

**Entrepreneurship Development Programme**  
**On**  
**Microencapsulation methods for**  
**food and biotechnological applications**



**Training Modules**

- Methods of microencapsulation such as twin fluid nozzle encapsulation, membrane emulsification, sonicator, high pressure homogenizer. It will also cover some aspects of nanoencapsulation
  - Probiotics and prebiotics in food
  - Immobilization of enzymes and microbes
  - Immobilization and controlled release of antimicrobials
  - Production of microcapsules using microencapsulator, spray chilling system, particle size measurement, FTIR and other characterization methods
  - Hands on training of optimization of microencapsulation using microencapsulator developed and comparison with other methods
- ✓ **For Farmers/Entrepreneurs/Unemployed Youth/Students**  
✓ **EDP starting from 16-18 Nov, 2021**  
✓ **No age limits. Limited participation. First Come First Served**

**Fee:** ₹ 2000/- per EDP

**Location:** ICAR-CIPHET, Ludhiana Punjab

**Accommodation:** Limited, on payment basis, and following Covid-19 protocols.

**Contact:** Transfer of Technology Division,  
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