



## Hi-Tech Institute of Engineering and Technology

26th Km.Stone, Delhi-Hapur Bypass, NH9, Ghaziabad, Uttar Pradesh 201015

**2.6.1 Program Educational Objectives (PEOs):** Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

**Describe the expected achievements of graduates in their career, and what the graduates are expected to perform and achieve during the first few years after graduation.**

**Program Outcomes (POs):** It represents the knowledge, skills and attitudes the students should have at the end of a course completion of their respective program.

**Describes what skill, knowledge and attitude a student should have at the time of graduation from an engineering program.**

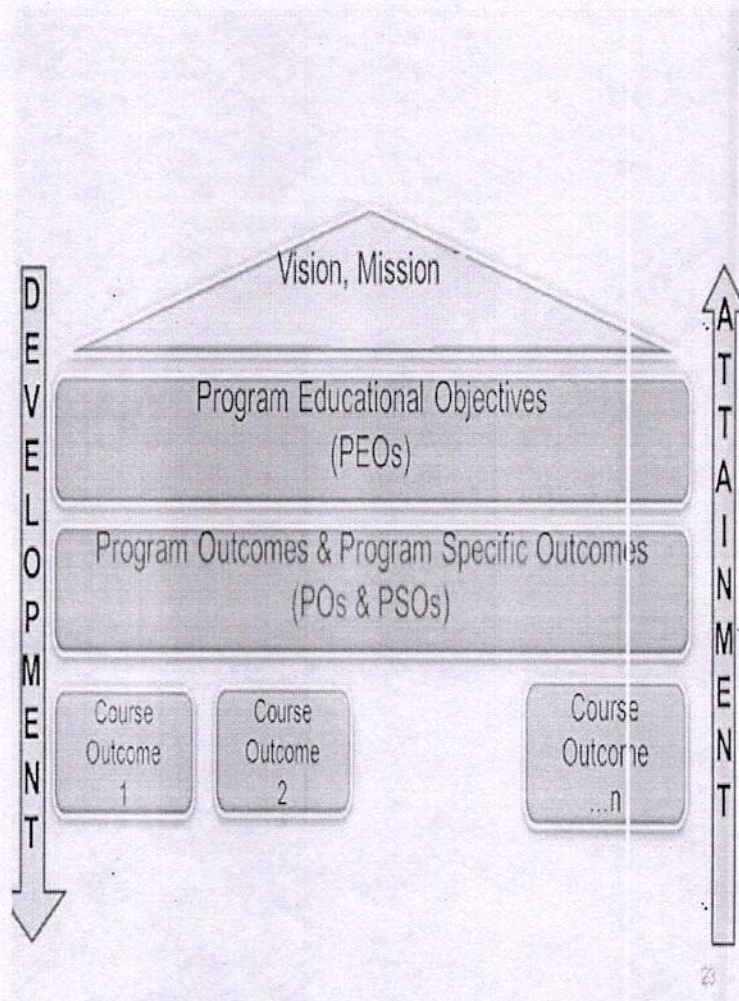
**Program Specific Outcomes (PSOs):** Program Specific Outcomes are statements that describe what the graduates of a specific engineering program should be able to do.

**Course Outcomes (COs):** Course Outcomes are the statements that declare what students should be able to do at the end of a course.

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# Vision Mission POE, PO, PSO & CO



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## PEOs, POs and PSOs of CSE Department

### Program Educational Objectives (PEO) of CSE Department

#### **PEO 1.**

The graduates of CSE will have a strong foundation in mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problem in their career.

#### **PEO 2.**

The graduates of CSE will have the ability to analyse the requirements, understand the technical specifications and design the engineering solutions by applying computer science theory and principles.

#### **PEO 3.**

The graduates of CSE will have exposure to work as teams on emerging cutting edge technologies with effective communication skills and leadership qualities.

#### **PEO 4.**

The graduates of CSE will have successful career by engaging in lifelong learning.

#### **PEO 5.**

The graduates of CSE will have skills to work collaboratively on multidisciplinary projects and exhibit high level of professional and ethical values.

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## Program Outcomes (PO's)

Engineering Graduates will be able to :

PO1	<b>Engineering Knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO3	<b>Design/development of solutions co:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering 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.
PO12	<b>Life-long learning:</b> Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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## PSO's

After completing their graduation, students of Computer Science and Engineering will be able to do :

PSO1	<b>Professional Skills:</b> will be able to understand the concepts of Computer Science & Engineering and its application in computer architecture, databases, system software, web designing, big data analytics, and machine learning techniques, artificial intelligence and networking for efficient design of computer-based systems of varying complexity.
PSO2	<b>Problem-Solving Skills:</b> will be able to understand, apply standard practices, techniques & tools for the development of software project using open-ended programming environments which support higher order cognitive skills like data interpretation, formulation of hypothesis and experimentation, to deliver a quality product.
PSO3	<b>Successful Career and Entrepreneurship:</b> will be able to employ best programming skills, environments and platforms, to identify and build innovative career option, and enthusiasm for higher studies.

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## Objective of Course

Database Management System (KCS501) Course Outcome (CO)	
CO 1	Apply knowledge of database for real life applications.
CO 2	Apply query processing techniques to automate the real time problems of databases.
CO 3	Identify and solve the redundancy problem in database tables using normalization.
CO 4	Understand the concepts of transactions, their processing so they will familiar with broad range Of database management issues including data integrity, security and recovery.
CO 5	Design, develop and implement a small database project using database tools.

Course Code	CO	PO 1	PO2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO 12	PS O1	PSO2
KCS501	CO 1 KCS501.1	3	3	2	3	2							2	2	2
	CO 2 KCS501.2	3	3	2	3	2							2	2	2
	CO 3 KCS501.3	3	3	2	3	2							2	2	2
	CO 4 KCS501.4	3	3	2	3	2							1	1	1
	CO 5 KCS501.5	3	3	2	3	2							3	3	3
Mapping Strength	KCS501	3	3	2	3	2							3	3	3

3-Strongly Related

2-Moderately Related

1-Slightly Related

Blank-Not Related

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