

Excellent Placement Record

Mr Mayur Patil



Package offered

45.00 LPA

Mr Chris Louis Lopes



Package offered

22.00 LPA

Mr Rudraksh Karpe



Package offered

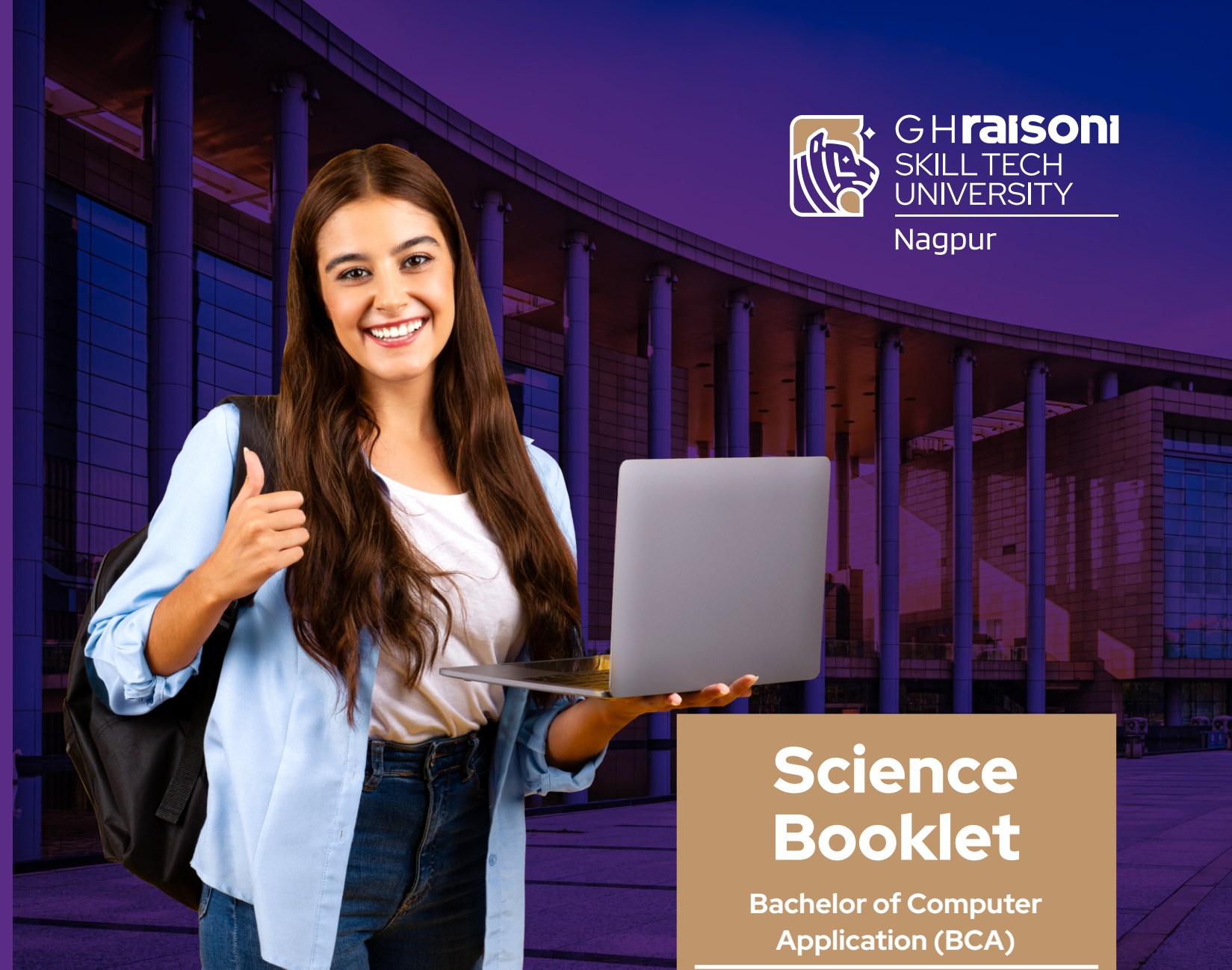
18.00 LPA

Mr Mohit Sali



Package offered

17.50 LPA



## Science Booklet

Bachelor of Computer Application (BCA)

Bachelor of Science (B.Sc.)

Computer Science

Information Technology

Data Science

Artificial Intelligence

Cybersecurity

Forensic Science

Digital Forensics

Food Nutrition and Dietetics

Artificial Intelligence & Law Analytics

Fire & Industrial Safety

Where Young Minds  
Sculpt the  
*Digital  
Future*

**Corporate Office :** 345, Shradha House, Kingsway, Nagpur- 440001.  
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## ABOUT

### RAISONI EDUCATION

Raisoni Education, a leading educational network in Central India, boasts a rich history of nurturing future leaders across various disciplines. Established in 1998 with the foundation of G H Raisoni College of Engineering in Nagpur, Raisoni Education has grown steadily, encompassing 19 institutes and 4 universities spread across six cities: Nagpur, Jalgaon, Pune, Amravati, Pandhurna, and Bhandara.

An innovative approach at every step towards success sets Raisoni Education apart. We choose to provide practically orientated education combined with a strong academic focus, developed specifically to meet industry needs.

Since the start of our journey, our motto has been "The Vision Beyond."

Our diversified spectrum includes various industries, from manufacturing and distribution to marketing, construction, and healthcare. With education being a significant domain, we believe we can create an impact by empowering students to achieve new milestones and lead fulfilling lives.

We are dedicated to offering a wide range of courses and fostering a vibrant campus life to ensure our students receive quality education and holistic development. We are committed to equipping our students with the knowledge, skills, and confidence to excel in their careers and contribute positively to society.

### GHRSTU

G H Raisoni Skill Tech University, Nagpur, is a centre of excellence in education, research, skill development, and innovation. We are committed to academic excellence, catering to students across various programs. Our goal is to equip students with both theoretical knowledge and practical skills, enabling them to excel in their respective fields. As part of the prestigious Raisoni Education, GHRSTU inherits a legacy of academic excellence and innovation. With decades of experience in shaping future-ready professionals, Raisoni Education is renowned for its commitment to quality education, industry integration, and holistic development.



## OUR UNIVERSITIES

### Nagpur

#### G H Raisoni Skill Tech University

Ankush Shikshan Sanstha, Plot No.37-39/1, 39, Shradha Park, off Hingna-Wadi Link Road, Nagpur - 440016 (MH)

### Pune

#### G H Raisoni International Skill Tech University

SGR Foundation, At Post Kedgaon, Taluka Daund, Dist. Pune - 412203 (MH)

### Amravati

#### G H Raisoni University, Amravati

G H Raisoni Nagar, Anjangaon Bari Road, Amravati - 444701 (MH)

### Saikheda

#### G H Raisoni University, Saikheda

G H Raisoni Nagar, Dhoda Borgaon, Saikheda, Tehsil Sausar, Dist. Pandhurna - 480337 (MP)

## HIGHLIGHTS

- Flagship Institute of Raisoni Education Ranked 67<sup>th</sup> in NIRF
- Industry-oriented Skill Development for Students
- 100+ Recruiters for the 2024-25 Placement Session
- Successfully Conducted 5 Major Job Fairs (2024-25)
- Campus Recruitment Training and Pre-assessment Exams to Enhance Employability
- 80,000+ Alumni Network and 40,000+ Students

Where curiosity meets discovery at  
***Raisoni Education***

## Academic Excellence

- NAAC Accredited Institutions with A++, A+, and B+ Ratings
- UGC & AICTE Approved Programs
- Highly Qualified and Experienced Faculty
- Autonomous Universities Offering Cutting-Edge Curriculums



## Strong Industry Connections

- MoUs with Leading Companies for Internships & Student Development Programs
- Collaborations with TCS, Amazon, Accenture, ICICI Bank, BYJU'S, and More
- 100% Placement Assistance with High ROI on Education



## WHY RAISONI EDUCATION ?

### Infrastructure & Facilities

- Smart Classrooms, Hi-Tech Labs, and Research Centres
- Fully Equipped Libraries and E-learning Resources
- Wi-Fi-enabled Campuses with Hostel and Transport Facilities
- Dedicated Sports, Gym, Health & Wellness Centres

### Career Growth & Global Exposure

- International Skill Development & Exchange Programs
- Opportunities for Research, Innovation, and Patents
- Soft Skills and Personality Development Training
- Dedicated Career Guidance & Placement Cell

### Vibrant Campus Life

- Cultural and Technical Festivals
- Student Clubs, Entrepreneurship Cells and Hobby Clubs
- Leadership and Networking Opportunities

## INFRASTRUCTURE

### Central Book Library

GHRSTU Nagpur has a central and departmental library with:

- 8,746 titles and 28,850 volumes
- National and International Journals
- A Distance Engineering Program (C-DEEP) in collaboration with IIT
- Air-cooled seating with a capacity of over 200 students

### Campus Facilities

- Modern campus with state-of-the-art amenities
- Wi-Fi-enabled campus for seamless digital learning
- Lecture Recording and Capturing System for flexible learning
- Language Lab and Media Centre for communication skills development
- Solar Plant : Sustainable energy initiatives

### Laboratories

The department features three well-equipped labs:

- Engineering Physics Lab
- Waste Management and Environmental Science Lab
- Language Lab for communication skills

### Accommodation and Student Life

- Well-furnished hostels with hygienic living spaces
- Safety and security measures ensuring student well-being
- Saarthi Counselling Centre for mental health support
- Hobby and students clubs for extracurricular engagement

### Transportation

- Well-connected routes with designated stops at major city locations
- Timely service ensuring punctuality for students
- Regular maintenance and servicing to ensure vehicle safety
- Dedicated Transportation Office for student queries and support



# B.Sc.

## ELIGIBILITY

1. The candidate must be an Indian national.
2. The candidate must have completed 12th grade in Science with Physics, Chemistry, and either Biology or Mathematics as core subjects. (Mathematics is not compulsory for B.Sc. IT, B.Sc. Artificial Intelligence & Law Analytics and B.Sc. Cybersecurity.)
3. A minimum aggregate of 45% is required for open category candidates and 40% for reserved category candidates.



## SCOPE OF PROGRAM



### Computer Science (CS)

Careers in software development, AI, data science, and cloud computing.



### Information Technology (IT)

Opportunities in cybersecurity, networking, full-stack development, and DevOps.



### Data Science (DS)

Roles in big data analytics, machine learning, and business intelligence.



### Artificial Intelligence (AI)

Job opportunities in healthcare, finance, automation, and robotics.



### Cybersecurity

High-demand field with careers in ethical hacking, cyber forensics, and security analysis.



### Forensic Science

Jobs in law enforcement, forensic labs, and crime investigation.



### Digital Forensics

Careers in cybercrime investigation, digital evidence analysis, and cybersecurity consulting.



### Artificial Intelligence & Law Analytics

Opportunities in legal tech, AI-based legal research, predictive justice systems, and compliance analytics.



### Fire & Industrial Safety

Opportunities in industrial risk management, fire safety inspection, and occupational health & safety compliance.



### Food Nutrition & Dietetics

Careers in clinical nutrition, public health, food safety, wellness coaching, and diet planning.

## COURSE USPs



## SCHEME OF THE PROGRAM

### B.Sc. Computer Science (CS)

The undergraduate program consists of 166 credits, including:

- Major Core Courses (MCC)
- Minor Courses
- Open Electives (OE)
- Skill Enhancement Courses (SEC)
- Ability Enhancement Course (AEC)
- Indian Knowledge System (IKS)
- Research Project (RP)
- Co-curricular Courses (CC)
- Field Project (FP)
- Community Engagement Project (CEP)
- Value Education Courses (VEC)
- Vocational Skill Courses (VSC)
- On-the-job Training (OJT)

### B.Sc. Data Science (DS) and B.Sc. Artificial Intelligence (AI)

The undergraduate program consists of 168 credits, including:

- Discipline Specific Courses (DSC)
- Discipline Specific Courses (Major)
- Open Elective Courses (OE)
- Vocational Skill Courses (VSC)
- Skill Enhancement Courses (SEC)
- Ability Enhancement Courses (AEC)
- Value Education Courses (VEC)
- Indian Knowledge System (IKS)
- Discipline Specific Elective Courses (Major Electives)
- Discipline Specific Elective Courses (Minor Electives)
- Community Engagement Program (CEP)
- Field Projects (FP)
- Co-Curricular Courses (CC)
- On-the-job Training /Research Project (OJT/RP)

### B.Sc. Information Technology (IT) and B.Sc. AI & Law Analytics

The B.Sc. IT undergraduate program consists of 176 credits, including:

- Major Core Courses (CC)
- Minor Core Courses (Minor CC)
- Discipline Specific Electives (DSE)
- Generic Electives (GE)
- Ability Enhancement (AE)
- Value Added Courses (VAC)
- Skill Enhancement (SE)
- Vocational Enhancement (VE)
- Internship / Field Project / On-the-job Training / MOOC / Swayam (I/FP)

### B.Sc. Cybersecurity

This undergraduate program follows a credit-based system, including:

- Major Core Courses (MCC)
- Minor Courses
- Open Electives (OE)
- Skill Enhancement Courses (SEC)
- Ability Enhancement Course (AEC)
- Indian Knowledge System (IKS)
- Research Project (RP)
- Co-curricular Courses (CC)
- Field Project (FP)
- Community Engagement Project (CEP)
- Value Education Courses (VEC)
- Vocational Skill Courses (VSC)
- On-the-job Training (OJT)



### B.Sc. Forensic science

The undergraduate program includes a comprehensive mix of core courses, electives, and skill-based training.

- Major Core Courses (MCC)
- Open Electives (OE)
- Vocational Skill Course (VSC)
- Skill Enhancement Course (SEC)
- Ability Enhancement Course (AEC)
- Value Education Course (VEC)
- Indian Knowledge System (IKS)
- Co-Curricular Course (CC)

### B.Sc. Food Nutrition and Dietetics

This undergraduate program follows a credit-based system, including:

- Major Core Courses (CC)
- Minor Core Courses (Minor CC)
- Discipline Specific Elective (DSE)
- Generic Elective (GE)
- Ability Enhancement (AE)
- Value Added Course (VAC)
- Skill Enhancement (SE)
- Vocational Enhancement (VE)
- Internship/Field Project/On Job Training / MOOC / Swayam (I/FP)

## PROGRAM STRUCTURE WITH COURSE CREDITS

### Computer Science, Cybersecurity

Category	Credits (Sem 1)	Credits (Sem 2)
Major	4+2 = 6	6
Minor	2	2
Open Elective (OE)	2+2 = 4	4
Vocational Skill Course (VSC)	2	2
Skill Enhancement Course (SEC)	2	2
Ability Enhancement Course (AEC)	2	2
Value Education Course (VEC)	2	2
Co-curricular Course (CC)	2	2
<b>TOTAL</b>	<b>22</b>	<b>22</b>

### Information Technology, Data Science, Artificial Intelligence

For Undergraduate Degree, Total Credits : 128

- Semester – I & II (Total Credits: 22, Marks: 600, Each Semester)
- Semester – III & IV (Total Credits: 22, Marks: 550, Each Semester)
- Semester – V & VI (Total Credits: 20, Marks: 500, Each Semester)

For UG Degree with Hons., Total Credits: 168

- Semester – VII & VIII (For UG Degree with Hons.) (Total Credits: 20, Marks: 500, Each Semester)

## Key Subjects Across Semesters

### Computer Science

Semester I	
<ul style="list-style-type: none"> <li>• Introduction to Computers &amp; Problem Solving</li> <li>• Basic Data Structure with C Programming</li> <li>• Discrete Mathematics / Digital Electronics / Human Resource Management (Open Elective – Any Two)</li> <li>• Lab on R Programming / Advanced Web Technology / Computer Animation (Vocational Skill Course – Any One)</li> <li>• Environmental Science (Value Education Course)</li> </ul>	<ul style="list-style-type: none"> <li>• Leadership and Personality Development / Financial Literacy and Banking / Public Speaking (Skill Enhancement Course – Any One)</li> <li>• Compulsory English (Ability Enhancement Course)</li> <li>• Indian Science and Technology (Indian Knowledge System)</li> <li>• Sports Activities (Co-Curricular Course)</li> </ul>
Semester II	
<ul style="list-style-type: none"> <li>• Fundamentals of Cybersecurity</li> <li>• Python Programming</li> <li>• Computer Graphics / Web Technology / C# Programming (Minor Core – Any One)</li> </ul>	<ul style="list-style-type: none"> <li>• Digital Marketing / Cloud Computing / Data Mining (Open Elective – Any Two)</li> <li>• Lab on PHP Programming (Vocational Skill Course – Any One)</li> </ul>

### Information Technology

Semester I	
<ul style="list-style-type: none"> <li>• Programming using C</li> <li>• Programming using C – Lab</li> <li>• Fundamentals of Computer and Operating System</li> <li>• Mathematics I</li> </ul>	<ul style="list-style-type: none"> <li>• Fundamentals of Computer and Operating System Lab (Linux Programming)</li> <li>• Professional Communication Skills</li> <li>• Basics of Nutrition</li> <li>• Women Studies</li> </ul>
Semester II	
<ul style="list-style-type: none"> <li>• Object-Oriented Programming using C++</li> <li>• Object-Oriented Programming using C++ Lab</li> <li>• Database Management System</li> <li>• Database Management System Lab</li> </ul>	<ul style="list-style-type: none"> <li>• Mathematics II</li> <li>• Digital Marketing</li> <li>• Computer Organisation &amp; Architecture</li> <li>• Environmental Science &amp; RTI</li> </ul>

### Data Science

Semester I	
<ul style="list-style-type: none"> <li>• Object-oriented Programming in C++</li> <li>• Advanced Excel</li> <li>• Fundamentals of Information Technology</li> <li>• Principles of Business Management or Introduction to Psychology</li> </ul>	<ul style="list-style-type: none"> <li>• Linear Algebra or Statistical Methods</li> <li>• Office Automation</li> <li>• English I</li> <li>• Vedic Maths or NPTEL</li> <li>• Yoga &amp; Meditation</li> </ul>

### Artificial Intelligence

Semester I	
<ul style="list-style-type: none"> <li>• Object-Oriented Programming in C++</li> <li>• Fundamentals of Computer</li> <li>• Advanced Excel</li> <li>• Principles of Business Management or Introduction to Psychology</li> </ul>	<ul style="list-style-type: none"> <li>• Linear Algebra or Statistical Methods</li> <li>• Office Automation</li> <li>• English I</li> <li>• Vedic Maths or NPTEL</li> <li>• Yoga &amp; Meditation</li> </ul>
Semester II	
<ul style="list-style-type: none"> <li>• Data Structure</li> <li>• Database Management System (DBMS) – Major 01</li> <li>• Digital Electronics &amp; Microprocessors (DE &amp; MP) – Major 02</li> <li>• Discrete Mathematics or Operational Research</li> </ul>	<ul style="list-style-type: none"> <li>• Organisational Behaviour or Principles of Marketing</li> <li>• Digital Marketing or Computerised Tally</li> <li>• English II</li> <li>• Environment and Sustainable Development</li> <li>• Physical Education</li> </ul>

### Cybersecurity

Semester I	
<ul style="list-style-type: none"> <li>• Introduction to Computers &amp; Problem Solving</li> <li>• Basic Data Structure with C Programming</li> <li>• Discrete Mathematics</li> <li>• Digital Electronics</li> <li>• Human Resource Management</li> <li>• Lab on R Programming Practical</li> </ul>	<ul style="list-style-type: none"> <li>• Lab on Advanced Web Technology Practical</li> <li>• Lab on Computer Animation</li> <li>• Leadership and Personality Development</li> <li>• Public Speaking</li> <li>• Financial Literacy and Banking</li> </ul>
Semester II	
<ul style="list-style-type: none"> <li>• Fundamentals of Cybersecurity</li> <li>• Python Programming</li> <li>• Computer Graphics</li> <li>• Web Technology-I</li> <li>• C# Programming</li> <li>• Digital Marketing</li> <li>• Cloud Computing</li> <li>• Data Mining</li> <li>• Lab on PHP Programming</li> </ul>	<ul style="list-style-type: none"> <li>• Lab on C#</li> <li>• Lab on Ruby</li> <li>• Modern Office Automation</li> <li>• Digital Marketing</li> <li>• Photo/Video Editing</li> <li>• Modern Indian Language</li> <li>• Indian Philosophy</li> <li>• Yoga Practices</li> </ul>

### Forensic Science

Semester I	
<ul style="list-style-type: none"> <li>• Criminology</li> <li>• Crime Scene Management</li> <li>• Criminology &amp; Crime Scene Management Lab</li> <li>• Basic Inorganic Chemistry</li> <li>• Basic Inorganic Chemistry Lab</li> </ul>	<ul style="list-style-type: none"> <li>• Biology-I</li> <li>• Physics-I</li> <li>• Physics Lab</li> <li>• Communication Skills</li> <li>• MOOC – Massive Open Online Courses</li> </ul>

## Forensic Science

Semester II	
<ul style="list-style-type: none"> <li>Basic Techniques for Crime Scene Management</li> <li>Introduction to Medical Jurisprudence</li> <li>Techniques for Crime Scene Management Lab</li> <li>Advanced Inorganic Chemistry</li> <li>Advanced Inorganic Chemistry Lab</li> </ul>	<ul style="list-style-type: none"> <li>Biology-II</li> <li>Physics-II</li> <li>Biology Lab</li> <li>Mathematical &amp; Logical Reasoning</li> <li>MOOC – Massive Open Online Courses</li> </ul>

## Digital Forensics

Semester I	
<ul style="list-style-type: none"> <li>Introduction to Computers and Problem Solving</li> <li>Python Programming</li> </ul>	<ul style="list-style-type: none"> <li>Basic Mathematical Techniques</li> <li>Basic Statistical Techniques for Computer Science</li> </ul>
Semester II	
<ul style="list-style-type: none"> <li>Fundamentals of Cyber Security</li> <li>Fundamentals of Digital Communication Systems</li> </ul>	<ul style="list-style-type: none"> <li>Computer Networks</li> <li>Programming in C</li> </ul>

## Artificial Intelligence & Law Analytics

Semester I	
<ul style="list-style-type: none"> <li>Introduction to Computer Science</li> <li>Programming in Python &amp; C</li> <li>Database Management Systems</li> <li>Data Structures &amp; Algorithms</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics for Computer Science</li> <li>Communication and Research Skills</li> <li>Legal Systems &amp; Constitutional Law (IKS)</li> <li>Cybercrime &amp; Digital Evidence</li> </ul>
Semester II	
<ul style="list-style-type: none"> <li>Operating Systems</li> <li>Object-Oriented Programming with Java</li> <li>Statistics &amp; Probability for Data Science</li> <li>Legal Ethics and Professional Responsibility</li> </ul>	<ul style="list-style-type: none"> <li>Artificial Intelligence Fundamentals</li> <li>Computer Networks</li> <li>Research Methodology in Law &amp; Technology</li> <li>Environmental Studies</li> </ul>

## Fire and Industrial Safety

Semester I	
<ul style="list-style-type: none"> <li>Basic Safety Management</li> <li>Basic Fire Science</li> <li>Fundamental Fire Prevention and Protection</li> <li>Basic Fire Organisation &amp; Administration</li> </ul>	<ul style="list-style-type: none"> <li>Basic Communication Skill – Lab</li> <li>Fire Fighting Drill – Lab I</li> <li>Fundamental Fire Service Equipment Lab</li> <li>MOOCs – Lab</li> </ul>

## Fire and Industrial Safety

Semester II	
<ul style="list-style-type: none"> <li>Advanced Safety Management</li> <li>Fire Science</li> <li>Fire Prevention and Protection</li> <li>Fire Organisation and Administration</li> <li>Ethics &amp; Professional Competency – Lab</li> </ul>	<ul style="list-style-type: none"> <li>Basics of Entrepreneurship Development (Open Elective) – Lab</li> <li>Fire Fighting Drill – II Lab</li> <li>Fire Service Equipment Lab</li> <li>MOOCs – Lab</li> </ul>

## Food Nutrition & Dietetics

Semester I	
<ul style="list-style-type: none"> <li>Fundamentals of Nutrition</li> <li>Principles of Food Science</li> <li>Human Anatomy and Physiology</li> <li>Indian Knowledge System (IKS)</li> </ul>	<ul style="list-style-type: none"> <li>Nutritional Biochemistry</li> <li>Community Nutrition</li> <li>Digital Marketing for Nutritionists</li> <li>Content Creation for Social Media</li> </ul>
Semester II	
<ul style="list-style-type: none"> <li>Macro nutrients in Health and Disease</li> <li>Therapeutic Nutrition I</li> <li>Food Microbiology, Hygiene, and Sanitation</li> <li>Nutrition Across the Life Cycle</li> </ul>	<ul style="list-style-type: none"> <li>Food Safety and Quality Control</li> <li>International Cuisine</li> <li>Communication Skills &amp; Health Education</li> <li>Practical: Bakery Sciences &amp; Diet Planning</li> </ul>

## JOB-ORIENTED CERTIFICATIONS

<p><b>Computer Science (CS)</b></p> <p>  Web Development   Data Structures &amp; Algorithms   Python Programming   Cloud Computing   Software Testing</p>	<p><b>Information Technology (IT)</b></p> <p>  Full Stack Development   Database Management   Networking &amp; Cybersecurity   Mobile App Development   UI/UX Design</p>	<p><b>Data Science (DS)</b></p> <p>  Data Analytics   Python for Data Science   SQL &amp; Database Management   Machine Learning Basics   Excel &amp; Power BI</p>
<p><b>Artificial Intelligence (AI)</b></p> <p>  Python for AI   Introduction to Machine Learning   Neural Networks &amp; Deep Learning   Natural Language Processing Basics   AI for Business</p>	<p><b>Cybersecurity</b></p> <p>  Ethical Hacking (Beginner)   Network Security   Cyber Law &amp; Digital Forensics   Cryptography Basics   Penetration Testing</p>	<p><b>Forensic Science</b></p> <p>  Crime Scene Investigation   Digital &amp; Cyber Forensics   Forensic Chemistry &amp; Biology   Handwriting &amp; Document Analysis   Forensic Toxicology</p>
<p><b>Digital Forensics</b></p> <p>  Cybercrime Investigation   Digital Evidence Analysis   Network Forensics   Mobile Forensics   Malware Analysis</p>	<p><b>Artificial Intelligence and Law Analytics</b></p> <p>  Legal Analytics   AI &amp; Machine Learning for Law   Predictive Legal Systems   Legal Data Mining   Ethics &amp; AI Regulations</p>	<p><b>Fire &amp; Industrial Safety</b></p> <p>  Industrial Safety Management   Fire Prevention &amp; Control   Occupational Health &amp; Safety   Disaster Risk Reduction   Environmental Safety</p>

## WORKSHOPS AND LABS

### Workshops

- Workshop on Lie Detector Test - Polygraph
- Workshop on Digital Forensics
- Workshop on Crime Scene Investigation
- Workshop on Development & Examination of Fingerprints

### Laboratory Facilities

- Forensic Chemistry and Toxicology Lab
- Forensic Biology and Forensic Serology Lab
- Instrumental Chemical Analysis Lab
- Crime Scene Management Lab
- Basic and Applied Research Lab

## INTERNSHIP COMPANIES

Mindenious	Digital Fashion Park	Nass Technology	Vividnex
CoderFuel	Anishree Technologies	Primine Software	CODTECH IT Solutions
Global Education	LawSikho Addictive Learning Technology	Nagpur Mahanagar Palika (NMC)	EcoAccord
Embedded Creations	The Space Element	Tars Technologies	and many more..

# INDUSTRY CONNECT

GHRSTU maintains strong industry collaborations to provide students with internships, hands-on training, & career opportunities with leading organisations.

### Live Projects and Industry Collaborations:

- 1. National Environmental Engineering Research Institute (NEERI)**
  - Students measured noise pollution in their area using the Noise Tracker App developed by NEERI.
- 2. Website/App Development Projects**
  - Live projects with Coder Fuel Pvt Ltd
  - Live projects with Anishree Technologies Ltd
  - Website development for clients along with Embedded Creations
- 3. Project Management & Automation**
  - Public Works Department (PWD) – Project Management with Embedded Creations
  - Smart Automation Hoarding Management – Embedded Creations
- 4. Attendance & Finance Systems**
  - Anganwadi Attendance System – Embedded Creation
  - Personal Finance Management System – Infosys Springboard Internship 5.0

### Forensic Science Industry Collaborations:

- RFSL – Regional Forensic Science Laboratory
- CFSL – Central Forensic Science Laboratory
- Crypto Forensic Technology
- CodeFSolution, Nagpur

## INDUSTRY CONNECT

GHRSTU maintains strong industry collaborations to provide students with internships, hands-on training, and career opportunities with leading organisations.



# BCA



## ELIGIBILITY

1. The candidate must be an Indian national.
2. The candidate must have completed 10+2 (or equivalent) in the science or commerce stream from a recognised board.
3. The candidate must have a minimum aggregate of 50% marks (45% for the reserved category) in 12<sup>th</sup> grade.

## SCOPE



### High Demand

BCA graduates are sought after in software development, AI, data science, and cybersecurity.



### Diverse Sector

Opportunities in IT, healthcare, finance, e-commerce, and more.



### Entrepreneurship and Freelancing

Build tech businesses, develop apps, or work as freelance developers.



### Higher Studies & Certifications

Options to pursue MCA, MBA, or certifications in cloud computing, blockchain, and AI.



### Global Opportunities

International job prospects, remote work, and collaborations with global tech firms.

## COURSE USP's

GHRSTU Nagpur integrates industry-grade tools, platforms, and competitions into the learning journey.

<b>Codethon</b>	<b>TechnoQuest</b>	<b>TechCrunch</b>	<b>Ideathon</b>
Competitive Coding Event to Test Programming Skills.	Quizzes, Coding, and Debugging Contests.	Focus on Latest Tech Trends & Developments.	Platform for Innovative Ideas and Solutions.
<b>Workshop on Linux</b>	<b>BGMI Tournament &amp; Box Cricket</b>	<b>Raisoni League</b>	<b>XAMPP Server</b>
Hands-on Training on Linux Systems.	Engaging Extracurricular Activities.	Intercollegiate Cricket Showdown Fostering Teamwork.	Web Development and Database Management.
<b>Oracle Database</b>	<b>Visual Studio Code</b>	<b>Eclipse &amp; NetBeans</b>	<b>Python (Anaconda, PyCharm)</b>
SQL and Database Programming.	Coding & Debugging IDE.	Java Development Tools.	For Data Science and Machine Learning.
<b>Turbo C++ &amp; Dev-C++</b>	<b>Linux (Ubuntu, Kali Linux)</b>	<b>VMware &amp; VirtualBox</b>	<b>Android Studio</b>
For C and C++ Programming.	For System Administration and Cybersecurity.	Virtualisation and Networking Tools.	Mobile App Development Platform.

## SCHEME OF THE PROGRAM

Bachelor of Computer Applications (BCA) is a six-semester/eight-semester undergraduate program with 160/168 credits, covering:

### Core Academic Courses

- Discipline Specific Courses (DSC & Major Electives)
- Discipline Specific Elective Courses (Minor Elective)
- Open Elective Courses (OE)
- Skill Enhancement Courses (SEC)
- Ability Enhancement Courses (AEC)
- Value Education Courses (VEC)
- Indian Knowledge System (IKS)

### Practical and Industry Exposure

- Vocational Skill Courses (VSC)
- Community Engagement Program (CEP)
- Field Projects (FP)
- Co-Curricular Courses (CC)
- On-the-job Training / Research Project (OJT/RP)

## PROGRAM STRUCTURE WITH COURSE CREDIT

Semester I & II: 22 Credits, 600 Marks

Semester III & IV: 22 Credits, 550 Marks

Semester V & VI: 20 Credits, 500 Marks

Semester VII & VIII (For UG Degree with Hons.): 20 Credits, 500 Marks

## KEY SUBJECTS ACROSS SEMESTERS

### Semester 1

Subjects
Fundamentals of Information Technology
Programming Principles & Algorithms (C Programming)
Business Communication
Mathematics – I (Discrete Math/Algebra)

### Semester 2

Subjects
Data Structures (using C/C++)
Object-oriented Programming (OOP)- C++
Database Management Systems (DBMS)
Mathematics – II (Probability & Statistics)

### Semester 3

Subjects
Java Programming
Operating Systems
Software Engineering
Web Designing (HTML, CSS, JS basics)

### Semester 4

Subjects
Python Programming
Computer Networks
Data Analysis using Excel/Python
E-Commerce & Digital Marketing

## JOB-ORIENTED CERTIFICATIONS

- AWS Certified Cloud Practitioner – Cloud computing fundamentals
- Microsoft Certified: Azure Fundamentals – Microsoft Azure cloud basics
- Google Data Analytics Professional Certificate – Data analytics with Python & SQL
- IBM Data Science Professional Certificate – Foundations of data science
- Certified Ethical Hacker (CEH) – Cybersecurity & penetration testing
- Cisco Certified Network Associate (CCNA) – Networking fundamentals
- Oracle Certified Associate (OCA) – Java Programmer – Core Java development
- Google Associate Android Developer – Mobile app development
- Full Stack Web Development Certification (MERN/MEAN Stack) – Web development
- TensorFlow Developer Certificate – AI & machine learning



## INDUSTRY CONNECT AND INTERNSHIP COMPANIES (BCA)

Hitachi Consulting	Infosys
Capgemini	Wipro
TCS	Deloitte
Tech Mahindra	Persistent
IBM	HCL
Bosch	Cognizant
LTI	JSW
Zensar	Wipro
TCS	IBM
Deloitte	Amazon
Mindeniou	CoderFuel
Digital Fashion Park	Nass Technology
Vividnex	Global Education
Embedded Creations	Anishree Technologies
The Space Element	Primine Software
EcoAccord	Tars Technologies
CODTECH IT Solutions	and many more..

## OUR PLACEMENTS (RAISONI EDUCATION)



Mr Mayur Patil



Package offered

**45.00 LPA**

Mr Chris Louis Lopes



Package offered

**22.00 LPA**

Mr Rudraksh Karpe



Package offered

**18.00 LPA**

Mr Mohit Sali



Package offered

**17.50 LPA**

<b>24.00 LPA</b> JTP Limited System Engineer (BCA)	<b>12.00 LPA</b> rtCamp Software Engineer (Trainee) (BCA)	<b>9.00 LPA</b> RFSL, Mumbai B.Sc. Forensic Science	<b>8.04 LPA</b> USDC Projects India Digital Business Expert (BCA)
<b>8.00 LPA</b> Apexon Management Trainee (B.Sc.)	<b>7.50 LPA</b> Hexaview Technologies Data Engineer (MTS) (BCA)	<b>7.30 LPA</b> Code Young (B.Sc.)	<b>7.25 LPA</b> Intellipaat (B.Sc. - CS, DS, AI, IT, Cyber Security)
<b>7.00 LPA</b> Nagarro (B.Sc.)	<b>7.00 LPA</b> Hireme Software Developer (BCA)	<b>6.30 LPA</b> Cognizant (B.Sc.)	<b>6.25 LPA</b> WebMD Trainee Software Engineer (BCA)
<b>6.00 LPA</b> Aethereus Consulting Salesforce Technology (Internship + Placement) (BCA)	<b>6.00 LPA</b> NOVO Private Limited (B.Sc. Forensic Science )	<b>6.00 LPA</b> Sergeant, Indian Army (B.Sc. Forensic Science )	And many more...

## TOP RECRUITERS (RAISONI EDUCATION)



**2000+**

Students Placed  
(2024-25)

**200+**

Companies Visited  
for Recruitment

**45 LPA**



Highest Package  
Offered

**4.5 LPA**

Average Package  
Offered



## SUCCESSFUL ALUMNI (RAISONI EDUCATION)

 <b>Nidhi Bhasharkar</b> BSC	 <b>Shalakra Gambhir</b> BSC	 <b>Jasbir Kaur Virdi</b> BSC	 <b>Nidhi Channe</b> BSC
 <b>Ankit Singh</b> BCA	 <b>Dipanshu Rewatkar</b> BCA	 <b>Josimuddin Sheikh</b> BCA	 <b>Gaurav Zade</b> BCA
 <b>Khushi Gaware</b> BCA	 <b>Laxmit Kaur Channa</b> BCA	 <b>Sujata Singh</b> BCA	and many more..

## AUTONOMOUS VS RTMNU DIFFERENCE

Feature	RTMNU (Rashtrasant Tukadoji Maharaj Nagpur University)	Autonomous University
<b>Curriculum Control</b>	Limited flexibility in changing curriculum due to external regulations.	Greater control over curriculum and academic programs, allowing flexibility.
<b>Administrative Freedom</b>	Subject to external administrative regulations and oversight.	More autonomy in hiring, budgeting, and infrastructure development.
<b>Research Opportunities</b>	Fewer resources and opportunities for research.	Better access to research funding and industry collaborations, leading to increased research output.
<b>Quality Control</b>	Quality control may be influenced by external authorities.	Implements rigorous quality control mechanisms to maintain high academic standards.
<b>Decision-making</b>	Slower decision-making due to external bureaucracy.	Faster decision-making as decisions are made independently.
<b>Industry Collaboration</b>	Limited ability to independently engage with industry.	Establishes strong industry partnerships for internships and job placements.
<b>International Recognition</b>	Limited international recognition.	Can gain global recognition if high academic standards are maintained.
<b>Accreditation and Standards</b>	Governed by external accreditation bodies.	Sets its own quality assurance and accreditation standards.

## BENEFITS OF AN AUTONOMOUS UNIVERSITY

- Self-Governance and Internal Evaluation – Universities set their own rules and conduct internal assessments.
- Updated Syllabus – Curriculum is regularly revised to stay relevant to industry trends.
- Industry-Aligned Curriculum – New topics are incorporated as per market demand.
- In-house Examinations – Exams are conducted internally, ensuring flexibility and efficiency.
- Innovation and Research Focus – Encourages new technologies and research-driven learning.
- High-Standard MoUs – Collaborations with top industries and institutions.
- Emphasis on Quality Education – Prioritises academic excellence and skill development.
- Higher Placement Rates – Stronger placement drives compared to RTMNU.
- Government and Research Funding – Receives funding from AICTE, UGC, and NBA for student research projects.
- Fast Re-Examinations – Allows students to retake exams without long delays.
- Global Recognition – Increased opportunities for international collaborations and recognition.
- Strong Industry Partnerships – Provides internships and job placements through industry tie-ups.

## TESTIMONIALS

Raisoni Education has provided me with an exceptional learning experience in forensic science. The well-equipped labs, expert faculty, and hands-on training through internships have given me real-world exposure. The university's focus on research and industry collaborations has prepared me for a successful career in forensic investigation.

- Mr Tejal Desai (B.Sc.)

The B.Sc. Forensic Science program at GHRSTU, Nagpur stands out for its practical approach. From crime scene simulations to forensic lab training, every aspect of learning is hands-on. The faculty is highly supportive, and the guest lectures by the industry experts have helped me gain deep insights into forensic applications.

- Mr Avijeet Singh Mann (B.Sc.)

The emphasis on research at GHRSTU, Nagpur helped me publish my first paper in a Scopus-indexed journal while still pursuing my undergraduate degree. The faculty's support and the university's collaborations with forensic institutions gave me exposure to advanced forensic techniques. Today, I am pursuing my master's in Forensic Science, working on cutting-edge research in crime investigation.

- Ms Janhavi Gawande (B.Sc.)

My journey at GHRSTU, Nagpur was filled with practical learning and exciting challenges. The extensive lab training and industry visits helped me specialise in forensic toxicology. After graduation, I worked as a toxicology expert, analysing evidence for crime investigations. The university's commitment to hands-on education and skill development has been the key to my success.

- Mr Sharayu Ambagade (B.Sc.)

One of the best things about studying Forensic Science at GHRSTU, Nagpur is the strong industry collaborations. The university provides opportunities for paid internships, research projects, and placements with top forensic labs and companies. This program has truly shaped my career in forensic investigations.

- Ms Dhanashree Jogekar  
(B.Sc.)

Raisoni Education provided me with the perfect foundation to build my career in forensic science. The hands-on training, expert mentorship, and state-of-the-art laboratories helped me develop critical investigative skills. After completing my degree, I secured a position as a forensic analyst, where I now assist in solving real-world cases. I am grateful for the guidance and opportunities that Raisoni Education has provided me.

- Mr Mohammad Kaif Siraj Pathan  
(B.Sc.)

My journey at Raisoni Education has been amazing, shaping me into an all-rounder. From being the 2nd topper to excelling in dance competitions, the institute provided a platform for holistic growth. The Toastmasters Club played a crucial role in boosting my confidence, and I owe my success to Raisoni Education's, incredible opportunities.

- Mr Mehul Siddhapara  
(BCA)

"A place that made me a better version of myself." This is how I will always describe the haven of knowledge, academics, and growth that is Raisoni Education. It provided me with the perfect platform where academics were well-balanced with co-curricular activities. It helped me grow, explore myself, and step out of my comfort zone. Events like the Raisoni Premier League, Indradhanu, Toastmasters, Charter Chariot, Adventure Camps, and Excursions played a crucial role in shaping my personality. As they say, "Once you become a part of it, it becomes a part of you, forever!"

- Ms Sneha Lonkar (BCA)

### Shortlisting:

After the application deadline, the names of shortlisted candidates are displayed on the university website or notice board, and candidates are also notified directly via the contact details provided in the application.

#### Step I



#### Step II



#### Provisional Admission

Provisional admission is given to candidates awaiting results based on marksheets from their previous years. Once the deadline of the application is over, the candidate has to submit the final mark sheet, to confirm their eligibility. Once the provisional admission is granted, a candidate is given a month to put in the mark sheet for the qualifying examination. If this is not done, the provisional admission shall be cancelled. Provisional admission shall be cancelled if the candidate does not satisfy the eligibility criteria or the minimum prescribed marks.

#### Step III



#### RUCET Admissions

The Rasoni University Common Entrance Test (RUCET) is a single entrance exam through which you can secure admission across our four universities:

- G H Rasoni University, Saikheda
- G H Rasoni University, Amravati
- G H Rasoni International Skill Tech University, Pune
- G H Rasoni Skill Tech University, Nagpur

#### Reasons for Application Rejection

The following reasons may result in the rejection of the application:

- The candidate fails to meet the eligibility criteria.
- The required fee has not been paid.
- The application form does not have the candidate's or parent/guardian's signature (where applicable).
- The candidate fails to submit supporting documents within the stipulated time.

#### Step IV



#### Step V

#### Final Admission & Enrolment:

Upon submission of all necessary documents and fees, the student is assigned an enrolment number by the university. However, admission is subject to these university rules at all times and the university's discretion.

Facing any problems filling out the admission form, feel free to connect with us on  
**+91 930 790 0681/82**

Original documents and FOUR sets of attested photocopies are required at the time of admission:

#### Documents Required:

| Completed Application Form | Entrance Exam Scorecard (MH CET, CAT, MAT, CMAT, XAT, GMAT, etc., if applicable) | Graduation Mark Sheets (all semesters) | Provisional Degree Certificate or Graduation Degree Certificate | Previous Year's Mark Sheets (for provisional admission, if awaiting results) | Passport-sized Photographs | Identity Proof (Aadhaar Card, Passport, Voter ID, etc.) | Caste Certificate | Caste Validity Certificate | Transfer Certificate (TC) or Migration Certificate If Applicable | Domicile Certificate | Income Certificate | Gap Certificate | Work Experience Certificate | Medical Fitness Certificate | Paperless Form Process

# Rasoni Education

## NAGPUR

- G H Rasoni College of Engineering
- G H Rasoni College of Engineering & Management
- G H Rasoni College of Business Management, Khaperkheda
- G H Rasoni College of Arts Commerce, and Science
- G H Rasoni College of Business Management, Madhav Nagari
- G H Rasoni College of Law
- G H Rasoni College of Life Sciences
- Sadabai Rasoni Women's College
- G H Rasoni Junior College
- G H Rasoni Public School (CBSE)
- G H Rasoni Public School & Jr. College (State)

## PUNE

- G H Rasoni College of Engineering & Management
- G H Rasoni College of Arts, Commerce & Science
- G H Rasoni Junior College (State)
- G H Rasoni Public School (CBSE)

## JALGAON

- G H Rasoni College of Engineering & Management
- G H Rasoni Junior College (State)
- G H Rasoni Public School (CBSE)

## BHANDARA

- G H Rasoni Public School



# Our Universities

## G H RAISONI UNIVERSITY, SAIKHEDA

- School of Engineering & Technology
- School of Commerce & Management
- School of Sciences
- School of Law
- School of Agricultural Sciences
- School of Pharmacy
- School of Nursing
- School of Paramedical Sciences
- School of Liberal Arts

## G H RAISONI UNIVERSITY, AMRAVATI

- School of Engineering & Technology
- School of Management Studies
- School of Hotel Management & Catering Technology
- School of Law
- School of Sciences
- School of Pharmacy
- School of Media Studies

## G H RAISONI INTERNATIONAL SKILL TECH UNIVERSITY, PUNE

- School of Engineering & Technology
- School of Management
- School of Sciences
- School of Skills and Development

## G H RAISONI SKILL TECH UNIVERSITY, NAGPUR

- School of Engineering & Technology
- School of Commerce & Management
- School of Sciences
- School of Hotel Management & Catering Technology