

Vision of the Institute:

To attain global leadership in academics by exploring new frontiers of technology through innovative research and grooming future leaders as well as entrepreneurs.

Mission of the Institute:

- The Institute's mission is to build the tomorrow of Indian Society by nurturing the career and lives of our students.
- The Institute is dedicated to providing quality education and focuses on the overall development of the student.
- The Institute's agenda is to prepare our students to make a difference in society and the world by being the best in whatever field they choose.

Vision of the Department:

To be a Leader in imparting the highest quality of education in computer science and engineering, carrying out advanced research, and promoting the application of innovative technology for facilitating the students to bloom into a highly competent professional of the future for benefiting the society at large.

Mission of the Department:

- To continuously Endeavour in creating and sustenance of an academic environment conducive to the highest level of research and teaching.
- To develop human resources with sound knowledge in the theory and practice of Computer Science & Engineering.
- Enabling partnerships and social outreach projects between academia and industry.
- Offer quality education through a well-crafted curriculum that is aligned with the industry's challenging tech needs.
- Providing state-of-the-art research facilities in the fields of computer science and engineering to create expertise and improve technologies.
- Establish linkages between industry and academia to cultivate ties of mutual benefit with world-class organizations

NRI Institute of Information Science and Technology, Bhopal
Department of Computer Science and Engineering

Program Outcomes (POs):

It represents the knowledge, skills and attitudes the students should have at the end of a program completion of their respective engineering program.

- a. Engineering knowledge: Ability to apply knowledge of mathematics, science and engineering for the solution of computer science & engineering problems.
- b. Problem analysis: Ability to formulate and analyze complex computer science & engineering problems.
- c. Design/development of solutions: Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, and public health.
- d. Conduct investigations of complex problems: An ability to analyze a problem, and identify, formulate and use the appropriate computing and engineering requirements for obtaining its solution
- e. Modern tool usage: Ability to use the techniques, skills, and modern engineering tools necessary for computer science and engineering practice.
- f. The engineer and society: Ability to include social, cultural, ethical issues with engineering solutions.
- g. Environment and sustainability: Ability to consider the impact of engineering solutions on environment and the need for sustainable development.

- h. Ethics: Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the computer science & engineering practice.
- i. Individual and team work: Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- j. Communication: Ability to communicate effectively. on complex engineering activities with the engineering community and with t h e 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.
- k. Project management and finance: Ability to demonstrate knowledge and understanding of principles of management and finance in relation to engineering projects.
- l. Life-long learning: Appreciation of technological change and the need for independent life-long learning.

Program Specific Outcomes (PSOs)

- a. Apply standard Software Engineering practices and planning in software projects development to deliver quality product for the organization success.
- b. Design and develop computer programs based on Algorithms, Web Designing, Internet of Things, and Machine Learning.
- c. Design and develop Information System based on Database Management Systems.

Programme Educational Objectives (PEOs):

PEO1: Graduates will be in Computer Science and Engineering continue to undertake research leading up to higher levels as specialists in hardware/software engineering problems through their broad understanding of core computing skills.

PEO 2: Graduates have an appropriate degree of understanding to enable them to continue their career and lifelong learning.

PEO 3: Students can exhibit creativeness in their engineering activities, including business and collaborative enterprises with strategic thinking, preparation, and execution.

PEO 4: Students will efficiently interact, recognize and take into account social needs and weaknesses, and exercise their profession with a high degree of legal and ethical responsibility.

REVISED Bloom's Taxonomy Action Verbs

Definitions	I. Remembering	II. Understanding	III. Applying	IV. Analyzing	V. Evaluating	VI. Creating
Bloom's Definition	Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers.	Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas.	Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations.	Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria.	Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.
Verbs	<ul style="list-style-type: none"> • Choose • Define • Find • How • Label • List • Match • Name • Omit • Recall • Relate • Select • Show • Spell • Tell • What • When • Where • Which • Who • Why 	<ul style="list-style-type: none"> • Classify • Compare • Contrast • Demonstrate • Explain • Extend • Illustrate • Infer • Interpret • Outline • Relate • Rephrase • Show • Summarize • Translate 	<ul style="list-style-type: none"> • Apply • Build • Choose • Construct • Develop • Experiment with • Identify • Interview • Make use of • Model • Organize • Plan • Select • Solve • Utilize 	<ul style="list-style-type: none"> • Analyze • Assume • Categorize • Classify • Compare • Conclusion • Contrast • Discover • Dissect • Distinguish • Divide • Examine • Function • Inference • Inspect • List • Motive • Relationships • Simplify • Survey • Take part in • Test for • Theme 	<ul style="list-style-type: none"> • Agree • Appraise • Assess • Award • Choose • Compare • Conclude • Criteria • Criticize • Decide • Deduct • Defend • Determine • Disprove • Estimate • Evaluate • Explain • Importance • Influence • Interpret • Judge • Justify • Mark • Measure • Opinion • Perceive • Prioritize • Prove • Rate • Recommend • Rule on • Select • Support • Value 	<ul style="list-style-type: none"> • Adapt • Build • Change • Choose • Combine • Compile • Compose • Construct • Create • Delete • Design • Develop • Discuss • Elaborate • Estimate • Formulate • Happen • Imagine • Improve • Invent • Make up • Maximize • Minimize • Modify • Original • Originate • Plan • Predict • Propose • Solution • Solve • Suppose • Test • Theory