

**SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD**  
**Department of Information Science and Engineering**

Academic year	Department Vision	Department Mission	PEOs (UG)	PEOs (PG)
2017-18	<ul style="list-style-type: none"> <li>• To create Information Technology Engineers having the best knowledge and skills in contemporary Information Technology practices.</li> </ul>	<ul style="list-style-type: none"> <li>• To provide state-of-art facilities and knowledge to help create the best-in-class Information Technology Engineers.</li> <li>• To expose the students to the finest Information Technology practices and ethics.</li> </ul>	<ul style="list-style-type: none"> <li>• Excel as Information Technology Professional with proficiency in designing solutions to Information Engineering problems.</li> <li>• Pursue higher studies with the sound knowledge of basic concepts and skills in science and Information Technology disciplines.</li> <li>• Exhibit professionalism, team work and exposure to current trends towards continuous learning.</li> </ul>	<ul style="list-style-type: none"> <li>• To be able to solve wide range of computing related problems in order to cater to the needs of industry and society</li> <li>• To exhibit analytical decision making and problem solving skills by applying research principles for handling dynamic real time challenges.</li> <li>• To be able to adapt to the evolving technical challenges and changing career opportunities. Learn to effectively communicate ideas in oral, written, or graphical form to promote collaboration other engineering teams in accordance with social standards and ethical practices.</li> </ul>
2018-19	<b>No Change in Vision, Mission &amp; PEOs(UG&amp;PG)</b>			
2019-20	<ul style="list-style-type: none"> <li>• To develop competent Information Technology Engineers having complete</li> <li>• Knowledge and skills in contemporary Information Technology practices.</li> </ul>	<ul style="list-style-type: none"> <li>• To develop contemporary curriculum in information technology delivered using innovative teaching learning practices and</li> </ul>	<ul style="list-style-type: none"> <li>• Develop into Information Technology Professionals with expertise in providing solutions to Information Engineering problems</li> <li>• Pursue higher studies with the sound knowledge of basic concepts and skills in basic science, humanities and Information Technology disciplines.</li> <li>• Exhibit professionalism and team work by providing the environment for exploring current technology trend through collaborative and complementary work ethics.</li> </ul>	

		<p>ICT tools.</p> <ul style="list-style-type: none"> <li>• To provide facilities for relevant research and expose students to the best Industry practices in Information Technology.</li> <li>• To inculcate the best moral values and professional ethics in students.</li> </ul>		
2020-21	<b>No Change in Vision, Mission &amp; PEOs(UG)</b>			<ul style="list-style-type: none"> <li>• To prepare graduates who will be successful professionals in industry, government, academia, research, entrepreneurial pursuit and consulting firms</li> <li>• To prepare graduates who will contribute to society as broadly educated, expressive, ethical and responsible citizens with proven expertise</li> <li>• To prepare graduates who will achieve peer-recognition; as an individual or in a team; through demonstration of good analytical, research, design and implementation skills</li> <li>• To prepare graduates who will thrive to pursue life-long reflective</li> </ul>

		learning to fulfill their goals
2021-22	No Change in Vision, Mission & PEOs(UG & PG)	



**Dr. Jagadeesh D. Pujari**  
HOD, ISE

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## Department of Information Science and Engineering

### Program Outcomes (POs): (UG)

Sl. No	(A) Description of Program Outcomes
<b>Engineering Graduates will demonstrate:</b>	
1	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
2	<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.
3	<b>Design/development of Solutions:</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.
4	<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.
5	<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.
6	<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.
7	<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.
8	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10	<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.
11	<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.
12	<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.

**(B) Description of Program Specific Outcomes (PSOs)**

13	An ability to develop logical reasoning, coding skills, analysis and mathematical modeling.
14	An ability to modify, debug, test and adapt software modules for varied applications.

**Program Outcomes (POs): (PG)**

1	An ability to independently carry out research /Investigation and development work to solve practical problems
2	An ability to write and present substantial technical report/document
3	Students should be able to demonstrate a degree of mastery over the area information Technology.
4	An ability to analyze real life problems and design and implement software solution for them.



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