RESOURCE PERSONS

Joy Mondal

works at the intersection of spatial design and artificial intelligence as the head of WEsearch lab. He has rendered his expertise as the design computation consultant on projects of national importance such as the Central Vista's redevelopment and G20's venue Pragati Maidan redevelopment. He has released grasshopper plugins to automate column-beam placement (Eelish) and to generate Mondrian-inspired 3D massing (Chingree). He has presented his work in institutes such as Architectural Association, London, and University of Southern California. His AI-enabled research on the detection of design plagiarism has been recognised at the Indian Institute of Architect's (IIA) Excellence in Architecture award.

Roshmi Sen

works as an Assistant Professor, Department of Planning and Architecture at National Institute of Technology Rourkela. She has been a Fulbright Visiting Research collaborator at Princeton University USA.

Her area of interests include energy optimization in buildings and climate responsive form finding.

ABOUT NIT ROURKELA

National Institute of Technology Rourkela is an Institute of National importance for technical education established by the Government of India. The institute is an internationally acclaimed institution of higher learning that serves as a source of knowledge and expertise for the society and is a preferred destination for undergraduate, post graduate and research students. The institute research centers are engaged in several consultancy and research activities of DST, CSIR, DRDO, BARC, ISRO etc.

ABOUT THE WORKSHOP

Parametric Design enables designers to specify key parameters and interact with the dimensions of the parameter to optimize design efficiency. The designer can thereby explore multiple options and propose a set of optimal design solutions. Parametric design concept has wide range of applications across various disciplines. This workshop would help understanding the concept of parametric form finding along with skill building on the topic.

ELIGIBILITY: Undergraduate students of architecture, graduates of architecture and working professionals, students from allied engineering, industrial design and visual arts backgrounds are invited to attend this workshop. The workshop also welcomes post-graduate students, research scholars, and provides Faculty Development Program (FDP) opportunities.

NOTE: All modules of the workshop will be supported by hands-on exercises

WORKSHOP SCHEDULE

Date	Timing	Module description	Tool
Day 1 3.2.2024	9:00am - 12pm	Rhino 2D Drafting	Rhino
	1pm - 2:30pm	Rhino 3D Surfaces	Rhino
	2:30pm – 3:pm	Q/A + Discussion	
Day 2 4.2.2024	9am - 12pm	Rhino 3D Surfaces cont. + Facade Fins Introduction to Visual Scripting + Tower Script exercise	Rhino
	1pm - 2:30pm		Grasshopper
	2:30pm - 3pm	Q/A + Discussion	
Day 3 5.2.2024	6:00pm - 9:00pm	Parametric Façades	Grasshopper
	9:00pm - 9:30pm	Q/A + Discussion	
Day 4 6.2.2024	6:00pm - 9:00pm	Optimisation exercises	Grasshopper
	9:00pm - 9:30pm	Q/A + Discussion	
Day 5 7.2.2024	6:00pm - 9:00pm	Solar insolation simulation	Grasshopper + relevant plugins (Ladybug, Honeybee)
	9pm - 9:30pm	Q/A + Discussion	

PROGRAM FEE

For STUDENTS and RESEARCH SCHOLARS
Rs 500/-
For FACULTY DEVELOPMENT PROGRAM and WORKING PROFESSIONALS
Rs 1000/-
The above fees include GST

NOTE: e-Certificate shall be provided after successful completion of the course For FDP Certificate an exam needs to be cleared with 50 percent score

PAYMENT DETAILS

A/C NAME:	CONTINUING EDUCATION NIT ROURKELA
A/C NUMBER:	10138951784
IFSC CODE:	SBIN0002109
BANK NAME:	STATE BANK OF INDIA
BRANCH:	NIT ROURKELA CAMPUS

UPI ID: 01389517841@sbi
or scan this QR code:

After making payment, save the transaction details to be uploaded during registration.

Last Date of Registration
1st February, 2024
(seats are limited)

REGISTER
https://forms.gle/x7jM1cESs1pysXkg7
or scan this QR code:

Department of Planning and Architecture, National Institute of Technology, Rourkela

in collaboration with
National Association of Students of Architecture

online Workshop
on

ARCHITECTURAL FORM FINDING WITH PARAMETRIC DESIGN TOOLS

5-DAYS
3RD – 7TH February, 2024

CONTACTS

Workshop Convener
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