

# 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

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### Day 1 SUNDAY – MICHAEL HOFFER

Digital Reconstruction and 3D scanning

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

### Day 2 MONDAY – MOHAMED ZAGHLOUL

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

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

### Day 3 TUESDAY – MATHIAS HÖBINGER

Panelization and Construction-Aware Design using Rhino and Evolute

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

### Day 4 WEDNESDAY – TAREK RAKHA

Performance Based Design using Diva for Rhino

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