DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (SHIFT – II) (AUTONOMOUS)

Re-accredited with A++ Grade by NAAC College with Potential for Excellence, Linguistic Minority Institution Affiliated to University of Madras, Arumbakkam, Chennai – 600106

POSTGRADUATE DEPARTMENT OF PHYSICS (UNAIDED)



2023-2024

Email ID: hod-physics-eve@dgvaishnavcollege.edu.in

ABOUT THE DEPARTMENT

- The Department of Physics is dedicated to excellence in teaching and is committed to serve the students community.
- Degree in Bachelor of Science in Physics with Computer Applications (B.Sc. PCA)
- Masters of Science in Physics
- The Department aims to provide students with a strong foothold in fundamental concepts of physics as well as to enhance their experimental, theoretical and programming and professional skills



VISION

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

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



MISSION

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

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

Salient Features of the Department

- •Highly qualified faculty
- •Infrastructure facilities
- ■Value added courses
- •Career guidance and counseling
- **■**Placements
- ■Industrial visits, Environmental field trips
- Summer Internship for PG students
- •An Intercollegiate event RADIATE provides a platform for inter-collegiate events every year
- ■Meetings with Alumni is a regular program of the department.
- ■The department organizes Workshops, Seminars, guest Lecturers to keep the students updated about the latest developments in the field of Physics
- Soft skill Development to enhance Employability
- Exhibition and Competitions of working models carried out by students
- •Magazine named "ILLUMINATE" put up by the students

B.Sc. PHYSICS WIH COMPUTER APPLICATIONS

	Disc. IIII SICS WIII
	Physics Core Papers
I yed	ar
I Ser	mester
•	Physics Core Paper I Mechanics & Properties of Matter
•	Physics Core Practical – I
II Se	mester
•	Physics Core Paper II Basic Electronics
•	Physics Core Practical - II
II Ye	ar
III Se	emester
•	Physics Core paper III - Mathematical Physics
•	Physics Core Paper IV - Electricity and Electromagnetism
•	Physics Core Practical –III
IV Se	emester
•	Physics Core Paper V Optics
•	Physics Core Paper VI Quantum Mechanics
•	Physics Core Practical –IV
III Ye	ear
V Se	mester
•	Physics Core Paper VI I Thermal Physics and Acoustics
•	Physics Core Paper VIII Solid state Physics
•	Discipline Specific Elective I Integrated Electronics
•	Physics Core Practical V General
•	Physics Core Practical VI Basic Electronics
•	Physics Core Practical VII Applied Electronics
VI Se	emester
•	Physics Core Paper IX Nuclear and Particle Physics
•	Physics Core Paper X Atomic Physics
•	Discipline Specific Elective II - Microprocessor Fundamentals
•	Physics Core Practical VIII General
•	Physics Core Practical IX Basic Electronics

Physics Core Practical X Applied Electronics

Computer Core Papers

III Semester

- Computer Core paper I Web design
- Computer Core practical 1: Web design Lab
- Computer Core Paper II Object oriented Programming using C++
- Computer Core practical II Object oriented Programming using C++

IV Semester

- Computer Core paper III Operating System
- Computer Core Paper IV Database Management System using Visual Basic
- Computer Core Practical III RDBMS using VB

V Semester

- Computer Core Paper V Programming in Java
- Computer Core practical IV Java Programming

VI Semester

Digital Electronics

M.Sc. PHYSICS

MI.SC. PHISICS		
I year		
First Semester		
Mathematical Physics I		
Classical Mechanics		
Electromagnetic Theory		
 Advance Electronic Circuits 		
Core Practical I General Core Practical II Electronics	Second Semester	
	Mathematical Physics II	
	 Quantum Mechanics I 	
	Elective I —General theory of relativity, group theory, Spectroscopy	
	 Advanced Course I -Introduction to Microprocessor 8085 and Microcontroller 8051 	
II Year	Core Practical III General	
Third Semester	Core Practical IV Electronics	
Statistical Mechanics		
Quantum Mechanics II		
 Elective II – Medical Physics, Relativistic quantum Mechanics, Laser & Non-Linear Optics Fourth Semester 		
Elective III – Computational methods and	Condensed Matter Physics	
■ C Programming	 Nuclear and Particle Physics 	
Core Practical V Microprocessor 8085	 Advanced Course II -Material Synthesis and 	
Core Practical VI Computational Methods and C	Characterization	
Programming	Core Practical VII Microcontroller 8051	
	 Core Practical VIII Computational Methods and C Programming 	

Industrial Visit and EVS trip





MEMORANDUM OF UNDERSTANDING (MoU)

Dwaraka Doss Goverdhan Doss Vaishnav College, Arumbakkam, Chennai AND

Aptitude Buster, Erode, India
Astrone Solutions and Services, Chennai, India
Sindhujaa Academy for Science and Maths, Chennai, India
Ingu's Knowledge Academy Pvt. Ltd.
SkillsDA, Chennai, India, Floranix, Chennai, India





Aptitude Buster

Astrone Solutions and Services





Sindujaa academy for science and maths

Skillsda

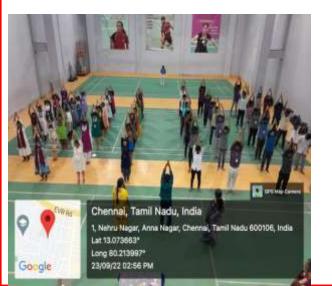
Activities of the Department Seminar Guest lecture







Student Welfare Activity – Yoga For Youth Empowerment







Activities of the Department Parents Teacher Meeting Alumni Meet





State Level Science Exhibition To Commemorate National Science Day "Atoms in the service of Mankind"





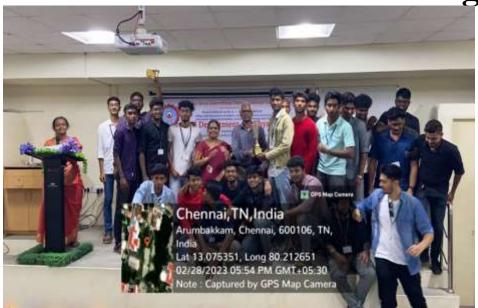


Activities of the Department National Level Workshop on DFT Calculation and Nanomaterial Characterization Techniques





Radiate 2023 - Intercollegiate Event



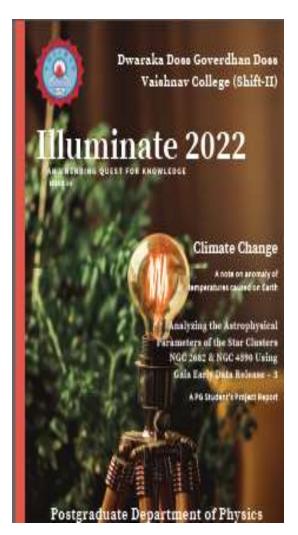
Infrastructural Facilities

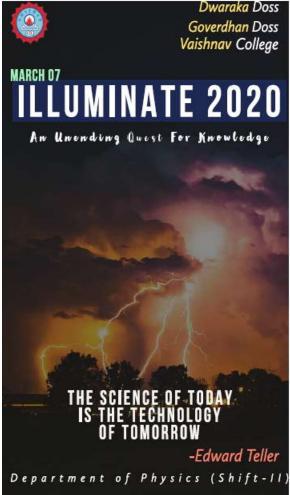
Computer
Lab with
Internet

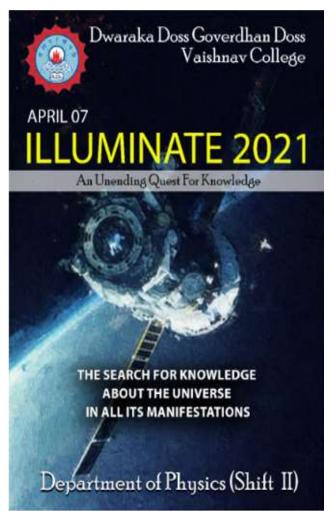
Classrooms-ICT



Department Magazine







Head i/c

Dr. B. Sylaja, M.Sc., M.Phil., Ph.D.

Faculty Members

- Dr. Z. Delci, M.Sc., M.Phil., Ph.D.
- Lt. Dr. P. Arularsan, M.Sc., Ph.D.
- Dr. C. Ramathilagam, M.Sc., M.Phil., Ph.D.
- Dr. Chinnammal Janaki, M.Sc., M.Phil., Ph.D., PGDCA
- Ms. Gomathy, M.Sc.
- Dr. B. Santhosh Kumar, M.Sc., Ph.D., SET
- Dr. K. Annaporani, M.Sc., Ph.D.
- Dr. S. Muniyappan, M.Sc., M.Phil., Ph.D.
- Ms. K. Laavanya, M.Sc., M.Phil.



Contact Us

#833, Gokul Bagh, E.V.R. Periyar High Road, Arumbakkam, Chennai 600106

hod-physics-eve@dgvaishnavcollege.edu.in

www.dgvaishnavcollege.edu.in