DEPARTMENT OF
COMPUTER
APPLICATION

UNDERGRADUATE COURSES OFFERED:

Bachelor of Computer Application (BCA)

BCA Industry Integrated

BCA (Hons.) with Artificial Intelligence & Data Science

Bachelor of Science – IT (B.Sc. IT)

B.Sc. IT Industry Integrated

Bachelor of Science – CS (B.SC. CS)

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Bell Road, Clement Town, Dehradun, Uttarakhand, India –248002

BROCHURE

601 – 800
Ranked amongst Top Universities of the World

10th Rank amongst Top Universities of India
1st Rank amongst all Universities of Uttarakhand

Source: Times Higher Education World University Ranking 2023

Ranked amongst **TOP 55** Universities of India

#62 ENGINEERING CATEGORY
#65 MANAGEMENT CATEGORY

Source: NIRF 2023 Ranking
Ministry of Education, Govt. of India

UGC & AICTE
Programs Accredited by University Grants Commission **(UGC)** and All India Council for Technical Education **(AICTE)**

NAAC A+
Grade Accredited

Source: National Assessment and Accreditation Council **(NAAC)**

QS-i-GAUGE
Platinum Subject Rating in Engineering & Diamond Rating in overall University Category

#189
QS Asia University Rankings 2023

Source: QS-i-GAUGE & QS Asia Rankings

07 NBA Accredited Courses

The only University in the region to have B.Tech - CSE, ECE, ME, EE, CE, Biotechnology and MBA

Source: National Board of Accreditation **(NBA)**

Band 'Excellent'
under the category "University & Deemed to be University (Private/Self Finaced) (Technical)

Source: Atal Ranking of Institutions on Innovation Achievements **(ARIIA- 2022)**, MHRD'S Innovation Cell, AICTE, Govt. of India

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About the University

Graphic Era (Deemed to be University) is the culmination of the hard work of its visionary founder, Prof. (Dr.) Kamal Ghanshala, who had the dream to change the destiny of thousands of youths through quality and holistic education. In 1993, he embarked on the mission to transform the higher education landscape of the Doon Valley with twenty-nine thousand rupees in his pocket and loads of determination in his heart.

His vision gained concrete shape in 1996 in the form of the Graphic Era Institute of Technology (GEIT). In 2008, it was accorded the status of Deemed University under Section 3 of theUGCAct, 1956 vide Notification F.9-48/2007-U.3 (A) dated 14 August 2008 and approved by the Ministry of Human Resource Development, Government of India.

Today, Graphic Era (Deemed to be University) stands tall with a NAAC 'A+' grade, 7 NBA accredited programs, and a position amongst the top 100 universities of India for four years in a row. In MHRD's National Institutional Ranking Framework (NIRF) 2023, Graphic Era (Deemed to be University) secured All-India Rank 55 in the University Category, All-India Rank 62 in the Engineering Category, All-India Rank 65 in the Management Category, and All-India Rank 89 in the Overall Category.

The premier university regards industry-academia partnership as an integral part of teaching methodology & curriculum and has taken a big initiative in engineering programs by getting into partnerships with Tata Technologies and IBM. Moreover, it hosts Technology Business Incubator that funds, mentors and nurtures ideas, start-ups, and technology-based entrepreneurship.

Graphic Era (Deemed to be University) has acquired transnational dimensions through student exchange and knowledge-sharing programs with many foreign universities and has been acclaimed and honored at international forums for its brilliance in upholding the highest standards of education. The alumni of Graphic Era are making their mark worldwide in marquee brands like Apple, Google, Microsoft, and HSBC, to name a few, and in the service of the nation in all wings of the Armed forces.

Embrace the
New Age

Unleash the power of the present and set your sights on a future brimming with opportunities! The Department of Computer Application at Graphic Era University offers an array of dynamic programs designed to meet the demands of today's digital landscape and propel you towards a thriving career.

In this technology-driven era, where innovation reigns supreme, our programs provide a solid foundation in Computer Applications, empowering you to stay ahead of the curve. From BCA Industry Integrated to B.Sc. CS (Hons.), B.Sc. IT Integrated, and BCA with AI and DS, our diverse offerings cater to the ever-evolving market needs.

Technology is not a mere trend; it's the driving force behind progress in virtually every industry. By enrolling in our future-oriented programs, you will gain the skills and knowledge to embrace the digital age and make a lasting impact. Whether you're fascinated by Artificial Intelligence, Data Science, or the broader realm of Computer Applications, we have a program tailored to your passions and ambitions.

Our visionary faculty, composed of industry experts and renowned academics, will guide you on your journey to success. They are committed to providing a dynamic learning environment that combines theoretical concepts with practical applications, ensuring you acquire the hands-on skills needed in today's job market.

Embracing our programs means embracing endless possibilities. Gain a competitive edge and position yourself as a sought-after professional in a world where technology reigns supreme. Step into a future brimming with innovation, where you can shape industries, revolutionize businesses, and make your mark.

The digital revolution is underway, and it's time for you to be part of it. Join the Department of Computer Application at Graphic Era University and embark on a thrilling adventure that will empower you to embrace the present, conquer the future, and achieve unparalleled success in the ever-evolving world of technology. **Don't just follow the trends — lead the way towards a brighter tomorrow!**

Fact: This image is an Artificial Intelligence Generated Image made using Midjourney.
Prompt: Metaverse and virtual reality network concept using VR headset on city background double exposure generative ai. You can generate your own AI photos at **https://www.midjourney.com**

Graphic Era
Advantage

Highly-Qualified Faculty

At Graphic Era's Department of Computer Applications, learn from a distinguished team of faculty members who are not only highly qualified but also dedicated to your success. Their expertise and industry experience ensure that you receive top-notch education and guidance to excel in your academic journey.

Crystal Clear Fundamentals

We believe in building a strong foundation. Our curriculum focuses on providing you with crystal clear fundamentals in computer applications. By mastering the core concepts and principles, you will develop a deep understanding of the subject matter, setting you up for future success.

Real-Life Applications

Theory is just the beginning. Our emphasis on project-based learning allows you to apply your knowledge and skills in real-world scenarios. Engage in hands-on projects and case studies that simulate industry challenges, preparing you to tackle practical problems with confidence.

Cutting-Edge Exposure

Technology is ever-evolving, and staying up-to-date is crucial. At Graphic Era (Deemed to be University), we ensure you are exposed to the latest advancements through conferences, seminars, and workshops. Stay ahead of the curve by learning about emerging technologies and industry trends that will shape the future.

Holistic Learning

We believe in nurturing well-rounded professionals. In addition to a comprehensive technical education, our curriculum includes inter-disciplinary courses that broaden your horizons. Enhance your skill set with management and soft skill courses, enabling you to effectively communicate, lead teams, and think strategically.

Department of Computer Applications

Welcome to the Department of Computer Application at Graphic Era (Deemed to be University), a place where innovation, creativity, and technology come together to shape the future of the digital world. We offer a range of programs designed to provide students with the skills and knowledge needed to excel in the field of computer applications. Our faculty members are renowned experts in their respective fields, and our state-of-the-art facilities provide a conducive learning environment.

Programs Offered:

The department offers a comprehensive range of programs, including **BCA, BCA-Industry Integrated, B.Sc. IT, B.Sc. IT Industry Integrated, B.Sc. CS, and BCA (Hons.) with AI & DS**, providing a pathway for students to become industry-ready.
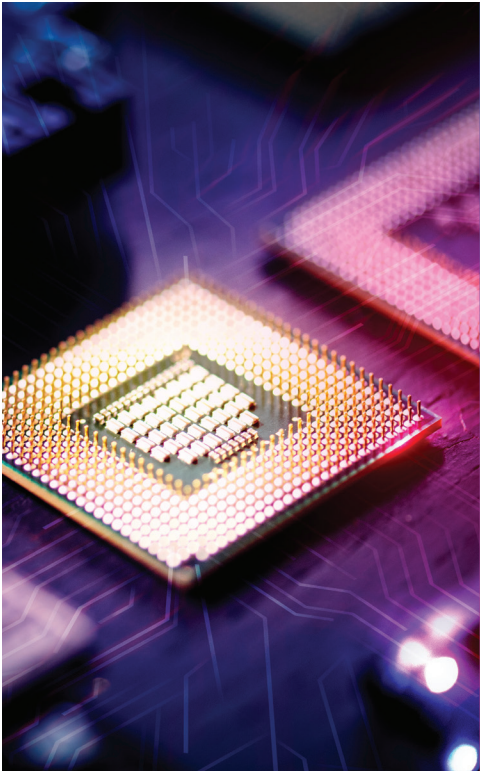
Bachelor of Computer Application (BCA)

Bachelor of Computer Application (BCA) is a three-year undergraduate program that enables students to delve into the rapidly growing field of computer application and information technology. Through an industry-centric curriculum and experiential learning-based teaching pedagogy, the program assists aspirants in acquiring strong conceptual and practical knowledge along with essential skills as demanded by the global IT industries.

The ultimate aim is to groom students into technically skilled, competent and industry-ready IT workforce who are proficient in areas such as computer programming languages, software development, database management, networking, web technology, multimedia design, operating systems, digital image processing, and more.

Career Opportunities: As more and more companies push for the integration of digital technologies, skilled IT professionals have become one of the most sought-after members of the global workforce in fields as diverse as healthcare, finance, education, trading, transportation, etc.

BCA graduates, thus, are in a good place with respect to job security. They can pursue a wide range of promising careers including Software Developers, Web Designers, System Analysts, Database Administrators, IT Consultants, and more.
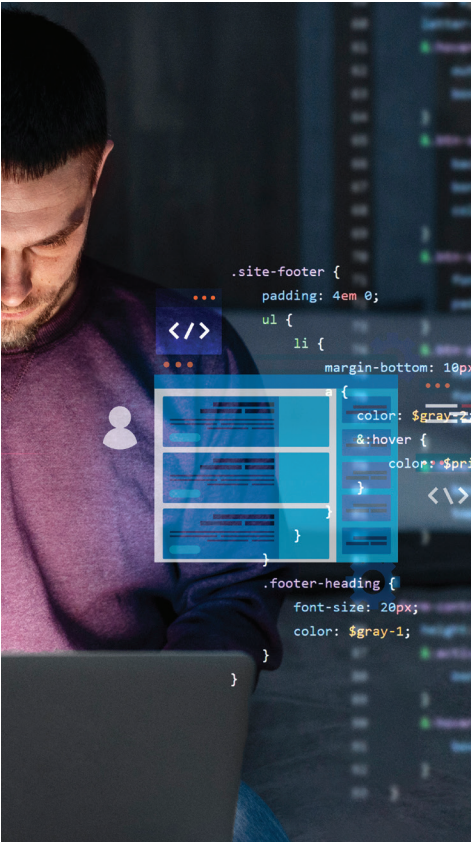
BCA
Industry Integrated

The BCA (Industry Integrated) program at Graphic Era (Deemed to be University) is a unique undergraduate program that combines academic learning with industry exposure. Over the course of three years, students are equipped with a strong foundation in computer applications and information technology while simultaneously gaining practical experience through industry internships and projects.

The program's curriculum is designed to align with the evolving needs of the IT industry. It covers a wide range of subjects such as computer programming, software development, database management, networking, web technology, multimedia design, operating systems, and more. By integrating theoretical knowledge with real-world applications, the BCA (Industry Integrated) program ensures that students develop the skills and expertise required to excel in their future careers.

Career Opportunities: BCA (Industry Integrated) graduates possess a unique advantage in the job market. Their combination of academic knowledge and industry experience makes them highly desirable to employers. They have opportunities to pursue rewarding careers as Software Developers, Web Designers, System Analysts, Database Administrators, IT Consultants, and more.

The industry exposure gained during internships and projects provides students with practical insights and hands-on experience, giving them a competitive edge in the job market. BCA (Industry Integrated) graduates are well-prepared to tackle the challenges of the IT industry and contribute effectively to the development and implementation of innovative solutions.

B.Sc. CS (Hons.)
Computer Science

The Bachelor of Science in Computer Science (Hons.) program at Graphic Era (Deemed to be University) is a rigorous and comprehensive undergraduate program that focuses on building a strong foundation in computer science principles and practices. The four-year program is designed to provide students with a deep understanding of the theoretical and practical aspects of computer science.

Through a combination of core courses and specialized electives, students explore various areas of computer science, including algorithms, data structures, programming languages, artificial intelligence, machine learning, computer networks, and software engineering. The program emphasizes critical thinking, problem-solving, and analytical skills, preparing students to tackle complex challenges in the field of computer science.

Career Opportunities: B.Sc. CS (Hons.) graduates are highly sought-after in the job market due to their in-depth knowledge and skills in computer science. They have a wide range of career opportunities available to them, including Software Engineers, Data Scientists, Network Administrators, Systems Analysts, Cybersecurity Specialists, and more.

The program equips students with the necessary technical expertise and problem-solving abilities to thrive in the dynamic and ever-evolving field of computer science. With the increasing reliance on technology in various industries, B.Sc. CS (Hons.) graduates play a crucial role in driving innovation, developing advanced software solutions, and contributing to the digital transformation of organizations.

B.Sc. IT
Industry Integrated

The Bachelor of Science in Information Technology (IT) Industry Integrated program at Graphic Era (Deemed to be University) is a comprehensive undergraduate program that combines theoretical knowledge with practical skills in the field of information technology. The three-year program is designed to meet the industry's demand for IT professionals who can effectively utilize technology to solve complex problems.

Throughout the program, students gain a strong foundation in areas such as programming, database management, web development, software engineering, computer networks, and cybersecurity. They also have the opportunity to explore emerging technologies and trends, including cloud computing, big data analytics, and Internet of Things (IoT). The integration of theory and hands-on experience equips students with the skills and competencies required to excel in the IT industry.

Career Opportunities: B.Sc. IT Integrated graduates have excellent career prospects in the rapidly growing field of information technology. They can pursue diverse roles such as IT Consultants, Software Developers, Web Developers, Database Administrators, Network Administrators, and System Analysts.

With the increasing reliance on technology in various sectors, organizations are actively seeking skilled IT professionals who can contribute to their digital transformation. B.Sc. IT Integrated graduates are equipped with the knowledge and expertise to adapt to new technologies, analyze complex data, and design efficient IT systems. Their ability to bridge the gap between technology and business needs makes them valuable assets in industries such as finance, healthcare, e-commerce, telecommunications, and more.

BCA (Hons.)
AI & DS

The BCA (Hons.) program with specialization in Artificial Intelligence (AI) and Data Science (DS) offers students a unique opportunity to explore the fascinating fields of AI and DS within the broader framework of computer applications. The four-year program is designed to cater to the growing demand for professionals with expertise in AI and DS across industries.

The curriculum integrates core computer application subjects with specialized courses in AI and DS. Over the course of four years, students delve into topics such as machine learning, deep learning, data mining, statistical analysis, pattern recognition, and natural language processing. Through hands-on projects and practical assignments, students gain practical experience in implementing AI and DS techniques and working with large datasets.

Career Opportunities: Graduates of the BCA (Hons.) program with specialization in AI and DS are in high demand in today's technology-driven world. They have a plethora of exciting career opportunities available to them, including AI Engineer, Data Scientist, Machine Learning Engineer, Business Intelligence Analyst, and Data Analyst.

Industries such as healthcare, finance, marketing, e-commerce, and cybersecurity heavily rely on AI and DS to make data-driven decisions and gain a competitive edge. BCA (Hons.) graduates with specialization in AI and DS are equipped with the skills to develop AI models, analyze complex data, and extract meaningful insights. Their expertise in these cutting-edge technologies positions them at the forefront of innovation and opens doors to rewarding and intellectually stimulating career paths.

B.Sc. IT
Information Technology

The Bachelor of Science in Information Technology (B.Sc. IT) program at Graphic Era (Deemed to be University) is a three-year undergraduate program designed to provide students with a strong foundation in computer application and information technology. The program offers an industry-centric curriculum and emphasizes experiential learning, enabling students to acquire both conceptual knowledge and practical skills required by the global IT industries.

The B.Sc. IT program aims to groom students into technically skilled and competent IT professionals. Throughout the program, students gain proficiency in various areas including computer programming languages, software development, database management, networking, web technology, multimedia design, operating systems, and digital image processing. The curriculum is designed to blend theoretical concepts with hands-on practical training, ensuring that students are well-prepared to meet the challenges of the IT industry.

Career Opportunities: With the increasing integration of digital technologies in various sectors, B.Sc. IT graduates are highly sought-after by companies striving to stay ahead in the competitive market. The program equips students with the necessary skills in computer programming, web development, database management, and more, making them valuable assets to organizations seeking to leverage technology for efficiency, innovation, and growth.

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