

Course: User-centric Computing for Human-Computer Interaction

Course Code: noc21-cs50

Session: 2020-21

Duration: 8 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 1: Introduction to user-centric design – case studies, historical evolution, issues and challenges and current trend

Week 2: Engineering user-centric systems – relation with software engineering, iterative life cycle, prototyping, guidelines, case studies

Week 3: User-centric computing – framework, introduction to models, model taxonomy

Week 4: Computational user models (classical) – GOMS, KLM, Fitts' law, Hick-Hymans law

Week 5: Computational user models (contemporary) – 2D and 3D pointing, constrained navigation, mobile typing, touch interaction

Week 6: Formal models – case study with matrix algebra, specification and verification of properties, formal dialog modelling

Week 7: Empirical research – research question formulation, experiment design, data analysis, statistical significance test

Week 8: User-centric design evaluation – overview of evaluation techniques, expert evaluation, user evaluation, model-based evaluation with case studies

List of students enrolled

S. No	Name of Student
1	Arjun Chhipa
2	Ruchi kumari