Focus Areas

- Human Factors in Software Design
- Usability Engineering Overview
- Interaction Design – Famous Laws
- Interaction Design Paradigm
- Interface Design Rules and Heuristics
- Web Usability Guidelines
- Gestalt’s theory in Interaction Design
- Form/Navigation/Menu Design
- UX – User Experience Design
- Usability in Mobile Apps
- Usability Evaluation
- User Support Systems
- Usability case studies from Nielsen Norman Group

About the Workshop

The workshop is focused in the areas of Interface Design, Human Computer Interaction and Usability Engineering. Usability of products in general and moreso of software make or break the success of it. The prevailing trend is to address and accommodate cognitive science in the process of software design and development as opposed to focusing only on creating User Friendly version. Usability engineering is an emerging trend in HCI design that addresses cognitive aspects such as mental model, digit span, primality, etc. in the process of software design. The workshop would expose the audience to other related topics such as Universal Design, Interface Design Heuristics, User Support Systems etc. Concepts discussed in the lecture sessions would be practiced as part of the lab sessions which would also expose the audience to emerging tools for interface design such as Unity, etc. In all the workshop would focus on Software Engineering as a Design Process with the user in mind always!

Coordinators
Dr BSivaselvan, Associate Professor
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organizes a 5 day Workshop on Human Factors in Software Design-(USE’HCI-21) sponsored by

June 21 to 25, 2021

IIITDM Kancheepuram, a centrally funded institute offers UG and PG programs in computer, electronics and mechanical engineering with the mandate of excelling in IT and IT enabled Design & Manufacturing pedagogy and research. B.Tech, M.Tech, Dual Degree courses specializing in VLSI, Systems Design, etc. and Ph.D programmes in core areas of engineering are offered by us. Curricula for these programmes augment engineering domain with relevant design & manufacturing skills. More details at www.iiitdm.ac.in
**Indian Institute of Information Technology, Design & Manufacturing (IIITDM) Kancheepuram,**

**Department of Computer Science & Engineering**

**Workshop on Human Factors in Software Design (USE’HCI 2021), June 21-25 2021**

<table>
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<tr>
<th>Date</th>
<th>Session 1 (10 AM-11:30AM)</th>
<th>Session 2 (11:45AM - 1.15PM)</th>
<th>Session 3 (2.30 -4.30PM) (break in between)</th>
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| 21/6/2021  | Usability Engineering – Introduction  
Dr B Sivaselvan, IIITDM Kancheepuram | AI & Design Thinking - HCI  
Eashan Dash, AMD India Pvt Ltd. | Practice Session on design strength/flaws in apps , Fitts Law, Primality, etc.  
Vaibhav Singhal, Arul Lakshmi, Venkat, Krishnakumar & Team |
| 22/6/2021  | Interaction Design Paradigm  
Kenneth Karthick, IIITDM Gowthaman Premlal | Interface Design Rules & Heuristics  
Vedant Bassi, Signzy Tech | Web Usability Guidelines –  
R Harini Cloudsek Pvt Ltd. , B. Sivaselvan  
Practice Session related to Web Usability Guidelines  
Pranav, Kausik and Abinandh & Team |
| 23/6/2021  | Gestalt Theory in Interaction Design  
Dr B Sivaselvan, IIITDM | Interaction Design Basics – Shapes & Colors Psychology  
Vaibhav Singhal, Venkat IIITDM | Practice Session based on Gestalt Theory and Shapes & Colors Psychology  
Vaibhav & Team |
| 24/6/2021  | Interface Design – Desktop v/s the Mobile Platform, Johnson  
Kenneth Karthick IIIITDM Yasho Vardhan, Vedantu | Universal Design Principles  
Pranav, Kasusik and Abhinand IIIITDM Kancheepuram | Practice Session related to Interface Design & Universal Design Principles –  
Kenneth & Pranav & Team, IIITDM |
Aakash V, Trimble  
Dany Prakash GAVS India and Anomol, Trimble | Interaction Design Case Studies of successful products Interactive App Development Session using principles gathered from the workshop |

15 Sessions planned in all – Balanced Mix of Theory and Practice Sessions to expose the audience the Design Thinking for Interface Design, includes online experts lecture to accommodate the best minds in respective fields of HCI / Interface Design.