



CERTIFICATION COURSE - 2026 BATCH

STARTS 16 NOVEMBER 2026

Introduction to Nanotechnology

A two-week online certification course for building foundational understanding of matter, materials and devices at the nanoscale.

02

Weeks Duration

UG

Graduation Level

100%

Online mode

Rs 1000/-

Course fee

e-Cert

On completion

Course Creator



Dr. Purnima Swarup Khare
Popularly Known As

“PHYSIFER”

Creative name as a
Science Communicator

Brief Profile

- **Director** - School of Nanotechnology, RGPV, Bhopal (Accredited by NAAC A++)
- **Founder & Creator** - YouTube Channel – “PHYSIFER” in the Field of - Science, Technology & Nanotechnology
- **Research Projects** [Sponsored by External Agencies] in the field of - Materials for Renewable Energy Applications, Thermoelectric, Nanomaterials for Solar Cells, Optoelectronic Devices and Lithium-Ion Batteries.
- **International Field Projects** – World Bank Project on Energy Environmental Modelling, Asian Development Project on Carbon Emission Abatement - CDM [Clean Development Mechanism]
- **Research Papers** – [63 Nos.] in refereed high impact factor journals
- **Publication** – Globally Acclaimed Subjective/Text Books – [07 Nos] on Physics, Energy Environmental Management, Modern Physics, Experimental Physics, Nanotechnology etc.
- **Experience** – 40 years in Technical Education, Academics, Research and Professional Field Projects.

Course Coordinators

Mr. Pradeep Kumar Khiriya
Mr. Priyavand Bundela

Course Modules

M1 Introduction

What is Nanotechnology? History & existence of NT

M2 The Nano Scale

How small the nanoscale is? What is so special about nano scale objects?

M3 Nano Materials

What are nanomaterials? Classification of nanomaterials

M4 Working at Nanoscale

How to see the nano scaled objects? Equipments for practical measurement at nanoscale

M5 Synthesis & Characterization of Nanomaterials

Nano Synthesis Approaches [Top-Down & Bottom-up], Overview of Material's Characterization Techniques.

M6 Consolidation

Prospects & Scope of Nanotechnology, Career Opportunities in the field of Nanotechnology.



Who is this course for

- Graduating students of Engineering, Science or allied disciplines
- Students seeking a foundational credit-linked certification
- Entrepreneurs, Technology Enthusiasts of next Gen Technology & Startup
- Anyone aspiring to pursue carrier in the revolutionary field of Nanotechnology

Why This Course

- Concepts explained with real-world, industry-relevant examples
- Recorded lectures with flexible, self-paced weekly schedule
- Certificate [with final % grade marks] issued by RGPV on successful completion
- Doubt-clearing sessions with course faculty

Prerequisites to Enrol

- No prior background in nanotechnology required
- Basic understanding of Physics/Chemistry at 10+2 level recommended

Course Details

MODE	Online
ASSESSMENT	Online Quiz
SUPPORT	Doubt clearing sessions with the course faculty
CERTIFICATE	e-Certificate issued by RGPV on successful completion
OPTIONAL	Candidates may optionally appear for a Final Online Test for e-Certificate with Grade & Marks
AWARDS	Two types of course certificates will be awarded 1. Certification on "Introduction to nano technology". 2. Certificate with Grade Marks on "Introduction to nanotechnology".

Registration Open

OFFICE	School of Nanotechnology, RGPV, Bhopal
WEBSITE	www.rgpv.ac.in
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**COURSE INTRO
VIDEO (Click Here)**

**PRE-REGISTRATION
(Click Here)**