

(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
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19th

BoS

Department of Physics

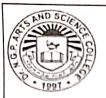
Board of Studies Meeting

The minutes of the 19th meeting of the Board of Studies held on 28.06.2025 at 10.00 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	Mr. R. Sivaananthavela Managing Director INPHOENOX Edu- Tech 51/1 Mettukadu 2nd street, Narasimapuram, Kuniyamuthur, 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 19.1. To review and approve the minutes of the previous meeting held on 08.11.2024.

The Chairman of the Board presented the minutes of the previous meeting held on 8.11.2024 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 8.11.2024.

Item 19.2. To approve the scheme, regulations and syllabus for the I Semester, for the students admitted in PG in the academic year 2025-26.

The Chairman presented the detailed scheme and regulation for the students admitted during the academic year 2025-2026 and syllabus for the I semester. The syllabus of A.Y 2024-25 will be followed without any modifications for PG students admitted during the A.Y 2025-26, with 8-digit subject code.





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After the discussion the following resolution was passed.

Resolution:

Resolved to adopt the syllabus of A.Y 2024-25 for the students admitted for the academic year 2025-26.

Item 19.3. To review and approve scheme, regulation and syllabus for the III Semester, for students admitted in UG and PG in the academic year 2024-25.

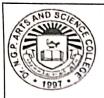
Changes Made:

M.Sc. Physic	M.Sc. Physics			
Code	Course	Changes and Reason		
24PYP3CA	Core: Quantum Mechanics II	The following changes have been made as per		
		the suggestion given by subject expert Dr. R.		
		Ramesh Babu and Dr. M. Ulaganathan as the		
		concept has been studied in Undergraduate level.		
		Unit 1- "Bohr Sommerfield Quantum Condition"		
		topic was deleted.		
24PYP3CP	Core: Practical: Electronics III	The following change have been made as per the		
		suggestion given by Industrial Expert Dr. S.		
12.1		LogeshKumar, as JFET has been introduced in II		
		Semester and the added Experiment would help		
		students to construct a power supply.		
		Deleted Experiment No.12 - "Study the		
		Characteristics of JFET" and added "Construct a		
		12-0-12 power supply using IC"		

The Chairman presented the syllabus of Self-study Course offered in Semester III for UG and PG students.

B.Sc. Physics			
Code	Course		
24PYUSSA	Electrical and Electronic Appliances		
24PYUSSB	Biophysics		





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M.Sc. Physics			
Code Course			
24PYPSSA	4PYPSSA IPR, Innovation and Entrepreneurship		
24PYUSSB	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 2024-25. The Self study course was also approved.

Item 19.4. To review and approve scheme, regulation and syllabus for the V Semester, for students admitted in UG in the academic year 2023-24.

The Chairman presented the detailed scheme, regulation and syllabus for the students admitted in the academic year 2023-24 and syllabus for the V semester. The members deliberated in detail about the modifications required. After discussion it was unanimously decided to adopt the following changes.

Changes Made:

Code	Course	Changes and Reason
232PY1A5CA	Core: Mathematical Physics	The following changes have been made
		as per the suggestion given by VC
		Nominee Dr. D. Nataraj and subject
		expert Dr. M. Ulaganathan to incorporate
		application-oriented topic.
		Unit 1- "Null matrices" topic was deleted
	[[11] [12] : [[12] [12] [13] [13] [13] [13] [13] [13] [13] [13] [13] [13] [13] [13] [13] [13]	and "Conjugate transpose of a
3. OF		Matrix" topic was added.
		Unit 3 - "Product of two vectors" topic
		was deleted and "Reciprocal
,		system of vectors" was added.





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232PY1A5CC	Core: Solid State Physics	The following changes have been made
		as per the suggestion given by the subject
		expert Dr. R. Ramesh Babu to gain more
and the second of		insights on crystal structure.
		Unit 1- "Atomic packing and atomic
		radius" topic was deleted as it
*	- gw 1	would be covered in Nuclear and Atomic
		Physics course and "Unit cell
		characteristics for SC, BCC, FCC, HCP"
		topic was added.
232PY1A5DA	DSE: Renewable Energy Sources	The incorporation of IKS topics have been
		made in Unit V, as per the suggestion given
		by VC Nominee Dr. D. Nataraj and subject
		expert Dr. M. Ulaganathan.
		Unit V- Title Energy Sources and Indigenous
		Practices
		Foundations of energy in Indian thought -
100 mg		Solar energy in ancient Indian knowledge -
		Wind and hydro energy practices - Biomass
		and bio energy in indigenous practices.

The Chairman presented the syllabus of Generic Elective course (GE) – Eco Physics (232PY1A5GA) 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 2023-24. The GE course was also approved.

Item 19.5. 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) – Python Programming and Data Analytics for a duration of 36 hours to be offered for Physics students





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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 19.6. 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 2025-2026.

Item 19.7: 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 V semester for UG and III Semester for PG for approval for equivalency.

Resolution:

Resolved to approve the NPTEL courses offered in V semester for UG and 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: 28.06.2025

BoS Chairman/HoD

Department of Physics

Dr. N. G. P. Arts and Science College

College Page | 6





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Syllabus Revision

Faculty: Basic and Applied Sciences

Semester: III

Board: Physics

Course Code / Name: 24PYP3CA /QUANTUM MECHANICS - II

Unit	Existing	Changes
I	Time Independent Perturbation Theory – Non-Degenerate Energy Levels – First and	Bohr
	Second Order - Degenerate Energy Levels - Variation Method: Upper Bound on	Somerfield
	Ground State Energy - Applications to Excited State - Hydrogen Molecule -	Quantum
	Exchange Interaction - WKB Approximation: One Dimensional Schrodinger	Condition
	Equation - Bohr Somerfield Quantum Condition - Barrier Penetration.	deleted
II	Partial Waves - Significant Number of Partial Waves - Partial Wave Analysis -	No Change
	Asymptotic Behavior of Partial Waves - Phase Shifts - Scattering Amplitudes in	
	Terms of Phase Shifts - Differential and Total Cross Section: Optical Theorem -	
	Phase Shifts: Relation to The Potential – Transformation from Centre of Mass to Lab	
	Frame.	
III	Introduction - Transition probabilities - Constant and Harmonic perturbations -	No Change
	Transition probabilities – Fermi's golden rule – Selection rules for dipole radiation –	a commission
	Adiabatic approximation – Sudden approximation – Magnetic resonance – Semi-	
	Classical treatment of an atom with electromagnetic radiation.	
IV	Klein-Gordon Equation and Its Interpretation - Equation of Continuity - Dirac	No change
	Equation for A Free Particle – Dirac Matrices – Covariant Form of Dirac Equation -	140 change
	Probability Density - Plane Wave Solutions - Interpretation of Negative Energy	
	States – Antiparticle - Spin of Dirac Particle.	
V	Classical Fields – Euler Lagrange Equations – Hamiltonian Formulation – Noether's	No Change
	Theorem - Quantization of Real and Complex Scalar Fields: Creation, Destruction	140 Change
	and Number Operators - Fock States - Second Quantization of K.G. Field.	

	SE FOCUS ON	: 2 %	
✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/ Human Values/





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Syllabus Revision

Faculty: Basic and Applied Sciences

Board: Physics

Semester: III

Course Code / Name: 24PYP3CP / CORE PRACTICAL: 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.	12 "Construct o
2	Construct Binary added weighted resistor by using OP-AMP.	12. "Construct a 12-0-12 power
3	Construct Binary adder and Subtractor using IC 7483 and IC 7486. supply using IC	
4	Verify the characteristics of Photodetector using digital multimeter.	
5	Study the characteristics of voltage doubler using digital voltmeter.	
6	Design of Saw tooth wave generators using OPAMP.	
7	Study the characteristics of SCR.	
8	Construct monostable multivibrator using Op-AMP/NE 555.	
9	Characteristics of Tunnel Diode 1N3716.	
10	Construct half-adder and full-adder circuits using NAND gates and study their performance.	
11	Construct voltage regulated power supply using Zener diode.	
12	Study the characteristics of JFET.	

	PERCENTAGE OF SYLLABUS REVISED : 8 % COURSE FOCUSES ON:				
V	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: V

Course Code / Name: 222PY1A5CA/MATHEMATICAL PHYSICS

Unit	Existing	Changes
I	Matrix: Null Matrices - Diagonal, Scalar and Unit	Matrix: Special types of matrices Diagonal, Scalar
	Matrices - Upper - Triangular and Lower -	and Unit Matrices - Upper - Triangular and Lower -
10	Triangular Matrices - Transpose of a Matrix -	Triangular Matrices - Transpose of a Matrix -
	Symmetric and Skew - Symmetric Matrices -	Conjugate of a Matrix - Conjugate transpose of a
	Conjugate of a Matrix-Hermitian and Skew-	Matrix - Symmetric and antisymmetric matrices -
	Hermitian Matrices - Singular and Non-Singular	Hermitian and Skew-Hermitian Matrices - Singular
	matrices - Orthogonal and Unitary Matrices - Rank	and Non-Singular matrices - Orthogonal and Unitary
	of a matrix.	Matrices - Rank of a matrix.
II .	Eigen values and Eigen vectors: Eigen values and	No Change
	Eigen vectors of Matrix - Diagonalization of	
	Matrices - Properties of Eigen values and Eigen	
	Vectors of Orthogonal, Hermitian and Unitary	
	Matrices -Cayley-Hamiliton Theorem (Statement	
- 10	only). Inverse of a matrix using Cayley-Hamiltion	
	Theorem -Application of Matrices: Solving ordinary	
	second order differential equations - Coupled Linear	[[[[[[[[[[[[[[[[[[[[[
1 - 1 - 6	Ordinary Differential Equations of first order.	
III	Vector Calculus: Addition of Vectors -	Vector Calculus: Addition of Vectors -
2_	Multiplication of Vectors by a Scalar - Orthogonal	Multiplication of Vectors by a Scalar - Orthogonal
	Resolution of Vectors - Rotation of Coordinates -	Resolution of Vectors - Rotation of Coordinates -
	Product of two vectors - Physical Applications:	Product of two vectors - Physical Applications: Work
	Product of two vectors - Work done by Force -	done by Force - Activity of a Force - Torque about a
	Activity of a Force - Torque about a Point - Angular	Point - Angular Velocity of Rigid body - Reciprocal
	Velocity of Rigid body.	system of vectors.
IV	Integral Calculus: Line integral, surface integral	No Change
	and volume integral - Fundamental theorem of	
94 A	Gradients - The divergence of a vector - Gauss's	
	Divergence Theorem (Statement only) - The	사용 보고를 보면하다 만든 마시네트로
	fundamental theorem of curl - Stoke's theorem	
	(Statement only). Divergence less and curl less	
	fields. Curvilinear co-ordinates: Spherical Polar	
	coordinates – Cylindrical coordinates (Basics).	





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V	Special Functions: Definitions – The Beta	function	No Change
	- Gamma function - Evaluation of Beta fi	unction -	
	Other forms of Beta function - Evalu	ation of	
	Gamma function – Other forms of Gamma f	unction -	The second section is a second section of the second section of the second section is a second section of the second section of the second section is a second section of the
	Relation between Beta and Gamma fun		
K (68)	Dirac's delta function.		
		P 3	
PERC	CENTAGE OF SYLLABUS REVISED : 8	007	
	RSE FOCUS ON :	8%	
COOL	ASE FOCUS ON :		
1	Skill Davidania		
	Skill Development		Entrepreneurial Development
√	^J Employability	\checkmark	Innovations
- 1	Intellectual Property Rights	美国的	Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/ Human Values/
			Ethios





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Syllabus Revision

Faculty: Basic and Applied Sciences

Semester: V

Board: Physics

Course Code / Name: 232PY1A5CC/ SOLID STATE PHYSICS

Unit	Existing	Changes		
1	Crystal Symmetry: Crystallography - Distinction between crystalline and amorphous solids -	Unit cell		
	Crystal lattice - Basis - Crystal structure - Unit cell - Number of lattice points per unit cell -	characteristics		
	Bravais lattices - Interplanar distance - Miller indices - Atomic packing - Atomic radius -	for SC, BCC,		
	Lattice constant and density - Types of cubic lattice - NaCl crystal - Structure of diamond	FCC, HCP		
П	Bond Theory and Thermal Properties of Solids: Classification of solids - Basics of Bond	No Change		
	theory in crystals - Ionic, Covalent, Metallic, Molecular and Hydrogen bonding - Specific	- 1 ° 1 ° 1 ° 1 ° 1 ° 1 ° 1 ° 1 ° 1 ° 1		
	heat capacity of solids - Einstein's theory of specific heat of solids - Debye's theory of			
	specific heat capacity of a solid - Hall Effect: Hall voltage and Hall coefficient - Mobility and			
	Hall angle - Importance of Hall effect - Experimental determination of Hall coefficient			
III	Magnetic Properties: Dia, Para, and Ferromagnetic materials - Langevin's theory of	No Change		
	diamagnetism - Langevin's theory of paramagnetism - Ferromagnetism - Domain theory of			
	Ferromagnetism - Hysteresis based on domains - Antiferromagnetism - Ferrimagnetism -			
	Structure of Ferrites			
IV	Dielectric Properties: Band theory of solids - Polarization - Types of polarizabilities-	No Changes		
	Dielectric constant and displacement vector - Dielectric loss - Clausius Mosotti relation -			
	Properties of dielectrics in alternating fields - Ionic polarizability as a function of frequency -			
~ .	Effects of dielectrics	27 61		
V	Superconducting Properties and Applications: Introduction - General properties of	No Change		
	superconductors - Effect of magnetic field - Meissner effect - Specific heat - Isotope effect - London equations - Type-I and Type-II superconductors - Explanation for the occurrence of			
	superconductivity - BCS theory - High temperature superconductors			
DEI	RCENTAGE OF SYLLABUS REVISED : 2 %			
COURSE FOCUS ON :				
-				
	✓ Skill Development Entrepreneurial Development			
_				
	Employability Innovations			
_				
	Intellectual Property Rights Gender Sensitization			
_				
	Social Awareness/ Environment Constitutional Rights/ Human Value	ies/		
	Ethics			





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Syllabus Revision

Faculty

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Board: Physics

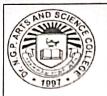
Semester

: V

Course Code / Name : 232PY1A5DA / RENEWABLE ENERGY SOURCES

Unit	Existing	Changes
1	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 - Biochemical conversion - Biogas	No Change
П	generation -Geothermal energy tidal energy -Hydroelectricity. Solar Energy Solar energy and its importance -Storage of solar energy - Solar pond - Non convective solar pond -Applications of solar pond and solar energy - Solar water heater - Flat plate collector - Solar distillation - Solar cooker - Solar greenhouses - Solar cell - Absorption air conditioning - Need and characteristics of photovoltaic (PV) systems - PV models and equivalent circuits and sun tracking systems.	No Change
III	Photovoltaic Systems Introduction—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 Introduction—Biomass conversion technologies— Biogas generation—Factors affecting biodigestion—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.	No Change
	Wind Energy and Other Energy sources 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 - Solar energy in ancient Indian knowledge - Wind and hydro energy practices - Biomass and bio energy in	Energy Sources and Indigenous Practices Foundations of energy in Indian thought - Solar energy in ancient Indian knowledge - Wind and hydro energy practices - Biomass and bio energy in indigenous practices.





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	ENTAGE OF SYLLABUS REVISED	; 8	3 %	
COUR	SE FOCUS ON	:		
V	Skill Development			Entrepreneurial Development
V	Employability		✓	Innovations
	Intellectual Property Rights			Gender Sensitization
V	Social Awareness/ Environment			Constitutional Rights/ Human Values/





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ATTENDANCE OF THE NINETEENTH BOARD OF STUDIES MEETING

Faculty: Basic and Applied Sciences

Board: Physics

Venue :

Room no. 1513 -B1 Block

Date

: 28/06/2025

Time : 10:00 AM

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

S. No.	Name	Designation	Signature	
1.	Dr.K.Girija Associate Professor & Head (i/c)	Chairman	14/28/6/2025	
2.	Dr. D. Nataraj Professor, Department of Physics, Bharathiar University, Coimbatore Email: de.nataraj@buc.edu.in Cell: 9994734020	VC Nominee	er 28/6/15	
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)	Dr. M. ULAGANATHAN Associate Professor Department of Physics Amrita School of Physical Science Amrita Vishwa Vidyapeetham, Coimbatore - 641 112. India.	
4.	Dr.R.Ramesh Babu Professor and Head Department of Physics Bharathidasan University Email : rameshbabu.r@bdu.ac.in Cell: 9942060925	Member (Subject Expert)	B. No 286/2025	
5.	Dr. S. Logeshkumar Consultant – Expert Electronics, KV industries, Greenergy energy solutions, Coimbatore Email:logesh.tamil@gmail.com Cell: 9894586216	Member (Industry Expert)	Green	



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31.5	eAOHAN ressor hysies ar Screen sapcerham Factoring	Dr.R.Ravikumar Professor&Head (i/c) Department of Chemistry Dr.N.G.P. ASC	Co-opted Member	25025
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	13.	Dr.V.Gopalakrishnan Professor Department of Physics Dr.N.G.P ASC	Member	Office land 28





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Date: 28/06/2025

July 028/6/2025 (Dr. K. Girija)

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