



Shanti Education Society's

**A. G. PATIL POLYTECHNIC INSTITUTE, SOLAPUR**

NBA Accredited Programs

Computer Engineering Program

## Program: Computer Engineering

### Vision, Mission, PEO, PO & PSO's

#### VISION

To create skilled and technically competent Diploma Computer professionals to meet need of industry, business & society

#### MISSION

- |           |   |
|-----------|---|
| <b>M1</b> | To cope up with rapid changing technology in the field of computer engineering. |
| <b>M2</b> | To build team work, innovation & professionalism among students                 |
| <b>M3</b> | To develop competency for meeting needs of business & society                   |

#### Program Education Objectives (PEO's)

- |             |   |
|-------------|---|
| <b>PEO1</b> | To practice as computing professionals conducting research, designing, developing and maintaining projects in various technical areas |
| <b>PEO2</b> | To apply the ethical and social aspects of modern computing technology to fulfill the needs of society.                               |
| <b>PEO3</b> | To work effectively as a team member and/or leader in an ever-changing professional challenges  |

#### Program Outcomes (PO's)

- |            |   |
|------------|---|
| <b>PO1</b> | <b>Basic and Discipline specific knowledge:</b> Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.          |
| <b>PO2</b> | <b>Problem analysis:</b> Identify and analyse well-defined engineering problems using codified standard methods.  |
| <b>PO3</b> | <b>Design/ development of solutions:</b> Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.                  |
| <b>PO4</b> | <b>Engineering Tools, Experimentation and Testing:</b> Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.   |
| <b>PO5</b> | <b>Engineering practices for society, sustainability and environment:</b> Apply appropriate technology in context of society, sustainability, environment and ethical practices.                      |
| <b>PO6</b> | <b>Project Management:</b> Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities. |
| <b>PO7</b> | <b>Life-long learning:</b> Ability to analyse individual needs and engage in updating in the context of technological changes.  |

## **Program Specific Outcomes (PSO's)**

<b>PSO1</b>	<b>Foundation of basic science &amp; mathematical concepts:</b> To use basic science & mathematical methodologies to crack problem using suitable methods, data structure and algorithm.
<b>PSO2</b>	<b>Foundation of Computer System:</b> The ability to interpret the fundamental concepts and functionality of software, hardware and network aspects of the computer systems.
<b>PSO3</b>	<b>Foundation of Software development:</b> the ability to critique the software development life cycle and methodologies of software systems. Possess competent skills and knowledge to work in team of software development. Familiarity and practical proficiency with a broad area of programming concept and provide new ideas and innovation towards research.