Validation of Technology (Annexure IID)



Testing Technology

Testing of an app to measure joint angles, velocity and acceleration associated with gym work outs





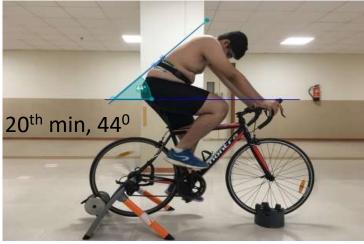
Use of Vicon Motion Capture to analyze commonly practiced gym exes (ex. Biceps curls) wrt number of reps, average and peak velocity per rep, average and peak acceleration per rep and peak ROM. These would then be compared with the data from their app.

Device to measure spine posture



Ergonomically designed device for cyclists to prevent low back pain







Smartphone Application based on

user feedback for cyclists to CYCLOS reduce incidence of lower back pain

- Innovation has won Grand Prize at Initiative for Research and Innovation in Science (IRIS) National Fair 2016.
- Qualified to represent India at the Intel International Science and Engineering Fair 2017 to be held in Los Angeles, USA.



ew wearable inertia sensors (i-Sens) system



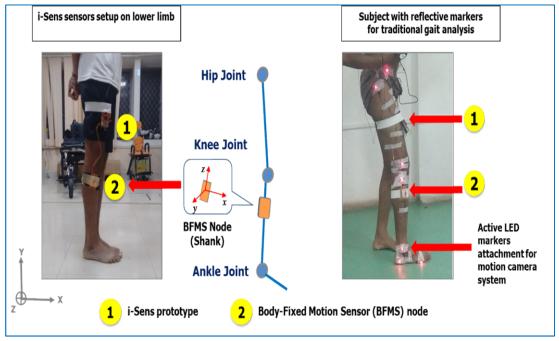


Figure 2. Experimental setup of i-Sens system and motion capture camera systems in gait labs

Results from the data







Collaborative project with IITM and BETiC for testing of 3D printed socket and new polyaxial knee joint





