



Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF – 2023 - Among Colleges in India.



Criteria : VI

Metrics: 6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Sl.No	Description
1	<u>UG - Minutes of the Meeting - Board of Studies (Sample Copy)</u>
2	<u>PG - Minutes of the Meeting - Board of Studies (Sample Copy)</u>

UG - Minutes of the Meeting - Board of Studies
(Sample Copy)

BOARD OF STUDIES IN PHYSICS (UG)

04-06-2022, SATURDAY

MINUTES OF THE MEETING

The meeting of Board of Studies in Physics was held on 04-06-2022. The Complete Syllabi for UG Courses for the students admitted from the academic year 2021-22 batch was reviewed and the necessary suggestions given by the members, BOS were considered and the necessary modifications to be carried for the students admitted from the academic year 2022-25 onwards.

1) E-learning website link should be included at the end of each course.

2) 21UPS101 - Properties of Matter

* Topic "Meldé's apparatus" to be included

* Unit III & IV to be reframed

* Title of the paper to be changed as "Gravitation, Properties of Matter & Sound".

3) 21UPS202 - Thermal Physics

* Self study topics may be included

* "Quantum theory of sp. heat" statement to be removed

* Unit II title to be changed as "Transmission".

4) 21UPS304 - Mathematical Physics

* Dirac Matrices to be changed as "Pauli's Spin matrices"

* Unit IV - Group theory to be removed and Fourier series to be added.

5) 21UPS507 - Mechanics

* Unit-I to be removed, Unit II & III to be merged & reframed

* Unit IV - Lagrangian Formulation & Unit V - Hamiltonian Formulation

6) 21 UPS 508 - Optics & Spectroscopy

- * Geometric optics to be included
- * Unit IV to be removed

7) 21 UPS 509 - Relativity & Quantum Mechanics

- * "Hydrogen atom and Bohr atom model" to be removed
- * Unit II - the word "Derivation" to be removed
- * Include statistical interpretation of wave function
- * Unit V - Relativity
- * Unit IV - Operator Mechanism to be included
- * Linear harmonic oscillator (Qualitative study only)
- * Photo-electric effect topic repeated & may be removed

8) 21 UPS

8) 21 UPS 614 - Atomic & Nuclear Physics

- * Syllabus to be reframed

9) 21 UPS 615 - Solid state Physics & Statistical Mechanics

- * Unit IV title of the topic to be changed as "Magnetic properties of Solids & Superconductivity"

Suggestion given by Dr. S.S. Naina Mohammed

- * To develop interest ^{among} for the students "Medical Physics" may be included for Ancillary physics student

Suggestions by Academic Auditor (UG)

Based on the discussion that all the BOS members had today (04/06/2022) in the Department of Physics, I would like to present the following suggestions that can be implemented by the Department of Physics to make Learning Physics more joyous for Students.

i) Mandatory Practical Exams at the end of each Semester so that the workload of study on students is less. Students need not wait a whole year to do the Practicals

ii) Inclusion of "STUDENT PROJECT" in B.Sc. PHYSICS course ~~so that~~ in the last Semester so that students ~~find~~ ~~it~~ have freedom and choice to select a topic of their interest for study and get an opportunity to present their findings in the form of a presentation. This will also motivate the more number of students to take/go for PG Course in Physics

Janesh m (aj)
04/06/2022
(P. INDRESH KANDYA)

Board of Studies - Physics (UG)

Chairman	
Dr. T. E. Manjulavalli Head, Department of Physics NGM College, Pollachi	<i>T. E. Manjulavalli</i> 04/06/22
University Nominee	
Dr. L. Senthilkumar Professor, Department of Physics Bharthiar University, Coimbatore	<i>L. Senthilkumar</i> 04/6/22
Academic Auditor	
Dr. Haresh M. Pandya Associate Professor and Head Chikkanna Government Arts College Tiruppur - 641 602	<i>Haresh M. Pandya</i> 4/6/22
Subject Expert	
Dr. S. S. Naina Mohammed Assistant Professor Government Arts College Udumalpet - 642 126	<i>S. S. Naina Mohammed</i> 4/6/22
Industrial Expert	
Mr. M.S. Karthik Profenaa Technologies Agni Amman Complex Pollachi - 642 001	<i>M. S. Karthik</i> 4/6/22
Internal Members	
Ms. N. Revathi, Assistant Professor	<i>N. Revathi</i> 4.6.22
Dr. M. Karthika, Assistant Professor	<i>M. Karthika</i>
Dr. S. Shanmugapriya, Assistant Professor	<i>S. Shanmugapriya</i> 4/6/22
Dr. A. Sureshkumar, Assistant Professor	<i>A. Sureshkumar</i> 4/6/22
Ms. S. Yogeswari, Assistant Professor	<i>S. Yogeswari</i>
Dr. T. Ponraj, Assistant Professor	<i>T. Ponraj</i>
Dr. A. G. Kannan, Assistant Professor	<i>A. G. Kannan</i> 4/6/22
Ms. M. Gayathri, Assistant Professor	<i>M. Gayathri</i>
Alumnus nominated by Principal / HoD	
Ms. Jamunadevi. K B.Sc, Physics (2017-2020 Batch)	<i>Jamunadevi</i>
Student Member	
Dharanesh. N III BSc Physics (2019-2022 Batch)	<i>Dharanesh</i>

PG - Minutes of the Meeting - Board of Studies (Sample Copy)

BOARD OF STUDIES IN PHYSICS (PG)

04-06-2022, SATURDAY

MINUTES OF THE MEETING

The meeting of Board of Studies in Physics was held on 04-06-2022. The Complete Syllabi for PG Courses for the students admitted from the academic year 2021-22 batch was reviewed and the necessary suggestions given by the members, Bos were considered and the necessary modifications to be carried for the students admitted from the academic year 2022-24 onwards.

21 PPS 101 - Mathematical Physics

* Unit III title - Partial Differential Equations

* Paper may be split into Mathematical Physics I and Mathematical Physics II

21 PPS 102 - Classical Mechanics

* Unit I - Deduction of Newton's second law of motion to be removed.

* To add more application in Lagrange's equation of motion.

21 PPS 103 - Statistical Mechanics

- * Division of phase space into cells from Unit II to be shifted to Unit III

21 PPS 204 - Quantum Mechanics I

- * ~~Q~~ Title of the course to be renamed as Basic Quantum Mechanics

- * Unit II - Application of Schrodinger equation only. Include one dimensional problems.

- * Time dependent perturbation from Quantum Mechanics II to be shifted to Quantum Mechanics I and scattering theory to be shifted to QM II.

- * Title of the course 21 PPS 309 - Quantum Mechanics II to be renamed as "Advanced Quantum Mechanics"

21 PPS 205 - Electromagnetic theory & Electrodynamics

- * Boundary conditions in Electrostatics & Method of images should be included.

- * Unit III - Microscopic properties may be replaced with EMW in vacuum.

21 PPS 412 - Nuclear & Particle Physics


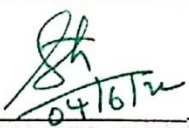
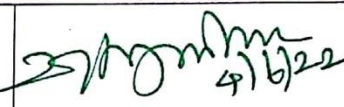

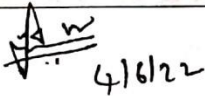
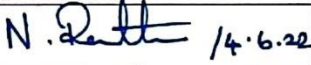


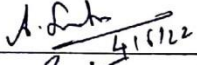
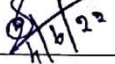

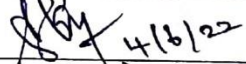
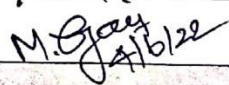
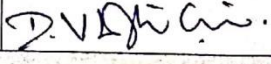
* Follow Nuclear Physics by V. Devanathan

Suggestions by BOS Members:

* Without affecting the work load of the faculty members, practicals can be completed in third semester and more time for the project in the final semester may be allotted.

1. ~~ST~~ 04/06/22
 2. ~~ST~~ 04/06/22
 3. ~~ST~~ 4/6/22
 4. ~~En. & G. Govindan Prasad~~ 4/6/22
 5. N. R. Reddy 4.6.22
 6. ~~MA~~
 7. ~~S. S. Rao~~
 8. ~~ST~~ 4/6/22
 9. ~~ST~~ 4/6/22
 10. ~~ST~~ 4/6/22
 11. ~~ST~~ 4/6/22
 12. M. Gay 4/6/22

Board of Studies - Physics (PG)

Chairman	
Dr. T. E. Manjulavalli Head, Department of Physics NGM College, Pollachi	 09/06/22
University Nominee	
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