

Research



INTRODUCTION

Research is defined as a careful consideration of study regarding a particular concern or a problem using scientific methods. According to the American sociologist Earl Robert Babbie, “Research is a systematic inquiry to describe, explain, predict and control the observed phenomenon. Research involves inductive and deductive methods.”

SKILL SET

- Logical
- Communication.
- Attention to detail.
- Critical thinking.
- Ability to maintain quality, safety and/or infection control standards.
- Technical skills.
- Data collection.
- Data analysis.
- Planning and scheduling.

TOP INSTITUTES

- **National Institute of Science Education and Research, Bhubaneswar**
Course: 5-year integrated M.Sc. Programme in basic sciences
Eligibility: 10+2 with 60% marks and regular science stream in classes XI and XII.
Admission Mode:
 - NEST (National Entrance Screening Test)
- **University of Mumbai by the Department of Atomic Energy**
Course: 5-year integrated M.Sc. Programme in basic sciences
Eligibility: 10+2 with 60% marks and regular science stream in classes XI and XII.
Admission Mode:
 - NEST (National Entrance Screening Test)
 - Qualified KVPY (KISHORE VAIGYANIK PROTSAHAN YOJNA)
 - Medalists of Science Olympiads

➤ **Panjab University, Chandigarh**

Course: Bachelor of Science (H) in Biophysics

Eligibility: 10+2 with 50% marks (45% marks in case of SC/ST) with PCM/B

Admission Mode: PU-CET Rank+ 12th marks

➤ **Indian Institutes of Science Education and Research**

Behrampur, Bhopal, Kolkata, Mohali, Pune, Thiruvananthapuram, Tirupati

Course:

- BS Four year
- BS-MS dual degree Five year

Eligibility: 10+2 in PCB/PCM/PCMB

Admission Mode:

- KVPY
- IISER Aptitude Test (IAT)
- JEE(Advanced)

➤ **Chennai Mathematical Institute, Chennai**

Course:

- B.Sc. (Hons) Mathematics and Computer Science
- B.Sc. (Hons) Mathematics and Physics

Eligibility Criteria: 12th standard or equivalent

Admission Mode: Entrance Test

➤ **Indian Statistical Institute, Kolkata & Bangalore**

Course:

- B. Math. (Hons) at Bangalore
- B. Stats. (Hons) at Kolkata

Eligibility: 10+2 with Mathematics & English

Admission Mode: Entrance Based

➤ **Indian Institute of Science, Bangalore**

Course: B.Sc. (Research)

Eligibility: Only PCM/PCMB, Statistics, Electronics, Computer Science, etc. securing a minimum of 60%

Admission Mode:

- KVPY
- JEE Main
- JEE Advanced
- NEET

➤ **Institute of Mathematics and Applications, Bhubaneswar**

Course: B.Sc. (Hons.) in Mathematics and Computing

Eligibility: 12th Class from any stream with Mathematics and English as a subject

Admission Mode: Entrance Test (IMA)

➤ **Visva Bharati University, Santiniketan**

Course: 5-year integrated M.Sc. Programme in basic sciences

Eligibility: 10+2 with 60% marks PCB/ PCM

Admission Mode: Through NEST (National Entrance Screening Test)

➤ **IIIT Hyderabad**

Course: 5-year integrated B.Tech-MS program

Bachelor of Technology (B.Tech)	Master of Science (MS) by Research
Electronics and Communication Engineering	Electronics and Communication Engineering
Computer Science and Engineering	Computer Science and Engineering
Computer Science	Computational Linguistics
Computer Science	Computational Natural Sciences
Computer Science	Computing and Human Sciences

Eligibility: 10+2 with 60% marks PCM

Admission Mode: Through Entrance (UGEE)

This exam has two sections:

- a) SUPR – Subject Proficiency test for 60 minutes.
- b) REAP – Research Aptitude Test for 120 minutes.

JOB PROSPECTS

- Medical Research Scientist
- Life or Biological Science Researchers
- Agricultural Researchers
- Research Psychologist
- Physical Scientist Researchers
- Mathematician Researchers
- Program Researcher
- Gravity Researcher
- Research in Chemistry

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