Prof Sharma DR

Ph D

Prof. Biotechnology

Eminent plant biotechnologist with vast experience in micropropagation and development of disease resistant plants; UNESCO & FAO Fellow in USA and Morocco respectively; Member Indo-US Management Team & Research Advisory Committee to ICAR Institutes; Overseas Associate, DBT, GOI; Former Head, Dept Biotech & Director (Res), UHF, Solan

Prof Sharma PC

MVSc, PhD

Prof Microbiology

Eminent microbiologist with vast teaching and research experience in veterinary microbiology, livestock and poultry diseases; Awarded Commonwealth Academic Staff Scholarship by the Association of Commonwealth Universities and Commonwealth Scholarship Commission, U.K; Former Professor, Veterinary Microbiology, Haryana Agricultural University Hisar; Edited 7 books

Prof Sharma PK

PhD

Prof Pharmaceutical Sciences

Eminent Professor of Pharmaceutical Sciences with vast experience in teaching and research; Authored eight books and published several research papers in national and international peer reviewed journals; held top positions in pharmaceutical sciences in various private and public universities and institutions; Member of regulatory bodies such as UGC/ AICTE/ PCI/ CPCSEA, etc

Er Soni JP

B Tech (Hons)

Civil Engg IIT Kharagpur, PhD

Prof of Eminence in Engineering

Distinguished engineer with vast teaching and research experience; Fellow Institute of Engineers; Co-author of a text book on Water Resources Engineering; Associated with designing of Bhakra Dam; Former Professor and Head, Civil Engineering Department, Punjab Agricultural University; Honoured with 'Faculty Level Best teacher Award' by ICAR

Prof Tewari SC, PhD

Prof. Economics &

Resource Management

Reputed economist and resource management expert; Visiting Professor Ohio State University, USA; Former Professor Rural Management, University of Dar-e-Sallam, Tanzania, Former Head, Dept of Social Sciences, University of Horticulture and Forestry, Solan

Dr Vaidya ML

MBBS, DPH

Prof. of Pharmacy

Director Health Care

Experienced medical professional; World Health Organisation (WHO) Fellow-Malaria; Former Joint Director, Himachal Pradesh Health Services

OUR EDUCATION FOCUS

ENHANCING EMPLOYABILITY

Our education programme is focussed towards enhancing employability and personal development of our students through the following modules:

- 100% computer literacy
- Strengthening tutorials and mentorship for creating self confidence
- Improvement in communication and language proficiency
- Linkages and bilateral partnership with Centres of Excellence in India and abroad
- Develop analytical, managerial, technical and practical skills
- Develop patience, motivation and flexible attitude through meditation (one credit for all courses)

Senior Swami Krishnananda Giri Ji of Yogoda Satsanga Society of India, Ranchi and Professor of Eminence of Shoolini University has consented to impart and guide the programme in yogic and meditation sciences.

Four-Tier Faculty Development

The university has adopted a four-tier level of faculty appointments with distinguished and decorated academicians and scientists at the top tier, followed by mid career post docs from Centres of Excellence from abroad, third tier includes young, dynamic and NET qualified PhDs, and lastly in house qualified PhD scholars in pre-identified disciplines.

Our IT Centre

The university IT centre encompasses one central lab with 100 computers (thin clients) for general surfing; two labs for faculty with 30 computers each; two labs each with 60 computers and two labs each with 30 computers for engineering and 30 computers for pharmaceutical sciences. The labs are supported with two IBM servers with Xenon processor, windows 2008 server, office 2007 and Nebero firewall. The campus is fully wi-fi with 2 mbps leased line connectivity for high speed internet.

Sourabh Kulshreshtha, Associate Professor Biotechnology is post-doc from USA & Germany and is one of the Shoolini's young and promising scientists

Our Research Driven Model

Shoolini University has invested heavily in the latest sophisticated equipments for conducting research and training in different programmes relating to biotechnology, microbiology, pharmacy, engineering and basic sciences. In the discipline of management, research is focussed on industrial entrepreneurial, global and economic impacts through case studies by the application of software.

The following facilities have been created for research based programmes like M Sc (Research), M Tech, M Pharma, M Phil and Ph D in the disciplines of biotechnology, microbiology, engineering, pharmacy, business management, economics, and basic and environmental sciences.

- HPLC
- Thermocycler
- ELISA Plate Reader
- Horizontal Electrophoresis Unit
- Vertical Electrophoresis Unit
- UV - VIS Spectrophotometer
- Phase Contrast Microscope
- UV Transilluminator
- CO2 Incubator
- Chromatography Equipment
- Fermenter
- Nephelometer
- Vacuum Filtration Unit
- Rotary Vacuum Evaporator
- Inverted Microscope
- Speed Refrigerated Centrifuge
- Hybridization Oven
- Digital Colony Counter
- Bio-safety Cabinet
- Laminar Flow
- Double Distillation Unit
- Environmental Incubator Shaker
- Autoclave
- Digital pH Meters
- Actophotometer
- Analgesiometer
- Convulsiometer
- Incinerator
- Fluorimeter
- Projection Microscope
- Gel Electrophoresis
- Potentiometer
- Energy Meter
- Bulk Density Meter
- Hardness Tester
- Friability Test Apparatus
- Ampoule Washing Machine
- Ampoule Sealing & Filling Machine
- Tablet Coating Pan
- Collapsible Tube Crimping Machine
- Ointment Filling Machine
- Clarity Test Apparatus
- Tablet Disintegration Test Apparatus
- Perspex Bath Assembly
- Aerators
- Trinocular Microscope with Digital Camera compatible with Computer
- Fume Hood
- Chromatography Unit
- Newton Ring Microscope
- Spectrometers
- Analogue Computation Circuits
- Hall Effect Instrument
- Inverse Square Law Instrument
- Junction Transistor Characteristics
- Junction Field Effect Transistor
- Operational Amplifier
- Spectrophotometers
- BOD Incubator
- Seed Germinator
- Polarimeter
- Microtomes
- Electronic Balances
- Dark Room
- Museum & Herbarium
- Herbal garden
- Poly House

Our Placement & Career Development Cell

Shoolini University has a dedicated and student-driven proactive placement cell, which looks after all activities related to career development, training and placement of students. In coordination with different faculties and schools, the Cell conducts campus placements through a gala event 'Placement Week', which is the first of its kind in Himachal Pradesh and is also in conformity with the IIMs and other top business schools in the country. During the placement week a large number of MNCs and leading companies visit our campus for on spot placements.

The purpose of having 'Placement Week' is to provide a strategic platform to synergize and facilitate interaction between education and industry with an idea to provide our students jobs in corporate sector and industries, creating opportunities for students' project-based learning and industrial training.

Our Key Recruiters:

- Abacus Offshore
- Aegon Religare
- Cipla
- C-Step
- Dabur India Ltd
- Genpact
- Glenmark Pharma
- Health Biotech Pvt Ltd
- ICICI Prudential
- India Infoline
- International Traceability Systems (P) Ltd
- Johnson and Johnson
- Marico Limited
- Marsh & McLennan
- Meridian Medicare
- Nectar Life Sciences Ltd
- Panacea Biotech Ltd
- Punjab Farms
- Punjab Food
- Ranbaxy Laboratories Ltd
- RK Laboratories
- Sai Chem Pharma
- Symbiosis Life Sciences Ltd.
- Tempest Cider Pvt Ltd
- Torrent Pharmaceuticals Ltd

Special NET & GATE Coaching Classes

As a part of career development programme for our students, we have introduced special coaching classes for the aspirants of National Eligibility Test (NET) determining their eligibility for lectureship and for award of Junior Research Fellowship (JRF). Coaching classes are also coducted for aspirants of Graduate Aptitude Test in Engineering (GATE) for admission in Postgraduate Programmes in Engineering and GPAT for admission in Post Graduate Programmes in Pharmacy at the national level. The coaching fee is modest and subsidized.

Our Doctoral Programme

To achieve excellence in various spheres of biotechnology, engineering, and basic, pharmaceutical and management sciences, Shoolini University has adopted a research driven model. The PhD programmes at the university are central to that model, providing rigorous training for academic career and producing future leaders in research and education.

To maintain the high standards of research, one of the examiners for the doctoral thesis shall be from outside India. A provision is also made for the appointment of an external guide for doctoral students from within or outside the country to match the national and international standards of research. For quality research, however, the PhD guides at the level of Assistant Professors shall be associated with external mentors, a step towards achieving faculty excellence.

Ph D Courses:	Biotechnology / Microbiology / Pharmaceutical Sciences / Management / Environment Science / Physics / Chemistry /Botany / Zoology / Economics
Eligibility:	Master's degree in the concerned subject/ related discipline with at least 60% marks.
Mode of Admission:	Admission shall be made through Shoolini University Entrance Test (JRF/NET/SAT/M Phil qualified candidates are exempted from entrance test), followed by personal interview before the admission committee of the university.
Fellowships:	Besides the fellowship amount, a JRF qualified candidate shall be provided with 50% tuition fee waiver. NET qualified candidates may also be considered for limited merit-base financial assistance.

Our English Language Programme

The medium of teaching at Shoolini University is English, and the students are required to have minimum proficiency in English language for them to be more intuitive and effective in the class. Greater fluency in English will also enable the students to bag good jobs in the corporate sector.

Keeping in view the poor standard of English of students, especially with rural/ semi urban background, Shoolini University has initiated a range of English language programmes that will build upon their current skills and help them to meet their personal and professional goals.

The University has tied up with British Council for honing the communication skills of the students. The English language programmes offer an inspiring learning environment for the students to explore and take part in activities that complement the development of their English skills. Through classroom instruction and opportunities to engage outside of the classroom with other students at the university, you will build your skills and become more comfortable with the language.

Academic English

Academic English courses provide intensive language teaching from beginner to advanced levels along with the development of academic skills for grasping the subject matter at the undergraduate or graduate level courses.

General English

General English is a flexible, intensive language programme for beginner through advanced levels that is augmented with a wide range of optional modules, as well as social and cultural activities. This programme is designed for students who want to improve their ability to use English in everyday life or for professional purposes

Shoolini's Yogananda Library has over 20,000 volumes & 150 journals

Our System of Education

Shoolini University has adopted a credit-semester system of education with two semesters in an academic year. Each semester is of 18-22 weeks and ends with an examination followed by a break, which is usually spent on industrial/ vocational training and educational tour to meet the requirements for getting a degree.

The degree is awarded under course credit system. Each course has a well defined syllabus with specified number of credit hours for theory and practical classes. The research component also forms a part of the curriculum for postgraduate studies.

The credit hours are regulated as follows:
1. One credit hour of theory is one hour of class room teaching.
2. One credit hour of practical, in case of undergraduates, is two hours' of teaching in the laboratory/workshop
3. One credit hour of practical, in case of postgraduates, is three hours' of teaching in the laboratory/workshop

Examination

- Undergraduate programme: The system of examination is partly internal and partly external. Besides, each student has to appear / submit assignment, presentation, quiz, short test etc.
- Postgraduate Programme: Examination system is internal.

Evaluation

A student is evaluated in a course for both theory and practical, following Overall Credit Point Average (OCPA) system:
1. An undergraduate student is evaluated through continuous internal assessment and external semester end examination. He or she has to pass in both internal assessment and external examination (separately in theory and practicals).
2. Postgraduate students have to pass in theory and practical examinations separately.
3. A student is declared pass only if he or she secures the following minimum Grade Points in each subject and OCPA on a scale of 10:
   a) Undergraduate Examinations: 5.0 grade points in each subject and 5.5 in OCPA
   b) Postgraduate Examinations: 6.0 grade points in each subject and 6.5 in OCPA

Shoolini students at work in one of our 60 labs

Attendance

As per UGC guideline no student will be allowed to appear in theory and practical end-term semester examination if he/she does not fulfill 75% of attendance. Under the guideline, the following marks will be awarded in Internal Assessment for attendance:

95 Percent and above	5 Marks
90-94 Percent	4 Marks
85-89 Percent	3 Marks
80-84 Percent	2 Marks
75-79 Percent	1 Marks

Make-up Policy

Students with attendance between 60-74 percent are provided an opportunity to meet the required attendance criteria through participation in make-up courses during summer/ winter semester break. They have to bear additional expenses for attending make-up courses that may extend up to 6 weeks. Special end-term semester examination would be held for the benefit of such students who have attended the make-up courses to the satisfaction of the faculty dean.

Learning outside the classroom at Shoolini

YOU CHOOSE SHOOLINI UNIVERSITY

AND ALL DOORS OPEN

OUR FACULTIES

Faculty of Biotechnology

Faculty of Engineering & Technology

Faculty of Management Sciences & Liberal Arts

Faculty of Pharmaceutical Sciences

Faculty of Basic Sciences

FACULTY OF BIOTECHNOLOGY

Biotechnology is the application of scientific and engineering principles to the processing of materials by biological agents to provide goods and services. The twenty first century is expected to generate tremendous employment opportunities in biotech based technologies such as nanotechnology, stem cell research, cell signalling, health care biosensors, bioremediation, bioinformatics, pharmaceutics, genetically modified pest resistant crops, etc. Getting a biotech degree will help you to prepare for an exciting and highly remunerative career in these fields.

The Faculty of Biotechnology provides a wide range of courses designed to develop knowledge and understanding of skills of biotechnology and its related areas. It has academic alliances with **Seoul National University, South Korea** and **Chung Yuan Christian University, Taiwan** for exchange of students, **Transgenic Life Sciences & National Bureau of Fish Genetic Resources** for collaborative biotech research and **HRD Agro** and **NutraHelix** for strengthening programmes in Food Technology and is developing a programme for credit transfer and student exchange with **National Hampshire University, USA.**

The faculty has also formed mutually beneficial links with various industries for students' projects and training.

Further to satisfy the requirements of the biotech industry, our graduates are imparted practical training in plant tissue culture, biotransformation, fermentation, DNA and RNA isolation, industrial microbes screening and production, biochemical analysis and standardization of analytical instruments.

Faculty Members

Prof RC Mahajan	Ph D, Professor Emeritus PGIMER, Chandigarh & Advisor ECD, ICMR; Professor of Eminence (Medical Microbiology)
Prof DR Sharma	Ph D, Former Head, Dept Biotech & Director (Res), UHF, Solan; Professor cum Dean (Biotechnology)
Prof PC Sharma	Ph D, Former Professor, Veterinary Microbiology, Haryana Agricultural University, Hisar; Professor (Microbiology)
Dr Kamal Dev	Ph D, Post-doc Fellowship, National Inst Child Health & Development, USA, Associate Professor(Biotechnology)
Dr Anuradha Sourirajan	PhD, Post-doc National Cancer Institute (NIH), USA: Associate Professor (Biotechnology)
Dr Sourabh Kulshreshtha	Ph D, Post-doc, Dept of Pathology, University of Kentucky, USA & Best, Germany; Associate Professor (Biotechnology)
Dr Umar Farooq	Ph D, Former Research Associate, PGI, Chandigarh and Asst Prof Omar El Mukhtar University, Libya; Associate Professor (Microbiology)
Dr Dharam Singh	Ph D, Post-Doc (Academia Sinica, Taipei, Taiwan), Associate Professor (Biotechnology, Molecular Biology)
Dr Dinesh Kumar	Ph D, Experience in Ireland & Netherlands; Associate Professor (Biotechnology)
Dr Adesh Saini	Ph D, Post-Doc, Laboratory of Gene Regulation & Development (NIH), USA; Associate Professor (Biotechnology)
Dr Vinod Singh	Ph D, Post-Doc, National Cancer Institute (NIH), USA; Post-Doc NCBS, Tata Institute of Fundamental Research Bengaluru; Assistant Professor (Biotechnology)
Mr NK Soni	M Sc, Former Researcher in Immuno-biologicals, CRI, Kasauli; Associate Professor (Microbiology)
Mr Anil Thakur	M Tech (IIT Delhi), NET, Ex Sr Scientist Biocon, DAAD Fellow, Germany Associate Professor (Instrumentation, Chemical Analysis)
Dr Nibedita Naha	Ph D, Post-doc Gyeongsang National University, S Korea Assistant Professor Sr Grade (Biotechnology)
Dr Savita Jandaik	Ph D, Assistant Professor (Plant Pathology)
Dr Anshul Awasthi	Ph D, Assistant Professor (Biotechnology)
Dr Sunity Singh	Ph D, NET, Assistant Professor (Microbiology)
Dr Sujoy Banerjee	Ph D, Assistant Professor (Biotechnology)
Dr Amit Seth	Ph D, Assistant Professor (Biotechnology)
Dr Asha Tripathi	Ph D, Assistant Professor (Microbiology)
Dr Kumar Rajesh	Ph D, Assistant Professor (Biotechnology)
Dr PK Chauhan	Ph D, Assistant Professor (Biochemistry)
Er Sandeep Jangu	M Tech, M Sc; Assistant Professor (Food Tech/ Engineering)
Dr Purvika Sood	PhD, Assistant Professor (Food Tech)
Dr Tulika Dahiya	PhD, Assistant Professor (Food Tech)
Dr Somesh Sharma	PhD, Assistant Professor (Food Tech)
Er Narender Kumar Chandla	M Tech, B Tech; Assistant Professor (Food Technology)