CENTRAL UNIVERSITY OF PUNJAB

(Established vid Act No. 25(2009) of Parliament)

Department of Physical Sciences

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Minutes of the Curriculum Development Committee Meeting of Department of Physical Sciences held on 16.01.2020

The 7th Curriculum Development Committee (CDC) meeting was held on 16.01.2020 at 11:00 A.M. at the office of HoD. After the detailed discussions on the course structure and contents, it was decided to make some modifications in existing M.Sc. and Ph.D. course structure and contents. The following members were present in the meeting:

1. Dr. S. K. Mahapatra, Professor & HoD (Chairperson)
2. Dr. A. L. Sharma, Assistant Professor (Member)
3. Dr. Kamlesh Yadav, Assistant Professor (Convener)
4. Dr. Ashok Kumar, Assistant Professor (Member)
5. Dr. Krishnakant Mondal, Assistant Professor (Member)

Following agendas were discussed and resolved in the meeting:

Item No. 20: 7:1

Updating course contents of the subject Mathematical Physics (PHY.506) of M. Sc. Physics Program

Rearrangement of course content in Mathematical Physics course has done to make it more systematic. In addition to that one reference "Mathematical methods for scientists and engineers, New Delhi, Viva books private limited, 2015 by Donald A. Mcquarrie" has been added in the syllabus.

Item No. 20: 7:2

Updating course contents of the subject Numerical Methods (PHY.521) of M. Sc. Physics Program

In Numerical Methods course, basics of Linux operating system has been added in Unit-I, for the M.Sc. students so that they can understand basic commands and do the programing for numerical calculations in Linux environment.

A reference, "Richard Petersen, Linux: The Complete Reference, Sixth Edition, McGraw Hill Education (India) Private Limited, New Delhi" has been also added in this course which provides a guidance for working in Linux OS.

Item No. 20: 7:3

Updating course contents of the subject Classical Mechanics (PHY.507) and Solid State Physics (PHY. 525) of M. Sc. Physics Program

In classical Mechanics course, Unit-II has been divided into two parts containing (i) Canonical Transformations and Poisson Brackets and (ii) Hamilton-Jacobi Theory, separately.

In Solid State Physics, Unit-II has been also divided into two parts containing (i) Free Electron Theory and (ii) Band Theory of Solids separately.

Item No. 20: 7:4

Updating course content of course PHY.574 Introduction to Density Functional Theory and renaming it Computational Solid State Physics in 3th Semester of M. Sc. Physics Program.

The content of the course PHY.574: Introduction to Density Functional has been updated and this course is renamed as PHY.578: Computational Solid State Physics in 3th Semester of M. Sc. Physics Program.

Item No. 20: 7:5

Updating course content of Research Methodology in the syllabus of Ph.D. Program

The UNIT I and II were contained the basics of experimental techniques in the last year syllabus. Now, it has been removed and the topics related to Plagiarism and Intellectual Property Rights have been added.

Item No. 20: 7:6

Adding one new course of 2 credits PHY: 702: Research and Publication Ethics in the syllabus of Ph.D. Program

A new compulsory course of 2 credits PHY: 702: Research and Publication Ethics has been added in the syllabus of Ph.D. as per the UGC notification (D.O.No.F.1-1/2018(Journal/CARE).

Item No. 20: 7:8

Adding one more Elective courses in Ph.D. Program

In Ph.D. program, two elective courses have been offered. The course "Review writing and Seminar presentation" has been removed and in place of that one more elective course is offered.