

NATIONAL HACKATHON (2021-22) A JOINT INITIATIVE BY **iPe & BIT Sindri**

iPe in collaboration with Department of Production & Industrial Engineering and E-Cell, BIT Sindri will be hosting National Hackathon (2021-22), where participants (students and professionals) will develop new and innovative solutions using Digital Engineering around three major challenges faced by the integrated steel plants of India in Iron-making area.

The Hackathon will be held in two phases

In the first phase, the participants will generate ideas to address those challenges. These ideas/projects will be scrutinized and short-listed by suitably constituted expert panel based on impact and implementation (ease and cost).

In the second phase, the participants will be required to develop the selected ideas into demo or business cases.

**WHEN INNOVATIVE
MINDS, DIGITAL
ENGINEERING &
INDUSTRIES MEET
TOGETHER,
MAGIC HAPPENS...**

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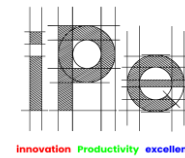
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ELIGIBILITY CRITERIA

- ❖ Students, current & retired faculty members, engineers, professionals or anyone from educational & technical field
- ❖ Team of 3–5 members is mandatory
- ❖ Team members may be from same institute/ Industry or from different institutes/industries
- ❖ There is no registration fee



HOW TO REGISTER

Visit the website: www.bitsindri.ac.in for more

Details and registration.

OBJECTIVE

The objective of the Hackathon 2021-22 is to generate the best ideas and create new solutions using digital engineering tools for attaining Benchmark Sustainable and Profitable Operational Practices in the area of Iron Making for Indian Integrated Steel Plants.

SCHEDULE

IDEATION PHASE

Kick off with launch of Registration portal	24 th Oct'21
Idea Generation Registration Closure	30 th Nov'21
Short listing of Ideas / Statements of Issues for Solutioning	15 th Dec'21

CRYSTALLISATION PHASE

Last date for Submission of Solutions	31 st Jan'22
Presentation of Shortlisted Solutions	In week starting 7th Feb'22
Declaration of Winners	12th February '22 at Ranchi

Digital Engineering is the technology of reliably capturing, integrating, transmitting and storing data using an advanced digital infrastructure.



IN DEPTH

- ❖ **Sustainable and Profitable Solutions for Energy and Environment Issues** - Iron-making area contributes to maximum energy consumption and environmental load. Indian iron-making with available raw material makes it even more challenging. The participants should generate ideas using digital engineering to address this issue.
- ❖ **Capital Efficiency:** Generally, Iron-making industry needs huge capital with long and uncertain gestation period, impacting business viability. Digital engineering enabled ideas are being sought to minimise total cost of ownership and thus improving capital efficiency.
- ❖ **Benchmark Operations Practices:** Iron-making process, because of inherent complexity and raw material quality, often do not attain benchmark performance, which impacts predictability and cost of production. Digital engineering enabled ideas / projects are to be developed to improve performance indices for cost competitiveness.