

**Educated since 1971**

**Over**

2000 M. Sc. students

150 M. Tech. students

300 M.Phil. students

200 Ph.D. students

## Funding

National Laser Program 1995

M.Sc. Materials Science under  
UGC Innovative program 2004

FIST, DST 2004

UGC SAP-DRS (I) -2016

Various Major Research  
Projects to Faculty

Funding in last five years: 3.72 cr

## Highlights

Excellent teaching-learning process.

Effective experience of pursuing research,  
teaching and development at Universities  
and Laboratories of International repute.

State of art laboratories: Electronics,  
Optics, Microprocessor, Laser, Non linear  
optics, Magnetic materials, Insertion devices,  
X-ray spectroscopy, Material Science and  
High Power Microwaves.

## MOUs with Intn'l & Ntl Labs

UGC-DAE CSR, Indore

RRCAT, Indore

PRL, Ahmedabad

IPR, Gandhinagar

CSIR-CEERI, Pilani

IUAC, New Delhi

UNAM, Mexico

ENS Paris Saclay, France

## New program of B.Sc.Physics

**Hons. 2019**

## Students Projects

### MSc students

Summer Project in National  
Laboratories with MoU and six  
monthly research projects

### MTech students

one year major project in the  
organization of international repute  
such as RRCAT-Indore, DRDO-  
Delhi, BARC-Mumbai, TIFR  
Mumbai, various IITs, BEL- Pune  
etc.

## Student Progression

Many students qualify  
GATE/JEST/NET/SLET exams

Some of the M.Tech. and Ph. D. students  
pursue higher studies in overseas  
institutions

More than 80 % of the M.Tech. students  
are absorbed in Laser industries

Some research scholars are recipient of  
awards at National/international  
conferences

## Vision

*To impart knowledge in  
the field of Physics and  
educate the students to  
accept the challenges in  
the nascent as well as  
thrust areas of research  
and development in the  
cutting edge expanses of  
Physics and related  
technology*

# SCHOOL OF PHYSICS

Devi Ahilya Vishwavidyalaya, Indore



## Mission and Objectives

To give an exposure to the students  
about the technological aspects  
where physics is directly involved.

To strengthen the basic concepts of  
Physics in students

To develop manpower for meeting  
the challenges in the field of Physics

To develop research and teaching  
collaborations with other national  
and international scientific  
organizations for the transfer of  
knowledge.

School of Physics  
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## Feedback on curriculum

Given by:

- Student
- Teachers
- Experts/Industry executives
- Alumni

Analyzed by:

- Departmental committee
- DQAC cell

Action Taken:

Syllabus/course revised accordingly

## Regular Conferences and Workshops

2014-International Conference on Recent Trends In Physics

2015-National Workshop on Vacuum Electronic Devices and Applications

2015-One Day Acquaintance Program of IUAC

2016-International Conference on Recent Trends In Physics

2017-One Day Workshop on Industry Institute Interaction

2018-National Conference on Physics and Chemistry of Materials

2019-Indus Synchrotrons Users' Meeting



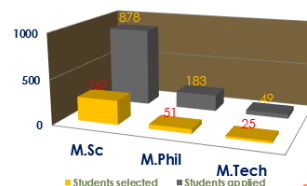
**School of Physics** established in 1971 is a premier, front line department of physics education in the state. It is dynamic, vibrant and growth oriented having many unique features. All courses offered by the department run on semester system in which evaluation of a students performance is made on the basis of regular tests and a comprehensive viva-voce at the end of each semester. All answer sheets are open to students for scrutiny. Choice based credit system is followed. In order to encourage the students to pursue higher studies many students are sent for summer training in premier research institutes. Project work is a necessary component of the course work. Admission to various courses is made through a screening test followed by an interview. The department has a highly qualified and dedicated regular faculty and is well supported by distinguished associate faculty from Raja Ramanna Centre for Advanced Technology and Inter-University Consortium for DAE facilities, Indore. It has number of MOUs reputed laboratories.

## Major Equipments

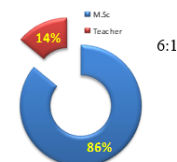
School of Physics has:

- CO<sub>2</sub> Laser, Nd:YAG and HeNe Lasers, Photonic laboratory,
- 30 kV DC source, 600 kV Impulse generator, 600 MW ebeam, 6MW BWO and HPM diagnostics,
- Insertion devices: 1 m PPM and 500 mm hybrid undulator, pulsed and stretch wire probe benches,
- Hysteresis loop tracer,  $\mu$ wave assisted nano particle synthesis.

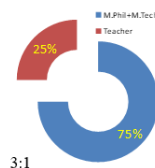
### Screening of Students



### Teacher/Student ratio



### Teacher/Student ratio



### Student (%) in past five years and relative ratio



*One of the best departments in the State that impart quality education in the field of Physics and prepare students for the challenges in the thrust areas of R&D and Education*

**M. Sc.**

- Physics, seats: 35
- Since 1971

**M. Sc.**

- Physics(Materials Science), Seats:15
- Since 2004

**M. Phil.**

- Physics, Seats:20
- Since 1986

**M. Tech.**

- Laser Science and Applications, Seats:18
- Since 1994

**B. Sc.**

- Physics(Hons), Seats:40
- Since 2019

**Ph. D.**

- Material Science, Plasma Physics, Lasers and Insertion Devices, HPMs etc.

## Computational and Library Facilities

More than sixty PCs

One 12 core workstation

Availability of INFLIBNET

Availability of URKUND

EBooks access of University library

More than 3000 books in departmental library

