



Workshop on Computer Interfaced Science Experiments on 30.06.2018

Department of Physics, National College (Autonomous) in collaboration with Inter-University Accelerator Centre, New Delhi and TNSCST, Govt. of Tamilnadu, is organizing an One Day Workshop on Computer Interfaced Science Experiments on 30th June 2018. ExpEyes is a hardware & software framework for developing and demonstrating Science & Engineering experiments in class rooms without getting into the details of electronics or computer programming. It converts a PC into a science laboratory for performing Physics and Engineering experiments. ExpEyes is developed in IUAC, New Delhi as part of their outreach program, with an objective of developing affordable laboratory equipment. The ExpEyes' hardware design and software are distributed freely under GNU and CERN OHL.

Science experiments generally involve measurement and control of physical parameters like temperature, velocity, acceleration, voltage, current etc. The conventional method is to use a dedicated setup for each experiment. A more economic and flexible approach is to interface these sensor and control elements to a computer and sequence the experiment using software. This also has the added advantage of collecting large amount of experimental data at precise time intervals, its analysis and display.

Design of ExpEyes combines the real-time measurement capability of micro-controllers with the ease and flexibility of Python programming language for data analysis and visualisation. Students, teachers and hobbyists can use ExpEyes as a

test equipment for all types of experiments in Physics, Electronics and other branches of Science & Engineering. The workshop covers topics on how the experiments using ExpEyes can empower students and teachers of science and engineering branches.

*The founder developer of the ExpEyes project **Dr. Ajith Kumar B.P, Senior Scientist, IUAC, New Delhi** will lead the classes & hands-on sessions.*

Motivated school teachers, faculty members of Science & Engineering colleges and students can register for the program. Certificates will be issued to all the participants.

Registration Fee:

Students Rs.200

Staff Rs.300

Follow the steps given below for making payment online.

1. Click on the 'online payment' tab on homepage www.nct.ac.in
2. Choose '**Aided**'-tab,
3. Accept '**Terms and Conditions**',
4. Choose '**Other fee**' from the pull-down menu named '**Select Category**' and proceed further

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