



**Avinashilingam Institute for Home Science and Higher Education for Women
School of Engineering
Varapalayam, Coimbatore - 641108**

Centre for Manufacturing and Emerging Technologies (CMET)

The Centre for Manufacturing and Emerging Technologies (CMET) facility is created in Campus II (Ayya Avinashilingam Nagar, Varapalyam, Coimbatore - 641108) with around 2500 square feet. The center has contemporary equipment, machinery, design software and testing facilities. The center will cater to carry out research activities, consultancy and product development in the emerging areas.

Objectives:

- ❖ Technology Generation
- ❖ Partnership with Academia/ Institutions and Industries
- ❖ Providing Consultancy and Support
- ❖ Applying for Research Funding preferably for Product Development

Areas of Research:

- | | |
|----------------------------------------------------------------|--------------------------------------|
| ✚ Advanced Robotics and controls | ✚ Additive Manufacturing |
| ✚ Material Processing and Modeling including Nano fluids | ✚ Energy Conversion and storage |
| ✚ Big data analytics | ✚ Cyber security and Forensic |
| ✚ Preservation through natural resources like spices and herbs | ✚ Food Processing and Packaging |
| ✚ Thick film Technology | ✚ Reuse of building demolished waste |

Facilities Available:

- a. **Design and Analysis facility** consists of Simulation and design software tools, prototyping hardware, analytic instruments for various applications.
- b. **Fabrication and Synthesis facility** consists of chemical synthesis, food analysis and screen-printing facility.

