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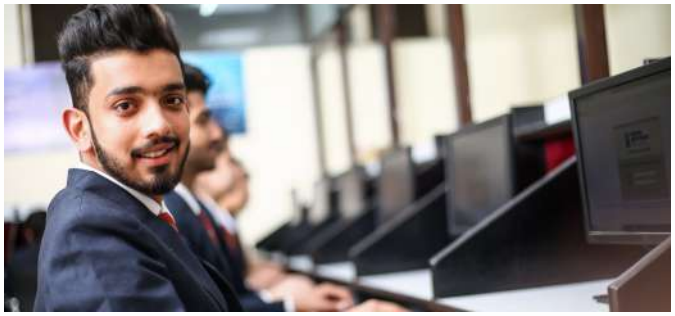
GROUP OF COLLEGES
Building Careers. Transforming Lives.









No matter how complex the digital world is

BE PREPARED TO EXCEL

Program Brief

Master of Computer Applications (MCA) is a two year professional post-graduate programme for candidates who want to satiate the theoretical and practical learning of trending programming languages in the world of computer application development.

Objectives

Substantially, the program aims to prepare the candidates in consonance with the standards of software industries, corporate sector, Government sector, and academia. An efficient training under the head of MCA intends to instill full-fledged knowledge of programming skills, computing, artificial Intelligence, database, networking etc into the students. Furthermore, the additional objectives of MCA degree are as follows:

- To furnish the skills which are pertinent to the IT sector?
- To accompany the students in building up confidence throughout the course of the degree.
- To inculcate the students with leadership and Entrepreneurial skills.
- To narrow down the gap between job providers and seekers.
- To strengthen the scholastic aptitude of the candidates along with the development of right moral and ethical understanding.

Outcomes of the Program

Computational Knowledge: Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.

Problem Analysis: Identify, formulate, research literature, and solve complex computing problem searching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.

Design /Development of Solutions: Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

Conduct investigations of complex Computing problems: User search-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

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

Professional Ethics: Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practices.

Life-long Learning: Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.

Project management and finance: Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team to manage projects and in multidisciplinary environments.

Communication Efficacy: Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.

Societal and Environmental Concern: Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practices.

Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.

Innovation and Entrepreneurship: Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.

Why MCA @ CGC

i) USP of MCA course

- Excellent ICT infrastructure
- Latest tools & technologies to develop project related applications
- Excellent Placements record of MCA students in the top notch companies.
- High-Tech Green Campus with High-Speed WIFI connectivity.
- IKG-PTU Merit Positions bagged by students
- Interactive Technology-Based Learning Methodology.
- International students exchange Program
- Developing students with high employability index

ii) MOU/Patents/Research/Collaboration points related to the Department

- Fostering Entrepreneurship with an Incubation center.
- Number of patents filed by faculty members from Computer Applications department.
- Several research papers published by faculties in Scopus/SCI/UGC care list journals
- Experienced PhD faculty from various research domains like Data Science, Artificial Intelligence, Network security, Soft Computing, and Software Engineering.

Career Opportunities

With the advent of the internet and the birth of information technology, the demand for 'computer savvy' personnel has grown to formidable heights and will continue to grow in the near future. Nowadays, the corporate world seeks hires and retains only those employees who come with excellent computer knowledge and skills, to enable them to stay abreast with the present as well as the forthcoming advancements. The MCA program is inclined more toward Application Development and thus has more emphasis on the latest programming language and tools to develop better and faster applications. Students are trained in the fields of Systems Designing, Application Software Development, Enterprise Resource Planning, Computer Networks, System Administration, Web Designing and Development, Database Administration, Data Mining and Warehousing, etc. In this world of Information technology, the scope of a Master graduate in Computer Applications is manifold. A student studying MCA can become:

1. Mobile App Developer
2. Web Designer and Developer
3. QA Engineer
4. Software Developer
5. System Analyst
6. Database Administrator
7. Network Administrator
8. Game Designer and Developer

Recruiters

NEWGEN · clicklabs · NIIT technologies · Directi
TATA CONSULTANCY SERVICES · TATA CONSULTANCY SERVICES · Zapbuild empowering thoughts · Cognizant
edifecs · fiserv. · Capgemini · HITACHI Inspire the Next
nagarro UNLEASHING POTENTIAL · Mindtree · Ingenuity gaming · infogain
Tech Mahindra · ZenSar TECHNOLOGIES

Eligibility

All those candidates who have passed any recognized bachelor's degree of minimum three years duration with Mathematics/Statistics/Business Mathematics/Business Statistics/Quantitative Techniques as compulsory/optional/additional paper as one of the subjects either at 10+2 or at graduation level or have passed BCA course of minimum three year duration from any recognized university.

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Landran, Kharar-Banur Highway, Sector 112,
Greater Mohali, Punjab 140307

+91 95921 04444, 95921 14444, 95921 24444
Admission Helpline: 0172 3984200, **Fax:** 0172 3984207

Toll Free: 1800 200 3575

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