

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 (3rd 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

21st

Department of Physics

Board of Studies Meeting

The minutes of the 21st meeting of the Board of Studies held on 01.04.2026 at 10.30 a.m.
at the B1 Block, Room No.1513.

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	Dr. N. Kuppusamy	Co-opted Member
7	Dr. A. Hazel Verbina	Co-opted Member
8	Dr. R. Sowrirajan	Co-opted Member
9	Dr. R. Ravikumar	Co-opted Member
10	Dr. S. Gowri	Co-opted Member
11	Dr. P. Chidambara Rajan	Co-opted Member
12	Dr. M.R. Ananthan	Member
13	Mrs. R. Revathi	Member



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		21 st

14	Dr. R. Karunathan	Member
15	Ms. R. Sanju	Student Representative - PG
16	Mr. S. Afrith	Student Representative - UG

The HoD and Chairman of the Department of Physics welcomed all the members and thanked for their continued support and contributions toward the development of academic standards and enrichment of the syllabus. The chairman informed the absence of our alumni representation Mr. Sivananthavela and other members Dr. V. Gopalakrishnan, Dr. R. Dilip and Dr. Martin Sam Gananraj for the meeting.

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

Item 21.1. *To review and approve the minutes of the previous meeting held on 11.11.2025.*

The Chairman of the Board presented the minutes of the previous meeting held on 11.11.2025 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 11.11.2025.

Item 21.2. *To review and approve the scheme, R6 regulations and syllabus for the I Semester, for the students admitted in PG from academic year 2026-27 onwards.*

The Chairman presented the detailed scheme and R6 regulation for the students admitted during the academic year 2026-2027 and syllabus for the I semester. The members deliberated in detail about the modifications required.





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Changes Made:

M.Sc. Physics			
Semester	Code	Course	New Course
III	26PYP3DB	DSE - III Instrumental methods of analysis	Quantum Informatics
IV	26PYP4DB	DSE - IV Band gap Engineering in Semiconductors	Semiconductor Technology

After the discussion the following resolution was passed.

Resolution:

Resolved to approve the above changes and adopt the syllabus for the students admitted for the academic year 2026-27.

Item 21.3. To review and approve the syllabus for the III Semester, for students admitted in PG from the academic year 2025-26 onwards.

Changes Made:

M.Sc. Physics		
Code	Course	Changes and Reason
25PYP3DC	RADIOLOGICAL SAFETY ASPECTS	<p>The following changes have been made as per the suggestion given by VC Nominee Dr. D. Nataraj and subject expert Dr. M. Ulaganathan. The following topics were removed in Unit 1, 2, 3 and 4 as the concepts has been studied in Undergraduate level. Topics in IKS is incorporated in Unit 5.</p> <p>Unit 1- “Scattering of Alpha-particles - Electromagnetic methods - Double focusing mass spectrograph” topic were removed.</p> <p>Unit 2 – “Isotopes (Separation and uses)” topic was removed.</p> <p>Unit 3 – “Stopping power and range of electrons” topic was removed.</p>





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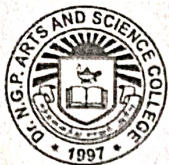
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		<p>Unit 4 – “Geiger Muller counter (Quenching of discharge) topic was removed.</p> <p>Unit 5 – “Integration of Traditional Medicine with Radiological Diagnosis - IKS in Radiation Emergency Preparedness” topics were added.</p>
25PYP3CD	Microprocessors and Microcontroller	<p>The following changes have been made as per the suggestion given by VC Nominee Dr. D. Nataraj and Industrial expert Dr. S. Logesh Kumar to gain more insights on current topics.</p> <p>Unit I- Removed: Data transfer operations - Arithmetic operations - Logical operations – Branching and machine control operations</p> <p>Added: 8255A Programmable Peripheral Interface (PPI) – A/D converter – 8257 DMA controller – Interfacing – Programming and Execution</p> <p>Unit V – Removed: Features of 8086 - Architecture – Pins and signals – Minimum mode and maximum mode signals – External memory addressing - 8 bit data transfer – 16 bit data transfer – Interrupt processing – Response to interrupt – Classification of interrupt – Interrupt priority. Addition, subtraction and multiplication programs</p> <p>Unit V - Added: ARM Architecture: ARM Processor fundamentals - ARM Architecture – Register, CPSR, Pipeline, exceptions - interrupts interrupt vector table - ARM instruction set - Data processing - Branch instructions - load store instructions - Software interrupt instructions - Program status register instructions.</p>
26PYP3CP	Core Practical - V Electronics -III	<p>The following changes have been made as per the suggestion given by subject expert Dr. M. Ulaganathan and industrial expert Dr. S. Logesh Kumar to remove certain experiments and include new advanced experiments based on IoT.</p> <p>The following Experiments were removed</p> <ol style="list-style-type: none">1. Construct half-adder and full-adder circuits using NAND gates and study their performance.





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		<ol style="list-style-type: none">2. Construct voltage regulated power supply using Zener diode.3. Construct a 12-0-12 power supply using IC <p>The following new experiments were added</p> <ol style="list-style-type: none">1. Measure the distance of an object using an ultrasonic sensor (HC-SR04) interfaced with Raspberry Pi and display the measured distance on a LED display.2. Measure ambient temperature using an LM35 sensor interfaced with Raspberry Pi and indicate threshold crossing using an LED.3. Measure ambient temperature using an LM35 sensor interfaced with Raspberry Pi and indicate threshold crossing using an LED.
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The chairman presented the syllabus of Self Study Course offered in Semester III for PG students.

MSc. Physics	
Code	Course
25PYPSSA	IPR, Innovation and Entrepreneurship
25PYUSSB	Nanoscience

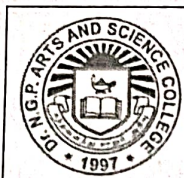
After the discussion the following resolution was passed.

Resolution:

Resolved to approve the above modifications and adopt the revised syllabus for the students admitted for the academic year 2025-26. The Self study course was also approved.

Item 21.4. To review and approve the syllabus for the V Semester, for students admitted in UG from the academic year 2024-25 onwards.





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The Chairman presented the detailed syllabus for the students admitted in the academic year 2024-25 for the V semester. After discussion it was unanimously decided to adopt the following changes.

Changes Made:

Code	Course	Changes and Reason
25PYU5DA	RENEWABLE ENERGY SOURCES	The following changes have been made as per the suggestion given by subject expert Dr. R. Ramesh Babu and Dr. M. Ulaganathan to remove the following topics, as it is included in sub topics. Unit 2 - Solar pond Unit 4 - Biogas generation

The Chairman presented the syllabus of Generic Elective course (GE) – Eco Physics (24PYU5GA) to be offered in Semester V.

Resolution:

Resolved to approve the above modification and adopt the revised syllabus of the semester for the UG students admitted for the academic year 2024-25. The GE course was also approved.

Item 21.5. To review and approve the Diploma, Certificate, NCVRT, Skill Oriented courses to be offered during the academic year 2026-27.

The Chairman presented the NCVRT course: Basic Electrical Training, Domain Specific Skill Oriented Courses: Microcontrollers Programming, Semiconductor Technology and Data Analytics for a duration of 36 hours to be offered for Physics students during the academic year 2026-2027.

Resolution:

Resolved to approve the Domain Specific Skill Oriented Courses to be offered for Physics students during the academic year 2026-27.





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Item 21.6. 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.

Resolution:

Resolved to approve the panel of examiners for question paper setting and evaluation of answer scripts for the Odd Semester of the academic year 2026-2027.

Item 21.7: 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 that are equivalent to courses offered in III Semester for PG for approval for equivalency.

1. Condensed Matter Physics

Resolution:

Resolved to approve the NPTEL courses offered in III Semester for PG for equivalency.

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: 01.04.2026


(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

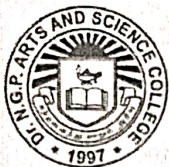
Board: Physics

Semester: III

Course Code / Name: 25PYP3DC, RADIOLOGICAL SAFETY ASPECTS

Unit	Existing	Changes
I	General Properties of Atomic Nucleus Scattering of Alpha particles - Nuclear size and Determination: Nuclear force methods, Electromagnetic methods - Mass spectroscopy - Basic components of mass spectrometers - Double focussing mass spectrograph - Double focussing mass spectrometer - Doublet method of mass spectroscopy - Mass synchronometer - Theories of nuclear compositions	Removed
II	Radioactivity and Isotopes Law of radioactive disintegration - Displacement laws of Soddy Russell and Fajans - Law of successive transformation - Radioactive equilibrium - Radioactive branching - Dosimetry - Induced radioactivity by nuclear bombardment - Mixture of activities - Radio isotope therapy - Measurements of decay constants - Isotopes (Separation and uses)	Removed
III	Interactions of Nuclear Radiations with Matter Interaction of charged particles with matter - Stopping power of heavy charged particles - Range and straggling - Stopping power and range of electrons - Cerenkov radiation - Synchrotron radiation - Absorption of gamma rays (Thomson, Rayleigh and Delbruck scattering) - Photoelectric effect - Compton effect - Pair production	Removed
IV	Detection and Measurement of Nuclear Radiations Ionization chamber - Semiconductor detectors - Diffused junction detector - Surface barrier detector - Lithium drifted junction detector - Regions of multiplicative operation - Proportional counter - Geiger Muller counter (Quenching of discharge) - Scintillation counters (Photomultiplier tube, Scintillators, Pulse formation, Resolving power)	Removed
V	Safety Concepts Radiation units - Equivalent dose - Effective dose - Committed dose - Collective dose - Genetically significant dose - detriment - Annual	Integration of Traditional Medicine with Radiological





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limit on intake - Sources of radiation - Interaction of radiation with tissue - Radiation risk - Sources of exposure - Leakage limits - Personnel monitoring – Film badge - Thermoluminescent dosimeter - Pocket dosimeter	Diagnosis - IKS in Radiation Emergency Preparedness
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PERCENTAGE OF SYLLABUS REVISED : 11%

COURSE FOCUS ON :

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

Faculty: Basic and Applied Sciences

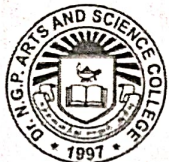
Board: Physics

Semester: III

Course Code / Name: 25PYP3CD/ Microprocessor and Microcontroller

Unit	Existing	Changes
I	Intel 8085 microprocessor: Architecture and its operations - 8085 Microprocessor Unit - Data transfer operations - Arithmetic operations - Logical operations - Branching and machine control operations - Addressing modes - Writing assembly language programs: Looping, counting and indexing - Counters and time delays - Stack - Subroutine.	8255A Programmable Peripheral Interface (PPI) – A/D converter – 8257 DMA controller – Interfacing – Programming and Execution
II	Features of 8086 - Architecture – Pins and signals – Minimum mode and maximum mode signals – External memory addressing - 8 bit data transfer – 16 bit data transfer – Interrupt processing – Response to interrupt – Classification of interrupt – Interrupt priority. Addition, subtraction and multiplication	No Change





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	programs.	
III	Features of microcontroller and 8051 - Difference between microprocessor and microcontroller – 8051 Architecture - Pins and signals 8051- Memory organization – Special function register (SFR) – 8051 Interrupts - Execution – Sources – Enabling and disability – Priority- Timing- Level of Interrupts - Data types and directives Instruction set - Addition, subtraction and multiplication programs.	No Change
IV	LCD Interfacing: LCD operation - LCD pin descriptions - LCD Addressing- Keyboard Interfacing - ADC Interfacing: ADC devices - ADC 0804 Chip - Programming ADC 0804 in Assembly - DAC Interfacing: DAC 0808 - Current to voltage in DAC0808 - Sensor Interfacing: Temperature sensor - Signal conditioning and interfacing the LM35 to 8051.	No Change
V	Features of 8086 – Architecture – Pins and signals – Minimum mode and maximum mode signals – External memory addressing – 8-bit data transfer – 16-bit data transfer – Interrupt processing – Response to interrupt – Classification of interrupt – Interrupt priority. Addition, subtraction and multiplication programs	ARM Architecture: ARM Processor fundamentals - ARM Architecture - Register, CPSR, Pipeline, exceptions - interrupts interrupt vector table - ARM instruction set - Data processing - Branch instructions - load store instructions - Software interrupt instructions - Program status register instructions.

PERCENTAGE OF SYLLABUS REVISED : 30 %

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 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

Board: Physics

Faculty: Basic and Applied Sciences

Semester: III

Course Code / Name: 24PYP3CP, Electronics -III

Exp. No.	Existing	Changes
1	Construct the Wien Bridge Oscillator using OP-AMP and verify the output performance by digital cathode ray oscilloscope.	No Change
2	Construct Binary added weighted resistor by using OP-AMP.	No Change
3	Construct Binary adder and Subtractor using IC 7483 and IC 7486.	No Change
4	Verify the characteristics of Photodetector using digital multimeter.	No Change
5	Study the characteristics of voltage doubler using digital voltmeter.	No Change
6	Design of Saw tooth wave generators using OPAMP.	No Change
7	Study the characteristics of SCR.	No Change
8	Construct monostable multivibrator using Op-AMP/NE 555.	No Change
9	Characteristics of Tunnel Diode 1N3716.	No Change
10	Construct half adder and full adder circuits using NAND gates and study their performance.	Measure the distance of an object using an ultrasonic sensor (HC-SR04) interfaced with Raspberry Pi and display the measured distance on a LED display.
11	Construct voltage regulated power supply using Zener diode.	Measure ambient temperature using an LM35 sensor interfaced with Raspberry Pi and indicate threshold crossing using an LED.
12	Construct a 12-0-12 power supply using IC	Measure ambient light intensity using an LDR (Light Dependent Resistor) interfaced with Raspberry Pi and control an LED based on the light level





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PERCENTAGE OF SYLLABUS REVISED : 25%

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 type="checkbox"/> Intellectual Property Rights | <input type="checkbox"/> Gender Sensitization |
| <input checked="" type="checkbox"/> Social Awareness/ Environment | <input type="checkbox"/> Constitutional Rights/ Human Values/ Ethics |

Syllabus Revision

Faculty: Basic and Applied Sciences

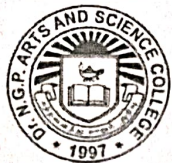
Board: Physics

Semester: III

Course Code / Name: 25PYU5DA, RENEWABLE ENERGY SOURCES

Unit	Existing	Changes
I	Alternate Sources of Energy Fossil fuels and nuclear energy their limitation - Need of renewable energy - Nonconventional energy sources - An overview of developments in offshore wind energy - Tidal energy - Wave energy systems - Ocean thermal energy conversion - Solar energy -Biomass and bio energy in indigenous practices - Biochemical conversion - Biogas generation - Geothermal energy tidal energy -Hydroelectricity	No changes
II	Solar Energy Solar energy and its importance - Storage of solar energy - Solar Pond - Non convective solar pond - Applications of solar energy - Solar water heater - Flat plate collector - Solar distillation - Solar cooker - Solar greenhouses - Solar energy in ancient Indian knowledge - Solar cell - Absorption air conditioning - Need and characteristics of photo-voltaic (PV) systems - PV models and equivalent circuits and sun tracking systems	Removed





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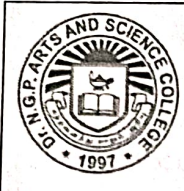
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III	Photovoltaic Systems Photovoltaic principle – Basic silicon solar cell – Power output and conversion efficiency – Limitation to photovoltaic efficiency – Basic photovoltaic system for power generation – Advantages and disadvantages – Types of solar cells – Application of solar photovoltaic systems – PV Powered fan – PV powered area lighting system – A hybrid system - Dye sensitized solar cells	No change
IV	Energy from Biomass Biomass conversion technologies – Factors affecting bio digestion – Biogas generation Working of biogas plant – Advantages and disadvantage of floating and fixed dome type plant – Biogas from plant wastes – Methods for obtaining energy from biomass – Advantages and disadvantages of biological conversion of solar energy	Removed
V	Energy Sources and Indigenous Practices Wind energy conversion – Classification and description of wind machines - wind energy collectors – Energy storage – Wind data – Energy audit – Energy and power from waves – Wave energy conversion devices – Fuel cells and application of fuel cells – Batteries – Advantages of battery for bulk energy storage – Supercapacitors - Hydrogen as alternative fuel for motor vehicles. Foundations of energy in Indian thought - Wind and hydro energy practices	No Change





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PERCENTAGE OF SYLLABUS REVISED : 3%

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 type="checkbox"/> Intellectual Property Rights | <input type="checkbox"/> Gender Sensitization |
| <input checked="" type="checkbox"/> Social Awareness/ Environment | <input type="checkbox"/> Constitutional Rights/ Human Values/ Ethics |





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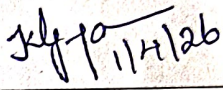
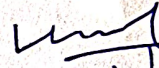
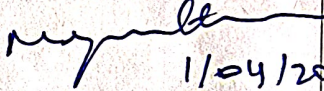

21st

ATTENDANCE OF THE TWENTY FIRST BOARD OF STUDIES MEETING

Faculty : Basic and Applied Sciences
Venue : Room no. 1513 –B1 Block
Date : 01/04/2026
Time : 10:30 a.m.

Board: Physics

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	 11/4/26
2.	Dr. D. Nataraj Professor, Department of Physics, Bharathiar University, Coimbatore Email : de.nataraj@buc.edu.in Cell : 9994734020	VC Nominee	 01/04/26
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)	 1/04/2026
4.	Dr. R. Ramesh Babu Professor and Head Department of Physics Bharathidasan University Email rameshbabu.r@bdu.ac.in Cell : 9942060925	Member (Subject Expert)	Online Present
5.	Dr. S. Logeshkumar Consultant – Expert Electronics, KV industries, Greenergy energy solutions, Coimbatore Email:logesh.tamil@gmail.com Cell : 9894586216	Member (Industry Expert)	 1/4/26



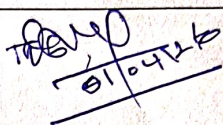
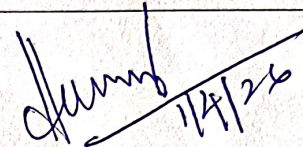

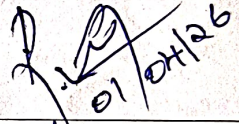
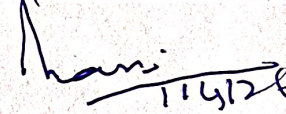
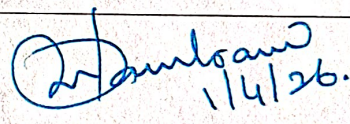
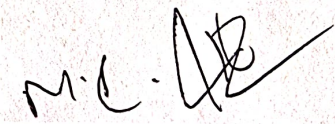
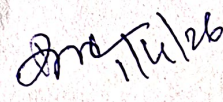


Dr. N.G.P. ARTS AND SCIENCE COLLEGE

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Dr. N.G.P.-Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India.
Website: www.dmgpsc.ac.in | Email: info@dmgpsc.ac.in. | Phone: +91-422-2369100

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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)	— AB —
7.	Dr. N. Kuppusamy Professor & Head Department of Tamil Dr. N.G.P. ASC	Co-opted Member	 01/04/26
8.	Dr. A. Hazel Verbina Professor & Head Department of English Dr. N.G.P. ASC	Co-opted Member	 1/4/26
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13.	Dr. V. Gopalakrishnan Professor Department of Physics Dr. N.G.P. ASC	Member	— AB —
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15.	Mrs. R. Revathi Assistant professor Department of Physics Dr. N.G.P. ASC	Member	 1/4/26



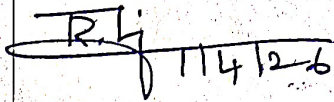




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16.	Dr. R. Karunathan Assistant Professor Department of Physics Dr. N.G.P. ASC	Member	
17.	Dr. R. Dilip Assistant Professor Department of Physics Dr. N.G.P. ASC	Member	— AB —
18.	Dr. J Martin Sam Gnanaraj Assistant Professor Department of Physics Dr.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

Date: 01/04/2026


(Dr. K. Girija)

Chairman/Head
Department of Physics
Dr. N. G. P. Arts and Science College
Coimbatore - 641 048

