

About The Institute

Vellore Institute of Technology (VIT) was founded in 1984 and attracts students from around the world due to its academic excellence. The credentials of VIT in academics and research have placed 14th position among the research and 14th position in the university category in India by NIRF, Govt. of India. The world ranking body, namely the QS, has given 4 STAR rating to VIT, with which VIT becomes the first institution in India to have the 4 STAR rating. In addition to this, the consortium of industries, FICCI, has adjudged VIT as the "Excellence in Faculty". VIT has completed 4 cycles of NAAC accreditation and has been rated as an "A++" grade institution. VIT has introduced many innovations in academic processes, such as FFCS (Fully Flexible Credit System), PBL (Project-Based Learning), which adds value to every student for better learning. Fully digitalized academic portals and library access assist the students in equipping themselves for the 2027 marketplace. Hack-a-thon, Math-a-thon, Stat-a-thon as part of curriculum exercise (which kindles the interest and the curiosity of students and motivates them to be better problem solvers) of the last module in every subject being handled by the industrial experts, making the students contextualize the concepts they study in the classroom, are a few of the innovations that VIT has introduced in their learning system. Furthermore, VIT excels in core sciences, with Electrical & Electronics Engineering ranking 6th in India (87 globally), while Chemistry ranked 9th in India (251-300 globally).

School of Electronics Engineering (SENSE) and Dept. of Sensor and Biomedical Technology

The School of Electronics Engineering (SENSE) at VIT imparts state-of-the-art knowledge in Electronics and Communication Engineering, supported by advanced laboratories in VLSI, Embedded Systems, Sensors, and Nanotechnology. Faculty are actively engaged in R&D projects funded by agencies such as DRDO, ISRO (RESPOND), and DST.

The Department of Sensor and Biomedical Technology focuses on education and research at the interface of engineering and healthcare, specializing in biosensors, medical devices, biomaterials, and diagnostics. With strong interdisciplinary training and modern facilities, the department prepares students to address real-world healthcare challenges through innovation and translational research.

School of Advanced Sciences (SAS) and Dept. of Chemistry

The School of Advanced Sciences (SAS) at VIT is a school of excellence in fundamental and interdisciplinary sciences, encompassing Physics, Chemistry, and Mathematics. Within this ecosystem, the Department of Chemistry advances education and research in areas such as materials chemistry, energy storage devices, nanotechnology, environmental chemistry, and electrochemistry. Supported by state-of-the-art laboratories, faculty engage in interdisciplinary research funded by agencies like DST, CSIR, and DRDO. It prepares graduates for impactful careers in academia, industry, and research, contributing to global scientific and technological advancement. The school also offers valuable services to other institutions and regularly conducts extension programs.



VIT[®]

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Workshop on Advanced Characterization Techniques for Metal-Based Siddha Formulations



9th April, 2026

PRP, C1-Block, Room no. 404

Medical Imaging lab

Organized by

School of Electronics Engineering
& School of Advanced Sciences
Vellore Institute of Technology

Vellore - 632014



Honorable Patron



Dr. G. Viswanathan, Founder & Chancellor

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Dr. Sekar Viswanathan, Vice President

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Dr. Jasmin Pemeena Priyadarsini M, Dean / SENSE

Dr. Dr. K Karthikayan, Dean / SAS

Co-Chairpersons

Dr. Sakthivel R, Asso. Dean / SENSE

Dr. Rajan Babu D, Asso. Dean / SAS

Conveners

Dr. Sathya P, HoD / SBST/ SENSE

Dr. Karpagam S, HoD/ SAS

Co-ordinators

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Technical Program Schedule

Session 1: 10:00 – 10:45 a.m.

Fundamentals of Advanced Characterization of Incinerated Metal-Based Systems

Session 2: 10:45 – 11:45 a.m.

Microstructural and Elemental Analysis using SEM and TEM

Tea Break: 11:45 – 12:00 p.m.

Session 3: 12:00 – 1:00 p.m.

Phase Identification of Incinerated Metals using Powder X-Ray Diffraction (PXRD)

Lunch Break: 1:00 – 2:00 p.m.

Session 4: 2:00 – 3:00 p.m.

Molecular and Structural Characterization using Spectroscopic Techniques (FTIR, Raman, NMR, UV-Vis)

Session 5: 3:00 – 4:00 p.m.

Particle Size, Surface Charge, and Colloidal Stability Analysis (DLS & Zeta Potential)

Tea Break: 4:00 – 4:15 p.m.

Session 6: 4:15 – 5:00 p.m.

Morphological Examination of Metal Formulations using Optical Microscopy (Hands-on)

Veledictory 5:00 - 5:30 p.m.



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Target Audience

Faculties, Research Scholars, and UG/PG students.

Registration

◆ The number of participants is restricted to 35 (FCFS).

◆ A certificate will be provided on successful completion.

Fee: Rs. 600 /- (including GST)

👉 <https://events.vit.ac.in>



Speakers

Dr. Subhathirai S P, Asst. Professor / SENSE

Dr. Krishna Rao Eswar N, Asso. Professor / CNBT

Dr. Ganesh Babu S, Asst. Professor / SAS

Dr. Pratheepkumar Annamalai, Asst. Professor / SAS

Dr. Agnishwar Girigoswami, Professor / Medical Bionanotechnology, Chettinad Hospital & Research Institute, Chennai.