



S J P N Trust's

**Hirasugar Institute of Technology, Nidasoshi.**

*Inculcating Values, Promoting Prosperity*

Approved by AICTE, Recognized by Govt. of Karnataka, Affiliated to VTU Belagavi,

CSE DEPT.

NBA

Vision &  
Mission

2017-18

## Vision and Mission Statemets of the Institute and Department

### **Vision of the Institute:**

*"To be a preferred institution in Engineering Education by achieving excellence in teaching and research and to remain as a source of pride for its commitment to holistic development of individual and society"*

### **Mission of the Institute:**

*"To continuously strive for the overall development of students by educating them in a state-of-the-art-infrastructure, retaining the best practices, people and inspire them to imbibe real time problem solving skills, leadership qualities, human values and societal commitments, so that they emerge as competent professionals"*

### **Vision of the Department:**

*"To be the center of excellence in providing education in the field of Computer Science and Engineering to produce technically competent and socially responsible IT professionals"*

### **Mission of the Department:**

*"To provide a theoretical foundation in computing with the exposure of latest tools and technologies, IT infrastructure and encourage students for continuous learning to make them competent professionals"*

NBA Coordinator  
(Shri. S. V. Manjaragi)

HOD  
(Dr. P. C. Baraki)

HOD  
Computer Science & Engg  
HIT, Nidasoshi.

Principal  
(Dr. S. C. Kamate)

PRINCIPAL  
Hirasugar Institute of Technology  
NIDASOSHI - 591 236

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Consistency  
of Vision &  
Mission

2017-18

Consistency of the Department Vision and Mission statements with the Institute statements are as below:

Vision of the Institute	Vision of the Department
To be a preferred institution in Engineering Education by achieving <i>excellence in teaching and research</i> and to remain as a source of pride for its commitment to <b>holistic development of individual and society.</b>	To be the center of <i>excellence in providing education in the field of Computer Science and Engineering</i> to produce technically competent and <b>socially responsible IT professionals.</b>
Mission of the Institute	Mission of the Department
To continuously strive for the overall development of students, <i>educating them in a state of the art infrastructure</i> , by retaining the best practices, people and inspire them to <b>imbibe real time problem solving skills</b> , leadership qualities, human values and societal commitments, so that they <b><u>emerge as competent professionals.</u></b>	To provide a theoretical foundation in computing with <i>the exposure of latest tools and technologies, IT infrastructure</i> and <b>encourage students for continuous learning to <u>make them competent professionals.</u></b>

  
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PSOs

2017-18

### Program Specific Outcomes(PSOs)

The graduates of the programme will be able to:

- PSO1:** Understand, design and analyze computer programs in the areas related to Algorithms, System Software, and Web design, Bigdata Analytics, Machine Learning and Networking.
- PSO2:** Make use of modern computer tools for creating innovative career paths to be an entrepreneur and desire for higher studies.

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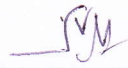
PEOs

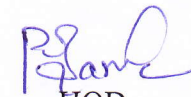
2017-18


## Program Educational Objectives (PEOs)

**The Graduates will be able to**

- PEO1:** Pursue a successful career in the field of Computer Science & Engineering by utilizing his/her knowledge and contribute to the profession as a competent employee, or as an entrepreneur.
- PEO2:** Apply the knowledge of Mathematics & Computer Science fundamentals to analyze & formulate the solution to solve real time problems.
- PEO3:** Exhibit the professional and ethical values, communication & teamwork skills, lifelong learning, multidisciplinary approach to address computer engineering and societal issues.

  
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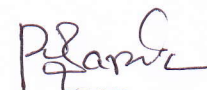
POs


2017-18

### Program Outcomes (POs):

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/Development of Solutions:** 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.
4. **Conduct Investigations of Complex Problems:** 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.
5. **Modern Tool Usage:** 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.
6. **The Engineer and Society:** 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.
7. **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** 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.
11. **Project Management and Finance:** 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.
12. **Life-long learning:** 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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