

International Collaborations & Partnerships Building bridges for Higher Education



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Why Internationalization?

Teaching

- **Preparing students for Global Competency, Economy and Citizenship**
- **Develop Global perspective in life and professional decisions and become Tomorrow's world leaders**
- **Increased opportunities for Career development at Global level**
- **International Professional performance**



Research

Citation analysis of 25 million publications by J. Adams, The fourth age of research, **Nature**, has shown Increased impact with an international team

Produces transformative results



- Provides multiple views, approaches and thinking
- Promotes diversity of ideas
- Shared student talent
- Educate the next generation's faculty in the methods of global research

Means of Internationalization

- Supernumerary international students
- Faculty and Student exchange programs
- Hosting of international scholars
- Short stay summer programs abroad
- Co-teaching of courses utilizing technology
- Collaboration embedded in a course
- Co-supervision of graduate students
- Collaborative research programs
- International student activities on campus





NEP 2020 Internationalization of Education

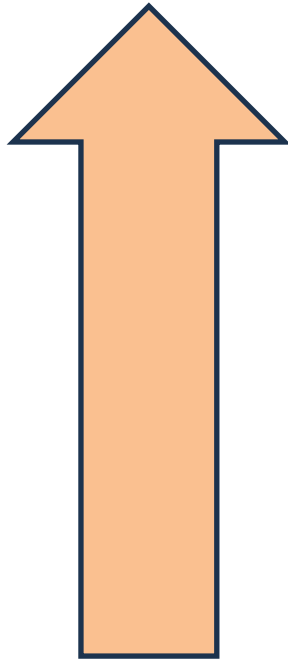
- International pedagogical approaches for teaching different subjects
- Having larger numbers of international students studying in India, and provide greater mobility to students in India
- Transfer credits to carry out research at institutions abroad and *vice versa*
- Internationally relevant curricula in the sciences and social sciences
- Achieve the goal of ‘internationalization at home’.
- India will be promoted as a global study destination providing premium education at affordable costs thereby helping to restore its role as a **Vishwa Guru**.
- An International Students Office at each HEI hosting foreign students will be set up to coordinate all matters

NEP 2020

Internationalization of Education

- **High performing Indian universities will be encouraged to set up campuses in other countries and *vice versa***
- **Setting up regulatory, governance, and content norms as per international standards**
- **Collaboration and student exchanges between Indian institutions and global institutions**
- **National Skills Qualifications Framework will be aligned with the International Standard Classification of Occupations as per International Labour Organization**
- **Solicit inputs from national and international educational technology researchers, entrepreneurs, and practitioners**
- **Advancing international research efforts to address global challenges in healthcare, agriculture, and climate change using AI**

Indian students going abroad



United States, Canada, the United Kingdom, and Australia are the most chosen destinations for Indian students lately. As of 2023, there were approximately 850,000 Indian students enrolled across these four countries out of around 1.3 million Indian students studying abroad in 2023.

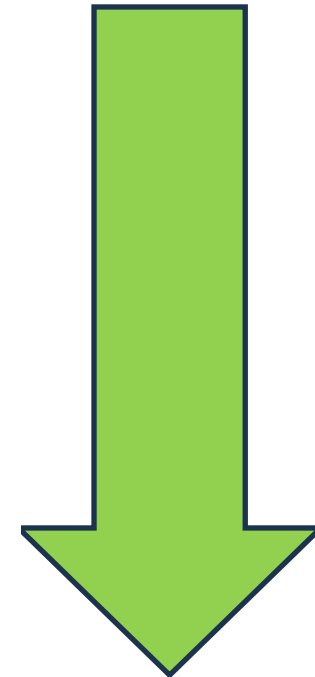
Andhra Pradesh /Telangana, Punjab and Maharashtra are the top Indian states for outgoing students.

It will likely reach between 1.5 and 2 million by 2025.

By 2025, Indian students studying abroad are expected to spend up to \$70 billion

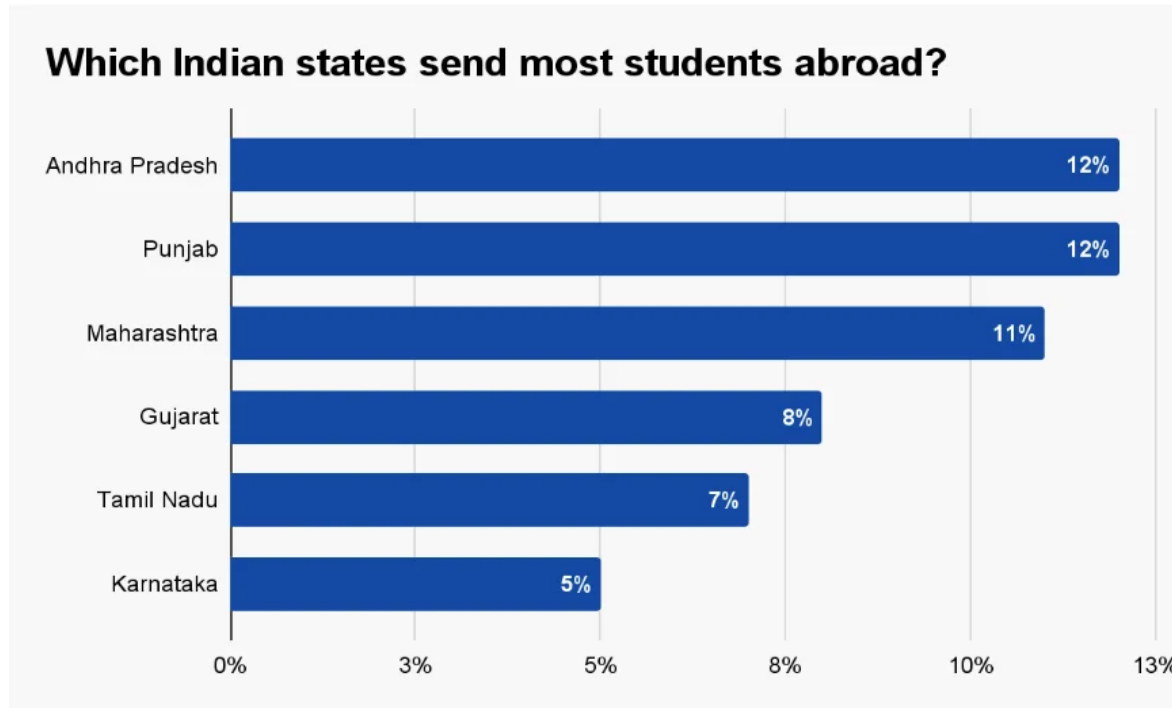


Foreign students from 174 countries
2018: 72,268 students
2019: 74,879 students
2021: 48,000 students
2022: 74,000 students
Over 3,00,000 foreign students
enrolment target for the year 2023-24



Foreign students coming to India

State-wise migration of Indian students abroad



**25% of US
foreign students
are Indians**

**Expenditure
10.5 Billion \$ (800 cr Rs)**
Academic: 6.1
Living cost: 2.4
Others: 2.0

**2,68,923 Indian
students in US**

Why Study in India?

- ✓ **Global quality education beyond classrooms**
- ✓ **Blending traditional teaching with innovative technologies**
- ✓ **Cater from wide range of course and programs**
- ✓ **Global exposure through inventions and discoveries**
- ✓ **Holistic experience and explorative learning**
- ✓ **English teaching and widely spoken across the country**
- ✓ **Fine quality of education at very affordable tuition fees**
- ✓ **Explore the diverse culture, languages, cuisines and the authentic India**
- ✓ **Top companies CEO's are mostly Indian now**
- ✓ **Boom your career at leading educational institutes fostering skills and knowledge**
- ✓ **Economic life style and low cost of living**
- ✓ **Hurdle free visa process, student friendly admission process**

UGC introduces new regulations to enhance collaboration with foreign universities

"Setting Up and Operation of Campuses of Foreign Higher Educational Institutions in India"



Global institutions with top 500 rank eligible

Campuses to be set up within 2 years of approval

Autonomy of staff appointment & pedagogy

Degrees to hold same recognition as main campus

NEP 2020 (12.8): A legislative framework facilitating such entry will be put in place, & such universities will be given special dispensation regarding regulatory, governance & content norms at par with other autonomous institutions of India



Twinning Programs

(Partnering of universities)

Joint Degree Program

(Jointly develop curricula but award one degree)

Dual Degree Program

(Jointly designed, two separate degrees)

Foreign University Campuses in India



Yale, Stanford University, Hec Paris and
King's College and the University of
Chicago

Importance of Foreign Universities in India

Education
Reforms

Global
Exposures

Develop
Multicultural
Mindset



Foreign Universities in India

**No outflow of
Indian wealth**

No brain drain

**Increase in
India's Gross
Enrollment
Ratio**

**Increased understanding and
cultural exchange between
India and other countries**

**Become more
competitive in the fields
of research and
education globally**

**Display India's strong
potential and improve its
brand value**

Factors influencing
Internationalization
of Higher
Education

1

Prohibitive costs of higher
education

2

Establishment costs of Top
University Campuses

3

Changing landscape of
Global Higher Education

Challenges Faced by Foreign Universities in India

Dependency
on certain
clauses

Feasibility
of taking
physical
classes

Operational
challenge

No scope of
autonomous
operations

International Research Funds

- India-Republic of Korea Joint Applied R&D Programme 2014 Funding
- Deutsche Forschungsgemeinschaft (DFG – German Research Foundation)
- Indo French Centre for the Promotion of Advanced Research (IFCPAR)
- Indo-US Science & Technology Forum
- UK India Education and Research Initiative (UKIERI)
- Global innovation Technology alliance
- International Foundation for Science
- Third World Academy of Sciences (TWAS)
- Third World Network of Scientific Organizations



Indo-German Science & Technology Centre (IGSTC)

Indo-German Science & Technology Centre
(IGSTC), established by the Department of Science
and Technology (DST), Govt of India



Federal Ministry of Education and Research
(BMBF), Government of Germany



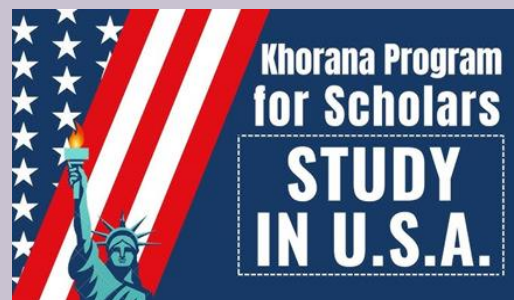
Indo-German Science & Technology Centre (IGSTC) Call 2024

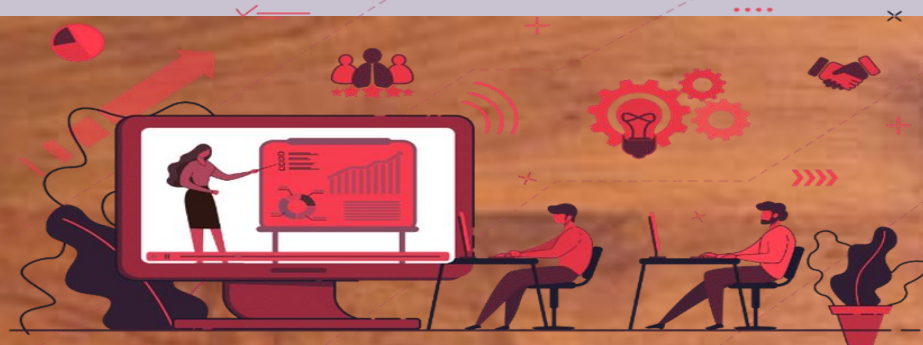


INDO-US Collaborations



- Indo US Cultural Exchange Programs
- Bilateral Programs
- Academic Exchange Programs
- Collaborative Programs
- Science & Technology Programs
- Collaborative Working Group
- Innovative Fellowship Program





How to attract International Students?

Outreach

Outreach based on clear and concise communication is necessary to win over candidates sought after by dozens of other countries worldwide.

Website

The university website should attract visitors searching for the ideal Indian experience.

Providing 360-degree photos, interactive web content and virtual tours

Robust Digital Presence

A robust digital presence is crucial for universities determined to attract the best and brightest in a globally competitive market.

Admission Process

Improve and regulate the international recruiting and admissions process.

Constitution of International Cell in every University



Building bridges via internationalization in higher education for global competitiveness

Culturally diverse campus.

Broader worldview of culture and diversity

Clarity on crucial global issues

Boosting of economy

Collaboration & Communication for global competition

Long-term business relationships & economic benefits



A+ Accredited University



Dr. Harisingh Gour Vishwavidyalaya : A lush green picturesque campus in Central India sprawling over 1300 acres

World Class Infrastructure and Conducive Environment



ICT Enabled
Classrooms

193



Labs

262



Seminar/
Conference
Halls/Auditorium

16



Lecture Hall
Complex

2



Rooms in
Guest Houses

52

Playgrounds

06



Canteen/Cafet
eria/
Food stall

09



Infrastructure at a Glance..continued



**Residential
Quarters/Flats**

245



**Medicinal/
Bot. Garden**

05



**Museum/
Galleries**

08



Hostels

7



**Centre for
Advanced
Research**

08

- Day care Centre
- Gymnasium and Yoga facilities
- Health Care Centre
- Physiotherapy Centre
- Remedial Coaching
- Mahila Club
- Happiness Centre
- Bank and ATM
- Post Office
- Kendriya Vidyalaya



Centre for Advance Mass Spectroscopy	GC-TOF-MS (Gas Chromatograph -Time Of Flight-Mass Spectrometer)
	HPLC-MS (High Performance Liquid Chromatography Mass Spectrometer)
	BET-SA-ANALYSER (Brunauer-Emmelt-Teller Surface Area Analyser)
	RHEOMETER
	ECWS (Electro Chemical Work Station)
Centre for Atomic Mineral Analysis	ICP-MS (Inductively Coupled Plasma-Mass Spectrometer)
	Polarizing Microscope (Leica)
Centre For Advance Electron Microscopy And Imaging	SEM (Scanning Electron Microscope)
	AFM (Atomic Force Microscope)
	TEM (Transmission Electron Microscope)
	CLSM (Confocal Laser Scanning Microscope)
Centre for NMR Spectroscopy and X-Ray Diffractometry	STA (Simultaneous Thermal Analyzer)
	LRS (Laser Raman Spectrometer)
	POWDERXRD (Powder X-Ray Diffractometer)
	Single Crystal X-Ray Diffractometer
	SPECTROSCOPIC ELLIPSOMETER
	NMR (Nuclear Magnetic Resonance Spectrometer)



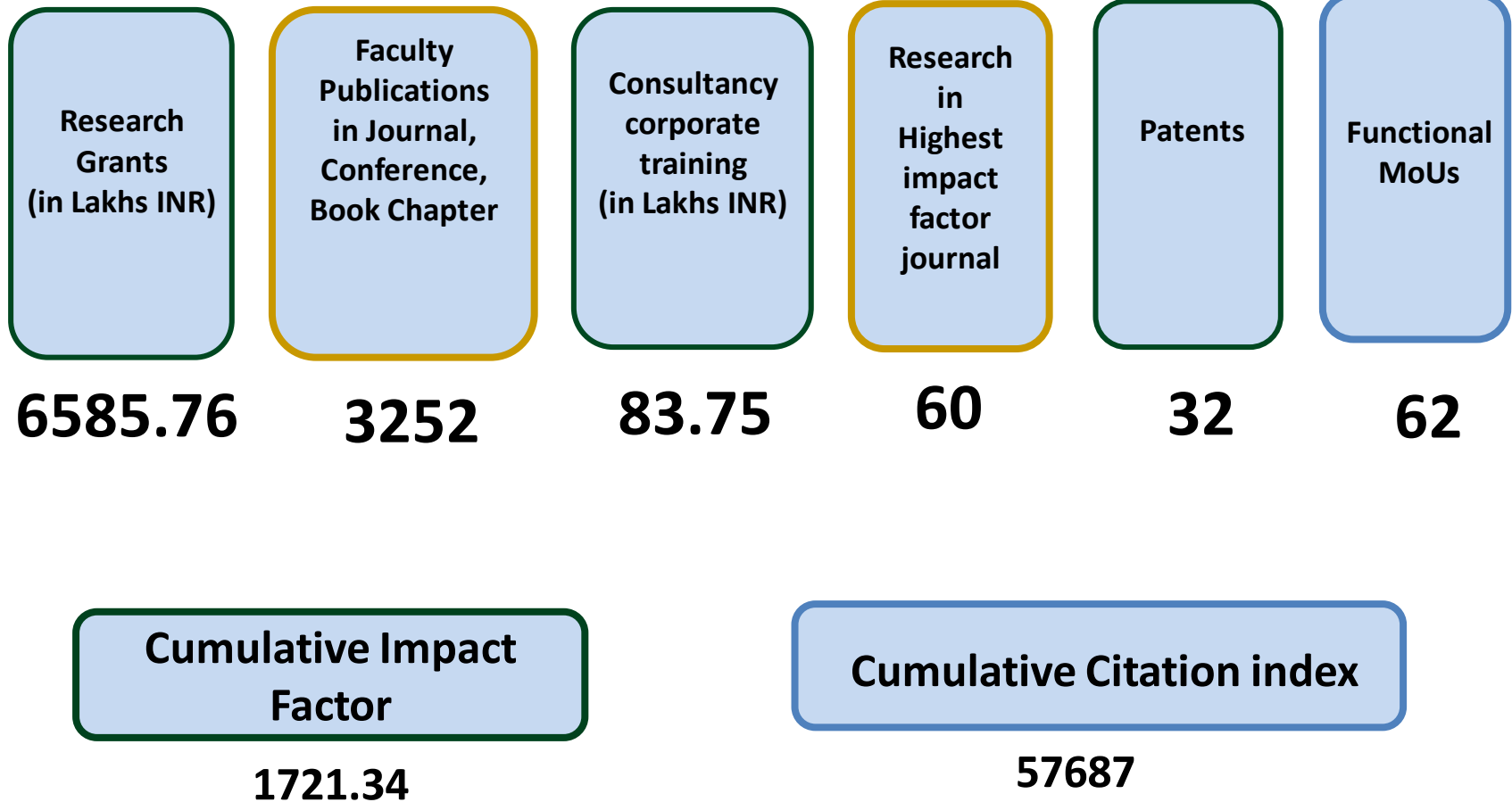


Centre for Advanced Research (CAR)

Centre for DNA Sequencing and Cytometry	DNA SEQUENCER (Deoxyribonucleic Acid Sequencer)
	CSFC (Cell Sorter Flow Cytometer)
Centre for Nano-particle characterization	PCS BASED PARTICAL SIZE ANALYZER
	NSD (Nano Spray Dryer)
	Centrifuge (Hermle)
Centre for Advance Chromatography	HP-TLC (High Performance Thin-Layer Chromatography)
	FTIR (Fourier Transform Infrared Spectrophotometer)
	UPLC
Centre For DNA Amplification and Proteomics	RT-PCR (Real Time Polymerase Chain Reaction)
	ULTRACENTRIFUGE
	Chemiluminescence Doc
	Fast Protein Liquid Chromatography (FPLC)



Research at a Glance





International Cell @DHSGSU

भारत 2023 INDIA

Facilitating Student and Faculty exchange

- Shastri Indo-Canadian Institute
- Indo- German Exchange under IGSTC
- Indo-US exchange under IUSSTF

MoUs and on-going projects/ collaborative research with Foreign Universities

- Universitat Jaume I Castellon, SPAIN
- Paleoethnology Research Center (PRC), Moscow
- CEFIPRA India France Project between University Le Mans and Criminology & Forensic Science, Dr. HSGVV on Microalgae
- Rhodes University, South Africa

Expression of Interest (EOI) and Engagement with Universities : Taiwan and Germany

- **The Vice Chancellor visited Taiwan and participated in the ‘Yushan Forum on Asian Dialogue for Innovation and Progress on Talent Exchange and Enhance Regional Resilience’ and discussed ongoing international cooperation with Taiwanese universities.**
- **Visited Taiwan's National Taipei Technological University (Taipei), National Central University (Taoyuan), National Tsing Hua University (Hsinchu), National Yang Ming Chiao Tung University (Hsinchu), National Chung Hsing University (Taichung), National Cheng Kung University.**
- **Dual degree program with the Deputy Minister of the Education Department where students study in Dr. HSGVV for two years and then study in Taiwan**
- **Vice Chancellor visited various institutes of Germany under the aegis of Indo-German Science and Technology Centre (IGSTC)**

Collaboration





Collaboration and Consultancy

Some of academic & research institution collaborators.....





Collaboration and Consultancy

Some of industry collaborators.....



Our Collaborators



Potential Scope of Collaboration, Avenues and Prospects



**Thrust Areas
of Research
@ DHSGSU**

Hydrogeology,
Tectonics, Petrology,
Mineralogy,
Geochemistry

Applied
Geology

Insect Physiology,
Neuroendocrinology,
Earthworm Biology
Fish & Avian biology

Zoology

Ecology, Biodiversity
and Climate Change,
Forest Ecology,
Biodiversity
conservation,
Mushroom Biology

Botany

Chemistry

Environmental Chemistry
Nanomaterials,
Nanocomposites,
Electrochemical Sensors,
Supercapacitors

Anthropology

Medical
Anthropology and
Tribal Studies
Demography

Criminology &
Forensic Science

DNA Profiling, Forensic
Toxicology, Ballistics,
New Forensic
Techniques

General &
Applied
Geography

Population Analysis,
Geomorphology,
Agricultural
Geography,
Environmental
Geography

Microbiology
Biotechnology

Microbial Diversity,
Microbial Enzyme
catalysis Bioimaging
Plant Genetic
Engineering

Pharmaceutical
Sciences

Novel Drug delivery
system, Immunology,
Oncology, Pharmacognosy
Medicinal Products

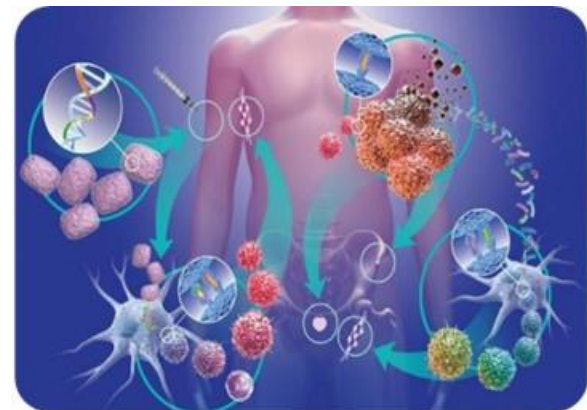
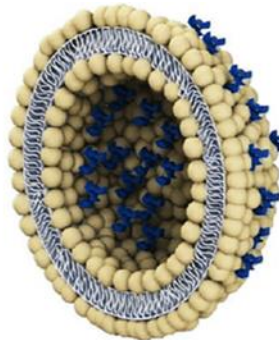
Pharmaceutical Sciences

**Novel,
Controlled and
Targeted
delivery of drugs**
**pharmacological
evaluation of
medicinal plants**

**Production of
phyto
pharmaceuticals
by tissue
culture
Vaccines,
immune
modulators and
gene delivery**

**Development of the
New chemical entities
for different activities**
**Computer aided drug
design**

**Method
development
and validation
for the
formulations by
advance
analytical
techniques**



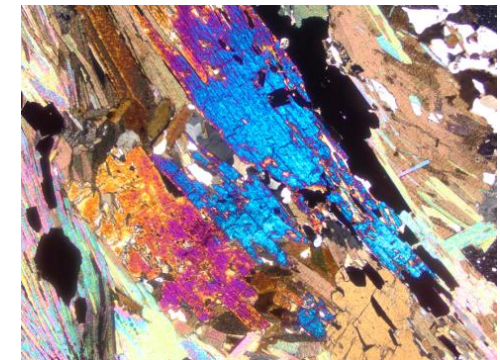
Applied Geology

- **Metamorphic Petrology and Geochemistry:** Origin and Genesis of Granulite/Charnockite /Gneiss of Rajasthan, Uttar Pradesh and Jharkhand
- **Micropaleontology:** Study of Microfossils for Ecological and Environmental Interpretations

- **Geotechnical investigations:** Slope Studies, landslide Monitoring, and Control in Sikkim and Panchmarhi, M. P.
- **Geoinformatics and Engineering Geology**
- **Ore Geology**

- **Ground water:** Exploration, Modelling & Artificial Recharge, Madhya Pradesh
- **Environmental Geology:** Water Pollution study with Special Reference to F⁻¹

- **Igneous, Petrology & Geochemistry:** Origin and Genesis of granite North Eastern India and Uttar Pradesh
- **Sedimentary Petrology**
- **Structural Geology**



Biological Sciences

Microbiology

Microbial Diversity,
Production and
Application of Microbial
Enzymes (Keratinase,
Mannanase, Inulinase)
from Fungi and Bacteria;
Biodiversity of
thermophilic fungi,
actinomycetes,
Nanotechnology,
Computational Biology

Biotechnology

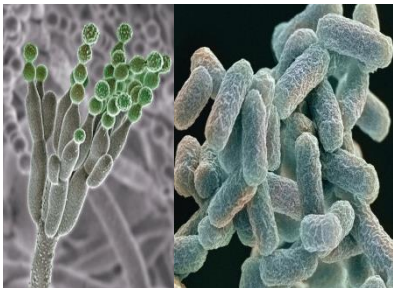
Plant Genetic
Engineering,
Stress physiology,
Plant phenomics

Botany Environmental Sciences

Mycology and Plant
Pathology, Ecology
and Ecosystem
services, Mushroom
Biology, Biodiversity
& Conservation,
Climate Change,
Functional Genomics
& Proteomics

Zoology

Cell and Molecular Biology,
Stress Physiology, HPA axis
regulation, Entomology,
Insect Neuroendocrinology,
Reproductive Biology,
Molecular Systematic of
earthworms; Neuroscience:
neurochemistry, neuro-
immunology Toxicology and
Endocrinology, Cancer
Biology, Pharmacology and
Therapy



Humanities and Social Sciences

Philosophy

Indian Philosophy, Buddhist Philosophy, Advaita Vedant, Indian Epistemology, Contemporary Indian Philosophy, Applied Ethics, Neo Buddhism.

English and Linguistics

South Asian Literature, Indian English Literature, Translation Literature, Indian Literary Theory, Literary Theories, Feminist Literature, Modern Drama, Indian Aesthetics, Media/Film Studies, Science Fiction

History

Medieval-Modern Indian History, Historiography, Research Methodology, History of Bundelkhand, World History, Gandhian Thoughts, Educational History of Modern India and Local History.

Psychology

Cognitive Psychology, Positive Psychology, Health Psychology, Applied Social Psychology, Clinical Psychology, Indian and Spiritual Psychology
Yogic Science : Yoga and Human Health, Hatha Yoga, Raja Yoga, Karam Yoga, Gyana Yoga, Bhakti Yoga



