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| **Lab Code** | CSL801 | **Lab Name** | Human Machine Interactions Lab |
| **Academic Year** | 2019-20 | **Semester** | VIII |
| **Class** | B.E. | **Course Incharge** | Deepti Pawar |

**Laboratory Outcomes (LO)**

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| **LO No.** | **LO Statement** (At the end of the course, students will be able to …) | **BL** |
| 1 | To design user centric interfaces. | 3 |
| 2 | To design innovative and user friendly interfaces. | 3 |
| 3 | To apply HMI in their day-to-day activities. | 3 |
| 4 | To criticize existing interface designs, and improve them | 3 |
| 5 | To Design application for social Task | 3 |
| 6 | To Design application for Technical Tasks | 3 |

**List of Experiments**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title** | **LO** | **PSO** | **PI** |
| **1** | Design a Mobile app/ Website that can teach mathematics to children of 4-5 years age in schools in Rural /Urban Sector. | 1,2,5 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **2** | Design a interface for Home appliances | 1,2,3,6 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **3** | Redesign of a user interface (Suggest and implement changes in Existing User Interface | 1,2,3,4,5,6 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **4** | Design a navigator for a person new in tourist city/ village | 2,3,5 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **5** | KIOSK design for hospital/school/educational campus/National Institute. | 2,3,5,6 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **6** | Design of User interface for the system using various interaction styles. | 1,2,3,5,6 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **7** | Statistical Graphics and its use in visualization | 2,3,5,6 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **8** | Design appropriate icons pertaining to a given domain .(Eg. Greeting cards) | 5,6 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **9** | Design a Mobile App/Website to get an experience for passengers whose flight /train is delayed. | 1,2,3,4 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **10** | Design an interactive data access using Graphics (QR, BAR Code, Image etc) and generating a print form | 1,2,3,6 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2 |
| **11** | Mini Project | 1,2,3,4,5,6 | 1 | 1.3.1,2.1.1,2.2.2,2.3.2,3.2.1,3.2.2,3.3.2,4.1.3,5.1.1,6.1.1,7.1.2,8.1.1,9.1.2,9.2.1,9.2.4,11.3.1,11.3.2,12.2.2,12.3.2, 3.1.6,10.1.1,10.1.2,10.1.3,10.2.2,10.3.1,10.3.2 |

**Name:** **Signature:**

**Date:**