

Bharathiar University

State University I "A++" Grade by NAAC I 26th Rank in MoE-NIRF Maruthamalai Road. Coimbatore. Tamil Nadu - 641 046.

Dr C S SUREKA

Associate Professor & Head i/c Department of Medical Physics

Bharathiar University

Tamil Nadu

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Research Area Courses Teaching

- Radiation dosimetry includes Monte Carlo aided dosimetry,
- Biological dosimetry and Nanodosimetry
- Radiation Safety

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- Radiation Detection and Measurement
- External Beam Radiation Therapy
- Radiation Biology
- Radiation Protection
- Radiation Hazards Evaluation and Control
- Radiation Dosimetry and Calibration
- Nuclear Medicine and Internal Dosimetry

Research Experience: Teaching Experience:

Research Credentials (as on June 2024 – Source: Google scholar)

H-index: 237 Citations: 8 i10-index: 7

Patents: Granted: 1

Publications

Books/Chapters: 2 National Journals: 3 International Journals: 2

Institutional Responsibilities

Member of Internal Complaints Committee (ICC)

Period :Oct 2020 to Till date Nature of Responsibility :

Senate Member of Bharathiar University

Period :Apr 2020 to Till date Nature of Responsibility :

Collaborations

1. Society for Applied Microwaves Electronics Engineering and Research (SAMEER) - 2021-12-01)

Publications

International Journals - 2

2. Fabrication and Dosimetric Characteristics of Silicon Elastomer-Based Bolus Using External Beam

Radiotherapy

Journal Name: Asian Pacific Journal of Cancer PreventionVol.:24Page No.:141-47Impact Factor:2.514 (January 2023) M Boopathi, D Khanna, P Venkatraman, R Varshini, C S Sureka, S Pooja

1. An In-Vitro study for early detection to and distinguish breast and lung malignancies using the PCB

technology based nanodosimeter

Journal Name:Scientific ReportsVol.:9 Page No.:1-16Impact Factor:4.01 (January 2019)

P.Venkatraman and C. S. Sureka

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Books/Chapters - 2

2. Artificial Intelligence Theory, Models and Applications (Chapters 4 and 6)

Edited by: P. Kaliraj and T. DeviPublishers: CRC Press, Taylor & Francis Group, New York, USAISBN: 9781003175865 (October 2021)Sureka

1. Radiation Biology for Medical Physicists

Publishers:CRC Press, Taylor & Francis Group, New York, USAISBN: 9781498765893 (October 2017) C. S. Sureka & C. Armpilia

National Journals - 3

3. Variance reduction techniques used in the EGSnrc Monte Carlo code to improve ion-chamber dose calculation efficiency

Journal: Journal of Medical PhysicsVolume No.:43Page No.: 185-194 (December 2018)

S. Sangeetha and C. S. Sureka

2. A homogeneous water-equivalent anthropomorphic phantom for dosimetric verification of radiotherapy

plans

Journal: Journal of Medical PhysicsVolume No.:43Page No.:100-105 (December 2018) Manikandan Arjunan, Sureka Chandra Sekaran, Biplab Sarkar, Sujatha Manikandan

1. Quality Assurance and Average Glandular dose measurement in mammography units

Journal: Journal of Medical PhysicsVolume No.:42Page No.: 181-190 (December 2017) C Senthamil Selvan, and C. S. Sureka

Patents

Granted - 1

1. An efficient instrument to detect ions and its applications 01-1970 Patent No.: 333366 Grant Sl.No.: 044117957

Dr. C. S. Sureka and Dr. P. Venkatraman

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