

Experimental Methods

(December 3-5, 2021)

WORKSHOP AGENDA

DAY 1: December 3, 2021 (Friday)

Session 1 (3 pm – 4.30pm)

- Introduction to experimental methods
- Basic terminology in experimentation

Session 2 (5 pm – 6.30pm)

- Pre-experiments, Quasi experiments
- Experimental designs: Factorial and other designs, Between/Within subjects designs

DAY 2: December 4, 2021 (Saturday)

Session 1 (3 pm – 4.30pm)

- Independent and Dependent Variables, Manipulation checks
- Sample size determination, Statistical power, Effect size

Session 2 (5 pm – 6.30pm)

- Biases in Experiments: Demand Artifacts, Experimenter effects
- Issues of validity with experiments, Choice of subjects

DAY 3: December 5, 2021 (Sunday)

Session 1 (9 am – 10.30am)

- Analysis of Experiment – Design I
- Analysis of Experiment – Design II

Session 2 (11 am – 12.30pm)

- Analysis and Design of experiments – Online Lab session (assignments to be circulated a day before)

12.30pm – 1:00pm: Feedback and Valediction