



CSIR-NIIST, Thiruvananthapuram
(Under CSIR, Ministry of Science & Technology, Govt. of India)

Innovative Building Materials from Industrial By-Products Cost-Effective, Alternate Strategies for Sustainable Business

Mining, Mineral, Metal Processing and Metal Casting Industries in India generates different kinds of inorganic solid materials as by-products. They are safely stored as sludge, residue and ash.

Industrial Inorganic Solid Wastes Management for the benefits of MSMEs mainly Brick and Tile Sectors is an active field of research in CSIR NIIST.

CSIR NIIST designed range of innovative building materials from industry by-products through novel techniques. The knowledge base is generated and available for any Start-ups, Entrepreneurs, and Young Engineers.

This skill-development program, empower the participants to understand the scientific and technical aspects of the various industrial by-products, its' origin & chemistry, the reactivity, role of various chemical bonding techniques and explore the art of manufacturing cost-effective, innovative building materials for sustainable business.

Topics Covered:

- Inorganic by-products from mining, mineral, and metal casting industries
- Scientific background and chemical nature of the by-products
- Chemical activation and reactive gel curing
- Silicate Binders
- Innovative building materials for sustainable business
- Standard characterization techniques
- Manufacturing Processes
- Plant & Machinery

Mode of training: Online

Schedule: October 7-8, 2021
(morning session)

Eligibility: Any Graduate / Self-Employer / Entrepreneur

Apply online:

<http://sdp.niist.res.in>

Course fee: Students: 1000/-

Companies / Faculties /Govt. bodies :10,000/-

Payment Mode: Online

Resource person:

Dr. S. Ananthakumar
Chief scientist, CSIR-NIIST Trivandrum

Interested participants please contact
Shri. V.Moni, Principal Scientist
Skill Development Cell