



**TECNIA INSTITUTE OF ADVANCED STUDIES**

**GRADE "A" INSTITUTE**

Approved by AICTE, Ministry of HRD, Govt. of India, Affiliated to GGSIP University  
Recognized Under Sec. 2(f) of UGC Act 1956

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## Department of Information, Communication & Technology

Ref.No.: TIAS/DICT/MCA/2023-24/002

Dated: 11.07.2023

Programme: Master of Computer Applications

### Program Outcomes

Reference to Scheme of Examination & Details of Syllabus of Master of Computer Applications w.e.f. Academic Year 2020-21 onwards of Guru Gobind Singh Indraprastha University, the Department of Information, Communication & Technology of the Tecnia Institute of Advanced Studies' for it's Postgraduate program in Computer Application i.e. MCA has following program outcomes.

#### Programme Outcomes (POs):

It is envisioned that the graduates passing out MCA degree, will be able to possess following Graduate Attributes and demonstrate related competencies:-

<b>Master of Computer Applications</b>		
<b>PO #</b>	<b>GA Theme</b>	<b>Detailed Statement of the PO</b>
PO1	Computational Knowledge <b>(CK)</b>	Demonstrate competencies in fundamentals of computing, computing specialization, mathematics and domain knowledge suitable for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
PO2	Problem Analysis <b>(PA)</b>	Identify, formulate and analyze complex real-life problems in order to arrive at computationally viable conclusions using fundamentals of mathematics, computer sciences, management and relevant domain disciplines.
PO3	Design/ Development of Solutions <b>(DDS)</b>	Design efficient solutions for complex, real-world problems to design systems, components or processes that meet the specifications with suitable consideration to public health, safety, cultural, societal and environmental considerations

PO4	Conduct investigations of Complex Computing Problems ( <b>CICP</b> )	Ability to research, analyze and investigate complex computing problems through design of experiments, analysis and interpretation of data and synthesis of the information to arrive at valid conclusions.
PO5	Modern Tool Usage ( <b>MTU</b> )	Create, select, adapt and apply appropriate technologies and tools to a wide range of computational activities while understanding their limitations
PO6	Professional Ethics ( <b>PE</b> )	Ability to perform professional practices in an ethical way, keeping in the mind cyber regulations & laws, responsibilities and norms of professional computing practices.

PO7	Life-long Learning <b>(LLL)</b>	Ability to engage in independent learning for continuous self- development as a computing professional.
PO8	Project Management And Finance <b>(PMF)</b>	Ability to apply 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 in multidisciplinary environments.
PO9	Communication Efficacy <b>(CE)</b>	Ability to effectively communicate with the technical community and with the society at large about complex computing activities by being able to understand and write effective reports, design documentation, make effective presentations with the capability of giving and taking clear Instructions.
PO10	Societal and Environmental Concern <b>(SEC)</b>	Ability to recognize and assess societal, environmental, health, safety, legal and cultural issues within local and global contexts and the consequential responsibilities applicable to professional computing practices.
PO11	Individual and Team Work <b>(I&amp;T)</b>	Ability to work in multi-disciplinary team collaboration both as a member and leader, as per need.
PO12	Innovation and Entrepreneurship <b>(I&amp;E)</b>	Ability to apply innovation to track a suitable opportunity to create value and wealth for the betterment of the individual and society at large.

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