

Department of Medical Physics – AY 2024-25

Department Activities

Guest Lecture / Invited Lecture

S. No.	Date	Name and Designation of the Resource Person	Topic
1.	07-Oct-24	Dr.R.Rajasekaran, Assistant Professor, Sri Sairam Institute of Technology, Chennai.	Role of Non ionizing Radiation in medical Diagnosis and Research Applications
2	22-Aug-24	Mr. Giridharan M.Sc., RSO Chief Medical Physicist cum RSO Clear Medi Radiant Hospital, Mysore.	Brachytherapy TG – 43 Formalism

Endowment Lecture

S. No.	Date	Name and Designation of the Resource Person	Topic
1.	20-Feb-25	Dr. S. Thirunavukkarasu, Senior Assistant Professor in Radiological Physics cum RSO, Government Medical College and Hospital, Chidambaram,	Radiation Safety for Medical Physicists in Diagnostic Radiology

Seminar / Workshop / Conferences organized

S. No.	Date	Nature of the Event (Conference/ Seminar/ Workshop)	Title of the Event	Resource Person
1.	10-Oct-24	International Workshop	Advanced Radiotherapy: Flash Therapy	Dr. S. Balaji Postdoc Research Fellow Newyork Proton Centre, USA

Student Development Programme

S. No.	Date	Title	Resource Person
1.	21-Jan-25	Quality Assurance Tests and its importance in Radiotherapy	Mr. P. Jaisurya II M.Sc. Medical Physics
2.	19-Dec-24	Advancements in Imaging Modalities	Ms. P. Moncy I M.Sc. Medical Physics
3.	30-Sep-24	Radiation Based IGRT Systems	Ms. R. Deepika II M.Sc. Medical Physics

Faculty Professional Development Programme

S. No.	Date	Title	Resource Person
1.	27-Jan-25	Artificial Intelligence in Medical Physics	Mrs. K. Indhumathi Assistant Professor Department of Medical Physics
2.	11-Dec-25	Potential Role of Small Molecules as Anticancer Drugs	Mrs. G. Daisy Assistant Professor Department of Medical Physics
2.	16-Sep-24	Computational Methods in the Design of Anticancer Drugs	Mr. D. Sivakumar Assistant Professor & Head Department of Medical Physics

Alumni Interaction

S. No.	Date	Title	Alumni
1.	19-Sep-24	Career Pathways in Medical Physics	Mr. R. Isaivanannan Resident Medical Physicist, Department of Radiotherapy

			Acharya Tulsi Regional Cancer Treatment & Research Institute, Bikaner
2.	15-Jul-24	Internship Opportunities for Medical Physics in India: An Overview	Mr. L.K. Harihara Sudhan Resident Medical Physicist, St. Johns Medical College Hospital Bengaluru, Karnataka

Extension Activities

S. No.	Date	Nature of the extension	Place	Students involved
1.	01-Feb-25	Energy Literacy Awareness	Karamadai	II M.Sc.Medical Physics

Co-curricular Activities

S.No	Date	Name of the Event
1.	20-Feb-25, 10-Mar-25 & 11-Mar-25	Visiting faculty Lecture on “Magnetic Resonance Imaging”
2.	04-Feb-25	Awareness Program on World Cancer Day
3.	20-Jan-25 to 01-Feb-25 & 24-Feb-25 to 05-Mar-25	Field training at Department of Radiation Oncology, Kovai Medical Center and Hospital

Hospital Visit

S. No.	Date	Place	Students involved
1.	28-Sep-24	Sudha Cancer Hospitals, Erode	I M.Sc. Medical Physics Students

Department Achievements

Awards and Prizes for Staff

S.No	Date	Name of the Staff	Name of the Award	Awarded by
1	04-Jul-24 to 05-Jul-24	Mrs. G. Daisy	Best Paper Award	Dr.NGPASC

Staff Recognitions

S. No.	Date	Name of the Staff	Nature of Recognition	Organization / Institution
1	24-Sep-24	Mrs. G. Daisy	Resource Person on Knowledge Exchange Program	Dr.NGPASC

Staff Participation

S. No.	Date	Name of the Staff	Event	Organization / Institution
1	15-Mar-25	Mrs. K. Indhumathi	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	Association of Medical Physicist in India-TN & PY
2		Mrs. G. Daisy		
3	27-Jan-25	Mr. D. Sivakumar	FDP on “Innovative Trends in Designing Materials and Mathematical Modeling for sustainable development”	Vivekanandha Arts and Science College for Women, Sangagiri
4		Mrs. G. Daisy		

5	08-Jan-25 to 09-Jan-25	Mr. D. Sivakumar	International Conference on Innovations in Chemical Sciences (ICS-2025)	Dr.NGPASC
6	08-Nov-24 to 10-Nov-24	Mr. D. Sivakumar	45 th Annual Conference of AMPICON on “Impact of Medical Physics research on human health”	Association of Medical Physicist in India
7	23-Oct-24 to 24-Oct-24	Mrs. K. Indhumathi	International Conference on “Recent Advances in Materials and Computational Methods”	Arignar Anna Government Arts & Science College and Dr.Kalaignar Karunanidhi Government Institute of Postgraduates Studies and Research, Karaikal.
8	26-Sep-24	Mrs. K.Indhumathi	EFOMP Webinar on “New Advanced in reference Dosimetry and In -situ Calorimetry	European Federation of Organizations for Medical Physics
9	19-Aug-24 to 24-Aug-24	Mrs. K.Indhumathi	National FDP on “Technology Integration in Learning and Teaching”	Seethalakshmi Ramaswami College, Tiruchirappalli

Staff Publications

S. No.	Name of the Faculty	Title	Journal Name	ISSN / ISBN No. Date of publishing Vol. No.	Impact Factor	SCI/WoS/UGC/ SSCI/Scopus
1.	Mrs. K. Indhumathi	Design of Hybrid Bi-Zr Perovskite Polymer Nanocomposites for Multifunctional High-Performance Electrochemical and Photonic Applications	Journal of Polymer Research	28-Oct-24 Volume 31, article number 331, (2024)	2.6	Scopus

Students Participation

S. No.	Date	Name of the Student(s)	Event	Organization / Institution	Prize won
1	15-Mar-25	Mr. V. Manoranjith II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	AMPI TN-PY 2024	Best Poster- Student Category Award with a cash Prize of Rs.3000/-
2	16-Dec-24	Mr. Poovizhi Rajan, I M.Sc. Medical Physics	Mobile Photography	Dr. NGPASC	I Prize (Rs.1000/-)
3	16-Aug-24	Mr. V. Manoranjith II M.Sc. Medical Physics	Essay Competition in VIGYAN-2024-JAM	Dr. NGPASC	III Prize
4	04-Jul-24 to 05-Jul-24	Mr. S. Arun Kumar, Mr. V. Manoranjith II M.Sc. Medical Physics	National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective (ICSSRIKS2024)	Dr. NGPASC	Best Paper Award

Staff Presentation

S. No.	Date	Name of the Staff	Name of the Event	Title of Presentation	Organization / Institution
1.	15-Mar-25	Mr. D. Sivakumar	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	“Halogenated Chalcone Derivative of 1,2,3-Triazole from 4-No ₂ Aniline”	Association of Medical Physicist in India- TN & PY
2.	15-Oct-24 to 16-Oct-24	Mr. D. Sivakumar Mrs. K. Indhumathi	International Conference on “Smart NextGen Nanomaterials for Sustainable Development of Energy and Environment – An Interdisciplinary Approach	Computational Methods in Design and Delivery of Anticancer Drugs	Dr. NGPASC

3.	15-Oct-24 to 16-Oct-24	Mrs. G. Daisy	International Conference on “Smart NextGen Nanomaterials for Sustainable Development of Energy and Environment – An Interdisciplinary Approach	Molecular Modelling for Anticancer Drug Design	Dr. NGPASC
4.	04-Jul-24 to 05-Jul-24	Mr. D. Sivakumar	National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective (ICSSRIKS2024)	Integrative Approaches to Ayurveda, Yoga and their Impact on Healthcare Education	Dr. NGPASC
5.	04-Jul-24 to 05-Jul-24	Mrs. K. Indhumathi	National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective (ICSSRIKS2024)	Cultural Legacy in Food Preservation: Traditional Methods and their Modern Relevance The Impact of Traditional Indian Spices on Human Health	Dr. NGPASC
6.	04-Jul-24 to 05-Jul-24	Mrs. G. Daisy	National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective (ICSSRIKS2024)	Indigenous Medicinal Plants and Chemistry: Application in Treatment of Cancer The Evolution of Indian Regional Costumes And their Role in Cultural Identity	Dr. NGPASC

Students Presentation

S. No.	Date	Name of the Student	Name of the Event	Title of Presentation	Organization / Institution
1	15-Mar-25	Ms. N. K. Adithya II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	An Investigation of Photon energy, Field Size, SSD effects on PDD and Profile measurements on Elekta Synergy Linear Accelerator using Standard imaging 3D Dose view Radiation Field analyzer.	Association of Medical Physicist in India- TN & PY

2	15-Mar-25	Mr. S. Arun Kumar II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	Deep Inspiration Breath Hold Based Surface Guided Radiotherapy: Influence of Flattening Filter Free Photon Beam on Left Side Breast VMAT Plan Delivery	Association of Medical Physicist in India- TN & PY
3	15-Mar-25	Ms. R. Deepika II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	A Study of Minimum Segment Width Parameter on VMAT Plan Quality, Delivery, Accuracy, Patient Specific QA and Efficiency for Cervical Cancer Using Monaco TPS and IBA 2D Array Detector with MYQA Patients	Association of Medical Physicist in India- TN & PY
4	15-Mar-25	Ms. D. Dhivya II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	Determining The Virtual Source Position of Therapeutic Electron Beam Using Two Independent Methods	Association of Medical Physicist in India- TN & PY
5	15-Mar-25	Mr. P. Jaisurya II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	Evaluation of VMAT Approches for Craniospinal Irradiation (CSI) : Halcyon Vs Truebeam Hyperarc	Association of Medical Physicist in India- TN & PY
6	15-Mar-25	Mr. V. Manoranjith II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	Impact of Window Level on DIBH Gated Left Breast Treatment	Association of Medical Physicist in India- TN & PY
7	15-Mar-25	Mr. M. Mounisvarma II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	Monitoring The Deep Inspiration Breath Hold (DIBH) for Chest Wall Cases with an In-house Developed Indicator System	Association of Medical Physicist in India- TN & PY
8	15-Mar-25	Mr. T. Prabhakaran II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	Dosimetric Comparison of Manchester Style and Fletcher Style Intracavitary Brachytherapy Applicator System in Cervical Cancer	Association of Medical Physicist in India- TN & PY

9	15-Mar-25	Mr. M. Ravishankar II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	A Dosimetric Comparison of Gamma Index Amorphous Silicon EPID and 2D Array Detector Using VMAT Technique for Different Clinical Sites	Association of Medical Physicist in India- TN & PY
10	15-Mar-25	Mr. K. Praveen Kumar II M.Sc. Medical Physics	27 th Annual Conference of Association of Medical Physicists of India (TN & PY Chapter)	Commissioning and Quality Assurance of Halcyon Linear Accelerator	Association of Medical Physicist in India- TN & PY
11	04-Jul-24 to 05-Jul-24	Ms. N.K. Adithya, Mr. M. Mounishvarma II M.Sc.Medical Physics	National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective (ICSSRIKS2024)	Cultural Legacy in Food Preservation: Traditional Methods and their Modern Relevance	Dr. NGPASC
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13	04-Jul-24 to 05-Jul-24	Mr. S. Arun Kumar, Mr. V. Manoranjith II M.Sc.Medical Physics	National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective (ICSSRIKS2024)	Indigenous Medicinal Plants and Chemistry: Application in Treatment of Cancer	Dr. NGPASC
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19	04-Jul-24 to 05-Jul-24	Mr. T. Prabhakaran	National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective (ICSSRIKS2024)	Integrative Approaches to Ayurveda, Yoga and their Impact on Healthcare Education	Dr. NGPASC
20		Mr. K. Praveen Kumar II M.Sc.Medical Physics			

Book / Book Chapters Publications

S.No	Date	Name of the Staff	Name of the Book	Name of the Publisher	Year of publication	ISBN
1.	04-Nov-24	Mrs. K. Indhumathi	Introduction to Energy Storage and Conversion in Materials for Boosting Energy storage -Volume -1	ACS	2024	9780841296655