

Bridging the Gap: Medicine and Engineering

At VIT's School of Healthcare Science and Engineering (SHINE), we drive healthcare innovation by integrating engineering, science, and medicine. Our interdisciplinary curriculum, paired with an industry-driven approach, offers hands-on training and real-world exposure through collaborations with leading healthcare organizations, preparing graduates to tackle complex challenges and lead advancements in the field.



Faculty Team



Prof. Geetha Manivasagam
Material Science
Biophysics
Biomaterials

Dr. Yogendra Pratap Singh
3D Bioprinting
Tissue Engineering
Medical Devices

Dr. Kishor Lakshminarayanan
Bioengineering
Brain-Computer Interface
Neurorehabilitation, VR/AR

Professor of Practice



Dr. Joseph Vettukattil
Cardiologist, Director,
IAMRAI, Michigan Tech
University, USA.

Dr. K R Balakrishnan
Chairman, Cardiac
Sciences
MGM Healthcare Pvt Ltd

Dr. Azad Sait
Consultant Orthopedic Surgeon
Sahrudaya Hospital
Kerala

Adjunct Faculty



Dr. Adi Idris
Faculty of Health,
School of Biomedical Sciences,
Queensland University of
Technology, Australia

Dr. Namasivayam Ganesh Pandian
Kyoto University for Advanced
Study,
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VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Research and Consultancy Brochure



**SCHOOL OF HEALTHCARE SCIENCE
AND ENGINEERING (SHINE)**
-VIT VELLORE-



Interactive Anatomy and Physiology Lab / Neurological and Physiological Monitoring Tools

Meta Quest 3 VR Headsets

The Digital Anatomy Table

BCI-Capable EEG System (OpenBCI)

Nerve Conduction Test Machine (Allengers)

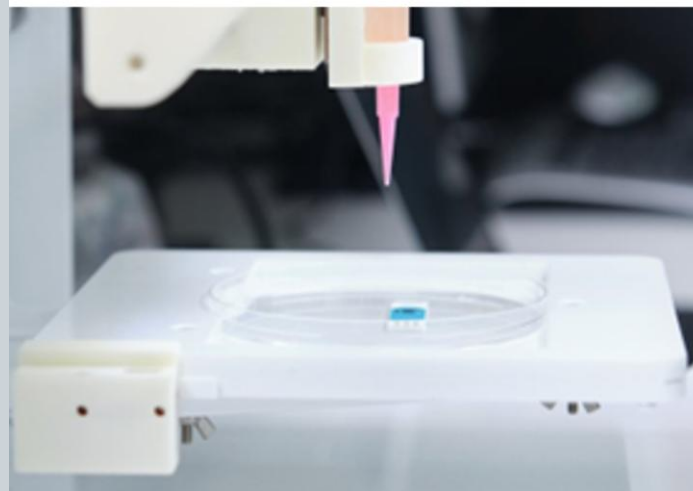
3D Bioprinting Solutions / 3D Printed Porous Metal Products

3D bioprinting for tissue fabrication

Precision bioprinting for organotypic constructs and complex geometries

Custom porous metal implants with precise, complex design integration.

Tailored porosity and geometry solutions for unique applications.



Biocompatibility and Preclinical Assays / In Vitro Disease Models

Immunomodulatory testing using primary cells and immune models

Customized biocompatibility studies for biomaterials and medical devices

Custom disease models for pharmaceutical and biotech R&D