



BHARATHIDASAN UNIVERSITY

TIRUCHIRAPPALLI – 620 024

Department of Biomedical Science

Cordially invite you for the

Special Guest Lecture

On

“Blueprints & Heartbeats:

**When Engineers and Doctors Dream
Together**

– The Power of Collaborative Intelligence”

Date : 2nd July, 2025

Venue : AC Auditorium

Time : 10.30 am



GUEST SPEAKER



Dr. Sivakumar Manickam

Lead Consultant Pediatric Radiologist

Mid and South Essex NHS University

Hospitals Trust, England

Hon. Sr. Clinical Lecturer,

Kings College, London.

ALL ARE INVITED

Dr. G. Mathan

Professor and Head

Department of Biomedical Science

Bharathidasan University, Tiruchirappalli - 620 024.



Report on the Special Guest Lecture

“Blueprints & Heartbeats: When Engineers and Doctors Dream Together – The Power of Collaborative Intelligence”

Date: 2nd July, 2025

Venue: A/C Auditorium, Bharathidasan University

Time: 10:30 A.M.

The Department of Biomedical Science, Bharathidasan University, Tiruchirappalli, hosted a distinguished special lecture on the theme **“Blueprints & Heartbeats: When Engineers and Doctors Dream Together – The Power of Collaborative Intelligence”** on 2nd July 2025 at the A.C. Auditorium. The event brought together academia, medical professionals, and aspiring students to explore the transformative potential of interdisciplinary collaboration in healthcare innovation.

The Vice-Chancellor Committee member, Dr. V. Rajesh Kannan, graced the occasion. The event attracted an elite audience of over 150 attendees, including faculty members, biomedical researchers, research scholars, project trainees, and students — all united by a shared passion for precision medicine and the transformative role of AI in reshaping healthcare.

The chief guest and keynote speaker for the occasion was **Dr. Sivakumar Manickam**, Lead Consultant Paediatric Radiologist, Mid and South Essex NHS University Hospitals Trust, England, and Honorary Senior Clinical Lecturer at King’s College, London. Dr. Manickam is a globally recognized expert in paediatric imaging and a passionate advocate for cross-disciplinary approaches in medical problem-solving.

The session commenced with the **Thamizh Thaai Vaazhthu**, followed by the ceremonial **lighting of the Kuthuvilakku**, symbolizing wisdom and knowledge. Esteemed dignitaries and faculty members graced the stage to inaugurate the event. **Dr. G. Mathan**, Head of the Department of Biomedical Science, extended a warm welcome to all attendees with his

inspiring welcome address. This was followed by a formal introduction of the guest speaker by **Dr. K. PremKumar**, Professor, Department of Biomedical Science, who highlighted Dr. Sivakumar Manickam's academic journey, achievements, and contributions to paediatric radiology and collaborative research.

The special lecture by **Dr. Sivakumar Manickam** was the highlight of the event. His talk delved into the dynamic interface of medicine and engineering, illustrating how collaborative intelligence between these domains is shaping the future of diagnostics, treatment, and patient care. Drawing from real-world examples and his own research experience, Dr. Manickam emphasized the importance of innovation, empathy, and teamwork in modern healthcare. His engaging narrative not only enlightened the audience on current trends but also encouraged students to think beyond traditional academic boundaries.

Following the lecture, a vibrant **interactive session** was held, where students and faculty posed insightful questions, making it a truly enriching experience. One of the key takeaways from this engagement was the recognition that the greatest value in AI-driven medicine arises when collaboration begins early. Historically, clinicians have often been brought in during the final stages of software development after key design and data decisions have already been made. This delayed involvement frequently results in tools that may be technically advanced but clinically misaligned.

However, when medical professionals are involved at the inception of AI tool development, the results are dramatically different. This early integration helps identify latent clinical challenges, nuanced diagnostic needs, and real-world variables that often escape the scope of engineering-only teams. The result is software that is not only innovative but clinically relevant, intuitive, and impactful.

The session concluded with a **Vote of thanks** delivered by **Dr. S. D. Saraswathy**, Associate Professor, Department of Biomedical Science, who expressed heartfelt gratitude to Dr. Sivakumar Manickam, the organizing team, faculty members, and students for making the event a grand success.

Photo Gallery



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