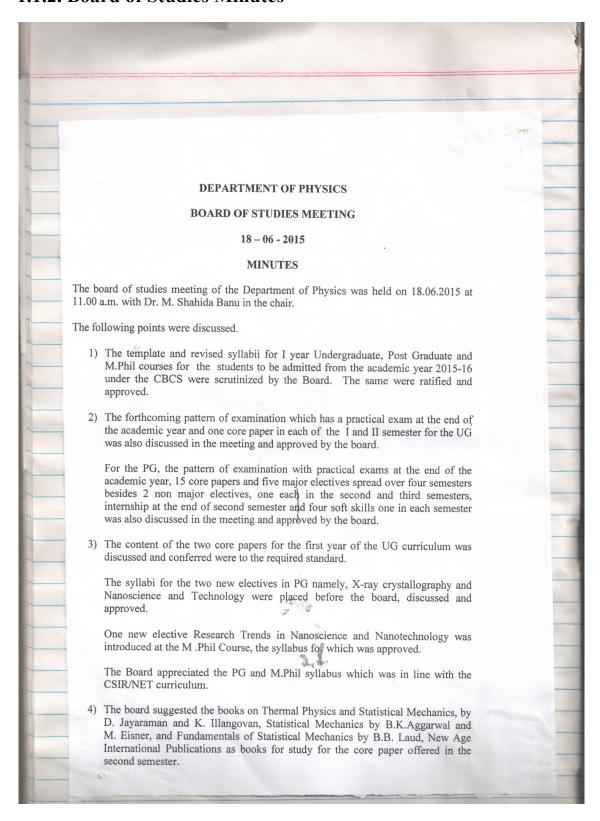
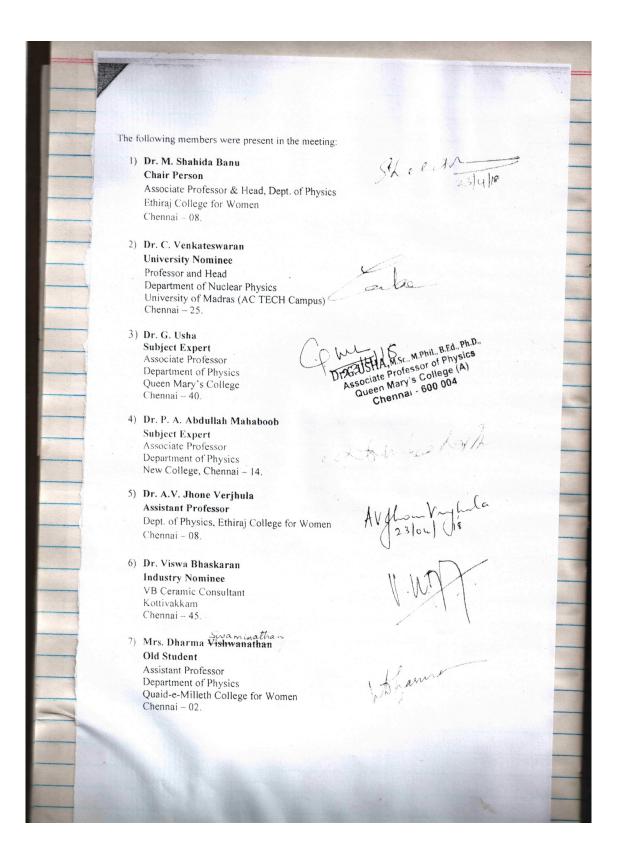
## 1.1.2. Board of Studies Minutes



The textbook by Upadhyaya on Classical Mechanics which is mentioned as a reference was suggested to be included in the books for study. Reference books by Rita John on Nanoscience and Asokamani on Solid State Physics were suggested for the PG curriculum. 5) A few online references such as Hyperphysics and MIT online course were suggested by the members of the Board of Studies. 6) In Allied paper - General Physics II, in unit V, the concept of CB mode was ratified to CE mode. 7) The Syllabii for the skill based course MS OFFICE with full hands on experience was placed before the board and approved. 8) The Board suggested that the summer training in other institutes can be considered as an internship. It can be done in the department to. The internship could be software/electronics/industry related also. With this meeting came to an end. The following members were present in the meeting: 1) Dr. M. Shahida Banu (Chair Person)..... 2) Dr. R. Meenakshi (University Nominee, CTTE College for Women)  $\chi$ 3) Dr. P. Murugakoothan ( Pachaiyappa's College) 4) Dr. J. Senthilselvan (Nuclear Physics, University of Madras) 5) Dr. A. V. Jhone Verjhula (Ethiraj College for Women). A.V. Jlos 6) Ms.S.Abhirami (Ethiraj College for Women). 7) Dr. Viswa Bhaskaran (Industry Nominee) 8) Dr. Mrs. Raajalakshmi Aditya (Old Student Bharathi Women's College). 9) Mrinaleni. R. S, III B.Sc Physics (Student Representative) 10) Sandhyapradeepa. K.S, II M.Sc Physics (Student Representative)

## DEPARTMENT OF PHYSICS BOARD OF STUDIES MEETING 23.04.2018 **MINUTES** The Board of studies meeting of the department of physics was held on 23.04.18 at 09:30 a.m. with Dr. M.Shahidha Banu in the chair. The members of the board suggested the following ratifications for the M.Sc Physics 1. Molecular Spectroscopy paper has been shifted to II Semester from IV Semester as an elective paper. 2. Nano Science and Nano Technology has been shifted to IV Semester from II Semester. 3. Electromagnetic Theory II has been introduced as a core paper in II Semester. 4. Name change for Condensed Matter Physics paper to Solid State Physics. 5. In Statistical Mechanics paper, topic Maxwell-Boltzmann Statistics to be removed. 6. In Quantum Mechanics I paper, rearrangement of Unit I suggested. Topic Connection formula was suggested to be removed. 7. In Quantum Mechanics II paper, topic Identical Particles and their Properties to be included in Unit I and topic Plane Wave Solutions for KG Equation to be included 8. Name change for Microprocessor and Microcontroller Architecture and Applications paper to Microprocessor 8085 and Microcontroller 8051. Headings for Unit IV & Unit V to be revised. 9. Objectives for all papers to be revised. 10. Editions of Reference books to be updated. 11. In question paper pattern for section A marks allotment to be corrected to 10 X $^{2}$ =

The members of the board suggested the following ratifications for the M.Phil Physics 1. In Research Methodology paper Unit II to be renamed as thesis writing 2. In Unit III, the topic Skewness to be included. 3. The topic in Unit V, the topic e-mail to be replaced by e-resources for research. 4. In the Material Science paper, topics from the book by V.Raghavan and Calister to be included. 5. In Material Science paper rearrangement of Units has been suggested. 6. In Crystal Growth and Characterization paper, names for Units to be included. 7. The title for the paper Applications of Molecular Spectrocopy to be changed to Advanced Molecular Spectrocopy. 8. In the question paper template, the option for Problem type questions to be 9. In the paper Research Trends in Nano Science and Nano Technology, rearrangement of Unit III has been suggested.



## 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.

- 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.

With this the meeting came to an end.

MINUTES OF THE BOARD OF STUDIES MEETING 19.08.2019 The syllabus for outcome based education was scrutinized and ratified by the board of studies and the following suggestions were given for M.Sc.

Physics.

1. It was suggested that MoUs can be signed with hospitals for the Medical Technology elective paper so that the students can get hands on training and certification which will help them in career placement.

2. Industrial/ field visits should be conducted for relevant papers.

3. Feedback on student performance must be collected from the Institutions / Industries / R&D labs where students take up internship.

4. Feedback on the facilities and guidance received from the Institutions / Industries / R&D labs must be collected from the students taking up the internships.

5. Data Bank of the Institutions / Industries / R & D labs where students take up internship must be created by the department.

6. Fundamentals of Nano Graphene topic to be included in Nanoscience and Nanotechnology paper.

7. Course outcomes should highlight the relevance of the pertinent topic in

8. The components for evaluation pattern in continuous assessment for project were suggested.

The components are

Selection of problem and review of Literature

Periodical reports & evaluation

Seminar

Internal viva voce

9. The question paper pattern should specify that section A is EITHER/ OR type choice of questions.

10. Changes for improvement of Programme Specific Outcome were suggested.

MINUTES OF THE BOARD OF STUDIES MEETING 19.08.2019 The syllabus for outcome based education was scrutinized and ratified by the board of studies and the following suggestions were given for M.Phil. Physics.

1. The components for evaluation pattern in continuous assessment for project were suggested.

The components are

Selection of problem and review of Literature

• Periodical review or reports evaluation

Seminar

Internal viva voce

2. Nano Graphene topic to be included in Research Trends in Nanoscience and Nanotechnology paper.

3. Changes for improvement of Programme Specific Outcome were suggested.

4. Number of Recommended text books to be increased with the inclusion of books by foreign authors.

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 of Physics Queen Mary's College (A) Chennai - 600 004 Associate Professor Dr. G. USHA, 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** Dept. 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.