About the Campus:

IIT Bhubaneswar strives to offer the best engineering education with unmatched novelties in curriculum. Within a short span of incipience, IIT BBS has made rapid strides towards becoming one of the elite technological institutes of India spurred by sustained creation of knowledge and innovation, through high quality R&D activities and commitment to holistic education as students get exposed to a wide variety of activities through societies and clubs, involving liberal arts, design, dramatics, robotics, music, dance and sports, instilling them with social awareness, a spirit of innovation, entrepreneurship and thirst of discovery. All academic activities of the Institute are being carried out in the campus at Argul, spreading over 936 acres of land of serene and pollution-free academic environment, in the state of Odisha, India. It is located on the feet of the historic and magnificent Barunei Hills.

About the Department:

The school is having a highly dedicated team of faculty members with a strong passion for furthering the cause of teaching and research. They have outstanding research contribution in their own fields of specialization, the details of which are available in the relevant web pages. They welcome dedicated students for pursuing their cutting edge research and offer state of the art consultancy in the area of Civil Engineering and Infrastructure which strengthens IIT Bhubaneswar's service to the nation.

Important Contacts

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Training Program on

SCHOOL OF EXCELLENCE

IN DESIGN & ENGINEERING (CIVIL AND STRUCTURAL)

January 22 - 25, 2024

Organized by

School of Infrastructure
Indian Institute of Technology Bhubaneswar

For

TATA STEEL

Coordinatiors:
Dr. Sarat Kumar Panda
Dr. Santhoshkumar G

Venue: **SIF, 210**
4MVG+GF9, Kansapada, Odisha 752050

DAY 1

09:00 - 09:30	Inauguration
09:45 - 10:45	Introduction to FEM using Abaqus
11:00 - 13:00	Linear and nonlinear analysis of steel and RCC structures
14:00 - 16:00	Analysis of concrete in-filled steel tubular structures by using FEM software.
16:15 - 18:15	Analysis of thick and thin walled pressure vessels

DAY 2

08:45 - 10:45	Dynamic analysis of steel structures by using FEA software
11:00 - 12:00	Concepts on structural health monitoring (SHM)
12:00 - 13:00	SHM through case studies for onsite health monitoring
14:00 - 15:00	Preamble to prestress concrete and its application to large structures
15:00 - 16:00	3D space frame with ball & socket joint for large span
16:15 - 18:15	Evaluation of design load for railway and road bridges

DAY 3

08:45 - 09:45	Hydrological and geotech. investigation for bridge design
09:45 - 12:00	Design of slab/girder/composite bridges
12:00 - 13:00	Execution and quality monitoring at construction sites
14:00 - 15:00	Rainwater Harvesting methodologies for sustainability
15:00 - 17:15	Design of retaining/ counter fort retaining wall
17:15 - 18:15	Introduction to ballast less tracks

DAY 4

08:45 - 10:45	Assessment and interpretation of material parameters from geotechnical report for structural design
11:00 - 13:00	Ground improvement technique to support heavy construction
14:00 - 15:00	Conventional field testing methods and issues and alternatives in geotechnical investigation
15:00 - 17:15	Introduction to modal analysis
17:15 - 18:15	Assessment/Feedback/Valedictory session

10:45 - 11:00 | 13:00 - 14:00 | 16:00 - 16:15