



TECHNOLOGY



GLOBAL
COLLEGE
OF SOCIAL SCIENCE & TECHNOLOGY





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Message From the

Dear Prospective Students,

We are proud to introduce Global College of Social Science and Technology (GCST), established under Professional Holdings Ltd., with a mission to meet Nepal's growing demand for advanced IT education. Affiliated with Purbanchal University, GCST is launching the B. Tech in Artificial Intelligence (AI) program - designed to develop industry-ready professionals equipped with practical skills for the evolving digital economy.

GCST operates on a state-of-the-art campus, equipped with cutting-edge digital infrastructure and supported by expert faculty with proven track records. The curriculum is tailored to modern technological trends and includes industry projects, case-based learning, lab experiments, and field applications to provide immersive and applied learning experiences. With strong ties to both national and international corporate sectors, GCST offers students extensive internship opportunities and career support. Our commitment is to foster innovation, critical thinking, and research in a dynamic academic environment.

We invite ambitious learners to join us in shaping future leaders through AI-powered education and experience a hands-on, future-focused academic journey at GCST.

Board of Directors



Khagendra P. Ojha, PhD

MBA with Top Rank and Gold Medal from Tribhuvan University,
PhD in Development Economics from University of Warsaw,
Associate Professor, Academic Council Member at Mid-West University,
Visiting Faculty at Western Michigan University, USA
Entrepreneur, Researcher and Author
Chairman - Professional Holdings Ltd.

Board of Directors



Bimal Prasad Dhakal, LLM

Senior Advocate

Board of Director – Nepal Life Insurance Company Limited
Over 25 Years of Experience in Law and Corporate Governance
Director - Professional Holdings Ltd.



Amit Kumar Keyal

Chartered Accountant & MBA (Finance)

Deputy CEO – Nepal Life Insurance Company Limited,
Over 17 Years of Experience in Board Advisory,
Growth Strategy & Alternate Investments
Representation as Board of Directors for Various Investee Companies
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Drona Lal Puri, PhD

MBA from Tribhuvan University,
PhD in Corporate Governance from Shinawatra
University, Thailand

Over 25 Years of Experience in Teaching
and Corporate Management
Director - Professional Holdings Ltd.



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Masters in Tourism Management

From Indira Gandhi National Open University, India
Successful Entrepreneur in Hospitality and Tourism
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Bindra Hada, MPA

Public Administration from University of North Carolina

Specialised in Non-profit Management Handling, Media, Creative
Thinking, Cross-cultural Conflict from Duke University
Leadership Experience in Governance Reform, Gender Equality,
Human Rights
Independent Director - Professional Holdings Ltd.



Ramesh Datt Pandey

Chartered Accountant

10+ Years of Expert Experience in Taxation,
Accounting, Financial Management, Business
Expansion Strategy, and Internal Control
Chief Financial Officer and Company Secretary -
Professional Holdings Ltd.

Ownership of Professional Holdings Limited

Professional Holdings Limited, Nepal's most popular corporate organisation, was founded by seasoned academicians, entrepreneurs, industry leaders, and professionals with a progressive mindset and commitment to innovation and growth.

Under its umbrella, Professional Holdings Ltd. owns and operates a network of distinguished academic institutions delivering school to university education.

Professional Holdings mission is to strategically invest in diverse, high-potential projects to maximise sustainable returns and create long-term value for stakeholders. The company leads a number of premium institutions in Nepal committed to delivering world-class education at par excellence.

Guided by its vision, higher education institutions under the Holding are aimed to be developed into the Deemed University on academic excellence; dedicated to producing global citizenship.

The corporate remains committed to achieving strategic growth through operational excellence, leveraging stakeholder value, play the role of catalyst to enhance innovation and adaptability, and contribute to the development of ethical leadership with standards and social responsibility in every decision; maintaining transparency and accountability at large.

Global Network



25,000+ Alumni
10,000+ Current Students



About Global College of Social Science and Technology



A Center of Excellence in AI Education

GCST, under Professional Holdings Limited–Nepal’s leading educational group–is a forward-thinking institution dedicated to producing globally competent graduates. Affiliated with Purbanchal University, it offers the Bachelor of Technology in Artificial Intelligence (B. Tech in AI), tailored to meet both national priorities and global tech demands.

With smart classrooms, AI-equipped labs, fast internet, and a digital library, GCST provides a high-tech, student-centered learning environment. The B. Tech in AI program integrates academic knowledge with industry-driven projects, ensuring graduates are digitally skilled and job-ready.

GCST also collaborates with international experts and IT leaders, encouraging experiential learning through research, seminars, and mentorship. Located in Kathmandu’s academic and tech hub, it offers excellent access to internships and career opportunities. GCST emphasizes quality, accessibility, and innovation, enabling diverse learners to succeed.

Vision

To be a leading academic institution in technology, recognised globally for fostering innovation, excellence, and transformative impact on society.

Mission

- > Deliver industry-relevant and globally competitive academic programs in technology.
- > Integrate academic rigor with leadership, ethical responsibility, and global citizenship.
- > Drive academic and industry collaboration or promote excellence in research, learning, and innovation

Core Commitments

- > Offer cutting-edge, career -focused education in the technology domain.
- > Cultivate future-ready leaders equipped for both global and local workforce demands.
- > Forge strong partnerships with academic institutions and industries worldwide.
- > Promote inclusive hands-on, and technology-driven learning experiences.

From the Academic Advisor

Dear Students and Stakeholders,

It is with great pride that I introduce the B.Tech in Artificial Intelligence (AI) at Global College of Social Science and Technology (GCST). This program is designed to prepare students with critical 21st-century skills, blending academic rigor with real-world relevance.

AI is not just a field of study—it is reshaping industries and society. At GCST, our curriculum combines strong theoretical foundations with practical applications, supported by advanced infrastructure and expert faculty. We emphasize ethical innovation, ensuring our graduates are both technically skilled and socially responsible.

As you embark on this journey, you'll have access to immersive learning experiences, research opportunities, and career support to unlock your full potential. I warmly welcome students, faculty, and our wider academic community to collaborate in shaping a future powered by AI.

Sincerely,

Prof. Subarna Shakya, PhD

PhD in Computer Engineering from the
Lviv Polytechnic National University, Ukraine
Academic Advisor, GCST



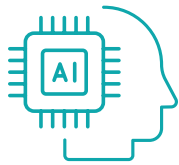
GCST: A Center of Excellence in **AI Education**

- > World-class AI labs equipped with the latest simulation tools and smart technologies
- > A curriculum connected to corporates and global tech ecosystems, not just textbooks
- > Project-based learning, internships, AI hackathons, and international research collaborations
- > Direct mentorship from academic experts, IT entrepreneurs, and global professionals
- > A state-of-the-art digital infrastructure at the heart of Kathmandu
- > A learning ecosystem that encourages creativity, ethical responsibility, and innovation



Bachelor of Technology in Artificial Intelligence (B.Tech in AI)

Empowering Nepal's Future Tech Leaders



The B. Tech in AI at Global College of Social Science and Technology (GCST), affiliated with Purbanchal University, is one of Nepal's most sought-after IT programs. Spanning over four years across eight semesters, the course combines theoretical depth with strong practical engagement, preparing students for impactful careers in AI, machine learning, and emerging technologies.

This program is more than a degree—it's a transformative journey that builds leadership, innovation, and real-world problem-solving skills. Designed to help students thrive in the global digital economy, B. Tech in AI at GCST shapes tech-savvy, socially responsible professionals ready to lead change.



Vision

GCST's B. Tech in AI program is envisioned to be a national and global model for excellence in AI education, producing ethical and visionary leaders for a tech-driven world.



Mission

- > Provide practical and ethical education in AI.
- > Promote critical thinking, innovation, and interdisciplinary learning
- > Bridge academia with industry and research sectors
- > Cultivate responsible leadership for equitable tech advancement



Objectives

- > Deliver solid theoretical and hands-on knowledge in AI
- > Offer real-world learning via projects and industry links
- > Enhance decision-making and problem-solving skills
- > Encourage ethical and innovative AI development
- > Support entrepreneurship and global collaboration
- > Promote research in AI, robotics, and automation
- > Prepare graduates for success in diverse global roles

Program Director Says...

Dear Aspiring Scholars,

We are pleased to introduce the B. Tech in Artificial Intelligence (AI) program at Global College of Social Science and Technology (GCST).

This program goes beyond theoretical learning—offering hands-on projects, industry internships, and research opportunities that immerse students in real-world AI applications. With practical engagements at its core, the course equips students with the skills needed in today's evolving tech landscape.

GCST actively collaborates with the AI industry to align its curriculum with professional demands. Students benefit from flexible access to advanced labs, modern tools, and expert mentorship dedicated to their success.

As Program Director, I am committed to continually enhancing the program to prepare students for impactful careers ahead. I invite each aspirant scholar to join GCST and begin your journey for your dream career with smart and intelligent technologies.

Er. Bhim Chandra Gautam, CISSP, PhD Scholar
ME-Information and Communication Engineering
Pulchowk Campus, Tribhuvan University
Program Director



Program Coordinator Says...



Dear Students,

Welcome to the B. Tech in Artificial Intelligence (AI) program at GCST. Our program is thoughtfully designed to combine core theoretical knowledge with hands-on experiences through projects, workshops, and industry-led sessions from the very beginning. You'll gain practical exposure in AI, Machine Learning, and Data Science while enhancing your problem-solving and technical skills.

As Program Coordinator, I am committed to ensuring every student receives the academic support and career guidance they need to succeed. From project assistance to industry interaction, my team and I will support you in creating a dynamic, engaging learning environment. Let's work together to shape a future where AI is a catalyst for positive change.

Rabindra Ojha

MIT (Artificial Intelligence)
University of Melbourne, Australia
Program Coordinator

Special Benchmarks of **B.Tech in AI** at GCST

- > Industry-responsive and globally recognised benchmarked curriculum
- > Cutting-edge technology-enabled teaching and AI simulation tools
- > Strong focus on experiential learning through capstone projects and industry internships
- > A dynamic faculty team with academic depth and industry insights
- > Exposure to tech firms through institutional partnerships for research, mentoring, and placement

Key Areas of **Focus**



Machine Learning



Natural Language
Processing



Robotics &
Intelligent Systems



Business Intelligence and
Automation



Ethical AI &
Responsible Innovation



Big Data & Cloud-
based AI Applications



Deep Learning &
Neural Networks



Academic Approach

The **Global College of Social Science and Technology (GCST)** adopts a student-centered modern academic approach that is ideal to prepare communities of scholars with professional technology skills essential to meet with evolving demands of the modern world. With a focus on quality education, innovative learning practices, and career readiness, GCST blends an innovative learning scheme integrating state-of-the-art technologies to provide a holistic educational experience. Depicted hereafter is a detailed overview of GCST's academic approach:



Student-Centric Learning

At GCST, the learning environment is designed to place students at the center of the academic process. The teaching methodology encourages active participation, critical thinking, and collaborative problem-solving. Faculty



Modern Curriculum Design

GCST's B. Tech in AI curriculum blends theoretical foundations with real-world applications. Key components include:

- > Core AI topics such as; Machine Learning, Neural Networks, and Deep Learning.
- > Interdisciplinary areas like Mathematics, Data Science, and Ethics.
- > Applied technologies including Robotics, IoT, and Cloud Computing.
- > Industry-aligned electives reflecting current tech trends.

The curriculum is regularly updated with input from industry leaders to maintain its relevance and enhance employability.





Experiential Learning

GCST adopts a student-centered, learning-by-doing approach to build practical skills alongside theory. Key features include:

Laboratory Work

State-of-the-art AI and computing labs provide hands-on experience with cutting-edge tools and technologies.

Hackathons and Internships

Students engage in AI projects, hackathons, and software development challenges that mirror real-world scenarios, enhancing creativity and technical skills.



Research-Driven Approach

Research engagement is a cornerstone of GCST's academic approach. Students are encouraged to undertake projects under faculty supervision, contributing to advancements in their area of specialization. GCST also partners with academic institutions and industries for collaborative research in emerging areas like AI, Machine Learning, and Data Science.



Technology-Enhanced Learning Environment

The integration of modern technology in the academic process is a hallmark of GCST. Smart Classrooms, Online Learning Platforms, and AI-Driven Tools are unique technology-enhanced learning and environmental ambiances availed for students and faculty engagements at GCST.



Holistic Development

GCST believes in nurturing well-rounded individuals. Beyond academics, students participate in the below-listed major extra and co-curricular activities at GCST.



Industry Collaboration and Career Support

GCST has been pro-active institution on building strong relationships with industry partners. Through corporate and agency partnerships with the prestigious IT companies and expert groups in Nepal and abroad, GCST bridges the gap between industry and students.



Ethical and Sustainable Practices

GCST integrates ethics and sustainability into its academic approach, ensuring students understand the societal impact of their work. Courses on AI Ethics, Sustainable Development, and Social Responsibility are integral parts of the AI curriculum under Purbanchal University.





International Exposure

Privileged with institutional collaborations with the international academia, expert organizations, development partners, international non-government organizations, IT industries and corporates, GCST provides students with global opportunities to benefit from exchange programs, international conferences and seminars, and joint research programs.



Internal Quality Assurance

GCST has in place an Internal Quality Assurance Cell (IQAC) to continuously monitor and mentor to scale up academic standards of each of its programs in deliverance. The IQAC ensures;

- > Regular faculty training and development.
- > Student feedback from instructors and faculty performance appraisal for teaching improvement.
- > Quality benchmarks for academic programs and support services.

B.Tech in-AI Course Structure

Year I/ Semester-I

18 Credits

>> Introduction to Programming	3
>> Digital Logic	3
>> Calculus	3
>> Introduction to Artificial Intelligence	3
>> Technical Report Writing and Presentation	3
>> Society and Professional Ethics	3

Year II/ Semester-I

17 Credits

>> Database Management System	3
>> Data Structure and Algorithm	3
>> Computer Organization	3
>> Operating System	3
>> Differential Equations	3
>> Project-II	2

Year I/ Semester-II

17 Credits

>> Object Oriented Programming	3
>> Artificial Intelligence and Intelligent Systems	3
>> Microprocessor and Assembly Language	3
>> Probability and Statistics	3
>> Linear Algebra	3
>> Project-I	2

Year II/ Semester-II

17 Credits

>> Numerical Methods	3
>> Computer Networks	3
>> Design and Analysis of Algorithms	3
>> Programming for AI	3
>> Introduction to Data Science	3
>> Project-III	2



Year III/ Semester-I**17 Credits**

>> Machine Learning	3
>> Optimization Techniques	3
>> Embedded Systems	3
>> Pattern Recognition and Image Processing	3
>> Data Warehousing and Mining	3
>> Project-IV	2

Year III/ Semester-II**17 Credits**

>> Object Oriented Software Engineering	3
>> Computer Vision	3
>> Deep Learning	3
>> Speech and Natural Language Processing	3
>> Research Methods	3
>> Project-V	2

Year IV/ Semester-I**11 Credits**

>> Internship	3
>> Reinforcement Learning	3
>> Cloud Computing	3
>> Project-VI	2

Year IV/ Semester-I**12 Credits**

>> IoT for Smart City	3
>> Elective-I	3
>> Elective-II	3
>> Professional Project	3

List of Elective Courses**Computer Vision**

- Image and Video Processing
- Surveillance Video Analytics
- People Detection and Bio-metric Recognition

Mathematics

- Introduction to Statistical Learning
- Optimization Methods in Machine Learning/ Convex Optimization
- Kernel Methods
- Bayesian Data Analysis

Computing/IoT

- Smart Product Development
- Predictive Analysis and IoT
- Modeling & Simulation
- Pervasive Computing

Data Science

- Fundamentals of Big Data Analytics
- Data Analysis and Visualization
- Business Intelligence
- Social Media Analytics

Eligibility for Admission

- Should have successfully completed twelve years of schooling with Mathematics
- Should have scored minimum D+ grade in each subject of 10+2 with CGPA 2.0 or above






Teaching Faculties

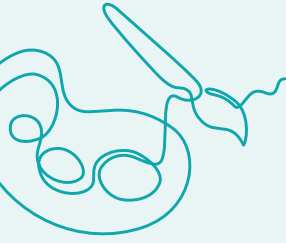
Dr. Laxman Mandal	PhD
Dr. Pradeep Karn	PhD
Er. Uttam Karki	PhD Scholar
Er. Subash Gautam	PhD Scholar
Mr. Rabindra Joshi	PhD Scholar
Er. Bhim Chandra Gautam	ME, CISSP
Mr. Rabindra Ojha	MIT-AI
Mr. Roshan Dangi	MIT
Mr. Rahul Ray	MSc.IT, MBA
Mr. Dharendra Fouzdar	MCA
Mr. Bishwo Raj Pant	MEd.IT
Mr. Shasi Ram Dahal	Electronics, ICS
Ms. Puspa Maharjan	BIM, MIT, MBA
Mr. Amba Datt Joshi	MSc. Math
Mr. Mukunda Jha	MSc. Statistics

Student Life at GCST



At Global College of Social Science and Technology (GCST), students are provided **lively environment and engaging life to attaining academic excellence with holistic development. Through co-curricular, extracurricular, and leadership activities, students gain critical soft skills, confidence, and industry exposure to prepare for successful careers.**

Academic & Practical Engagements




GCST integrates hands-on learning through case studies, simulations, and research projects in AI, Data Science, and Robotics. Hackathons and coding competitions foster innovation and technical skills. Students regularly collaborate with faculty and present at conferences and journals.

Co-Curricular Activities (CCAs)

Workshops, seminars, and industrial visits enhance practical understanding of AI tools and technologies. Internship opportunities with tech companies and exchange programs with international institutions provide global exposure.

Student Clubs & Societies



Student-led clubs like the **AI and Robotics Club, Research Club, Entrepreneurship Club, and Social Responsibility Club** engage students in real-world projects, tech fairs, mentoring programs, and community outreach.





Extracurricular & Cultural Activities

GCST organizes sports tournaments, fitness sessions, yoga, and indoor games for student wellness. Cultural festivals and creative clubs promote talents in music, art, and performance.

Leadership & Community Engagement

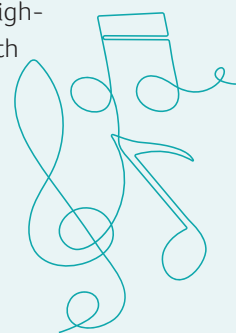
The Student Council plays an active role in college governance and event planning. Leadership workshops and service initiatives such as digital literacy and sustainability programs nurture social responsibility and civic awareness.

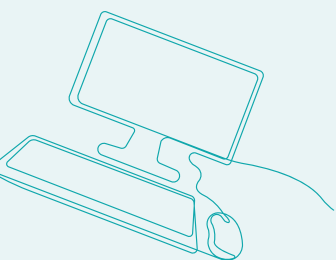
Career Development & Mentorship

GCST's **Centre for Professional Development (CPD)** supports job readiness through resume building, mock interviews, and skill training. Mentorship programs connect students with industry and academic experts. Alumni networks provide inspiration and guidance.

Innovation & Recognition

GCST's Innovation and Incubation Centre encourages students to develop AI-based prototypes and compete in idea contests, with winners receiving seed funding. High-performing students are recognized with awards and scholarships.





Digital Engagement Platforms

A comprehensive Learning Management System (LMS) provides access to academic resources and collaboration tools. Online communities help students stay connected with peers and faculty.

Global Exposure

Students attend international conferences and join global collaborative projects in AI and sustainability, gaining insights from global academic and professional networks.



Personal Development

Regular soft skills training in communication, leadership, and emotional intelligence complements technical learning. Wellness programs promote mindfulness, ethics, and personal growth.

GCST fosters a well mediated, skill-oriented student life that goes beyond classrooms—empowering students to grow as competent professionals and responsible global citizens.





Campus Environment, Resources and Facilities

Global College of Social Science and Technology (GCST) provides state-of-the-art resources and facilities. The in-campus environment is enriched with the ambiances and modern facilities provided for students to be prepared for holistic development and fee self-motivated for autonomous learning with creativity and innovation. The infrastructure and amenities reflect GCST's commitment to quality education and academic excellence.

Campus and Academic Infrastructure

■ Modern Campus

The GCST campus is set in a world-class and spacious building with well-furnished interiors, creating an ideal environment for academic and extracurricular activities.

■ Smart Classrooms

Classrooms are equipped with smart boards, multimedia projectors, and audio-visual systems to enhance the teaching-learning process.

■ Computer Labs

Advanced computer labs with high-speed internet and the latest hardware and software are available for programming, data analysis, and AI model development.

■ AI and Robotics Lab

Specialized labs equipped with tools for Machine Learning, Deep Learning, Robotics, and IoT projects. Students can access frameworks like TensorFlow, PyTorch, and cloud computing platforms.

■ Library and Digital Resources

GCST has a central library with a large collection of books, journals, and research papers. The e-library provides access to global academic databases, including IEEE, Springer, and JSTOR.

■ Seminar and Conference Halls

Fully equipped halls with modern amenities are available at GCST to be used for guest lectures, workshops, and conferences.



- **Research and Innovation Centers**
Dedicated centers for research and innovation encourage students to collaborate on interdisciplinary projects and explore AI-driven solutions.

Recreational and Extracurricular Spaces

- **Sports Facilities**
GCST provides outdoor courts for basketball, futsal, and badminton, as well as indoor facilities for table tennis and chess.
- **Cultural Hall**
A multipurpose hall is available for cultural events, performances, and art exhibitions.
- **Cafeteria**
The professionally managed cafeteria offers a variety of hygienic and nutritious meals at reasonable prices, catering to students and staff.

Technology and Digital Platforms

- **Wi-Fi Connectivity:**
High-speed Wi-Fi is available throughout the campus for academic and research activities.

- **Management Information System (MIS)**
A robust MIS platform installed at GCST enables students to access study materials, class schedules, faculty details subject-wise, digital resources, track assignments, and collaborate on group projects online.

- **Digital Studio**
A dedicated space for students to work on digital content creation, including video editing, graphic design, and multimedia projects.

Health and Safety Facilities

- **Infirmary**
GCST has in place a fully equipped infirmary with a certified nurse for primary healthcare and emergency needs.
- **Counselling Services**
Professional counsellors are deputed to the GCST, who offer academic, career, and personal guidance to support students' mental well-being.
- **On-Campus Security**
The campus is equipped with CCTV surveillance and a security team to ensure a safe learning environment.



Student Support at GCST

GCST has in place a well-defined student support mechanism dedicated to providing students with every support on various matters related to their academic, professional, and personal interests. Plentiful services and initiatives ensure students thrive in their academic endeavors.

Academic Support

■ Tutoring and Mentorship

Every individual student at GCST is assigned a mentor to provide academic guidance and address challenges. Additional tutoring sessions and remedial classes are offered for complex subjects.

■ Research Assistance

Students receive guidance from faculty and research coordinators for academic projects, papers, and thesis development.

■ Workshops and Training

Regular workshops on programming, AI tools, and data analytics equip students with advanced technical skills.

Career Development Services

■ Placement Cell

A dedicated placement team of GCST connects students with internships and job opportunities at leading companies.

■ Career Counselling

Our career mentors provide personalised advice on career paths, resume building, and interview preparation.

■ Entrepreneurship Support

GCST facilitates seed funding, incubation, and mentoring for students interested in launching startups.

Personal Development

■ Soft Skills Training

Well-planned sessions on communication, teamwork, and leadership are offered at GCST to prepare students for professional environments.

■ Wellness Programs

GCST has embraced a policy of mental and physical wellbeing and it is materialized with the help of weekly yoga and mindfulness sessions facilitated by the professional trainers in the domain.

■ Ethics and Social Responsibility

A range of social service-based activities are organized at GCST for students to participate in programs that emphasise ethical practices, community service, and sustainable development.

Financial Support

■ Scholarships

GCST offers scholarships in diverse categories, including merit and need-based scholarships in addition to the university provisioned scholarships available to support deserving students.

Extracurricular Support

■ Clubs and Societies

Students can join various clubs, including the AI and Robotics Club, Entrepreneurship Club, and Art and Music Club at GCST to pursue their additional interests in building professional and personal aptitude.

■ **Event Participation**

GCST encourages students to participate in inter-college and national-level competitions, hackathons, and cultural events.

International Exposure

■ **Exchange Programs**

GCST has developed an exceptional link with the international academia and expert industries in AI providing students with opportunities to study as well as work abroad through partnerships.

■ **Global Conferences**

Students are ensured ongoing support and training to present their research outcomes in the international conferences and knowledge sharing forums.

Feedback and Grievance Redressal

■ **Student Feedback System**

A transparent mechanism has been in place at GCST to provide for students with feedback that the college uses to augment the quality of courses, faculty, and facilities.

■ **Grievance Redressal Cell**

GCST has deputed an academically qualified professional psychosocial counsellor who ensures that student grievances are addressed promptly and effectively. Our comprehensive resources and robust support systems ensure that students have every opportunity to excel academically, develop personally, and succeed professionally. These initiatives reflect GCST's commitment to empowering students to become responsible, skilled, and innovative global citizens.



Career Prospects

Graduates of B.Tech in AI program at GCST are well-equipped to pursue impactful careers across a wide range of industries. The following are a few selective areas to mention:

- Artificial Intelligence Engineer
- Machine Learning Specialist
- Data Scientist
- Robotics Software Developer
- AI Researcher or Analyst
- Business Intelligence Consultant

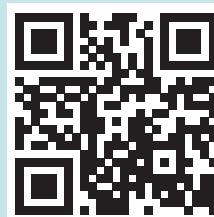
With its comprehensive curriculum, practical orientation, and commitment to innovation and excellence, the B. Tech in AI at GCST offers a transformative academic journey that empowers students to shape the future through technology.







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