



# CENTRE OF EXCELLENCE IN ADVANCED MANUFACTURING TECHNOLOGY INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

## Industry 4.0 in Welding

For BE/B-Tech, ME/M-Tech, PhD Students, Faculties, Non-faculties from Institutes and research labs, Engineers and working professionals from Industries;  
**13<sup>th</sup> November 2023 TO 17<sup>th</sup> November 2023**

### COURSE HIGHLIGHTS

- Introduction to industry 4.0
- Sensors for welding process
- Description of welding processes
- Defects in welding
- Simulation in welding
- Ai/ml in pre, during, and post-welding quality inspection
- Demo of industry 4.0 real-time process control



### COURSE FEES

Students	Non Faculties/ Technical Staffs/Trainer	Faculties	Industry professionals
INR 5,000 (incl. of GST)	INR 7,500 (incl. of GST)	INR 10,000 (incl. of GST)	INR 20,000 (incl. of GST)

### APPLICATION PROCEDURE

Apply online: “ <https://erp.iitkgp.ac.in/CEP/courses.htm>”  
Follow Procedure: Click “**Self Sponsored**” on the left bar and find our course.  
Click on “**How to Apply**” and “**How to Pay**” for more instructions.



### ACCOMMODATION, FOODING & TRAVEL

- Based on availability, accommodation may be arranged at IIT Guest House with additional cost; and request for the same need to be made separately through email in advance. This will be considered only for the **successfully registered candidates** only
- Candidates need to make their own travel and food arrangements; however, lunch will be served during the training programme

### COORDINATORS

#### Prof. Surjya K Pal

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### ABOUT CoE-AMT

CoE-AMT has been established at IIT Kharagpur with the support from Department of Heavy Industry (Ministry of HI&PE) and a consortium of top 6 industry members in the country, offering a unique platform for collaborative research in manufacturing keeping harmony with the 'Make-in India' initiative of the GoI. The Centre initiates innovative and top-quality research focused to the industries on Specialty materials, Design and automation, Additive manufacturing, and Industry 4.0 (Industrial Internet of Things). The Centre boosts innovative interventions in the advanced manufacturing domain by enabling an ecosystem among Institutes of higher repute, top industries, and also the MSMEs & Start-ups.