

**Centre Name** : Healthcare Technology Innovation Centre

**Venue** : 29005

**Centre Head** : Dr. M.Valliammai

**Qualification** : M.E., Ph.D.,

### TECHNICAL MANPOWER

**Junior Research Fellow:** Ms. S. Kalpana Priyatharchini  
**Qualification:** M.E – Biomedical Engineering

### DESCRIPTION ABOUT THE LABORATORY

- Healthcare Technology innovation centre is focused on the synthesis, fabrication, characterization and bio-functionalization of optically active noble-metal nano-particles for various biomedical devices development. Further, the centre emphasizes the deep learning and quantum computing based behaviour prediction for fiber optic biosensors for various non-communicable diseases.
- Our centre deals with interdisciplinary field related to optics, electronics, nano-materials as well as nanostructures.

### RESEARCH FACILITIES



Tungsten Halogen Light source    Power meter    Fiber Splicer    Syringe Pump

### ACHEIVEMENTS AND AWARDS

- Published 1 patent, 4 peer-reviewed articles in SCI-indexed journals and presented at 4 international conferences.
- Facilitated student exchange: 6 students interned at Tamkang University, Taiwan.



### LABORATORY SPACE AND STUDENT ALLOCATION

**Area of the Laboratory** : 60sq.m  
**Weekly Utilization Status** : Open  
Access for Research & Development Activities

### COST OF THE LABORATORY

**DST-GITA funded worth of Rs. 19, 11,200/-**

### COLLABRATIONS



Prof. Lung-Jieh Yang, Tamkang University, Taiwan



Prof. Chua-Chin Wang, National Sun Yat-Sen University, Taiwan



Prof. Balasubramanian Esakki from National Institute of Technical Teachers Training and Research, Chennai

### SPONSORED PROJECT

Title	Agency	Amount (₹)	Duration
Devisin point - of - care diagnostic microchip biosensor for early diagnosis of cardiovascular disease	DST-GITA	40.95 L	2023-2026 3 Years (on-going)
Development of a cost effective fiber-optic biosensor for PCOS diagnosis	Vel Tech	1.79 L	1 Year (Completed)