



# OPTIMA

4TH – 6TH OCT  
2024

## Techno-Optimization Fest of The Department of Industrial and Systems Engineering, IIT Kharagpur

A nexus of innovation, problem-solving, and interdisciplinary collaboration, Optima is orchestrated by the esteemed Department of Industrial and Systems Engineering, IIT Kharagpur. This dynamic platform unites aspiring engineers, researchers, and industry experts to explore and revolutionize industrial systems optimization and emerging technologies. With a focal point on technology-optimization synergy, Optima addresses real-world challenges across sectors like supply chain management, production line optimization, and many more. Experience Distinction - Join us for an event like no other!

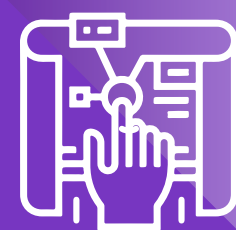
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Join us at OPTIMA, where ideas transform into reality!

### Competitions

#### OptiSim



Delve into systems simulation, modeling, and powerful software. Sharpen your skills, learn, and compete in a challenging simulation competition. Explore various strategies without real-world risks, fine-tuning your business strategy for the perfect balance between quality and cost.

#### Operheimer



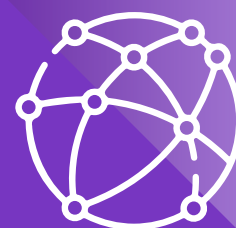
This engaging competition is crafted to evaluate participants' acumen in business strategy operational management and their proficiency in crafting intricate operational models utilising formulation methods and optimisation software.

#### 360 Degrees



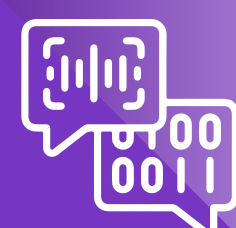
Embark on a journey of creativity and innovation with this premier 3D AR/VR simulation challenge. Push the boundaries of immersive technology to develop cutting-edge 3D models, leverage the latest AR/VR technologies and create immersive and engaging simulations.

#### Networkify



With a captivating problem statement within the realm of service network design nested in the expansive domain of Operations Research, the task is to scrutinise the challenge, devise inventive solutions, and present a thorough and insightful report.

#### NLP.py



A platform for budding data scientists to showcase their abilities to create self-generative, natural language-based reporting and analytics solutions, tackling real-world challenges. It presents a distinctive opportunity to make a difference, earn rewards, and garner visibility in the realm of NLP and analytics.

#### Fin-A-lytics



Opportunity for data enthusiasts to showcase their financial acumen and analytical skills in the realm of "Pricing & Revenue Management." Using real-world data, they are tasked with analysing, strategising, and constructing predictive models to forecast forthcoming market trends and prices with precision.

### Workshops

#### Simulation

Discover the power of simulation for optimizing processes, enhancing decision-making, and driving innovation. Dive into creating and running virtual scenarios, from crafting environments to programming interactions. Join this hands-on session to unlock the potential of simulation in modeling real-world phenomena.

#### Virtual Reality

This Virtual Reality Workshop explores immersive experiences and cutting-edge technologies that redefine reality. Discover diverse applications across industries, from gaming to healthcare, and unlock the transformative potential of VR.

#### Data Analysis

Join our workshop on Data Analysis. Explore IoT applications and challenges in acquiring labeled data at scale. Discover innovative methods for learning with limited or unlabeled data, focusing on real-world sensor time series. Delve into the complexities of IoT applications and data analysis.

Don't miss this opportunity to learn, compete, and network with fellow enthusiasts and industry experts.

OPTIMA promises an extraordinary blend of technical prowess, creativity, and fun! Mark your calendars and be prepared to embark on an exhilarating journey of innovation and excellence.

#### Prof Incharge

**Prof. Mamata Jenamani**  
+91-3222-283740  
mj@iem.iitkgp.ac.in

**Prof. Goutam Sen**  
+91-3222-283738  
gsen@iem.iitkgp.ac.in

#### Sponsorship Coordinator

**Sanchay Baranwal**  
+91 70270 00295  
sanchay.baranwal.iitkgp@gmail.com

#### Events Head

**Anmol Singh**  
+91 7004557685  
anmol.singh.iitkgp@gmail.com