

PHYSICIST

A Physicist is a scientist specialized in the field of physics. His/her field of study includes the interactions of matter and energy in the physical universe. Physicists plan and conduct scientific experiments to test theories.

PERSONAL COMPETENCIES

- You would like to take up a course related to Physics
- You like to do experiments
- You are good at Math
- You can use a computer to solve a scientific problem



The approx. course fee ranges between **INR 80,000 - 5,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• National Scholarship Portal - Visit www.scholarships.gov.in. Under this portal there are Central Government schemes, UGC/AICTE Schemes and Assam Government Schemes offered by different departments*

• Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI*

• Scholarships are also available in the institutes based on merit*

**(Availability of these scholarships can vary from time to time)*

LOANS

• VidyaLakshmi, www.vidyalakshmi.co.in, is a portal for students seeking education loan. This portal has been developed under the guidance of the Department of Financial Services, (Ministry of Finance), Department of Higher Education (Ministry of Human Resource Development) and Indian Banks Association (IBA)

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



ENTRY PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Maths)
2. Complete Bachelor's degree (BSc) in Physics

OR

Complete Bachelor's degree followed by a Master's degree and PhD in the same or related field.

Please check the duration of the course during enrolment

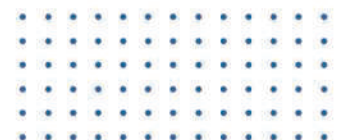


EXPECTED INCOME

**These figures are taken from NCS and are indicative and subject to change*

The approx. salary of a Physicist ranges between **INR 15,000 - 70,000*** per month.

Source: bit.ly/3kmKG3n



WHERE WILL YOU WORK?

Places of Work: Research Laboratories, Electronics and Electrical Manufacturing Companies, Non-governmental Organizations, Colleges/Universities, Defence Sector and others

Work Environment: You will work in an office or laboratory set up. You may handle a team. Local travel is not a part of the job profile. Organizations usually work 5 or 6 days a week and 8 or 9 hours everyday, but this may vary from organization to organization. Overtime may be required. Part-time and contractual jobs may be available

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Junior Researcher → General Physicist/
Teacher → Head of Department

Search keywords...



*physicist, physicist/mathematician,
nuclear physicist*

WHERE WILL YOU STUDY?

This course is offered by the Department of Mathematics. This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. IIT - Guwahati
2. Cotton Univeristy, Silchar
3. Dibrugarh University, Dibrugarh
4. Tezpur University, Tezpur
5. University of Delhi, New Delhi
6. Assam University, Silchar
7. Indian Institute of Technology, Jodhpur
8. Indian Institute of Technology, Kharagpur

PRIVATE INSTITUTES

(Please check if the institute is affiliated and accredited with UGC before applying)

1. Assam Down Town University, Guwahati
2. Royal Global Univeristy, Guwahati
3. St Joseph's College, Bangalore
4. PSG College of Arts and Science, Coimbatore
5. Assam Don Bosco University, Guwahati
6. Dr DY Patil Arts Commerce and Science College, Pune
7. Presidency University, Kolkata
8. St Teresa's College, Ernakulam

Information on the institute rankings can be found at - <https://www.nirfindia.org/2022/Ranking.html>

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

ONLINE COURSES

- Coursera- <https://in.coursera.org/search?query=mathematics&>
- Udemy - <https://www.udemy.com/courses/search/?src=ukw&q=mathematics>

ONLINE COURSES

- NPTEL* Swayam - <https://swayam.gov.in/explorer?searchText=physics>
- Udemy - <https://www.udemy.com/courses/-search/?src=ukw&q=physics>
- Coursera - <https://in.coursera.org/search?query=-physics&>

**NPTEL- National Programme in Technology Enhanced Learning. It is by the Government of India and offers a variety of courses in an audio - video form*

EXAMPLE FROM THE FIELD

Indrani Bose is an Indian physicist, and senior professor at Department of Physics, Bose Institute, Kolkata. Her fields of specialization are theoretical condensed matter, quantum information theory, statistical physics, biological physics and systems.*

Source: <https://www.researchgate.net/profile/Indrani-Bose>

**The above information is for training purposes only and will not be used for any commercial gains*