



Computer Science Engineering - NorthCap University

UG PROGRAMMES	PG PROGRAMMES	RESEARCH PROGRAMMES
BCA - Animation and Gaming		
ABOUT THE COURSE	<u>ADMISSION DETAILS</u>	

About

A Bachelor of Computer Applications is a three-year undergraduate degree Program for candidates wishing to delve into the world of Computer languages. This field provides students ample opportunities to make their career not only in the private sector but also in the public sector. The curriculum includes significant flexibility so that students can deepen a more professionally focused degree with expertise in the areas of information technology. A mission is to develop competent professionals with analytical skills and independent thinking for a productive career in industry, academia, and administration.

BCA in Gaming and Animation is a specialized course at The North Cap University, and we're proud to be one of the top Computer Science Engineering Colleges in Delhi NCR designed as per the industry needs in consultation with industry experts to master basic game development. The course offers students to understand game design and apply the concepts for game development and coding. During the study, students will develop 2D Platformer games on the Unity 3D game engine which will add value to their professional portfolio along with the theoretical and conceptual exposure to the documentation. In animation, students will learn through exploration of the animation production pipeline (CG modeling, texturing, lighting, rigging, animation, and rendering) techniques and opportunities to enhance their employability and professional skills through project-based assessment.

Learning Outcomes

By the end of this course, student will be able to

- Understand animation, principles of animation, keyframing and their features.
- Develop game ready animation with cinematic character setup, rigging, basic lighting and rendering with 3D Studio MAX
- Create 2D & 3D games independently using tools like Unity 3D
- Build strong coding foundation in C#
- Describe the Production Workflow from 3Ds Max to Unity.

Highlights

- Student learning through gamification, creating and implementing gaming elements with programming abilities
- In-depth understanding of the complex Gaming and Animation landscape with the opportunity to publish and deploy your application on various hardware devices like – PC, iPhone, Android.
- Well Equipped GPU Labs for hands on learning system configuration to support high graphic simulation.
- Right blend of computer science, basic science, management and foreign language courses in the curriculum.

- Holistic development through colloquium, community service and general proficiency
- Hi-tech learning environment with well-equipped research laboratories to facilitate hands on experience
- Dedicated student mentoring for providing career and other guidance throughout the program duration along with sensitizing students through inculcation of moral and ethical values.
- Imparting innovative and creative thinking for life-long development
- Practical exposure with the help of projects and Internship opportunities.
- Industry orientation through curriculum development, teaching and live projects

Career options

- Animator
- Rigging Artist
- Game Artist 2D and 3D
- Game Designer
- Game Tester
- Game Programmer
- Project Manager

Programme Educational Objectives (PEOs)

1. To provide in-depth understanding of the fundamentals of computer science and create a strong foundation for a successful career in the field of computer science and in pursuit of higher studies or entrepreneurial ventures.
2. To impart values to the students and enable them to contribute effectively to the computing profession with ethics and a sense of social responsibility.
3. To equip our students in the emerging areas of technology and impart analytical skills for solving innovative real-life problems in computer science and related fields.
4. To develop qualities of effective communication, interpersonal skills and leadership to work effectively in a multi-disciplinary teamwork and contribute to the economic growth of the country.

Programme Outcomes (POs)

PO1 : Apply the knowledge of mathematical foundations, computer application theory and algorithm principles in the design and modelling of computer-based system

PO2 : Design and evaluate solutions for complex computing problems, systems, components, or processes that meet specified needs with community service focus

PO3 : Use Project based knowledge and methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions

PO4 : Create, select, adapt and apply appropriate techniques, resources and modern computing tools to complex computing activities with an understanding of the limitations

PO5 : Understand and commit to professional ethics and cyber regulations, responsibilities and norms of professional computing practice

PO6 : Recognize the need and have ability to engage in independent learning for continuous development as a computing professional

PO7 : Demonstrate knowledge, understand computing and management principles to apply one's own work as a member and leader in a team to manage projects in multidisciplinary environments

PO8 : Understand and assess societal & environmental safety, legal issues within local and global contexts and the consequent responsibilities relevant to professional computing practice

PO9 : Identify a timely opportunity to use innovation to pursue and create value and wealth for the betterment of the Society & Nation

Programme Specific Outcomes

PSO 1 Understand, analyse and gain application-oriented skills to develop computer programs in the areas related to algorithms, web design and networking for designing efficient computer-based systems

PSO 2 Facilitate the students to explore technical knowledge in emerging areas of computer applications like mobile and web application development, gaming and animation with strong emphasis on lifelong learning.

PSO 3 Sensitizing students about various issues, latest technology trends and enable them to innovate new ideas and solutions for societal benefits.

Scheme 2022-2023

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Scheme 2021-2022

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Be a part of an interesting journey, a journey that will take you to the heights.

Contact Us

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