



DEPARTMENT OF PHYSICS
SCHOOL OF MATHEMATICAL AND PHYSICAL SCIENCES
CENTRAL UNIVERSITY OF KERALA
(Established under the Central Universities Act 2009)
www.cukerala.ac.in

Minutes of the Meeting: PG Board of Studies

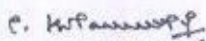
29.07.2016

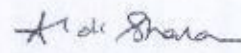
Members Present:

1. Professor K J Thomas (Chairman)
2. Professor P. Kolandaivel, Bharathiar University
3. Dr. Alok Sharan, Pondicherry University
4. Dr. Vincent Mathews
5. Vijay Shenoy, IISc, Bangalore (on Skype)

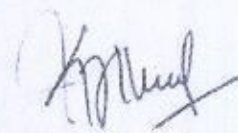
The meeting began at 11.00 AM on 29.07.2016 in the office of the Dean, SPS. The members of the board have discussed and deliberated on the content of the Programme Structure. After the deliberations, the Board of Studies has suggested some modifications to the existing syllabus. The modified programme structure is approved and enclosed herewith.

The programme structure with the modified syllabus will be in force for students admitted in 2016-17 academic year onwards.


Professor P. Kolandaivel


Dr. Alok Sharan


Dr. Vincent Mathew


Professor K J Thomas

PHY5304 Experimental Physics III

Course Code	PHY5304	Semester	III
Course Title	<i>Experimental Physics III</i>		
Credits	4	Type	Core

Course Outcome

Students get training in

1. Modern instrumentation
2. Nuclear detector handling, Data analysis,
3. Soft skill development
4. Scientific paper writing

Course Structure

Experiments:

Nuclear Physics: GM counter, scintillation counter, alpha, and gamma detectors, analysis of nuclear reaction data.

Solid state physics: Hall effect, four probe, band gap measurement, optoelectronic devices, Kerr effect, analysis of X-ray diffraction data. Thin film preparation.

Spectroscopy: Zeeman effect, Laser Raman spectra, constant deviation spectrograph, ESR, NMR, Ellipsometry.

Mini project:

Students shall take up one extended experiment involving writing of report in the form of a manuscript.