadevi, Associate Professor, Department of Physics, Government Arts College, Coimbatore- 641 018	Inaugural Meeting	Offline
2	09.07.2024	Strategies for Business Fit	Ms. Tanya Siju, Thou Art (Art Business), III B.SC. Physics, Nirmala College for Women (Autonomous), Coimbatore	IIC Session	Offline
3	12.07.2024	Thermodynamics in Everyday Life	Dr. G. Umadevi, Associate Professor, Department of Physics, Government Arts College, Coimbatore- 641 018	Inaugural Meeting	Offline
4	23.07.2024	Ignite your Future: Unveiling the Physics Career Options	Dr. D. Khanna Assistant Professor Department of Applied Physics Karunya Institute of Technology and Sciences Coimbatore – 641 114	Career Guidance Program	Offline
5	27.08.2024	Electronics – Its importance and Applications	Dr. N. Sasi,	Guest Lecture	Offline

			Former Head and Associate Professor, Department of Physics, Nirmala College for Women, Coimbatore- 641 018		
6	16.10.2024	Artificial Intelligence in Physics	Dr. B. Rosiline Jeetha Associate Professor & Head Department Computer Science Nirmala College for Women Coimbatore – 641 018	Guest Lecture	Offline
7	25.10.2024	Solid State Physics	Dr. Deepapriya S Assistant Professor Department of Physics Auxilium College Vellore	Guest Lecture	Online
8	14.12.2024	Guiding Light: Insights and Reflections on Research Journey	Ms. R. Antonette Divya Faustina Alumna (Batch 2016-2019) Research Scholar, SRM Institute of Science & Technology, Chennai.	Guest Lecture	Online
9	07.02.2025	Yoga: A Holistic Practice for Balancing Body, Mind, and Spirit	Dr. Sudha Sharma Assistant Professor & Head Department of Hindi, Nirmala College for Women Coimbatore – 641 018	Life Skill	Offline
10	13.02.2025	Solid State Physics	Dr. Johncy Caroline. J Assistant Professor, Department of Chemistry, Nirmala College for Women, Coimbatore.	Guest Lecture	Online

11	19.02.2025	Exploring Foundations of Atomic Physics	Dr. V. G. Brindha, Assistant Professor, Department of Physics (S.F), PSG College of Arts and Science, Coimbatore – 614 014.	Guest Lecture	Online
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State level Hands-on Training programmes Organized by the Department

S. No	DATE	TOPIC	RESOURCE PERSON	No. of Participants	Platform
1	06.02.2025	Computer Programming in C	Dr. P. Avila Clemenshia Assistant Professor Department Computer Science Nirmala College for Women Coimbatore – 641 018	13	Offline

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	20.01.2025	Effective Sales and Marketing Strategies for Entrepreneurs/Startups	Dr. Chitra Isac, Assistant Professor and Head, Department of Retail Management, Nirmala College for Women Coimbatore	55	Offline

2	15.02.2025	Circuit Testing with Multimeter	Mr. S. P. Arul & A. Ganesh Kumar Technical Head, Mighty Electronics Equipment's Corporation, Coimbatore	40	Offline
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International level Seminars and Conferences Organized by the Department

S. No	DATE	TOPIC	RESOURCE PERSON	No. of Participants	Platform
1	18.02.2025	Exploring research opportunities abroad - A guide for young aspirants	Ms. Hephsiba K Siju, Alumna (Batch: 2018-2021), National Chung Hsing University, Taiwan	31	Online

ACTIVITIES RELATED TO FACULTY MEMBERS FACULTY MEMBERS AWARDED Ph.D.,

S. N o	Name of the Staff	Date of Regn	Date of Viva-Voce	Title	Name of the Supervisor
1	S. Krishnaveni	22.12.2018	09.08.2024	Quantum Chemical Investigations of Organic Dyes for Dye Sensitized Solar Cells Using Density Functional Theory	Dr. V. Sathyaranayananamoor thi

FDP ATTENDED BY THE FACULTY

S.No	Date	Name of the faculty	Title	Organized by	Online/Offline
1	18.06.2024 - 28.06.2024	Dr. Amutha	NEP Orientation and sterilization program	UGC- Malaviya Mission Teacher training Centre (GAD-MMTTC), a Centre of UGC & Ministry of education	Online
2	22.06.2024	Ms. R. Leethiyal	AI Tools for teaching	Star International Foundation for Research and Education	Online
3	22.06.2024	Mrs. A. Yuvarani	AI Tools for teaching	Star International Foundation for Research and Education	Online
4	25.06.2024	Dr. Amutha	Lecture series on “Teacher as Facilitators”	The International quality assurance cell, Dr. M.G.R. Educational and Research Institute	Online
5	26.06.2024	Dr. Amutha	Lecture series on “Navigation the art of teaching”	The International quality assurance cell, Dr. M.G.R. Educational and Research Institute	Online
6	29.06.2024	Dr. Amutha	Seminar on “Empowering Educators for Tomorrow”	The International quality assurance cell, Dr. M.G.R. Educational and Research Institute	Online
7	1.07.2024 – 08.07.2024	Mrs. W. Maria Therease Ramya	Research Paper Writing	Research Foundation of India	Online
8	1.07.2024 – 08.07.2024	Ms. R. Leethiyal	Research Paper Writing	Research Foundation of India	Online
9	27.07.2024	Dr. Amutha	Lecture series on “student engagement	The International quality assurance cell,	Online

			through Effective teaching and learning	Dr. M.G.R. Educational and Research Institute	
10	09.09.2024-13.09.2024	Dr. R. Amutha	Adapting to AI driven industry	P. G. Department of Computer Science, Rajapalayam Raju's College, Rajapalayam	Online
11	09.09.2024-13.09.2024	W. Maria Therease Ramya	Adapting to AI driven industry	P. G. Department of Computer Science, Rajapalayam Raju's College, Rajapalayam	Online
12	09.09.2024-13.09.2024	R. Leethiyal	Adapting to AI driven industry	P. G. Department of Computer Science, Rajapalayam Raju's College, Rajapalayam	Online
13	09.09.2024-13.09.2024	A. Yuvarani	Adapting to AI driven industry	P. G. Department of Computer Science, Rajapalayam Raju's College, Rajapalayam	Online
14	25.11.2024 – 30.11.2024	Dr. R. Amutha	Recent Advances in Functional Materials and Characterizations	Department Physics, SRM Institute of Science and Technology, Ramapuram, Chennai.	Online
15	04.12.2025	Dr. R. Amutha	Learning outcome based curriculum framework in the context of NEP	IQAC, Nirmala College for Women, Coimbatore	Offline
16	04.12.2025	Mrs. W. Maria Therease Ramya	Learning outcome based curriculum framework in the context of NEP	IQAC, Nirmala College for Women, Coimbatore	Offline
17	04.12.2025	Ms. R. Leethiyal	Learning outcome based	IQAC, Nirmala College for	Offline

			curriculum framework in the context of NEP	Women, Coimbatore	
18	04.12.2025	Mrs. A. Yuvarani	Learning outcome based curriculum framework in the context of NEP	IQAC, Nirmala College for Women, Coimbatore	Offline
19	04.12.2025	Dr. S. Krishnaveni	Learning outcome based curriculum framework in the context of NEP	IQAC, Nirmala College for Women, Coimbatore	Offline
20	20.01.2025-24.01.2025	Dr. S. Krishnaveni	Advancements in Material Science	Department of Physics, KPR Institute of Engineering and Technology, Coimbatore	Online
21	27.01.2025	Dr. R. Amutha	Exploring Ethical Hacking Tools	Nirmala College for Women, Coimbatore	Offline
22	27.01.2025	Mrs. W. Maria Therease Ramya	Exploring Ethical Hacking Tools	Nirmala College for Women, Coimbatore	Offline
23	27.01.2025	Ms. R. Leethiyal	Exploring Ethical Hacking Tools	Nirmala College for Women, Coimbatore	Offline
24	27.01.2025	Mrs. A. Yuvarani	Exploring Ethical Hacking Tools	Nirmala College for Women, Coimbatore	Offline
25	17.03.2025-27.03.2025	Dr. R. Amutha	Frontiers in Material Science	SRM Institute of Science and Technology, Ramapuram, Chennai	Online
26	17.03.2025-27.03.2025	Dr. W. Maria Therease Ramya	Frontiers in Material Science	SRM Institute of Science and Technology, Ramapuram, Chennai	Online
27	17.03.2025-27.03.2025	Ms. R. Leethiyal	Frontiers in Material Science	SRM Institute of Science and Technology,	Online

				Ramapuram, Chennai	
28	17.03.2025- 27.03.2025	Mrs. A. Yuvarani	Frontiers in Material Science	SRM Institute of Science and Technology, Ramapuram, Chennai	Online
29	01.04.2025 – 05.04.2025	Dr. R. Amutha	Nanotechnology in Environmental Sustainability for Tomorrow (NEST'25)	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), Viraganoor, Madurai	Online
30	01.04.2025 – 05.04.2025	Dr. W. Maria Therease Ramya	Nanotechnology in Environmental Sustainability for Tomorrow (NEST'25)	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), Viraganoor, Madurai	Online
31	01.04.2025 – 05.04.2025	Ms. R. Leethiyal	Nanotechnology in Environmental Sustainability for Tomorrow (NEST'25)	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), Viraganoor, Madurai	Online
32	01.04.2025 – 05.04.2025	Dr. S. Krishnaveni	Nanotechnology in Environmental Sustainability for Tomorrow (NEST'25)	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), Viraganoor, Madurai	Online
33	03.05.2025- 25.05.2025	Dr. S. Krishnaveni	Quantum Computing	Centre for Development of Advanced	Online

				Computing, Hyderabad & Indian Institute of Technology, Roorkee with the support of Ministry of Electronics and Information Technology, Government of India.	
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TRAINING PROGRAMMEs ATTENDED BY THE FACULTY

S.No	Date	Name of the faculty	Title	Organized by	Online/Offline
1	04.11.2024 – 12.11.2024	W. Maria Therease Ramya	NEP 2020 Orientation & Sensitization Programme	Central University of Kerala	Online
2	04.11.2024 – 12.11.2024	R. Leethiyal	NEP 2020 Orientation & Sensitization Programme	Central University of Kerala,	Online

PARTICIPATION OF THE FACULTY IN SEMINARS

S. No	Date	Name of the faculty	Title	National/Intl	Organizing Committee with Address	Platform
1	27.11.2024	Dr. R. Amutha	Steps to write persuasive project proposal organized by the IQAC	National	Dr. M. G. R. Educational and Research Institute	Online

PARTICIPATION OF THE FACULTY IN WORKSHOPS

S. No	Date	Name of the faculty	Title	National/Intl	Organizing Committee with Address	Platform

1	19.11.2024	Dr. R. Amutha	Freen Computing: Sustainability Through Imation Technology	National	A.C.T Academy, Kerala	Online
2	19.11.2024	A. Yuvarani	Freen Computing: Sustainability Through Ination Technology	National	A.C.T Academy, Kerala	Online

PUBLICATION BY THE FACULTY IN INTERNATIONAL JOURNALS

S. N o	Month &Year	Name of the faculty	Topic	Name of the Journal	Vol No, Issue No, Pg No	ISS N	Impac t factor	Indexin g Details
1	August 2024	W. Maria Therease Ramya	Flexible PVP/PEO/MnO ₂ Polymer Nanocomposites based Cathode Material for Asymmetric Supercapacitor	Asian Journal of Chemistry	36, 10, 2431-2442	0975 - 427 X	1.68	Scopus
2	December, 2024	Ms. R. Leethiy al	Biosynthesis of Titanium Dioxide Nanoparticles for Antibacterial and Photocatalytic Activity Using <i>Justicia adhatoda</i> Leaf and <i>Cissus quadrangularis</i> Leaf Extract	Journal of Inorganic and Organometall ic Polymers and Materials		1574 - 1451	3.9	Scopus, UGC CARE
3	March 2025	Mrs. W. Maria Thereas e Ramya	Nanoscale V ₂ O ₅ anchored biodegradable PVP/PEO based polymer nanocomposites for flexible supercapacitor applications.	Journal of Molecular Liquids	422, 12690 8		5.3	Scopus

PAPER PRESENTATION BY THE FACULTY

S No	Date	Name of the faculty	Topic	Category	Organizing Committee with address	Platform
1	25.1.2025	Dr. R. Amutha	கல்வி அளவில் நலம் தரும் செயல்கள்	Faculty	உலக திருக்குறள் மையம்	Offline
2	25.1.2025	Ms. R. Leethiyal	நாட்டு அளவில் நலம் தரும் செயல்கள்	Research Scholar	உலக திருக்குறள் மையம்	Offline

PUBLICATIONS BY THE FACULTY BOOKS PUBLISHED BY THE FACULTY

S. No	Year	Name of the faculty	Name of the Book	IBBN/ISSN
1	2024	Dr. R. Amutha	Question Bank on Heat and Thermodynamics: Your Study Companion	9788198203007
2	2024	W. Maria Therease Ramya	Introduction to Energy Physics: Solar, Wind and Biomass	9788198203052
3	2024	R. Leethiyal	The Working of Home Appliances: MCQ's for Quick Learning	9788198203083
4	2024	Yuvarani	Principles of Physics: Concepts for Non-Majors	9788198203045
5	2025	Dr. R. Amutha	Comprehensive Question Bank for Allied Physics	9789334198133
6	2025	Mrs. W. Maria Therease Ramya	Principles of Physics	9789356273108
7	2025	Ms. R. Leethiyal	Home Appliance Working: A Study Course Material	9789334198386
8	2025	Mrs. A. Yuvarani	Principles of Physics MCQs : A Study Guide	97893341915

PUBLICATION BY THE FACULTY IN NATIONAL JOURNALS

PAPER PRESENTATION BY THE FACULTY

S No	Date	Name of the faculty	Topic	Category	Organizing Committee with address	Platform

1	24.08.2024 – 26.08.2024	Dr. R. Amutha	Sustainable Enhancement in waste water treatment with spray pyrolyzed ZnO thin films	International	Nirmala College for Women, Coimbatore	Offline
2	24.08.2024 – 26.08.2024	W. Maria Therease Ramya	Empowering Women Through Sustainable Innovation: Development of a Passive Solar Dryer for Medicinal Herbs	International	Nirmala College for Women, Coimbatore	Offline
3	24.08.2024 – 26.08.2024	R. Leethiyal	Sustainable TiO ₂ Nanoparticles: Empowering Women Through Cultivation and Processing of JUSTICIA ADHATODA	International	Nirmala College for Women, Coimbatore	Offline
4	24.08.2024 – 26.08.2024	A. Yuvarani	Sustainable TiO ₂ Nanoparticles for Photocatalytic Activity: Empowering Women with CISSUS QUADRANGULARIS	International	Nirmala College for Women, Coimbatore	Offline
5	15.10.2024 – 16.10.2024	Ms. R. Leethiyal	Plant mediated synthesis of TiO ₂ nanoparticles for antibacterial and photocatalytic activity	International	Dr. N. G. P. Arts and Science College	Online
6	17.10.2024 – 19.10.2024	Dr. R. Amutha	Structural Properties of Silver-doped thermally evaporated ZnTe thin films	International	SSN College of Engineering, Chennai	Offline

**DETAILS RELATED TO STUDENTS
FELLOWSHIPS AND SCHOLARSHIPS**

S. No	Name of the Student and Class	Name of the fellowship/scholarship	Funding agency	Stipend Amount
1.	Jecintha G – I B.Sc Physics	Pudhumai Penn Scheme	Government	3000
2.	Yazhisaiavani S – I B.Sc Physics	Pudhumai Penn Scheme	Government	3000

ONLINE COURSES COMPLETED BY THE STUDENTS

SL.NO	NAME	NAME OF THE COURSE	COURSE CONDUCTED BY
1	R. Abinaya	Hotel Management	Swayam Plus
		Basics of Business Statistics	
		Basics of Marketing Communication	
		Environmental Studies	
2	A. Albina	Hotel Management	Swayam Plus
		Basics of Business Statistics	
3	K. Anbarasi	Environmental Studies	Swayam
		Hotel Management	Swayam Plus
		Effective Communication	
4	C. G. Infant Jency Ruffeena	Environmental Studies	Swayam
		Hotel Management	Swayam Plus
		Basics of Business Statistics	
		Problem Solving and innovation – Advanced	
		Introducing to Employability Skills	
5	K. Jayasruthi	Environmental Studies	Swayam
		Hotel Management	Swayam Plus
		Basics of Business Statistics	
6	G. Jecintha	Environmental Studies	Swayam
		Hotel Management	Swayam Plus
		Basics of Business Statistics	
7	D. Kezia	Environmental Studies	Swayam
		Hotel Management	Swayam Plus
		Basics of Business Statistics	
		Effective Communication	
		Impactful writing skills	
		Effective speaking and listening	
		Self- Presentation	
8	R. Mahalakshmi	Environmental Studies	Swayam
		Hotel Management	Swayam Plus
		Basics of Business Statistics	
		Basics of Marketing Communication	
		Accounting Fundamentals	
		Work productivity Tools	

		Problem solving and Innovation Leadership and Management Online Communication and Data Security Obtain an Appropriate job Start-up Mindset Safety Practices Introduction to Entrepreneurship Professionalism Customer Centricity	
9	S. Yazhisaiavani	Environmental Studies	Swayam
		Hotel Management	Swayam Plus
		Basics of Business Statistics	
		Success at work	
		Self- Presentation	
		Impactful Writing Skills	
		Effective Speaking and Listening Skills	
		Self- Management	
		Interpersonal skills	
		Problem solving and Innovation	
10	G. Yogameenal	Environmental Studies	Swayam
		Startup Mindset	Swayam Plus
		Introduction to Entrepreneurship	
		Professionalism	
		Problem Solving and Innovation	
		Interpersonal Skills	
		Basics of Business Statistics	
		Hotel Management	
		Self-Management	
		Success at work	
11	K. Kasimalla Sweeti	Hotel Management	Swayam Plus
		Effective Communication	
12	S. Amina	Enhancing soft skill and personality	Swayam
		Body language	
		Leadership and management	Swayam Plus
		Online communication and data security	

		Introduction to employability skills	
13	U. P. Athira	Soft Skill and Personality	Swayam
		Body language	
		Leadership and management	Swayam Plus
		Online communication and data security	
		Introduction to employability skills	
14	A. Cathrine	English language for competitive exam	Swayam
		Physics of energy renewable resources	
		Impactful writing skills	Swayam Plus
		Effective speaking and listening skills	
15	S. Pooja	Indian poetry in English	Swayam
		Body language	
		Leadership and management	Swayam Plus
		Online communication and data security	
		Listening skills	
16	H. Sharnitha	Indian poetry in English	Swayam
		Body language	
		Leadership and management	Swayam Plus
17	M. Subiksha	Leadership and management	Swayam Plus
18	B. Dhanushika	Leadership and management	Swayam Plus

STUDENT'S PARTICIPATION IN SEMINARS

S. No	Date	Name of student	Topic	Name of the Seminar	Organizing Committee and platform	National/ International
1	23.09.2025	I, II, III B. Sc. Physics Students	From Atoms to Action: Nano Science for a Big Future	Meet the Scientist	Regional Science Centre, Coimbatore	National

CO-CURRICULAR AND EXTRA CURRICULAR ACTIVITIES

STUDENT PARTICIPATION IN INTERCOLLEGIATE/INTERDEPARTMENTAL COMPETITIONS

S. No	Date	Event	Organized by	Students Name	Participated / Won
1	6.7.2024	On spot - poetry	Srijan association	Tanya siju	1 st place
2	06.01.2025	2 Min Speech	சிறுவாணி இளைஞர் இலக்கிய திருவிழா	S. Amina	2 nd Prize – Rs. 4000/-
3	07.01.2025	உடனடி வெறக்கூ	பொது நூலக இயக்கம்	S. Amina	3 rd Prize – Rs. 3000
4	08.01.2025	விவாத மேடை	பொது நூலக இயக்கம்	S. Amina	3 rd Prize – Rs. 3000
5	12.03.2025	பேச்சு போட்டி	முனைவர் தெ. கலியாணசுந்தரம் அறக்கட்டளை	S. Amina	2 nd Prize – Rs. 1000/-

STUDENTS' PARTICIPATION IN CULTURAL/EXTRA CURRICULAR ACTIVITIES AND PRIZES

S. No	Date	Name	Event	Participation/ Prize	Organizing Committee
1	05.07.2024 - 07.07.2024	M. Subiksha	36 th Tamilnadu State Junior Athletic Championship	Third	Tamil nadu Atheletic Association at J.N Stadium ,Chennai
2	16.12.2024 – 18.12.2024	M. Subiksha	42 nd Bharathiar University intercollege athelete meet (10,000 mts)	1 st prize	Bharathiar University, Coimbatore
3	16.12.2024 – 18.12.2024	M. Subiksha	42 nd Bharathiar University intercollege athelete meet (5000 mts)	2 nd prize	Bharathiar University, Coimbatore
4	05.01.2025	M. Subiksha	Tamilnadu state Cross	4 th Prize	Villupuram District Athletic Organization

			Country meet – Vilupuram (6000 mts)		
5	07.01.2025	Tanya Siju	Siruvani ezhaingar elakkiya thiruvila-2025	3rd prize	pudhu nulaga iyakkam
6	07.01.2025	V. Sakthi Harini	Siruvani ezhaingar elakkiya thiruvila-2025	second prize	pudhu nulaga iyakkam
7	12.01.2025	M. Subiksha	59 th national cross country championship, Meerut , UP (6000 mts)	50 th Place (Participation)	Utter Pradesh Athletic Association
8	14.02.2025	Dhanushika. D	sports day/Relay	3rd prize	Nirmala College for Women
9	22.02.2025- 23.02.2025	M. Subiksha	6 th Tamilnadu state youth championship, Chennai (5000 mts, 3000 mts steplechase)	2 nd Prize	Tamilnadu Athletic Association

EXPOSURE VISITS

S. No	DATE	CLASS	PLACE	No. of days	No of students	Type
1	05.09.20 24 to 07.09.20 24	III B. Sc Physics	Mangalore & Coorg	2	12	Educational Trip
2	06.09.20 24	I B. Sc Physics	Regional Science Centre, Coimbatore	1	10	Field Visit
3	06.09.20 24	II B. Sc Physics	Mighty Electronics Equipment's Corporation, Coimbatore	1	10	Industrial Visit
4	13.03.20 25	I B. Sc Physics	Bhavani Sagar	1	11	EVS TRIP

BEST PRACTICES OF THE DEPARTMENT

SL. No.	DATE	DEPT	ACTIVITY
1	10.02.2025	Physics	Survey on Energy consumption in Houses