



# E-waste Resource Engineering & Management (EREM)

Two Years M.Tech. Program Jointly offered by

**Indian Institute of Technology Hyderabad (IITH)**

**&**

**Centre for Materials for Electronics Technology (C-MET)**

## ABOUT PROGRAMME

M.Tech in E-waste Resource Engineering & Management (EREM) is being offered, from academic year 2020, jointly by IIT Hyderabad and C-MET. This M.Tech. program will catalyse the efforts towards E-waste management in the country and worldwide and will provide a necessary support for several of Government initiatives in this direction such as Skill India, Swachh Bharat, Waste-to-Wealth initiatives. **This programme supported by Ministry of Electronics and Information of Technology, Govt. of India.**



## ABOUT IIT HYDERABAD

IIT Hyderabad is one among the 2nd generation of IITs started by the Govt. of India. The very foundation of IIT Hyderabad is based on research and innovation. The vibrant research culture is evident from the number of patents and publications that IITH has. IITH is creating a unique holistic educational ecosystem that offers interactive learning, a highly, flexible academic structure, cutting-edge research, strong industry collaboration, and entrepreneurship.

## RESEARCH FACILITY

COE host incubation facilities to create prototypes for addressing various E-waste recycling issues, viz., dismantling, designing and automation of various process equipment for environmentally friendly recycling of PCBs, recovery of precious metals, separation of rare earth oxides from spent phosphors, recovery of Li & Co from Li-Ion batteries, Application of artificial intelligence in optimization of supply chain management and life cycle analysis, nurturing of start-ups, and provide training to Indian electronics and electrical industries complying with E-waste (Management) Rules 2016.

## ABOUT C-MET

The Centre for Materials for Electronics Technology (C-MET), a premier R&D organization under ministry of electronics and information technology, Govt. of India. C-MET envisions attainment of self-sufficiency in the sphere of Electronic materials, components and devices to cater to India's strategic and industrial applications, exploiting indigenous resources of raw materials. Centre of Excellence (COE) on E-waste management and RoHS laboratory have been set up with state-of-the-art R&D infrastructure at its Hyderabad campus.

## WHY YOU SHOULD JOIN?

E-waste Resource Engineering and Management is the first kind of two-year post-graduate programme stated in the country to effectively manage e-waste. This is the one program that emphasizes all engineering and management skills to focus on the circular economy, resource efficiency, life cycle analysis, and business models for entrepreneurship in the area of e-waste. Being in a multidisciplinary programme a student who can develop innovative technology for various engineering problems and optimization of processes done through artificial intelligence and machine learning.

## PARTICIPATING DEPARTMENTS

Considering the truly interdisciplinary nature of the program, faculty members from various departments (Chemical Engineering, Materials Science & Metallurgical Engineering, Civil engineering, Electrical Engineering, Physics & Chemistry) will participate in teaching and supervising the projects along with a team of C-MET scientists

## ELIGIBILITY CRITERIA

- 1) B.Tech./B.E in Chemical Engg. /Materials Sci. & Metallurgical Engg. /Civil Engg./ Environmental Engg./Electrical Engg./ Mechanical Engg./Engg. Sciences/Engg. Physics/Minerals Engg. and affiliated areas with GATE qualification OR M.Sc. in Physics/Chemistry with NET/GATE qualified
- 2) GATE Subjects: CE/CH/CY/EC/EE/IN/ME/MN/MT/PH/PI/XE-C/XE-F/XE-H/XL-P
- 3) NET/GATE qualification is exempted for industry sponsored candidates with a minimum two years' experience OR for IIT Undergraduates with minimum CGPA of 8.0. OR for self-sponsored candidates.

## HOW TO APPLY?

Eligible candidates should register and apply through COAP portal. Reservations applicable as per the GoI norms. Scholarship will be available for GATE qualified selected candidates. Candidates will be selected based on GATE scores and AIR. Self-Sponsored candidate will be selected based on written exam and/or interview. Intake through MeitY supported scholarships:10.

## CONTACT US

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