

WORKSHOP ON CONSTRUCTION AWARE DESIGN, RAPID-PROTOTYPING SPATIAL RECONSTRUCTION AND PERFORMANCE

*American University in Cairo, Department of Construction and Architectural Engineering
King Abdullah University of Science and Technology, Geometric Modeling & Scientific
Visualization*

Updated Schedule

Day 1 SUNDAY – MICHAEL HOFFER

Digital Reconstruction and 3D scanning

8:30 am to 10:00 am	Digital Reconstruction 1
10:00 am to 10:15 am	Break
10:15 to 11:45 am	Digital Reconstruction 2
11:45 am to 1:00 pm	Break
1:00 pm to 3:00 pm	3D scanning and reconstruction application

Day 2 MONDAY – MOHAMED ZAGHLOUL

Basic Parametric and Algorithmic Modeling using Rhino, Grasshopper, Kangaroo, Weavebird

9:00 to 10:15	Rhino
10:15 to 10:30	Break
10:30 to 11:45	Grasshopper
11:45 to 1:00	Break
1:00 to 1:15	Kangaroo
1:15 to 1:30	Break
1:30 to 3:00	Weavebird

Day 3 TUESDAY – MATHIAS HÖBINGER

Panelization and Construction-Aware Design using Rhino and Evolute

9:00 to 10:15	Panelization Theory and Practice
10:15 to 10:30	Break
10:30 to 11:45	Evolute
11:45 to 1:00	Break
1:00 to 1:15	Evolute
1:15 to 1:30	Break
1:30 to 3:00	Panelization using Grasshopper and Kangaroo

Day 4 WEDNESDAY – TAREK RAKHA

Performance Based Design using Diva for Rhino

9:00 to 10:15	Visualizations and Radiation Maps
10:15 to 10:30	Break
10:30 to 11:45	Climate-Based Metrics
11:45 to 1:00	Break
1:00 to 1:15	Glare Analysis and Annual Glare Maps
1:15 to 1:30	Break
1:30 to 3:00	LEED IEQ Credit 8.1 Compliance