Best practices in academics/teaching-learning by Dr. S. S. Mohite and P. P. Suryawanshi

In the elective subject of condition monitoring for Final Year B.Tech Students, the application based learning was implemented. A class of 35+ students were assigned the task of developing condition monitoring framework using tools available in smart phones. The students have used software such as iNVH by Bosch and iDynamics for vibration and acoustic analysis of home appliances such as washing machine, mixer, flour mill, refrigerator, electric fan etc. Each of these tasks involves selection of application, selection of source of data, data collection considering different operating conditions, data processing and decision making. The presentations of this activity are recorded and some of the PPTs are uploaded on ReseachGate for helping engineering aspirants to understand real time applications.

- Apoorva Khairnar, 'FFT Analysis of Traditional Sewing Machine Signal'

  https://www.researchgate.net/publication/357554574_FFT_Analysis_of_Traditional_Sewing_Machine_Signal?channel=doi&linkId=61d3e8e1b8305f7c4b1ef32d&showFulltext=true

- Ankur Harge, 'Condition Monitoring of Washing Machine'

  https://www.researchgate.net/publication/361389028_Condition_Monitoring_of_Washing_Machine

- Rushikesh Pawar, 'Acoustic analysis of paper cuttinng machine'

  https://www.researchgate.net/publication/361388993_Acoustic_analysis_of_paper_cuttinng_machine

- Vedant Netaji Gaikwad, 'Vibration Analysis of Home Mixer'

  https://www.researchgate.net/publication/361389007_Vibration_Analysis_of_Home_Mixer

- Vispi Karkariya, 'Acoustic analysis of water pump'

  https://www.researchgate.net/publication/361389049_ACOUSTIC_ANALYSIS_OF_WATER_PUMP