SUBJECT NO-EE69014, SUBJECT NAME- REAL TIME SIGNAL PROCESSING LABORATORY
LTP- 0-0-3,CRD- 2

SYLLABUS :-

1.Adaptive filter implementation in an embedded platform Filter design, Simulation, Hardware implementation, Testing and Verification 2. Real time face tracking in an embedded platform Training phase, Implementation , Performance evaluation , Redesigning and Rectification 3. Active noise control using 8-bit microcontroller Design, Simulation , Implementation, Testing and Rectification 4. Real time implementation of ICA in an embedded platform Design of ICA algorithm, Simulation in PC platform , Hardware Implementation , Testing and Rectification 5. Implementation of wireless sensor network for monitoring the environment Study of wireless sensor network(Crossbow), Data acquisition using wireless sensor network, Implementing wireless sensor network as a monitor for environment, Testing and Performance evaluation 6. FFT implementation in an embedded platform Design of a 16-point Radix 1.5 FFT, Simulation, Hardware Implementation,Testing and Parameter adjustment , Evaluation 7. Adaptive filter implementation in an embedded platform Filter design, Simulation , Hardware implementation , Testing and Verification