



# Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)  
Approved by Government of Tamil Nadu and Accredited by NAAC A++ Grade (3<sup>rd</sup> Cycle- 3.64 CGPA)  
Dr. N.G.P.-Kalapatti Road, Coimbatore-641048, Tamil Nadu, India  
Web: www.drngpasc.ac.in | Email: info@drngpasc.ac.in | Phone: +91-422-2369100

BoS

20<sup>th</sup>

## Department of Physics

### Board of Studies Meeting

The minutes of the 20<sup>th</sup> meeting of the Board of Studies held on 11.11.2025 at 10.30 a.m.

#### Members Present:

S.No	Name	Category
1	Dr. K. Girija	Chairman
2	Dr. D. Nataraj Professor, Department of Physics, Bharathiar University, Coimbatore	VC Nominee
3	Dr. M. Ulaganathan Associate Professor, Department of Physics, School of Physical Sciences, Amritha Vishwa Vidyapeetham, Coimbatore	Subject Expert
4	Dr. R. Ramesh Babu Professor and Head Department of Physics Bharathidasan University	Subject Expert
5	Dr. S. Logeshkumar Consultant – Expert Electronics, KV industries, Greenergy energy solutions, Coimbatore.	Industrial Expert
6	Mr. R. Sivaanathavela Managing Director INPHOENOX Edu- Tech 51/1 Mettukadu 2nd street, Narasimapuram, Kuniamuthur, Coimbatore-641008	Meritorious Alumni
7	Dr. N. Kuppusamy	Co-opted Member
8	Dr. A. Hazel Verbina	Co-opted Member
9	Dr. R. Sowrirajan	Co-opted Member
10	Dr. R. Ravikumar	Co-opted Member
11	Dr. S. Gowri	Co-opted Member





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12	Dr. P. Chidambara Rajan	Co-opted Member
13	Dr. V. Gopala Krishnan	Member
14	Dr. M.R. Ananthan	Member
15	Mrs. R. Revathi	Member
16	Dr. R. Karunathan	Member
17	Dr. R. Dilip	Member
18	Dr. Martin Sam Ganaraj	Member
19	Ms. R. Sanju	Student Representative - PG
20	Mr. S. Afrith	Student Representative - UG

The HoD and Chairman of the Department of Physics welcomed and introduced all the members.

The items of the agenda were taken one by one for discussion and the following resolutions were passed.

**Item 20.1.** *To review and approve the minutes of the previous meeting held on 28.06.2025.*

The Chairman of the Board presented the minutes of the previous meeting held on 28.06.2025 and requested the members to approve. After brief discussion, the following resolution was passed.

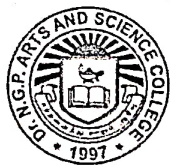
**Resolution:**

**Resolved to approve the minutes of the previous meeting held on 28.06.2025.**

**Item 20.2.** *To review and approve the scheme, regulations and syllabus for the II Semester for the students admitted in PG from academic year 2025-26 onwards.*

The Chairman presented the detailed scheme and regulation for the students admitted during the academic year 2025-2026 and syllabus for the II semester.





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After the discussion the following resolution was passed.

### Changes Made:

M.Sc. Physics		
Code	Course	Changes and Reason
25PYP2CA	Core: Spectroscopy	The following changes have been made as per the suggestion given by VC Nominee Dr. D. Nataraj and Subject expert Dr. R. Ramesh Babu, to incorporate application-oriented topics. Unit 1- “Applications: Determination of Molecular structure and Dipole moment.” topic was added. Unit 2- “Identification of molecular constituents - Biological Applications” was added. Unit 3 – Deleted IR and added “Raman investigation of phase transitions” was added. Unit 4 - “Applications: NMR imaging”, was added. Unit 5 - “Electronic structure, Molecular structure and biological applications” was added.
25PYP2CP	Core Practical –II: Solid State and Spectroscopy	As per the suggestion of subject expert Dr. M. Ulaganathan, the experiment “Determination of thermal conductivity of liquid and air by Lee’s disc Method.” was deleted and “Determination of Band gap of a given material prepared using spray coating method” was added to involve students in fabrication and analysis of materials.
25PYP2DA	DSE-II: Physics of Nanomaterials	The following change have been made as per the suggestion given by Subject Expert Dr. M. Ulaganathan and Dr. M. Ramesh Babu and Industrial Expert Dr. S. Logeshkumar, to incorporate the current advanced materials and techniques in Unit III and V Unit III- Advanced Nanomaterials – “Composite





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		materials - Metal organic frameworks – Quantum Dots” these topics were added. Unit V- The topics “Scanning electron microscopy – Transmission electron microscopy - Scanning probe microscopy – Optical spectroscopy - Electron spectroscopy” were deleted and advanced techniques were added “High-Resolution Transmission Electron Microscopy - Atomic force microscopy – Scanning tunnelling microscopy - Photoluminescence - X-ray photoelectron spectroscopy - Ion spectroscopy – Vibrating Sample Magnetometer” were added
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The Chairman presented the syllabus of IDC Course offered in Semester II for UG Biotechnology and Biochemistry students.

B.Sc. Physics	
Code	Course
25PYU2IA	IDC- II: Biophysics
25PYU2IB	IDC-II: Physics

### Resolution:

**Resolved to approve the above modifications of the revised syllabus for the students admitted for the academic year 2025-26. The IDC course was also approved.**

**Item 20.3. To approve scheme, regulation and syllabus for the IV Semester for students admitted in UG and PG from the academic year 2024-25 onwards.**

The Chairman presented the detailed scheme and regulation for the students admitted during the academic year 2024-2025 and syllabus for the IV semester.





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After the discussion the following resolution was passed.

### Resolution:

**Resolved to approve the syllabus of AY 2024-25 for the students admitted for the academic year 2024-25.**

**Item 20.4.** *To approve scheme, regulation and syllabus for the VI Semester for students admitted in UG from the academic year 2023-24 onwards.*

The Chairman presented the detailed scheme, and regulation for the students admitted in the academic year 2023-24 and syllabus for the VI semester.

### Resolution:

**Resolved to approve the syllabus of AY 2023-24 for the students admitted for the academic year 2023-24.**

**Item 20.5.** To review and approve the Diploma, Certificate, Skill oriented courses to be offered during the academic year 2025-26.

The Chairman presented the Student Skill Development Course (SSDC) –Data Analytics for a duration of 36 hours to be offered for Physics students during the academic year 2025-2026.

### Resolution:

**Resolved to approve the Student Skill Development Course to be offered for Physics students during the academic year 2025-26.**

**Item 20.6.** *To approve the panel of examiners.*

The Chairman presented the panel of examiners for question paper setting, question paper scrutiny and conduct of practical and theory examination submitted to CoE for exam related work.



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**Resolution:**

Resolved to approve the panel of examiners for question paper setting and evaluation of answer scripts for the Even Semester of the academic year 2025-2026.

*Item 20.7: To consider and approve any other item brought forward by the Chairman and the members of the board.*

The chairman presented the courses offered by NPTEL and Swayam Plus which will be taken up by students of UG and PG for extra credit. Presented the syllabus of NCVRT certificate course in Basic Electrical training offered by Department of Physics from AY 2025-26 to interested students of all streams.

**Resolution:**

Resolved to approve the NPTEL and NCVRT courses offered to UG and PG from AY 2025-26.

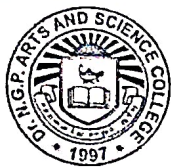
Finally, the Chairman thanked all the members for their cooperation and contribution in enriching the syllabus with active participation in the meeting and sought the same spirit in the future also. The meeting was closed with formal vote of thanks proposed by the Dr. K. Girija, Head and Chairman, Physics.

**Date: 11.11.2025**

*K. Girija*  
11/11/2025  
(Dr. K. Girija)

BoS Chairman/HoD  
Department of Physics  
Dr. N. G. P. Arts and Science College  
Coimbatore – 641 048





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## SYLLABUS REVISION

Faculty: Basic and Applied Sciences

Board: Physics

Semester: II

Course Code / Name: 25PYP2CA/Spectroscopy

Unit	Existing	Changes
I	<b>Microwave Spectroscopy:</b> Rotation of molecules – Expression for the rotational constant - Theory of microwave spectra of linear and symmetric top molecules – Techniques and instrumentation - Chemical analysis by microwave spectroscopy.	<b>Microwave Spectroscopy:</b> Types of molecules - Rotation of molecules – Expression for the rotational constant - Theory of microwave spectra of linear and symmetric top molecules – Techniques and instrumentation - Chemical analysis by microwave spectroscopy- Applications: Determination of Molecular structure and Dipole moment.
II	<b>Infrared Spectroscopy:</b> Vibrational energy of a diatomic molecule- Infrared selection rules - Vibrating diatomic molecule - Normal modes of vibration in crystal - Interpretation of vibrational spectra - Group frequencies - IR spectrophotometer instrumentation - Fourier transform infrared spectroscopy (Principle and Working) - Applications.	<b>Infrared Spectroscopy:</b> Vibrational energy of a diatomic molecule - Infrared selection rules - Vibrating diatomic molecule - Normal modes of vibration in crystal - Interpretation of vibrational spectra - Group frequencies - IR spectrophotometer instrumentation - Fourier transform infrared spectroscopy (principle and working) – Identification of molecular constituents - Biological Applications
III	<b>Raman Spectroscopy</b> Theory of Raman scattering - Rotational Raman spectra - Vibrational Raman spectra - Mutual exclusion principle - Raman spectrometer - Sample handling techniques - Polarization of Raman scattered light - Structure determination using IR and Raman spectroscopy.	<b>Raman Spectroscopy:</b> Theory of Raman scattering - Rotational Raman spectra - Vibrational Raman spectra - Mutual exclusion principle - Raman spectrometer - Sample handling techniques - Polarization of Raman scattered light - Structure determination using Raman spectroscopy – Raman investigation of phase transitions.
IV	<b>Nuclear Magnetic and Electron Spin Resonance Spectroscopy:</b> Theory of NMR method – Resonance condition – NMR Instrumentation – Relaxation processes - Chemical shift – Spin-spin coupling – Interpretation of certain NMR spectra. Principle of ESR - ESR spectrometer – Total Hamiltonian – Hyperfine structure – ESR spectra of free radicals in solution.	<b>Nuclear Magnetic and Electron Spin Resonance Spectroscopy:</b> Theory of NMR method – Resonance condition – NMR Instrumentation – Relaxation processes - Chemical shift – Spin-spin coupling – Interpretation of certain NMR spectra, Applications: NMR imaging. Principle of ESR - ESR spectrometer – Total Hamiltonian –





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		Hyperfine structure – ESR spectra of free radicals in solution
V	<b>Nuclear Quadrupole Resonance and Mossbauer Spectroscopy:</b> Principle of nuclear quadrupole resonance – Transitions for axially and non-axially symmetric systems – NQR instrumentation – Chemical bonding – Hydrogen bonding. The Mossbauer effect - Recoilless emission and absorption - Experimental techniques - Isomer shift – Quadrupole Interaction - Magnetic hyperfine interaction – Applications.	<b>Nuclear Quadrupole Resonance and Mossbauer Spectroscopy:</b> Principle of nuclear quadrupole resonance – Transitions for axially and non-axially symmetric systems – NQR instrumentation – Chemical bonding – Hydrogen bonding. The Mossbauer effect - Recoilless emission and absorption - Experimental techniques - Isomer shift – Quadrupole Interaction - Magnetic hyperfine interaction – Applications: Electronic structure, Molecular structure and biological applications

PERCENTAGE OF SYLLABUS REVISED : 24 %

COURSE FOCUS ON :

- |                                                                  |                                                                      |
|------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Skill Development            | <input checked="" type="checkbox"/> Entrepreneurial Development      |
| <input checked="" type="checkbox"/> Employability                | <input checked="" type="checkbox"/> Innovations                      |
| <input checked="" type="checkbox"/> Intellectual Property Rights | <input type="checkbox"/> Gender Sensitization                        |
| <input type="checkbox"/> Social Awareness/ Environment           | <input type="checkbox"/> Constitutional Rights/ Human Values/ Ethics |







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## Syllabus Revision

Faculty: Basic and Applied Sciences

Board: Physics

Semester: II

Course Code / Name: 25PYP2CP / CORE PRACTICAL: SOLID STATE AND SPECTROSCOPY

Unit	Existing	Changes
1.	Determination of optical activity of specific rotation using Polarimeter	No Change
2.	Determination of refractive index of liquid using He-Ne laser	No Change
3.	Determination of $e/m$ by Thomson method	No Change
4.	Determination of Rydberg's constant using Solar spectrum	No Change
5.	Study of Band gap energy using Thermistor	No Change
6.	Determination of Hall coefficient using Hall Effect	No Change
7.	Determination of Refractive index of liquid by Newton's ring	No Change
8.	Determination of Resistivity using Four probe method	No Change
9.	Find Young's modulus of the material by Hyperbolic fringes	No Change
10	Study of dielectric constant and Curie temperature of magnetic materials.	No Change
11	Determination of thermal conductivity of liquid and air by Lee's disc Method.	Determination of Band gap of a given material using spray coating method.
12	Determination of Planck's constant	

PERCENTAGE OF SYLLABUS REVISED : 1%

COURSE FOCUS ON :



Skill Development



Entrepreneurial Development



Employability



Innovations



Intellectual Property Rights



Gender Sensitization



Social Awareness/ Environment



Constitutional Rights/ Human Values/  
Ethics





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## Syllabus Revision

Faculty : Basic and Applied Sciences

Board : Physics

Semester: II

Course Code / Name: 25PYP2DA/ Physics of Nanomaterials

Unit	Existing	Changes
I	<b>Classification of Nanomaterials</b> Definition of Zero-, one-, two- and three-dimension nanomaterials – Surface energy – Chemical potential as a function of surface curvature – Electrostatic stabilization: Surface charge density - DLVO theory - Steric stabilization: solvent and polymer.	No Change
II	<b>Properties</b> Physical properties of nanomaterials: Melting points and lattice constants – Mechanical properties – Optical properties: Surface Plasmon Resonance – Quantum size effects – Electrical property: Surface scattering - Change of electronic structure - Quantum transport - Effect of microstructure.	No Change
III	<b>Advanced Nanomaterials</b> <del>Carbon fullerenes and nanotubes:</del> Carbon fullerenes, Fullerene derived crystals, Carbon nanotubes - <del>Micro and Mesoporous Materials:</del> Ordered mesoporous structures - Random mesoporous structures - <del>Crystalline microporous materials:</del> Zeolites - <del>Organic-inorganic hybrids:</del> Class 1 hybrids - Class 2 hybrids – Composite materials - Metal organic frameworks – Quantum Dots	Composite materials - Metal organic frameworks – Quantum Dots
IV	<b>Synthesis</b> Physical vapour deposition: Evaporation - Molecular beam epitaxy - Sputtering - Chemical vapour deposition: Typical chemical reaction - Reaction kinetics - CVD methods - Atomic layer deposition - Superlattices - Sol-Gel Films.	No Change
V	<b>Characterization</b> <del>Structural characterization: X-Ray diffraction – Scanning electron microscopy – Transmission electron microscopy – Scanning probe microscopy –</del> Chemical characterization: Optical spectroscopy – Electron spectroscopy - High-Resolution Transmission Electron Microscopy - Atomic force microscopy – Scanning tunnelling microscopy - Photoluminescence - X-ray photoelectron spectroscopy - Ion spectroscopy – Vibrating Sample Magnetometer (Principle and Instrumentation for all topics)	High-Resolution Transmission Electron Microscopy - Atomic force microscopy – Scanning tunnelling microscopy - Photoluminescence - X-ray photoelectron spectroscopy - Ion spectroscopy – Vibrating Sample Magnetometer

PERCENTAGE OF SYLLABUS REVISED : 25 %





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### COURSE FOCUS ON:

- |                                                                  |                                                                      |
|------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Skill Development            | <input type="checkbox"/> Entrepreneurial Development                 |
| <input checked="" type="checkbox"/> Employability                | <input checked="" type="checkbox"/> Innovations                      |
| <input checked="" type="checkbox"/> Intellectual Property Rights | <input type="checkbox"/> Gender Sensitization                        |
| <input type="checkbox"/> Social Awareness/ Environment           | <input type="checkbox"/> Constitutional Rights/ Human Values/ Ethics |





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## ATTENDANCE OF THE TWENTIETH BOARD OF STUDIES MEETING

Faculty : Basic and Applied Sciences

Board: Physics

Venue : Room no. 1513 –B1 Block

Date : 11/11/2025

Time : 10:30 a.m.

The following members were present for the board of studies meeting.

S. No.	Name	Designation	Attendance status
1.	Dr.K.Girija Associate Professor & Head (i/c)	Chairman	Present
2.	Dr. D. Nataraj Professor, Department of Physics, Bharathiar University, Coimbatore Email : de.nataraj@buc.edu.in Cell : 9994734020	VC Nominee	Present
3.	Dr. M. Ulaganathan Associate Professor, Department of Physics, School of Physical Sciences, Amritha Vishwa Vidyapeetham, Coimbatore Email : m_ulaganathan@cb.amrita.edu Cell : 9500379742	Member (Subject Expert)	Present
4.	Dr. R. Ramesh Babu Professor and Head Department of Physics Bharathidasan University Email : rameshbabu.r@bdu.ac.in Cell : 9942060925	Member (Subject Expert)	Present
5.	Dr. S. Logeshkumar Consultant – Expert Electronics, KV industries, Greenergy energy solutions, Coimbatore Email:logesh.tamil@gmail.com Cell : 9894586216	Member (Industry Expert)	Present





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6.	Mr. R. Sivaanathavela Managing Director INPHOENOX Edu- Tech 51/1 Mettukadu 2nd street, Narasimapuram, Kuniyamuthur, Coimbatore-641008 Email : sival70399@gmail.com Cell : 7010370199	Member (Alumni)	Present
7.	Dr. N. Kuppusamy Professor & Head Department of Tamil Dr. N.G.P. ASC	Co-opted Member	Present
8.	Dr. A. Hazel Verbina Professor & Head (i/c) Department of English Dr. N.G.P. ASC	Co-opted Member	Present
9.	Dr. R. Sowrirajan Professor & Head Department of Mathematics Dr. N.G.P. ASC	Co-opted Member	Present
10.	Dr. R. Ravikumar Professor & Head (i/c) Department of Chemistry Dr. N.G.P. ASC	Co-opted Member	Present
11.	Dr. S. Gowri Professor and Head Department of Biochemistry Dr. N.G.P. ASC	Co-opted Member	Present
12.	Dr. P. Chidambara Rajan Professor and Head Department of Biotechnology Dr. N.G.P. ASC	Co-opted Member	Present
13.	Dr. V. Gopalakrishnan Professor Department of Physics Dr. N.G.P. ASC	Member	Present
14.	Dr. M. R. Ananthan Associate Professor Department of Physics Dr. N.G.P. ASC	Member	Present
15.	Mrs. R. Revathi Assistant professor Department of Physics Dr. N.G.P. ASC	Member	Present





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16.	Dr. R. Karunathan Assistant Professor Department of Physics Dr. N.G.P. ASC	Member	Present
17.	Dr. R. Dilip Assistant Professor Department of Physics Dr. N.G.P. ASC	Member	Present
18.	Dr. J Martin Sam Gnanaraj Assistant Professor Department of Physics Dr. N.G.P. ASC	Member	Present
19.	Ms. R. Sanju II M.Sc. Physics	Student Representative	Present
20.	Mr. S. Afrith III B.Sc. Physics	Student Representative	Present

Date: 11/11/2025

*K. Girija*  
11/11/2025  
(Dr. K. Girija)

BoS Chairman/HoD  
Department of Physics  
Dr. N. G. P. Arts and Science College  
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