

Sankalchand Patel College of Engineering, Visnagar

Department of Computer/IT Engineering

Mid Semester Examination 2024

Syllabus

Semester VII

Human Machine Interface

(1ET1030704)

Sr. No	Topic	Weightage (%)
1	Introduction to HMI. Natural communication, multimodality, types of human machine interfaces	25
2	Human perception and recognition. Psychology of users, attention, thinking, perception of visual, sound and haptic incitements	25
3	Concept of combined reality, virtual reality, technologies, existing scientific and commercial projects. Sensing and tracking. Sensors for sensing of fingers, hands and touching. Interactive digital surfaces, manipulation of digital objects, displays with rear projection.	25
4	Multimodal speech interface. Basics of multimodal dialog systems. Speech synthesis. Speech recognition. Talking head.	25

Subject Teacher Name: Prof. Vishal P. Patel