Nurturing Excellence in
Research & Innovation

INDRASHIL UNIVERSITY
A LIFE SCIENCES UNIVERSITY
योग: कर्मसु कौशलम्
Sustained Excellence with Relevance

An educational initiative by
CADILA PHARMACEUTICALS LIMITED
The Care Continues...

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Nurturing Excellence in
Science & Technology

www.indrashiluniversity.edu.in

Our Inspiration

Born in a small village of Hansot in Bharuch district, South Gujarat, on February 18,1926.

Shri Indravadan Ambalal Modi left a long-lasting impact through his widely acclaimed contributions to the Indian pharmaceuticals industry. His love for the Nation and passion for affordable healthcare made him the 'Medicine Man of India'.

Shri Indravadan A. Modi

(1926-2012)
Founder Chairman, Cadila Pharmaceuticals Ltd. and IRM Group Compaines

Vision

Indrashil University strives to be an epitome of excellence in higher education by imparting knowledge, focused education and experiences to students in the field of Life Sciences and the research aspects related to it. This will empower them to go back to the world as experts in their fields, serving humanity and giving back to the world, which is sciences at its best.

Mission

Indrashil University seeks to realize their mission by providing their students with high quality education and training that is unmatched. Combining rigorous academic study along with the support of industry experts, students get prepared as sector specialists with a global footing.

•• Provost of Indrashil University •••

Welcome

Dear Students and Parents:

We, at Indrashil University, have quickly adapted to the emerging pedagogy and have continued our attempts to promote education in the life sciences and allied areas with focus on profound research. Further, to achieve our aim, we have strived to establish a regional model of higher education laced with an international competitive ecosystem. We have the requisite intellectual and physical infrastructure that supports the university to emerge as a leading citadel in the arena of higher education. The university has an inviting ambience for academically committed and passionately creative people. Here, the faculty is highly qualified and equally passionate to nurture the creativity and innovation of young minds.

All our faculty members are Ph.D. (100%) & most of them possess postdoctoral fellowships from premier institutions across the globe. At the same time, there is an urge at the student's end to match their steps with the rigors taken by the University for the healthy and overall development of self and humanity at large.

We take pride in our innovative teaching-learning practices, flexible academic structure customizable as per the need of our students, amalgamating internship program, thesis/dissertation, entrepreneurial projects and social outreach programmes. This enables us to produce graduates who are industry & research ready with humanity serving skills & zeal.

Additionally, a healthy mix of co-curricular & extra-curricular activities like- club activities, general knowledge, speed typing, writing competency, interview training, Standard Practice Instructions for students and faculties, sports competition, social initiative programs & the likes are observed on campus for the holistic development of students.

Dr. D. J. Shah
Provost, Indrashil University

•• About Indrashil University ••

"True celebration of research lies as much in inventions as in making the medicine affordable to the last man in the society"

Indrashil University (IU) has come into existence by an Act (No. 10 of 2017) of State Legislature of Gujarat as a State Private University under the Gujarat Private Universities Act, 2009. It was established as a philanthropic initiative of its Founding Chancellor, Dr. Rajiv I Modi in the loving memory of his parents, Shri Indravadan Ambalal Modi and Smt. Shilaben Modi who laid the foundation stone of Cadila Pharmaceuticals Ltd. (CPL) in 1951. To honour their legacy of care and compassion, the university's governing body and Dr. Rajiv Modi are determined to holistically transform and develop the University into a hallmark of global academic excellence.

The Founder Chairman of CPL, Shri Indravadan A. Modi was a great visionary, yet an extremely humble and generous person. Also known as the Medicine Man of India, Shri Modi was a true nationalist and pioneered the production of medicines in India. As the first employee of Cadila, Smt. Shilaben Modi offered unwavering support to him; she was the strength behind Shri I. A. Modi's resolve to make medicines affordable to the most vulnerable section in our society. The entire IU Parivar is deeply inspired by their principles and pledge to accomplish its goal keeping in mind rich culture, values and morals founded in the ethos of Cadila Pharmaceuticals Ltd.

IU is a first of its kind university in the state of Gujarat offering courses in Life Sciences with focus on academic, research and professional development. It is being developed with a clear vision to provide the best quality of education in the field of Life Sciences and its allied sectors and to be a World Class Research University. The University caters to a wide variety of prospective students through full time degree courses as well as various short term programmes. The University shall not be limited to only life sciences programmes but would follow a multidisciplinary approach and offer a wide array of programmes such as Management, Law, Humanities and Social Sciences. It is committed to strives and achieve best quality of education with all round development of its students.

HYGIENIC AND LUSH GREEN CAMPUS

• • Programs Offered • •

School of Engineering

- B.Tech. Computer Science and Engineering
- B.Tech. Chemical and Biochemical Engineering
- B.Tech. Information Technology
- B.Tech. Mechanical Engineering
- B.Sc. IT (Information Technology)
- BCA (Bachelor of Computer Application)

School of Sciences

- B.Sc.(Hons.) Chemistry
- B.Sc.(Hons.) Bioscience
- M.Sc. Chemistry (Organic and Analytical)
- M.Sc. Microbiology
- M.Sc. Zoology

School of Pharmacy

- B.Pharm

Executive Program

- Post Graduate Diploma in Environment, Health and Safety
- Post Graduate Diploma in Hospital Management
- Post Graduate Diploma in Data Science
- Post Graduate Diploma in Full Stack Development

Doctoral Program

- Ph.D. in Science
- Ph.D. in Engineering
- Ph.D. in Pharmacy

SCHOOL OF ENGINEERING SCHOOL OF SCIENCE SCHOOL OF PHARMACY SCHOOL OF ECONOMICS & MANAGEMENT

International Collaborations For A Global Edge

Indrashil University has signed MoUs with foreign universities with the prime objective of helping students develop global professionalism. The university will facilitate interested students who fulfil criteria as per the stated norms. Under this exchange programme, postgraduate and engineering graduates may earn credits from foreign universities and these will be reflected in their degree certificate. It's a wonderful opportunity for students and faculty enabling them with global exposure and to keep breast with the happening trends in science and technology as well.

••• Programme Objectives •••

Student Exchange Program	Faculty Exchange Program
Joint Research Program	Short term Studies
Curriculum Enhancement	

USA

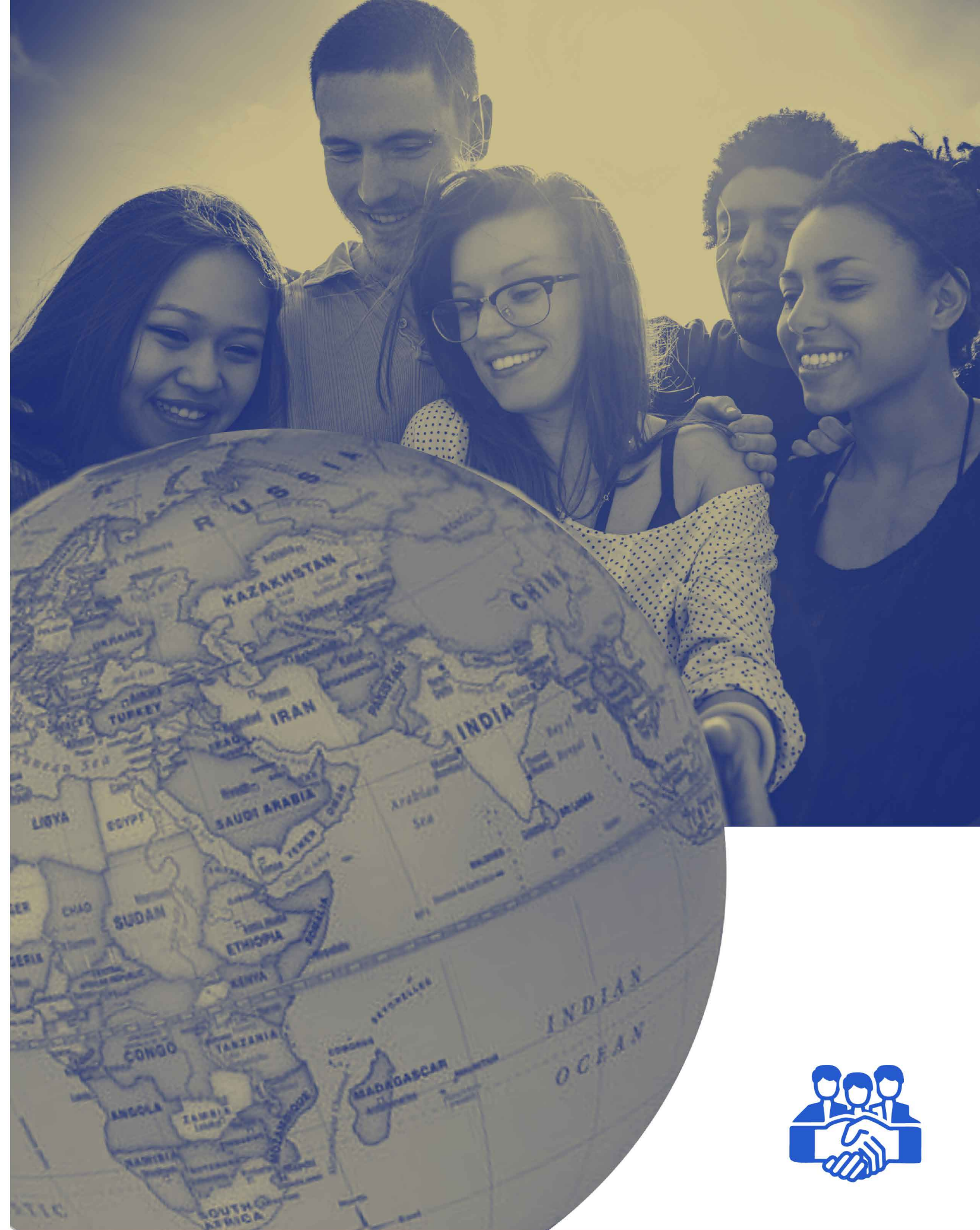Sacred Heart UNIVERSITY

USA

TUSKEGEE UNIVERSITY

Australia

THE UNIVERSITY OF NEWCASTLE AUSTRALIA

Academic Programmes

Your future starts here. Choose from programmes that represent a confluence of learning and praxis with flexibility at the core.

School of Engineering (SoE)

The SoE offers degree programs at the undergraduate and doctoral levels, with an extensive range of contemporary specializations. These programs are designed with a focus on industry needs and innovation resulting in multi-faceted and job-ready students. Additionally, they learn to develop analytical and entrepreneurial skills with an interest in research and analytical abilities, and gain an advantage over their peers in the industry.

B. Tech. in Computer Science & Engineering
B. Tech. in Information Technology

The department of Computer Science and Engineering offers contemporary education aligned with industry requirements. The curriculum has a perfect blend of fundamentals of Computer Science with a focus on micro-specializations in:

●●● Micro-Specializations ●●●	
Cyber Security	Artificial Intelligence (AI)
Machine Learning	Big Data and Data Science
Embedded System and IoT	

B. Tech. in Mechanical Engineering

Mechanical Engineering is a discipline concerned with broad, versatile and creative learning that primarily involves the conversion of energy to useful work; the design and manufacturing of machines; and the interface of solids, liquids and gases. A degree in Mechanical Engineering equips a student with a solid technical foundation with specializations in the diverse fields:

●●● Micro-Specializations ●●●	
Mechatronics	Advanced Manufacturing
Thermal	Energy Systems
Design Engineering	

An MoU with IIT-Guhawati benefits IU Engineering students with a semester long study at its Guhawati campus.

Mechanical
Chemical
Information & Technology
Automobile Data Science
Engineering
Lab Facility
Bio-Chemical
Cyber Security
Micro and Nano Fluidics
Computer Science & Engineering

B. Tech. in Chemical & Bio-Chemical Engineering

BTech in Chemical & Biochemical Engineering applies to study in the sciences of Chemistry, Biology, Physics and Mathematics in a synergistic way to develop new and improved technologies for resolving challenging problems. The pursuant students in this department get micro specialization opportunities in:

●●● Micro-Specializations ●●●	
Sector Technology	Environment and Sustainability
Nano Technology	Process Modelling and Simulations

B.Sc. IT
Bachelor of Science in Information Technology

B.Sc. IT is a 3 years (6 semesters) programme customized for aspirants aiming to make a bright and outstanding career in the field of Information Technology. The course has been specifically designed to suit the requirements of the IT industry, where individuals will be able to take up technical or management positions and design a career as Data Scientist, IT Consultant, Cloud Architect, Computer Forensic Investigator, Mobile Application Developer, Software Engineer, Network Administrator, Data Administrator, Business Analyst, Research Associates and many more. The syllabus offers the Choice Based Credit System (CBCS) that has a blend of contemporary and foundation subjects like Artificial Intelligence, Python Programming, Machine Learning, Robotics, Data Science, Microprocessors & Assembly Language, Digital Logic & Circuits, Multimedia Systems, Digital Image Processing, Software Engineering, Web Designing, Java, Data Communications and many more. Final semester students offer either training in research institutes or in industry.

●●● The Broad Objectives of the Programme are: ●●●	●●● Micro-Specializations ●●●
To encourage students to get industry-ready	Cloud Computing
To inculcate an aptitude and interest for innovations & research.	Data Science and Analytics
To motivate students to find the best suitable industry career to meet the need of the time.	Multimedia
	Internet of Things
To provide a concrete academic base of Information Technology education so that students can develop an advanced career in IT.	Full Stack Development
	Blockchain

BCA

Bachelors's in Computer Application

The BCA course is a three-year (six-semester) full-time Bachelor's Degree in Computer Application. The primary goal of the BCA course is to empower young men and women with the essential knowledge and abilities to pursue satisfying jobs in the ever-changing world of Information Technology. BCA admission is provided based on merit. Eligibility criteria for BCA: Any eligible candidate who have passed 12th Science/Commerce/Arts from valid board.

● ● ● Micro-Specializations ● ● ●		
Cloud Computing	Data Science and Analytics	Internet of Things
Multimedia	Full Stack Development	Blockchain

Ph.D. in Engineering

School of Engineering (SoE), Indrashil University (IU) offers a Ph.D. programme broadly in the areas of Computer Science and Engineering, Chemical and Biochemical Engineering and Mechanical Engineering. It also includes allied engineering areas in the above fields with application-oriented research. With mentoring from the parent organization, Cadila Pharmaceuticals Limited, the SoE has access to a great pool of intellectuals, experts and scientists in the area of the Life Sciences.

A dedicated nodal office actively oversees the fellowship/grant to be availed from the Department of Higher Education and/or funding agencies for research projects.

Lab Facility – School of Engineering

Computer Science and Engineering:

The department has industry standard infrastructure, well-equipped laboratories & library facilities. It has a DBMS Lab, Computer Networks Lab, Algorithms Lab and Operating Systems Lab.

Chemical and Biochemical Engineering:

The department has well-equipped laboratories to facilitate experiments in the advanced areas of chemical and biochemical engineering.

Mechanical Engineering:

The department has well-equipped laboratories and workshops for students to perform experiments. It has various labs like manufacturing lab, Thermo fluid lab, Design and Mechanism session labs and Mechanics of solid lab.

Dual Degree Program

B. Tech. in Computer Science & Engineering (IU and SHU)

Sacred Heart University (USA)

Indrashil University has collaborated with Sacred Heart University (SHU), USA for a (3+1 Year) Dual Degree B. Tech. in Computer Science and Engineering. IU and SHU will each award their respective degree to the students graduating from this dual degree program with the 3+1 two campus model. The Dual Degree also gives students a direct route to Higher Education at SHU.

Students can gain practical skills (OPT) by taking the opportunity to find Employment in the United States after they are awarded their degree.

"At SHU, students can expect the best possible care and support in all aspects. We ensure that students feel welcome and enjoy the international student experience with us."

Ms. Cori Nevers
Executive Director, International Admissions-SHU, USA

Why choose a Dual Degree?
- Encourages more professional connectivity
- Work Integrated Learning
- Gain versatility while learning
- Networking opportunity with current students and Alumni

Benefits of Dual Degree program at IU
- Earn two Bachelor's degrees after 4 years
- Study in your area of interest in an international context
- Eligible for optional Practical training (OPT)in USA post completion
- Assistance on finding a job and development of various job related skills by SHU, USA
- Direct application to Masters and/or further studies

Career Opportunities after Dual Degree Program:
- Computer Software Engineer
- Analyst
- Database Administrator
- Programmer
- Systems Architect
- Dev Ops Engineer

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Sacred Heart UNIVERSITY

3 Years

1 Year

School of Science (SoS)

The programme curricula are designed to make students proficient with the fundamental knowledge of Biosciences and Chemistry at molecular, cellular, physiological and ecological levels through practical training. The school orients and develops students to gear up for careers in the biochemical and pharma industry in addition to research sectors.

B. Sc. (Hons.) Chemistry

The department of Chemistry offers Hons. Degree with a duration of six semesters. The curriculum has been designed to cater to the needs of industries and also orientation of research culture. It is particularly recommended for students planning for higher study in Chemistry or work in chemical-related fields.
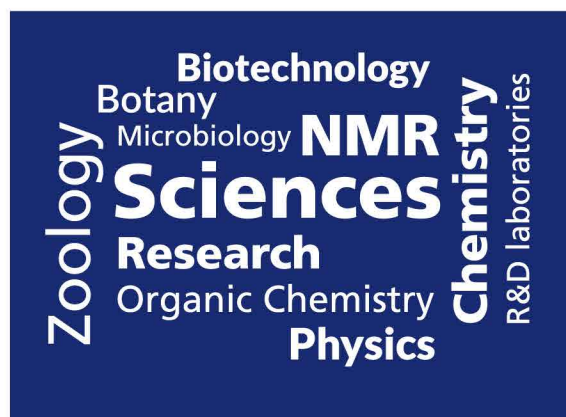
B. Sc. (Hons.) Biosciences

The B. Sc. (Hons.) Biosciences program is a six-semester course. This programme allows students to study the intricacies and nuances of life at the cellular and microscopic levels. Our programs offer ample research scope and higher study in all aspects of the life sciences.

M. Sc. Chemistry (Organic & Analytical Chemistry)

M. Sc. Chemistry course has a four-semester structure. Besides the fundamentals of Organic & Analytical Chemistry, the students will be exposed to emerging research areas such as Synthetic Chemistry, Medicinal Chemistry, Green Chemistry and Materials Science with electives in advanced Organic Chemistry / Analytical Chemistry in semesters III and IV. The course also offers an industrial project in semester-IV to make them industry-ready.

M. Sc. Microbiology

M. Sc. Microbiology is a two-year four-semester programme and is designed to orient students towards all areas of Biosciences in general. The curriculum is designed to train the students in basic and advanced areas of Microbiology, keeping in mind the latest advances in the field with special emphasis on practical aspects. A major component in the final semester is either research or an industrial project.

Biotechnology
Botany
Zoology Microbiology NMR
Sciences Chemistry
Research R&D laboratories
Organic Chemistry
Physics

M. Sc. Zoology

A 2-year MSc programme in Biology is a four-semester programme. While the first two semesters focus on all the areas of Biosciences in general, the second year (semesters III & IV) consists of different subjects of Animal Biology with emphasis on practical aspects. The students are oriented to gain expertise in Physiology, Biochemistry, Genetic Engineering and advanced subjects like Stem Cell Biology.

Ph.D. in Science

The School of Science offers Ph.D. programs in Chemistry and Biosciences. It has seven R&D laboratories with excellent state-of-the-art infrastructure facilities in both Chemistry and Biosciences with highly qualified Ph.D. supervisors from premier institutes with vast post-doctoral experience in research institutes abroad. The research laboratories are equipped with high throughput scientific equipment as NMR, (the only university in Gujarat) to be available for research scholars and faculty, GC, HPLC, FTIR, IR, ELISA Reader, Thermal cycler etc. The cutting edge research areas in Chemistry are Total Organic Synthesis, Peptides etc. whereas, Biosciences focuses on Microbiology and System Biology. The faculty has several research projects funded by National and State Funding agencies like DST, GSBTM, SERB, etc.

Lab Facility - School of Science

Industry Standard Research Laboratories

NMR-equipped Facility

The department has state-of-the-art infrastructure facilities; it has well-equipped laboratories with modern equipment keeping in mind the industry's on-going trends. The department has a separate Botany lab, Zoology lab, and Biochemistry lab.

Bioscience

A highly advanced, Nuclear Magnetic Resonance (NMR) instrument is used as an analytical tool for structural determination of molecules and fulfils many other research purposes.
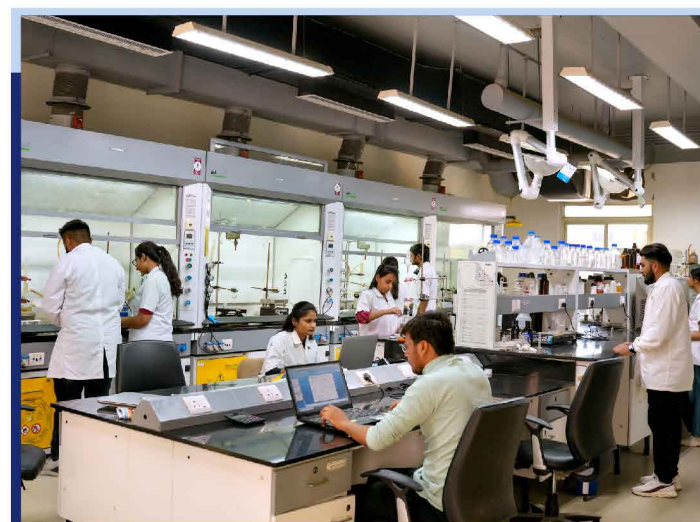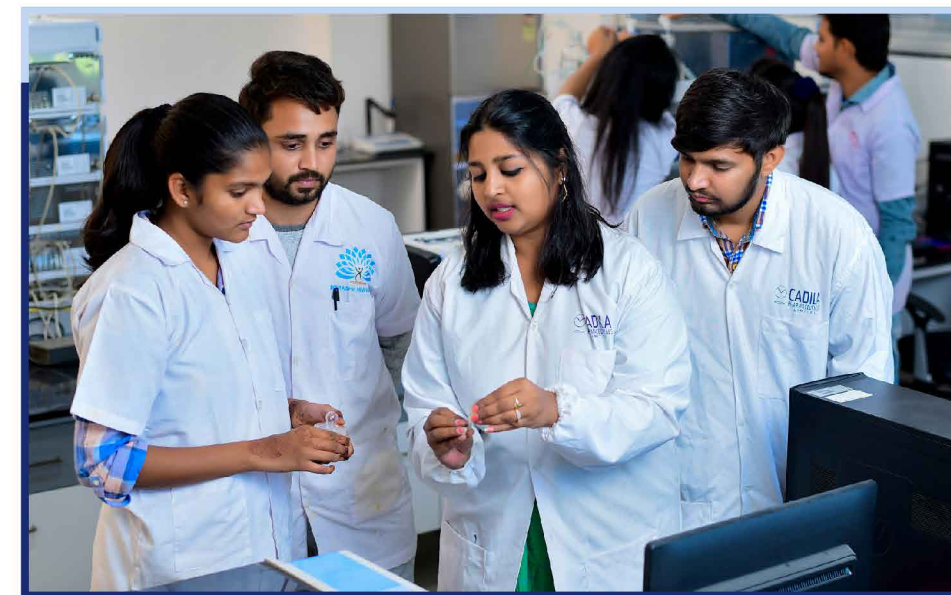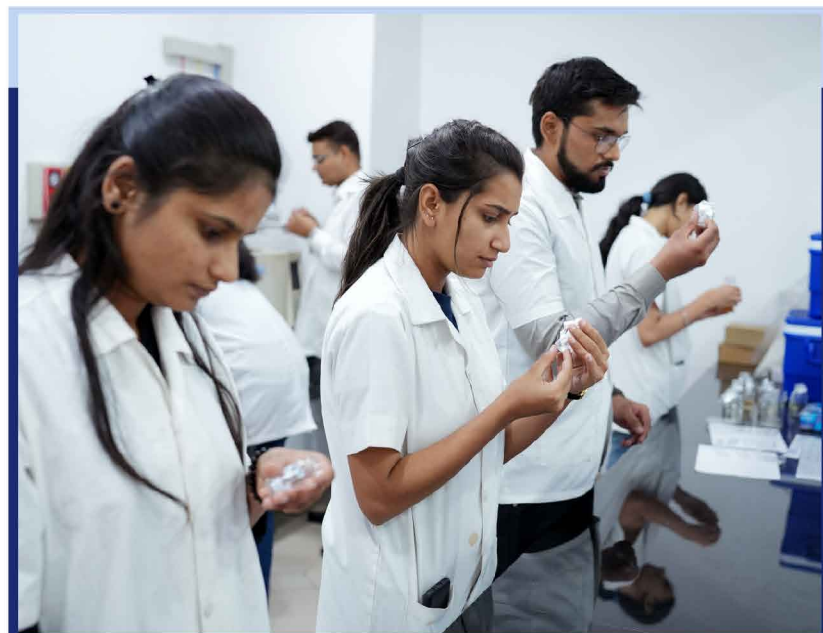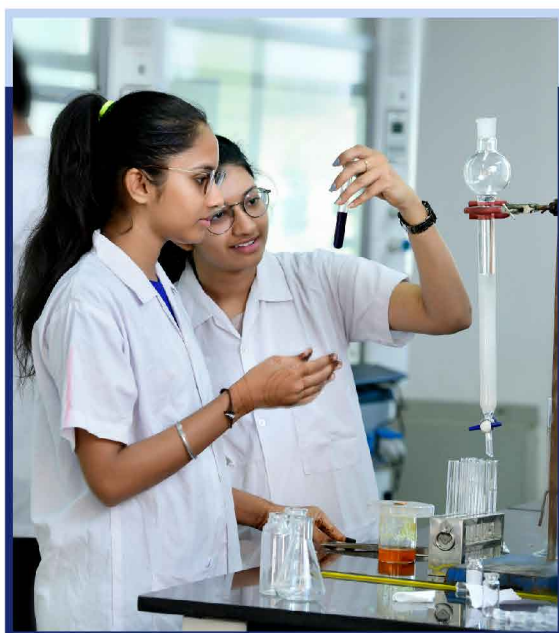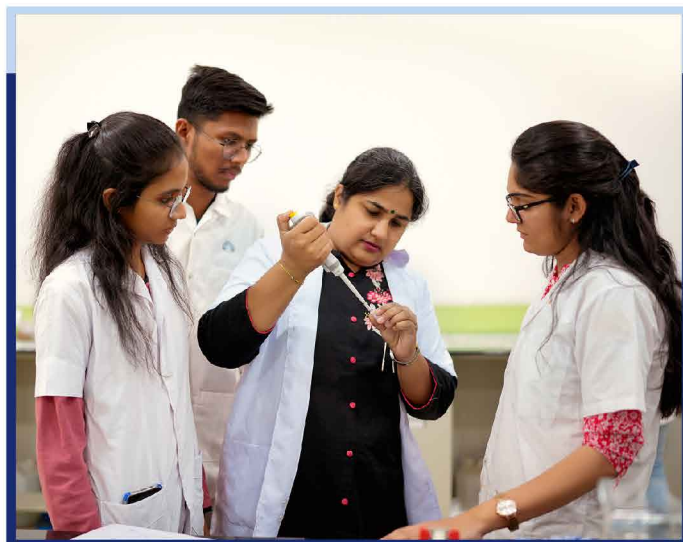
Chemistry

The department has well-equipped laboratories with all the necessary equipments, instruments and infrastructure required to perform experiments in Analytical, Inorganic, Organic and Physical Chemistry supporting smooth conduct of research in the advanced areas of Chemistry.
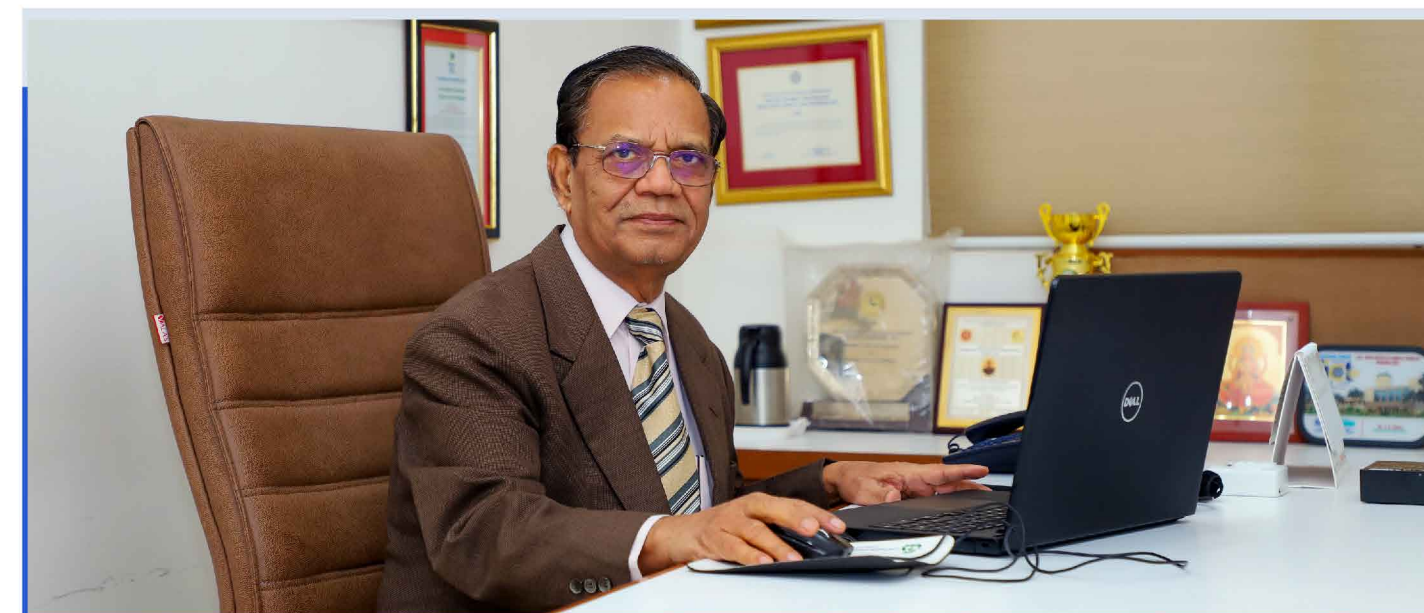
Nuclear Magnetic Resonance (NMR)

- All 1D NMR techniques
- Relaxation measurements (T1/T2)
- Quantitative NMR
- Spectral interpretation

••• Research Director of Indrashil University •••

Prof. (Dr.) J. S. Yadav, Bhatnagar and JC Bose National Fellow, a visionary, led Council of Scientific and Industrial Research -Indian Institute of Chemical Technology, Hyderabad in the capacity of Director that scaled new heights under his able academic leadership. He is fondly remembered as an exemplary leader in the academic and research fraternity who proved to be an epitome of success through his diligence and perseverance. A Shanti Swarup Bhatnagar Laureate, Prof. (Dr.) Yadav is a towering scientist in Natural Products Chemistry who is acclaimed worldwide for his contributions and professional accomplishments. He has carved out his own niche in research with over 1300 publications of high impact journals, over 27000 citations and 150+ patents registered nationally and internationally. His remarkable achievements can be easily spotted from the awards and recognition received by- The University of France-D.Sc. (Docteur Honoris Causa), Khwarizmi International-Iran (IROST-UNESCO), Ranbaxy, VASVIK, CSIR Technology, Vigyan Gaurav Samman, Vigyan Ratna and the list is not exhaustive one as there are many more feathers added in his hat.

His status quo as FNA, FTWAS (Fellow, The World Academy of Sciences and All Indian Academy of Sciences) substantiates his passion and dedication in the field of chemistry. His illustrious career as an academic-leader, scientist and researcher is an inspiration to many.

All the programmes under School of Science are mentored and led by Prof. (Dr.) J. S. Yadav and school is progressing fast under his able guidance and leadership.

Dr J. S. Yadav
FNA, FNASc, FTWAS
Research Director, Indrashil University,
J C Bose Fellow, (Former Director, CSIR-IICT & CSIR-Bhatnagar Fellow)

School of Pharmacy (SoP)

Pharmacists comprise the third largest healthcare professionals in the world and pharmacy profession has been evolving steadily over the last decade in India. Data reveals that there are about 10 lakh registered pharmacists over a population of 140 crores indicating a trained workforce of less than 0.1%. Also a large number of pharmacists are in demand overseas particularly in Canada, UK, Australia and Middle East. In addition to this fact the pharmaceutical industry is experiencing unprecedented levels of growth and so does the demand for qualified individuals to enter the career market.

B. Pharm

IU SoP offers a four-year degree in pharmacy program to be eligible to start your career. High School pass-outs in science stream from A, B and AB groups can join the course. Apart from the four-year degree, to stand out from other aspirants, try working under specific coursework, projects, getting training, certification, and equivalent. This would work as experience when you are trying to make a prominent position in the field.

●●● Core Deliverables ●●●

Build Strong Faculty Base with Effective Academic Deliberation

Create a Dynamic Learning Environment

Promote Student Growth and Engagement

Encourage Collaborations and Partnerships
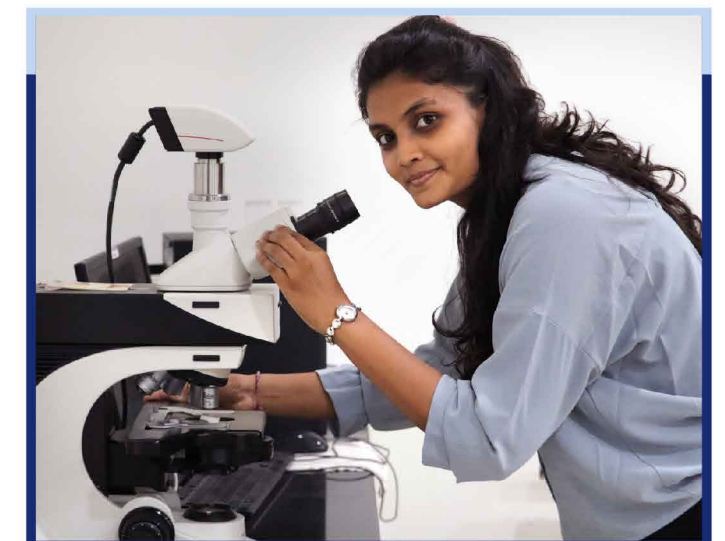
Deliver Effective Response Mechanisms with Stakeholders

Develop Research Aptitude

Provide Lifelong Professional and Personal Development Opportunities

●●● Career Opportunities ●●●

Hospital Pharmacist	Community Pharmacist
Medical Coder	Clinical Research Assistant
Quality Control Chemist	Medical Underwriters
Production Chemist / Supervisor	Medical Sales Representative
Drug Inspector/ Food Inspector	Self-employment/ Business prospects
Higher education like M.Pharm, MBA, LLB, Journalism, MMC etc	Research & Development Executive

Ph.D in Pharmacy (Research and Development at IUSOP)

Indrashil University School of Pharmacy offers PhD program broadly in the areas of Pharmaceutical Technology, Pharmaceutical Analysis, Pharmaceutical Quality Assurance, Medicinal Chemistry and Herbal Drug Technology. Application based research having opportunities in pharma industries and CROs are promoted.With support and back up from Cadila Pharmaceuticals Ltd. SOP has a pool of well trained and experienced experts to mentor the scholars and provide knowledge and insights. The university nodal office actively strives for fellowships, grants and funding opportunities for the research projects.

Lab facilities available at IU-SOP are in accordance with the prescribed norms of PCI, New Delhi. We aim to have MoU with leading national and international universities, pharmaceutical industries, multi-speciality hospitals and contract research organisations of the country and abroad to provide the best learning experience to our students.

Executive Program (One Year)
Post Graduate Diploma in Environment, Health and Safety (PGDEHS)

About the Program

The curriculum of this three-semester (trimester) program gives insights to manage Safety, Health & Environment in industries and helps to develop a safe work culture in industries & societies. This one-year program is designed to develop professionals who will be able to demonstrate strong problem-solving acumen and analytical skills as well as excellent interpersonal skills. The students of this program imbibe a sense of ownership towards the business and society at large.

Program objectives

- To create awareness on "The Quality of Life Protection" through Safety, Health and Environment
- To create awareness on hazards & operational hazards
- To assist in the development of new methods & process of Safety, Health and Environment skills and analytical techniques
- To develop managerial abilities and analytical skills, training, communicate with the community and interact with government and statutory authorities

Why this Program

The demand for Environment, Health and Safety professionals is increasingly growing in Industries across the globe. The rapid advancement in technology and extensive automation in industries such as Engineering Industries, Chemical, Petrochemical, Construction activities, etc. have led to convoluted Health, Safety and Environmental problems in these industries. Recognizing this need, the short-term Post-Graduation Diploma in Industrial Environment, Health and Safety program is tailored to meet these industrial requirements. The curriculum is designed based on the Environment, Health and Safety requirements that are covered by a wide spectrum of international and national legislation.

• • ● Career Prospects ● • •

Safety Officer	Safety Manager
Safety Auditor	Safety Instructor
Safety Supervisor	

Executive Program (One Year)
Post Graduate Diploma in Hospital Management (PGDHM)

About the Program

There is a huge demand for hospital administrators in India as the Government of India strives to provide the best hospital and healthcare services to the citizens of India. The PGDHM provides plenty of opportunities to aspirants in the healthcare sector.

Program objectives

- To understand the managerial skills and its implementation in an organized way in the hospital sector.
- To get acquainted with the full functioning of the hospitals.
- To become familiar with the National Health Programs, insurance and its application in hospitals.
- Efficiently implement process of accreditation in the health sector.

Why this Program

It is estimated that hospitals constitute 70% of healthcare sector. Well-managed hospitals can achieve superior output, patient satisfaction and effective clinical success. In India, there is dearth of skilled and efficient hospital administrators, yet a very few academic institutions offer hospital management program. The doctors in hospitals find it challenging to strike a balance between clinical and administration operations simultaneously.

• • ● Career Prospects ● • •

Medical Director	Deputy Superintendents
Duty Managers	Patient Relation Executive
Patient Coordinator	Hospital Administrator
Hospital Business Manager	

Mentorship by Eminent Advisory Committee

- **Dr. Abhijat Sheth,** Director Medical Services, Apollo Hospitals, Ahmedabad
- **Mr. Rajiv Sharma,** MD-CEO, Sterling Hospital, Ahmedabad
- **Dr. Anish Chandarana,** CEO, CIMS Hospital, Ahmedabad
- **Dr.Bharat Gadhavi,** MD-CEO, HCG Hospital, Ahmedabad
- **Dr. C Gopalkrishnan,** Director, SPM, PDEU
- **Mr. B. Ramesh,** Director, Apollo CBCC Cancer care, Apollo Hospitals, Ahmedabad

Executive Program (One Year)
Post Graduate Diploma in Data Science

About the Program

The Postgraduate Diploma in Data Science is a One year (Bi-weekly), a skill-oriented, practical training program catering to the needs for building business models using analytics and improving the skill set of methodologies and tools utilized in a company's analytical and statistical operations. The PGD in Data Science is a postgraduate degree program that provides specialized training in statistical analysis and modeling techniques to extract insights from data. This program helps to enhance the critical thinking and problem-solving skills of the student in the context of Data Science.

Program objectives

- To provide a comprehensive understanding of data science concepts, techniques, and methodologies.
- To equip students with the necessary skills to collect, clean, analyze, interpret, and visualize large sets of data.
- To develop proficiency in programming languages commonly used in data science, such as Python and R.
- To provide hands-on experience with industry-standard tools and technologies used in data science projects.
- To introduce machine learning algorithms and their applications in solving real-world problems.
- To offer opportunities for practical projects or internships to gain real-world experience in applying data science techniques
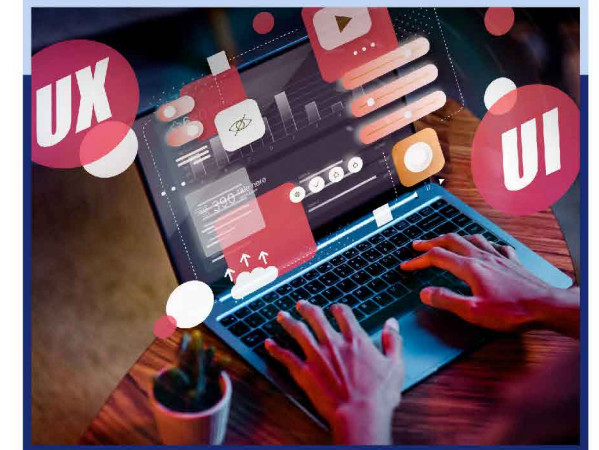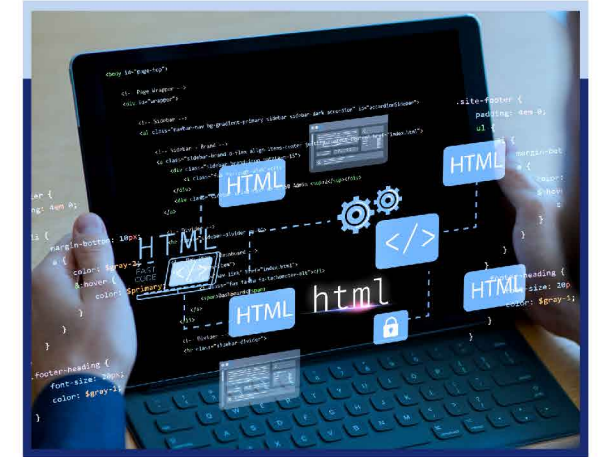

Why this Program

Data science is an interdisciplinary subject that employs scientific techniques, procedures, algorithms, and systems to extract information and insights from structured and unstructured data, and then applies that information and actionable insights across a wide range of application areas. Data science is connected to data mining, machine learning, and big data. It employs techniques and theories from a variety of disciplines, including mathematics, statistics, computer science, information science, and domain expertise. Data science, on the other hand, is distinct from computer science and information science. After completing this course, a candidate not only expands their working resume, but also opens doors to positions such as Data Scientist, Business Analyst, Data Analyst, Data Engineer, Data Architect, Data Mining Engineer, Research Analyst, Business Intelligence Analyst, Analytics Manager, and so on.

Executive Program (One Year)
Post Graduate Diploma in Full Stack Development

About the Program

Postgraduate Diploma in Full Stack Development is an engaging yet rigorous one-year online program designed specifically for working professionals to develop practical knowledge and skills, establish a professional network, and accelerate entry into full stack development careers. Expect to carry out several industry-relevant projects simulated as per the actual workplace, making you a skilled full-stack professional at par with leading industry standards. It prepares students for a career as a full stack developer, software engineer, web developer, or related roles.

Program objectives

- To gain a deep understanding of front-end technologies such as HTML, CSS, and JavaScript.
- To develop proficiency in popular front-end frameworks and libraries like React, Angular, or Vue.js.
- To acquire expertise in back-end programming languages like Python, Java, or Node.js.
- To learn database management and gain hands-on experience with SQL and NoSQL databases.
- To develop the ability to design and implement responsive and user-friendly web interfaces.
- To gain practical experience by working on real-world projects or completing internships.

Why this Program

PGD in Full Stack Development will give you the foundation for building full stack web apps using the Java programming language. You'll begin with the basics of JavaScript, and then venture into some of the more advanced concepts like Angular, Spring Boot, Hibernate, JSPs, and MVC. It provides students with comprehensive knowledge and skills in both front-end and back-end web development, enabling them to pursue successful careers in the field. After completing this course, a candidate not only expands their working resume but also opens doors to positions such as Full Stack Developer, Front-end Engineer, Full Stack Engineer, Software Engineer, and so on.

••• Salient Features ••

- Research Centre by Cadila
- Ph.D. Faculties from Eminent University like IITs, NITs etc.
- Industrial Internship / Project
- Highly Advanced Lab Facility NMR , HPLC , GC , FTIR
- MoU with CSIR Laboratories (Lucknow, Hyderabad, New Delhi, Pune)
- 100+ Industrial Linkages
- B.Sc. With Honors Degree (As per International Standard)
- 100% Placement Assistance
- Soft Skills Training
- MoU with IIT Guwahati (1 Semester study)
- Mandatory Internship
- Collaboration with State Govt. Research Centers
- Industrial Visit & Expert Session
- Industry Oriented Syllabus

Achievements of INDRASHIL UNIVERSITY

- Received Research Grant of 4+ Crore from Govt. Organizations 2021&22
- Department of Chemistry, School of Science Received DST-FIST Grant 2022
- Best University in Research & Innovation of Gujarat 2022
- Dr. J. S. Yadav Research Director, IU is Awarded "Gold Medal" from CRSI for Contribution in Organic Synthesis in 2022
- Best Young University of Gujarat 2021
- Dr. Amish Vyas (Registrar,IU) is Awarded "Registrar of the Year " Received at 2nd Higher Education Innovation & Technology Summit 2022

··· Glimpse of Faculty Achievements ···

Parents give the gift of life and the teacher give the art of living well. Teaching is very noble profession that shapes the character, caliber and future of the individual.

Research Progress

Total Publications: 271

H-index: 14

As on May 2023 …

Year	Publications
2018	11
2019	21
2020	47
2021	49
2022	93
2023	50

INDRASHIL UNIVERSITY
A LIFE SCIENCES UNIVERSITY
Sustained Excellence with Relevance

An education initiative by **CADILA PHARMACEUTICALS LIMITED** — The Cure Continues…

CHEMICAL RESEARCH SOCIETY OF INDIA

Yet Another Recognition "Gold Medal"

Dr. J. S. Yadav
Provost, Indrashil University

Received "Gold Medal" from CRSI for contribution in Organic Synthesis for the year 2022

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INDRASHIL UNIVERSITY
UNIVERSAL

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Yet Another Recognition "REGISTRAR OF THE YEAR 2022"

Dr. AMISH VYAS
Registrar, Indrashil University

Received at
2nd Higher Education Innovation & Technology Summit 2022
at New Delhi

Shortlisted from the 500 applicants across India.

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INDRASHIL UNIVERSITY

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Congratulations!!!

Dr. Naga Puvvada
Asst. Professor
Department of Chemistry

Selected to
The BRICS - Young Scientist Forum 2022

BRICS 2022 CHINA

(One among 5 scientists representing India in the Healthcare Domain)

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INDRASHIL UNIVERSITY

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Recognition Continues…
Indrashil University celebrates the Proud Moment for its

Provost : Dr. J.S.Yadav

On being ranked amongst top 2% of Scientists worldwide
(Organic Chemistry)
Consecutively for two years, 2020 & 2021 in a row

#Stanford University and #Elsevier B.V.

INDRASHIL UNIVERSITY

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Congratulations!!!

DR. VIJAI SINGH
HOD, BIOSCIENCES
SCHOOL OF SCIENCE
FOR
INTERNATIONAL PROJECT
"DEVELOPMENT OF CELL FREE SYSTEM FOR GENE EXPRESSION"

IN ASSOCIATION WITH:
KAIRON LIFE SCIENCE PVT. LTD,
SANTA CLARA, CALIFORNIA, UNITED STATE

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INDRASHIL UNIVERSITY

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Congratulation

Dr. Rajesh Bhosale
Head, Chemistry Department,
Indrashil University

Has been elected as a fellow of Maharashtra Academy of Sciences.

Date: 02 Dec, 2022
Place: Pune

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INDRASHIL UNIVERSITY

An education initiative by **CADILA PHARMACEUTICALS LIMITED**

Congratulations

DR. NAGA PRASAD & DR. RANDHIR KUMAR,
SCHOOL OF SCIENCE
FOR RECEIVING GSBTM GRANT OF
₹ 62,80,712/-

GSBTM

FOR THEIR PROJECT ON
"Synthesis and Characterization of Mannose Carbon Nanoparticles (MCN's) for cure of Ovarian Cancer and nanobiocomposite films in tissue engineering"

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INDRASHIL UNIVERSITY

An educational initiative by **CADILA PHARMACEUTICALS LIMITED** — The Cure Continues…

Congratulations

Indrashil University
Faculty Excellence Awards 2023

School of Engineering

Dr. Sidheswar Routray
(Associate Professor & Dean)

Dr. Krunal Modi
(Assistant Professor)

Dr. Siddhant Patel
(Assistant Professor)

Indrashil University
Vice-Chancellor's Special Award 2023

Dr. Amish P. Vyas
(Professor & Registrar)

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INDRASHIL UNIVERSITY

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Congratulations

DR. HARENGIRI GOSAI
Asst. Professor, Dept. of Biosciences,
School of Science

FOR RECEIVING GSBTM GRANT OF
₹ 36,80,356/-

GSBTM

PROJECT TITLE
Bioremediation of PAHs in soil mesocosms through adaptive laboratory evolution of defined bacterial consortia isolated from Gujarat Coastline
Sanctioned by GSBTM, Gandhinagar

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INDRASHIL UNIVERSITY

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Congratulations

Indrashil University
Faculty Excellence Awards 2023

School of Science

Dr. Rajesh Bhosale
(Associate Professor & Dean)

Dr. Poulomi Sengupta
(Assistant Professor)

Dr. Harengiri Gosai
(Assistant Professor)
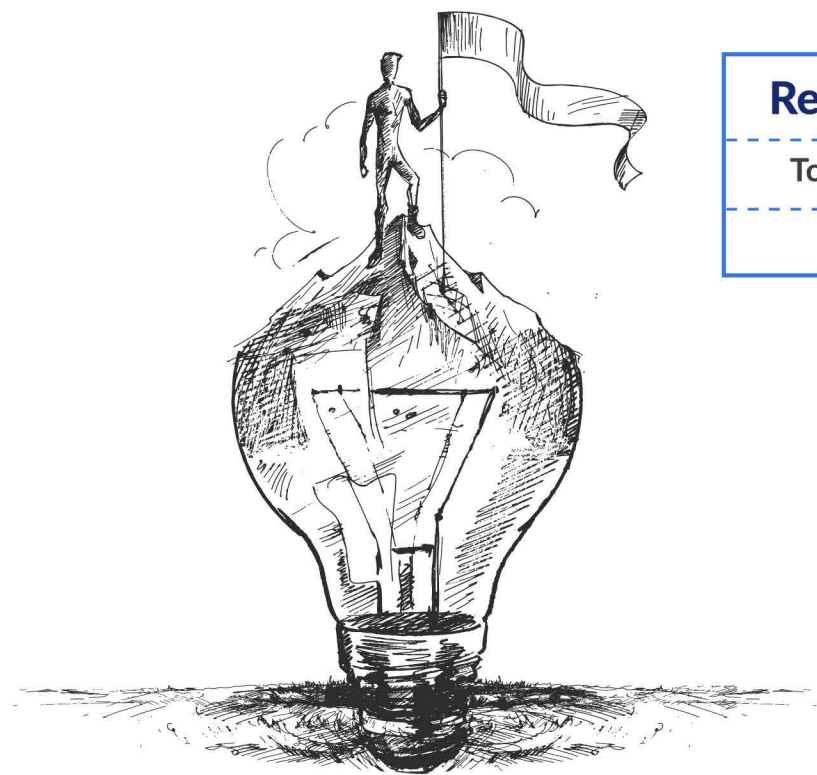
Indrashil University
Vice-Chancellor's Special Award 2023

Indrashil University
Appreciation Award 2023

Dr. Vijai Singh
(Associate Professor, Dean I & R)

Dr. Nidhi Gour
(Associate Professor)

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Glimpse of Students Achievements

Nothing makes a teacher happier than students achieving milestones.
Here Faculty helping students to find a path of glory.

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RECEIVED PRESTIGIOUS "DST-INSPIRE DOCTORAL FELLOWSHIP AWARD"

She was completed M.Sc. Chemistry (Batch 2019-2021) and received Gold medal in Indrashil University.

Chaudhari Vaishaliben Dilipbhai

Ph.D. Scholar (Enrolment No.:210210302001)
Ph.D. Guide: Dr. Rajesh S. Bhosale

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A LIFE SCIENCES UNIVERSITY — Sustained Excellence with Relevance
ICMR INDIAN COUNCIL OF MEDICAL RESEARCH
An education initiative by CADILA PHARMACEUTICALS LIMITED — The Care Continues...

Received Prestigious Indian Council of Medical Research Senior Research Fellowship (ICMR -SRF)

Ms. Gargi Bhattacharjee
Guide: Dr. Vijai Singh

Mr. Khushal Khambhati
Guide: Dr. Vijai Singh

IU Parivar Proudly Congratulating Ph.D Scholars for your Grand Achivement

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INDRASHIL UNIVERSITY
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Indrashil University Congratulates it's First Ph.D. Student

"Studies on Bacterial L-Asparaginase and its Antiproliferative Activity"

Ph.D. Supervisor
Prof. Bharti Dave

Ms. Payal G. Patel

Subject: Microbiology
Department: Biosciences, School of Science,
January 2023

Ph.D. Co-Supervisor
Dr. Harengiri Gosai

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INDRASHIL UNIVERSITY
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Congratulations!!!

Mr. Khush Thakkar,
IU's B. Tech (CSE)

1st year Student at
Kankariya Karnival..
Played Tabla with
official team for event

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Achiever

GATE AIR RANKING 141

Yash Punjabi
B.Tech CSE
2018-2022

"Wish it. Plan it. Do it."

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INDRASHIL UNIVERSITY
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Congratulations!!!

Chitrangi Vaghmaria,
BSc. (Biosciences), Sem-VI

Co-author of a book -
"Between the voices of Nature & Life"
published by Wordsmith

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Congratulations!!!

Ms. Rijoice S. Parmar,
B-Tech, Sem-II

Won Silver in
Kabbadi at State level,
Khel Mahakumbh,
May, 2022

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Glimpse of Student Testimonials

Read what current students and alumni have to say about their experience.

Being a Student of IU,Dual Degree Program(3+1 year) in CSE department has pushed my education horizon broader. Thanks to the brilliant curriculum and exceptional faculty members of IU. I am proud to be a student of this prestigious institution.

Mr. Hard Shah
B. Tech Computer Science & Engineering
3 Years - IU
3+1 Program in collaboration with SHU,USA
Final Year in: Sacred Heart University (USA)

I am overwhelmed to Indrashil University and all faculties who helped me to get this opportunity to do internship at IIT Guwahati. A beautiful place that one can experience all three season at a time. So much supportive and amazing help I received from colleagues and my guide to enhanced my skill and improve my knowledge.

Ms. Krupa Mehta
M.Sc. Chemistry
Internship in: IIT GUWAHATI

I got an incredible opportunity in my last semester to do my dissertation work at CSIR-IICT Hyderabad in the field of my interest. Now that I have gained hands on training on the above topics. I would like to apply that in my job career and would like to work hard in the industry. I will always be grateful to the university for giving me such an opportunity.

Ms. Seema Parmar
M.Sc. Chemistry
Internship in: IICT, Hyderabad

I would like to thank Indrashil University for giving me this great opportunity. It is a great privilege for me that I am a student of Indrashil University. I would also extend my grateful thanks to Placement officer, internal guide, Dean, HOD and faculty members for taking part in useful decision and giving necessary advises and guidance throughout the internship period.

Ms. Purvika Parmar
B. Tech Computer Science & Engineering
Placed in: Sunfloweebiztech

I am happy that I have joined SynZeal Research Pvt Ltd. I would like to express my gratitude to all the faculty members of Indrashil University, HOD sir, Placement officer for their unwavering support and guidance throughout my academic journey. Without their guidance, I would not have been able to achieve this success and making my joining process smooth and seamless.

Mr. Keyur Koriya
M.Sc. Analytical Chemistry
Placed in: SynZeal Research Pvt. Ltd

I am more than grateful for the opportunity that Indrashil University gave me to interview for bosc tech. I am thankful to my faculties and Placement officer for their efforts, motivation and commitment to get us placed, we couldn't have done it without you all.
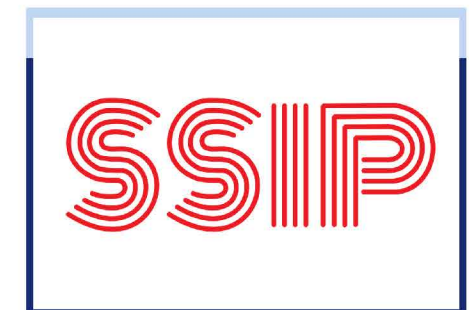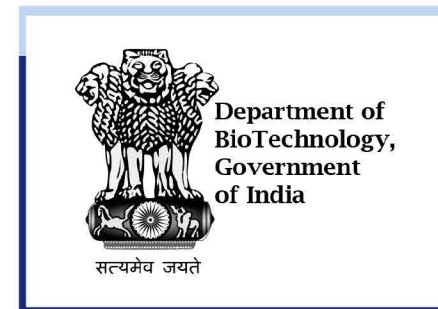
Mr. Vinay Nair
B. Tech Computer Science & Engineering
Placed in: BOSC Tech Labs

Glimpse of Recognition

Nurturing Researchers in the Life Sciences

Why stop at research when you can apply it and see your ambitions materialize?
IU's Start-up Cells and Incubation Centre can help you realize your dreams.

Innovation & Start-up Cells

IU has set up a world class infrastructure to support ideas, and enable sustainable start-ups leap towards a successful business model for the entrepreneurs. The innovation and start-up cell under the management of a dedicated and committed team helps to thrive the goals of incubates with market reach channels. The institute has got recognition from both the Central and State Governments for its contribution towards the nation's vision for 'Atmanirbhar Bharat'.

There are three verticals viz. the SSIP cell, IC cell and AIC-ISE Foundation. The first two are supported by the Gujarat State Government under the SSIP policy through Gujarat Knowledge Society and Industries Commissionerate respectively. The Atal Incubation Centre named AIC-ISE Foundation is supported by the Atal Innovation Mission, NITI Aayog, and the Government of India, as one of the flagship visions of the Central Government in start-up and entrepreneurship development.

Student Start-up and Innovation Policy (SSIP)

The innovation cell is working closely with IU students and helping them transform their initial ideas into successful projects and then leveraging from there to the next level of a start-up. A dedicated 5,000 sq. ft. area and funding support are reserved for this purpose.

Research Collaborations

Atal Incubation Centre - ISE

AIC-ISE Foundation is the mastermind SPV of the institution to support the innovation, research & development, start-ups and entrepreneurship within the campus. A separate 16,000 Sq. Ft. of dedicated and co-working space is setup with world class infrastructure for research & development required for the start-ups.

There is also a large mentor pool with eminent personalities from industry, government, public, private R&D labs and academia. The initial financial support over Rs. 50 lacs and Rs 2 Crores internal seed funding for start-ups is very resourceful. Furthermore, the incubates have easy and free access to investors, fundraising programs, corporate bodies, market reach, legal compliances, personnel management, training and coaching etc. under this umbrella.

Indrashil Innovative Foundation

The Indrashil Innovative Foundation is a SPV (Special Purpose Vehicle) of Indrashil University. It is a not-for-profit organization nurturing the students towards innovation and start-ups by providing the resources required to advance a novel idea to a minimum viable product then leverage to a start-up from there. The foundation is supported by the Gujarat State Government, Student Start-up & Innovation Policy.

Institutional Collaborations in Research and Innovation

- CSIR-IICT, Hyderabad
- CSIR-Central Drug Research Institute, Lucknow
- National Chemical Laboratory, Pune
- CSIR, New Delhi

Association with Government Agencies

- GSBTM –Govt. of Gujarat
- NSTEDB – Govt. of Gujarat
- Niti Aayog – Govt. of India
- SSIP – Govt. of Gujarat
- GUJCOST – Govt. of Gujarat

Incubation Support

20 Startups	40 Projects	10 IPR Patents

Glimpse of Expert Talk 2022-23

EXPERT LECTURE IN JCI ACCREDITATION IN HEALTH CARE
Dr. Clive Fernandes
C30 MAHARASHTRA ZONE
CLINICAL DIRECTOR- WOCKHARDT GROUP OF HOSPITALS
CONSULTANT - JOINT COMMISSION INTERNATIONAL
EXPERT@ISD.ia
14.07.2022 (Thursday)
07.00 PM Onwards
WATCH ONLINE ON ZOOM

EXPERT SESSION ON DEVELOPING A LEADERSHIP MINDSET FROM YOUNG AGE
Shri. Anurag Mehta
FOUNDER - VIRTUES TRAINING & DEVELOPMENT SHED | TEENAGE WISDOM
29.09.2022 (Thursday)
02.00 PM Onwards

EXPERT SESSION ON CONTRIBUTION OF READING IN ONE'S SUCCESS!
Shri. Yogesh Bajaj
ASSISTANT GENERAL MANAGER – THE TIMES GROUP
FIRST YEAR STUDENTS OF SOS & SOE
29.11.2022 (Tuesday)
11.00 AM Onwards @ Seminar Hall

EXPERT SESSION ON EVERYTHING YOU NEED TO KNOW ABOUT TOEFL AND GRE
Ms. Bhagyashree Vaswani
BDM
04.08.2022 (Thursday)
02.00 PM Onwards
ETS INDIA

EXPERT SESSION ON THE NET ZERO GOAL & SUSTAINABILITY: ADOPTION OF GREEN HYDROGEN TECHNOLOGIES, CO_2 REFINERIES, BIOMASS VALORIZATION
Padmashri Prof. G. D. Yadav
EMERITUS PROFESSOR OF EMINENCE & FORMER VICE CHANCELLOR, ICT MUMBAI
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EXPERT SESSION ON STRESS MANAGEMENT
3RD, 5TH ,7TH SEMESTER STUDENTS FROM SoS & SoE
Shri. Nimish Dave
HEAD - CORPORATE RELATIONS, TRAINING AND PLACEMENT
12.11.2022 (Saturday)
02.00 PM Onwards @ Seminar Hall

EXPERT SESSION ON HOW TO TACKLE A PANDEMIC: LEARNINGS FROM COVID-19
Dr. Manindra Agrawal
PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, IIT KANPUR
30.11.2022 (Wednesday)
11.00 AM Onwards @ Seminar Hall

CHEMISTRY EXPERT LECTURE
Topic: Green Synthetic Strategies in Medicinal Chemistry
Speaker: Prof. B. P. Bandgar
Former Vice-Chancellor Punyashlok Ahilyadevi Holkar Solapur University, Solapur-Maharashtra
Venue: IU -Seminar Hall
20.03.2023 Monday
02:00 PM Onwards

LIVE WEBINAR
Growth and Dynamics of Vapor Bubbles in Various Regimes of Boiling with and Without External Electric Field
Dr. Gautam Biswas,
J C Bose National Fellow and Professor, Department of Mechanical Engineering, IIT, Kanpur
23.04.2022 (Saturday)
11.30 AM Onwards

Glimpse of MoU 2023

MOU WITH AIMS Healthcare LLC, Dubai
ACADEMIC COLLABORATION IN THE FORM OF INTERNSHIPS, PLACEMENT, CURRICULUM DESIGN, SUPPORT TO R & D PROJECTS, JOINT SEMINAR / WORKSHOP, SUPPORT STARTUP AND INNOVATION ACTIVITIES.
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MOU Between Indrashil University & Atal Incubation Centre with Brilliant Lifesciences and Youth Development Pharmaceutical Association
ACADEMIC COLLABORATION IN THE FORM OF INTERNSHIPS, PLACEMENT, JOINT SEMINAR, WORKSHOP, R&D PROJECTS, ENTREPRENEURSHIP NURTURING, START-UPS FUNDING...
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MOU WITH NIPER
National Institute of Pharmaceutical Education and Research, Ahmedabad
ACADEMIC COLLABORATION IN THE FORM OF INTERNSHIPS, CURRICULUM DESIGN, SUPPORT TO R & D PROJECTS, JOINT SEMINAR / WORKSHOP, SUPPORT STARTUP AND INNOVATION ACTIVITIES, SHARING THE ANALYTICAL AND RESEARCH FACILITY ETC.
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About Training & Placement Cell

At Indrashil University, there is a separate dedicated wing Training & Placement Cell, which takes care of all the Placement & Training related activities.

This Cell is fully equipped with all modern infrastructures and is lead by thorough professionals.

About Training & Placement Cell

Placement of students with right kind of job opportunities is an endorsement of University excellence in the respective field. Nationals and multinational companies are the regular visitors of the University for seeking out fresh talent.

Training & Placement Cell organizes various programs on regular basis like Mock Interview, Group Discussion, Aptitude Test Preparation etc…

Career Development Programmes

T & P Cell Started the Career Development Programs in the 1st semester onwards for the Students' Comprehensive Development so that they can learn about the Corporate Culture, Time Management, Communications Skills, SWOT Analysis, Personality Development, Resume Building etc…

Industrial Training

Training is the integral part of the study to acknowledge them for real problems. Students should be trained at various industries under the supervision and guidance by the faculty.

Student Projects / Training/Internship

Training & Placement Cell is provided the Internship of Summer and winter for both UG & PG students.

Industry Meet

Training & Placement Cell organizes Industries Meet at the University. This meets proved fruitful for the students, Faculty and Industry Personal.

Expert Lectures

Training & Placement Cell organizes expert lecture in coordination with Students Organizations.

Industrial Visit – Study Tour

Training & Placement Cell organizes Industry visit, in every semester for the students to give them the exposure for the large scale of practical application.

Training for the Faculty

Faculty is deputed to the various industries to enhance their teaching capability and allow them to enrich classroom delivery.

••• Corporate Relations & Placement •••

IU offered the Placement opportunity to 5th Sem. Students in B.Tech.   & many More...

Highest Package Offered SoE*	Highest Package Offered in SoS*	Average Package*	Students Placed*	Company Visited*
45 LPA	5.10 LPA	3.40 LPA	100%	150+

Indrashil International Career Counseling Cell

At INDRASHIL UNIVERSITY, there is a separate dedicated Indrashil International Career Counselling Cell **(IICCC)**, which takes care of all the Higher Studies related activities. Like...

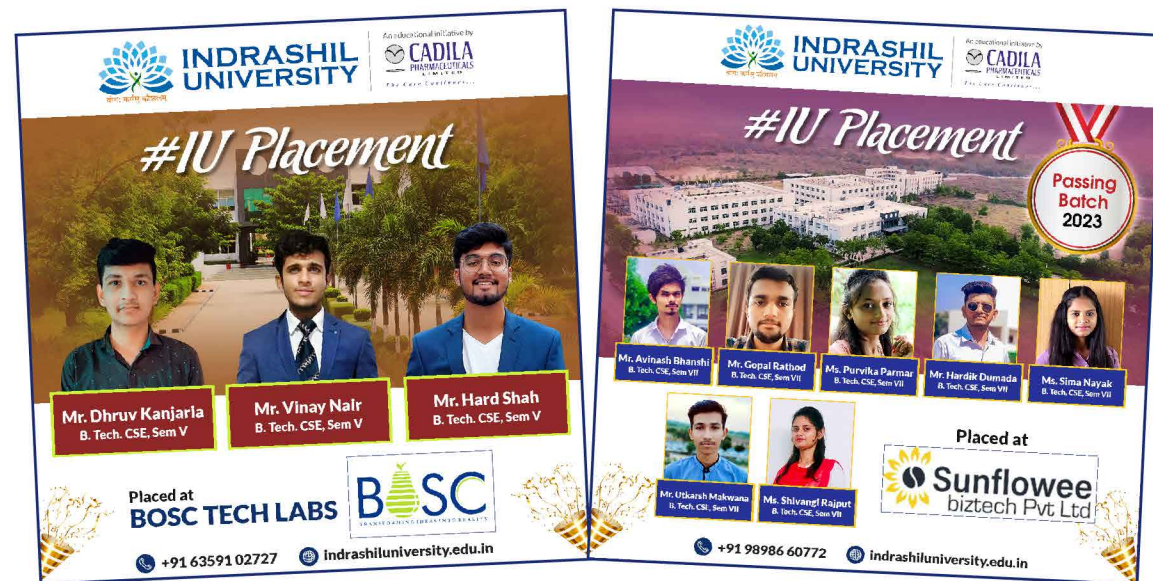|	
Career Counselling by experts	English Coaching Registration
Personalized admission and visa guidance	IELTS, GRE, GMAT, TOEFL, etc exam preparation
1 on 1 Counselling	Scholarship Options

••• Placement Excellence of IU •••

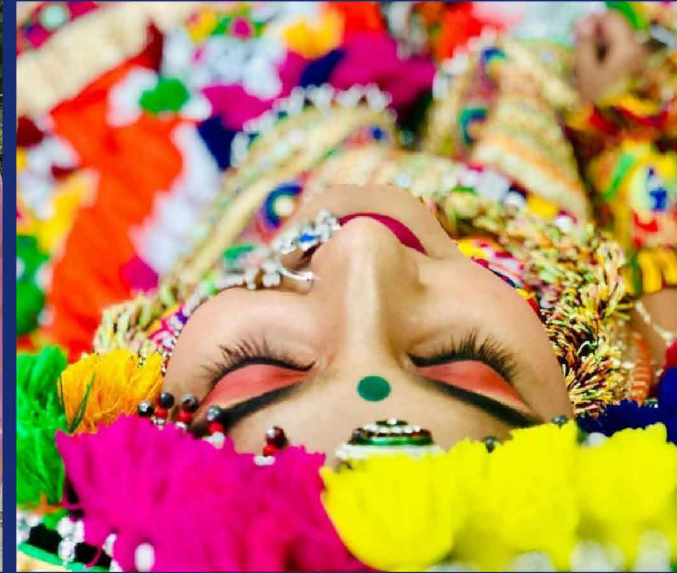**Days Celebration**
An unique experience of all time

National Science Day
Blood Donation
Ethnic Day
Yoga Day
Tree Plantetion
Group Day
Retro Day
Women's Day

Induction 2k22
A Day for welcoming the Freshers in University

> "
> Every year, many students join university for studies. They meet many new people and make new friends. Induction Program is a way to introduce the new students to their seniors and to the staff. It is a way to welcome them to the university.
> "

Muqabla 2k23

Play a game, you will feel restored!

> The day was filled with a lot of excitement, along with thrills, spirit, and cheers. All the students were very excited about the day, and the activities that were going to be carried out throughout the day. The chief guest for the day was a PRO Kabbadi Player, Mr. Ujjval Singh.

IUTSAV 2k23
Let's Celebrate Another Milestone

> IU celebrated its annual function, IUtsav 2023 with great ardor and enthusiasm at its campus. It was meticulously planned including student's active contributions showcasing their talent in various cultural performances. After that, one by one, the students of different Schools of University performed various programs.

2ND Convocation 2k23
Celebrating Academic Excellence

"

A Graduation ceremony is an event to celebrate all the hardwork that led students to this joyful occasion. IU has successfully accomplished its 2nd Convocation graced by our honourable President Dr. Rajiv I. Modi, Chairman Board of Management Shri M. Sahu and Chief Guest Dr. S. Chandrasekhar, Secretary to GOI, DST, New Delhi.

"

World Class Infrastructure To Promote Excellence

State-of-the-art facilities and cutting-edge technology for excellence are at par with global standards perfectly complement the erudite programmes of high academic excellence.

Classrooms

All classrooms are spacious, having advanced and digital facilities to enable effective learning.

Industry Standard Laboratories

Practical experiments and workshops are just as important as theoretical study; therefore at IU, it's ensured to provide the students with the best infrastructure and state-of-the-art laboratories that are well-stocked and equipped with the latest technology, offering an environment apt for learning.
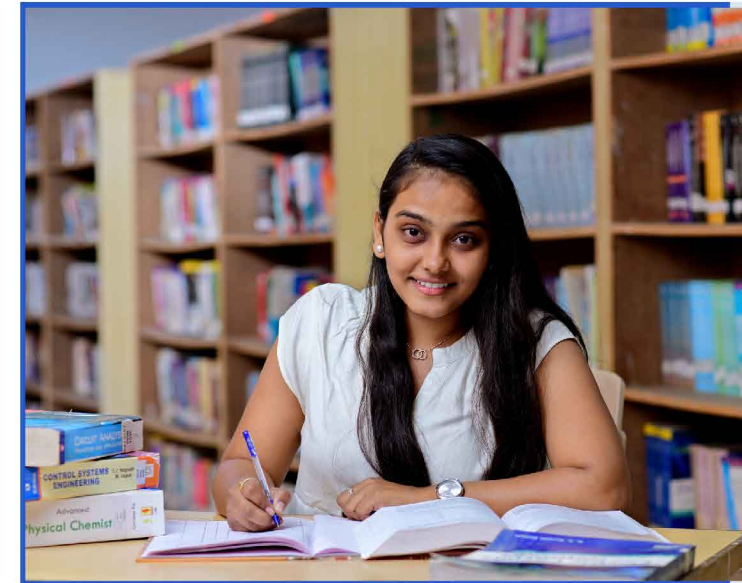

Language Lab

IU has a modern language lab, intending to involve students to actively participate in language learning exercises and get practice beyond the traditional classroom environment.

Library

The Library is well equipped with high-end books, textbooks, reference books, periodicals and journals. It is supported by a large well-ventilated reading-room. The library is enriched with digital facilities and computer systems. Free access to it is made available to the students, faculty and staff. The library frequently displays and exhibits various books, newly arrived books and leading journals.

Digital Library

Indrashil University has created a next-generation digital library that is updated from time to time. The e-library has thousands of digital files, including e-books, e-journals, lectures and training videos which can be easily accessed by the students for their academic needs. The library has recently collaborated with the NDLI (National Digital Library of India).

Computer Lab

The advanced computer lab is designed to provide students with the latest technology and integrated network connectivity.

Information on Student Amenities

In order for students to have a convenient and fulfilling experience at IU, the University offers several amenities for students to avail of.

Girls Hostel

Boys Hostel

Transportation

Cafeteria

Seminar Hall

Guest House

Innovation & Start-up Cell