

DAV University, Jalandhar
Department of Physics

BOS Minutes of Meeting

The meeting of the board of studies in Physics was held on 14 May, 2018 at 11:00 AM in committee room, DAV University, Jalandhar

Following members were present in the meeting:

1. Dr. Rajiv Kumar, HOD, Department of Physics, Convener
2. Dr. Samriti Khosla (Associate Professor)
3. Dr. R.K. Seth (Associate Professor)
4. Dr. Sandeep Kumar (Assistant Professor)
5. Dr. Keshav Walia (Assistant Professor)

Special Invitees

1. Dr. Praveen Kumar (Assistant Professor)
2. Dr. Rama Gupta (Assistant Professor)

External experts

1. Dr R K Moudgil, Prof and Chairman, Department of Physics, KU Kurukshetra
2. Dr Inderpreet Kaur- Sr Scientist, CSIO, Chandigarh. (Could not attend).

The agenda was discussed at length and the following was resolved:

1. Revision of course scheme of Pre PhD course work

a. TWO NEW COURSES have been introduced

- I. ADVANCED COMPUTATIONAL TECHNIQUES PHY815
- II. ADVANCED CHARACTERIZATION TECHNIQUES PHY816

2. Revision of Syllabus of Pre PhD course work

The name of "Nanomagnetism and Spintronics" was changed to "Spintronics: Physics and Technology" in view of some changes in the course content.

3. Revision of Syllabi of M.Sc. (Hons.) Physics

COURSE NAME	NEW COURSE CODE
a. MATHEMATICAL PHYSICS:	PHY502C
b. QUANTUM MECHANICS-I:	PHY504A
c. QUANTUM MECHANICS-II:	PHY511A
d. PARTICLE PHYSICS:	PHY604A
e. CONDENSED MATTER PHYSICS-II	PHY611A
f. ADVANCED NUCLEAR PHYSICS:	PHY624A

Richard J

S. Khosla

Sandeep Kumar

Keshav Walia
Rama Gupta

Praveen
14/5/18

4. Revision of syllabi of B.Sc. (Hons.) Physics

COURSE NAME

NEW COURSE CODE

a. OPTICS	PHY231A
b. ELEMENTS OF MODERN PHYSICS	PHY232A
c. SOLID STATE PHYSICS:	PHY303C
d. ELECTROMAGNETIC THEORY	PHY330A

Suggestions of expert

1. Lab hours of MSc Physics may be increased at least to 9 hours per week from 6 hours per week.
2. Quantum Mechanics- PHY504A following additions are suggested:
 - a. Add the topic of "Two-slit experiment with electron and EM radiation" in Unit-I.
 - b. Add "Quantum Mechanics by Bransden and Joachain" in reference books.
 - c. Add the topic: Identical particle, principle of indistinguishability and its physical consequence in Unit-I.
 - d. "Density matrix, mixed ensemble" may be removed in Unit-I.
3. Condensed Matter Physics – PHY 603, following additions are suggested
 - a. Add "Bloch's theorem –general proof, approximate solution of central equation at and near zone the boundary" in Unit-II
 - b. Elaborate Unit-IV
4. Condensed Matter Physics – PHY 611A, following additions are suggested
 - a. Elaborate Unit-I and Unit-II
5. The question papers of BSc and MSc may have 20 % problems /numerical of the total marks.

Rajiv Kumar
14/05/18
Dr. Rajiv Kumar
Convener

R K Moudgil
14/05/18
Dr R K Moudgil,
external expert

Samriti K
Dr. Samriti K
Associate Professor

R. K. Seth
Dr. R. K. Seth
Associate Professor

Sandeep K
14/05/18
Dr. Sandeep K
Assistant Professor

Keshav
Dr. Keshav Walia
Assistant Professor

Praveen K
Dr. Praveen K
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Special Invitee

Rama Gupta
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