

UG**B.Sc. Physics with
Computer Applications**

B.Sc. PCA is a 3-year program which will be a bridging block for the graduates to understand and orient themselves into two major courses namely physics and computer science. The curriculum is designed to become a competent professional.

Eligibility *Candidates should have passed HSLC conducted by Govt. of Tamil Nadu or equivalent inclusive of Physics and Mathematics with a minimum of 60% marks*

First Semester:

Properties of Matter and Acoustics, Web design, Physics Practical I, Mathematics I, Web design Practical

Second Semester:

Heat, Thermodynamics and Statistical Physics, Object Oriented Programming in C++, Physics Practical II, Mathematics II, Object Oriented Programming in C++ Practical

Third Semester:

Mechanics, Optics and Laser Physics, Operating System, Physics Practical III, Numerical Methods and C Programming, DSE I – Physics for Everyday life/Medical Instrumentation, Industrial visit

Fourth Semester:

Atomic and Nuclear Physics, Electricity, Magnetism and Electromagnetism, JAVA Programming, Physics Practical IV, JAVA Programming Lab, Communication Systems, Energy Physics/Nanoscience and Nanotechnology, EVS

Fifth Semester:

Analog and Communication Electronics, Quantum Mechanics and Relativity, Physics Practical V (General), Physics Practical VI (Electronics), DSE III – Mathematical Physics/Advanced Mathematical Physics/Material Science, Internship

Sixth Semester:

Solid state Physics, Digital Electronics and Microprocessor 8085, Physics Practical VII (General), Physics Practical VIII(Electronics), Programming in Python, Python Programming Lab, Project

**DWARAKA DOSS GOVERDHAN DOSS
VAISHNAV COLLEGE***(Autonomous)**Reaccredited with A++ Grade by NAAC**College with Potential for Excellence, Linguistic Minority Institution
Affiliated to the University of Madras, Chennai – 600 106***PG Department of Physics
(Shift II)****PROSPECTUS****2026-2027**

Dr. B. SYLAJA
Associate Professor
& Head i/c



**Capt. Dr. S. SANTHOSH
BABOO**
Principal



**Dr. ASHOK KUMAR
MUNDHRA**
Secretary

FACULTY MEMBERS

Dr. Z. Delci, M.Sc. M.Phil, Ph.D.,
Capt. Dr. P. Arularasan, M.Sc., Ph.D.,
Dr. C. Ramathilagam M.Sc., M.Phil., Ph.D.,
Dr. A. Chinnammal Janaki, M.Sc., M.Phil., Ph.D., PGDCA
Dr. B. Santhosh Kumar, M.Sc., Ph.D., SET
Dr. K. Annapoorani, M.Sc., Ph.D.,
Dr. S. Muniyappan, M.Sc., B.Ed., M.Phil., Ph.D.,
Dr. C. Yogeswari M.Sc., Ph.D.,
Dr. T. Sivaranjani M.Sc., Ph.D.,
Dr. K. Laavanya, M.Sc., M. Phil., Ph.D.,

PG**M.Sc. Physics**

M.Sc. (Physics) is a 2-year course with 4 semesters. The Postgraduate programme involves in-depth study of concepts in both theoretical and experimental Physics. This programme gives students a scope of developing their problem solving, mathematical, communication skills and critical thinking, which further broadens into interpreting scientific data that is essential for scientific research. The programme comprises the following courses

Eligibility

- ✓ *B.Sc. Physics with Mathematics as ancillary subject (or)*
 - ✓ *B.Sc. Triple major with Physics, Chemistry and Mathematics (or)*
 - ✓ *B.Sc. (Applied Science/Applied Physics) with Physics as major and Mathematics as an ancillary subject (or)*
 - ✓ *B.Sc. Physics with Computer Applications with Mathematics as ancillary subject*
- * Candidates should have a minimum of 60% marks.**

First Semester:

Mathematical Physics I, Classical Mechanics, Electromagnetic Theory, Quantum Mechanics I, Practical – I, Practical – II

Second Semester:

Mathematical Physics II, Condensed Matter Physics, Quantum Mechanics II, Introduction to Microprocessor 8085 and Microcontroller 8051, Practical – III, Practical – IV

Third Semester:

Statistical Mechanics, Nuclear & Particle Physics, Discipline Specific Elective – I, Discipline Specific Elective – II, Multidisciplinary Elective – I, Practical – V, Skill Enhancement Course – Solar Energy Utilization, Internship

Fourth Semester:

Discipline Specific Elective – III, Discipline Specific Elective – IV, Project, Skill Enhancement Course – X-Ray Diffraction and Crystallography

SALIENT FEATURES OF THE DEPARTMENT

- ✓ *Highly qualified faculty*
- ✓ *State of the Art Infrastructure facilities*
- ✓ *Value added courses*
- ✓ *Career guidance and counselling*
- ✓ *Placements*
- ✓ *Industrial visits, Environmental field trips*
- ✓ *Summer Internship and Project for PG students*
- ✓ *Sci-Cultural program RADIATE provides a platform for inter-collegiate events every year*
- ✓ *Meetings with Alumni is a regular program of the department.*
- ✓ *Scholarships to Students*
- ✓ *Soft Skill Development to enhance Employability*
- ✓ *A Magazine named 'ILLUMINATE' put-up by the students.*
- ✓ *A Physics Club "STARSTRUCK" under the PG Department of Physics encourages students of the Department to carry out academic and non-academic extra-curricular activities.*
- ✓ *The Department organizes workshops, seminars, conferences, and Skill enhancement programs to keep the students updated with the latest developments in the field of Physics.*

Seminars



Training Program



Student Welfare Activity



Intercollegiate Event - Radiate 2026



Alumni Meet



Extension Activity



EVS Trip



International Conference



Magazine Release



ABOUT THE DEPARTMENT

The Post Graduate Department of Physics is dedicated to excellence in teaching and committed to serve the student community. The Department offers a degree in Bachelor of Science in Physics with Computer Applications (B.Sc. PCA) since 2011 and Master of Science in Physics since 2000. The programme involves an in-depth study of concepts in both theoretical and experimental Physics. It provides students a scope of developing their problem-solving, mathematical, communication skills and critical thinking which further broadens into interpreting scientific data that is essential for research.

- ✓ To impart value based quality academia, to empower students with wisdom and to charge them with rich Indian tradition and culture.

VISION



- ✓ To invoke the self, to broaden the same towards Nation building, harmony and Universal brother hood

- ✓ To impart knowledge, enable the students acquire skills and imbibe values, develop their personality, mold their character.

MISSION



- ✓ To evoke a sense of empathy and social concern and thereby help them evolve into humane and responsible citizens.

Student Placements and Progression

M.Sc. Placements - 2026

S.No.	Name of the Student	Position	CTC	Name of the Organisation
1	Harini M	Mid School- Physics Faculty	3.36 L	Sri Chaitanya School
2	Nithin Mani M	Assistant Manager	13.96 L	Tamilnad Mercantile Bank

B.Sc. Placements - 2026

S.No.	Name of the Student	Position	CTC	Name of the Organisation
1	Kavi Priya N	Trainee	3.6 L	Guide House India Pvt. Ltd.
2	Dipesh Mishra	Trainee	3.6 L	Guide House India Pvt. Ltd.

Placement Partners



Contact

PG Department of Physics (Shift II),
Dwaraka Doss Goverdhan Doss Vaishnav College
833, Gokul Bagh, EVR Periyar Salai, Arumbakkam, Chennai

E-mail: hod-physics-eve@dgvaishnavcollege.edu.in

Apply online at <https://dgvc.in/>

M.Sc. Placements - 2025

S.No.	Name of the Student	Position	CTC	Name of the Organisation
1	Mahati Akarshika D	High School- Physics Faculty	3.36 L	Sri Chaitanya School
2	Shakthi R	Middle School-Physics Faculty	3 L	Sri Chaitanya School
3	Prasana Yuges K	Customer Service Executive	6.53 L	Tamilnad Mercantile Bank
4	Elakya V	Customer Service Executive	6.53 L	Tamilnad Mercantile Bank
5	Keerthi D	Teacher	1.92 L	Elite Matric. Hr. Sec. School
6	Thirumarana V N	Junior Research Analyst	3.45 L	Cream Collar EdTech Pvt Ltd

M.Sc. Progression – 2025

S. No.	Name of the Student	Course	Name of the Institute
1	Aravindhan S	B.Ed.	Sri Venkateshwara College of Education
2	John Milton J	B.Ed.	Meston College of Education
3	Matheswaran M	B.Ed.	Sri Venkateshwara College of Education
4	Dharshini R	B.Ed.	Rangaswamy College of Education
5	Ramya D	B.Ed.	Rangaswamy College of Education
6	Sharmila S	B.Ed.	Nazareth College of Education for Women
7	Saroo Sree R	B.Ed.	Rangaswamy College of Education
8	Madhusree J	Ph.D	Khalifa University, UAE

B.Sc. Placements - 2025

S.No.	Name of the Student	Position	CTC	Name of the Organisation
1	Mathesh M	Back –Office Executive	2.4 L	V-care
2	Abisha U	Back –Office Executive	2.4 L	V-care
3	Viswathi B	Business associate	3.6L	Internz Learn

B.Sc. Progression – 2025

S. No.	Name of the Student	Course	Name of the Institute
1	Abhishek V	M.Sc. Cyber Forensics and Information Security	University of Madras
2	Akash P K	M.Sc. Materials Science	University of Madras
3	Rithish D	M.Sc. Physics	VIT, Chennai
4	Deepika A	M.Sc. Information Technology	Women's Christian College
5	Harani V	M.Sc. Physics	Women's Christian College
6	Navinaa T	M.Sc. data Science	VIT, Chennai
7	Sridhar S	M.Sc. Computer Science	University of Madras