

Department of Physics
Minutes of the Board of Studies Meeting

DEPARTMENT OF PHYSICS
ETHIRAJ COLLEGE FOR WOMEN (AUTONOMOUS), CHENNAI – 600 008
MINUTES OF THE BOARD OF STUDIES MEETING
19.08.2019

The Board of Studies Meeting of the Department of Physics was held on 19.08.2019 at 10.00 a.m. with Dr. A. V. Jhone Verjhula in the chair.

The members of the Board suggested the following ratifications:

1. Whilst a slight variation in the CA pattern conforming with the Outcome Based Education Template (OBE) was observed, the Department of Physics would retain the old template with Section A having 7 questions of 2 marks each, Section B having 2 questions of 8 marks each and Section C having 1 question of 20 marks each, in consultation with the members of the Board.
2. To mention explicitly whether the Journals specified at the end of each paper are National or International as required by the Outcome Based Education Template (OBE).
3. To boost up the Industrial tie up to enhance the provision of more internship opportunities for the students, to cater them to pursue higher studies and JRF Programmes in the respective Industrial Institutes.
4. To include "Introduction to Ceramics" by P. W. Kingery as one of the recommended textbooks in the elective subject Materials Science in the Sixth Semester.
5. An Elective paper "Acoustical Physics" with the Course Code PH18/5E/ACP is introduced in the Fifth Semester as an optional paper to Basic Electronics and Electronic Devices (PH18/5E/EED).
- 5.1. Second Elective paper "Advanced Electronics" with the Course Code PH18/6E/AEL is introduced in the Sixth Semester as an optional paper to Digital Electronics and Microprocessor (PH18/6E/DEM).

6. To include field trips to studios and other relevant places to augment the theoretical understanding of the elective paper Acoustical Physics introduced in the Fifth Semester through practical sessions.
7. To include one more unit with Mechanics concepts in the paper "Mechanics and Mathematical Physics " in the Fifth Semester; while the Classical Mechanics concepts and its applications in the said paper to be incorporated in the paper "Quantum Mechanics and Relativity" offered in the Sixth Semester to observe more relevance in the respective papers. The name of the suggested paper would be "Classical Mechanics Quantum Mechanics and Relativity" with appropriate rearrangement of units in the paper.
8. Ehrenfest's equations were removed from Unit IV of Heat and Thermodynamics in the Second Semester, for the benefit of the understanding of the students.
9. It was suggested by the Board to have one more theory paper in the First and Third Semesters to give more weightage to the Course and to cater to the inculcation of more Physics concepts from the students' perspectives.
10. To specifically mention about the depth of concepts (Qualitative only/ Overview) mentioned in Units II, III and IV in the elective paper "Materials Science" offered in the Sixth Semester to add more clarity to the said units from the perspective of the External Examiners and Question Paper setters.
11. To mention explicitly the different Maxwell's Equations in the paper "Electromagnetism" offered in the Sixth Semester.
12. Self Study papers for Advanced Learners (Students with more than 70% of marks as aggregate) "Medical Physics" with Course Code "PH18/3S/MPH and "Nanoscience and Nanotechnology" with Course Code "PH18/5S/NSN" are introduced in the III and V semesters respectively.

The following members were present in the meeting:

- 1) **Dr. A. V. Jhone Verjhula**
Chair Person
Head, Department of Physics
Ethiraj College for Women
Chennai – 08.
- 2) **Dr. C. Venkateswaran**
University Nominee
Professor and Head
Department of Nuclear Physics
University of Madras (AC TECH Campus)
Chennai – 25.
- 3) **Dr. G. Usha**
Subject Expert
Associate Professor
Department of Physics
Queen Mary's College
Chennai – 40.
- 4) **Dr. P. A. Abdullah Mahaboob**
Subject Expert
Associate Professor
Department of Physics
New College, Chennai – 14.
- 5) **Dr. B. Uma**
Assistant Professor
Department of Physics
Ethiraj College for Women
Chennai – 08.
- 6) **Dr. Viswa Bhaskaran**
Industry Nominee
VB Ceramic Consultant
Kottivakkam
Chennai – 45.
- 7) **Mrs. Dharma Swaminathan**
Old Student
Assistant Professor
Department of Physics
Quaid-e-Milleth College for Women
Chennai – 02.

AV Jhone Verjhula
19/08/2019

C. Venkateswaran
19/8/2019

G. Usha
19/8/19
DR. G. USHA, M.Sc., M.Phil., B.Ed., Ph.D.
Associate Professor of Physics
Queen Mary's College (A)
Chennai - 600 004

P. A. Abdullah Mahaboob
19/8/19

B. Uma
19/8/19

V. Bhaskaran

Mrs. Dharma Swaminathan
19/8/19