



**Dr. M. Valliammai**  
**Professor**  
**Department of Electronics and Communication**  
**Engineering**  
**Vel Tech Rangarajan Dr. Sagunthala R&D Institute of**  
**Science and Technology**  
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**Dr. M. Valliammai** is a distinguished academic and experienced researcher in the field of Photonics Engineering. Her groundbreaking work lies at the intersection of **photonics and biomedical applications, including lab-on-chip systems, biosensors, and neural network-based behavior prediction** which particularly aimed at the early diagnosis of metabolic disorders. Her research holds significant promise for advancing real-world healthcare through the development of ultrafast fiber lasers, optical sensing, and computational modeling techniques. Dr. Valliammai has established exclusive collaborations with Prof. Lung-Jieh Yang of Tamkang University and Prof. Chua-Chin Wang of National Sun Yat-sen University, Taiwan, under the Indo-Taiwan joint project initiative. With numerous international partnerships, publications in high-impact journals, granted patents, and ongoing research funding from prestigious agencies such as DST and DBT, her laboratory fosters a dynamic and interdisciplinary research environment.

#### **Looking for PhD students to work in the following areas**

- Fiber Laser Development.
- Optical Sensor for Environmental and Biomedical Applications.
- AI/ML/DL for prediction behaviour of optical sensor.
- Nano Sensor for Healthcare applications.

#### **Facilities available**

- ✓ Surface plasmonic resonance based optical sensing system
- ✓ Q-switched fiber laser
- ✓ Other necessary facilities for research activities

#### **Benefits and opportunities**

- Monthly fellowship of Rs. 25,000/- for three years
- Publication in SCI-indexed high impact journals
- National and International collaborations

#### **Contact details**

##### **Dr. M. Valliammai**

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