

*Progressive Education Society's*  
**Modern College of Arts, Science and Commerce (Autonomous),**  
Shivajinagar, Pune – 411005

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**Department of Botany**

**Program Specific Outcomes (POs)**

**Program: M. Sc. Electronics Science**

**After successful completion of M.Sc. Botany, the student will be able to:**

<b>PSO No.</b>	<b>Program Specific Outcomes (PSOs)</b>
<b>PSO1</b>	<b>Knowledge or Academic Expertise:</b> <ul style="list-style-type: none"><li>i Understand concepts, operational process and develop applications in the field of Analog &amp; Digital Circuit Design, Semiconductor technology, Instrumentation, Sensor technology , Communication/ networking, Embedded systems and Automation.</li><li>ii Design , develop, demonstrate, classify, calculate and execute real world problems by experimenting a wide range of solutions in the field of Electronics.</li></ul>
<b>PSO2</b>	<b>Inquisitive learner or Involved in Life Long learning</b> <ul style="list-style-type: none"><li>i Design and implement the laboratory based applications with capability of experimenting , Testing , data gathering, data visualization, analysis with data interpretation and Implementation.</li><li>ii Realize the design and functionalities based on applications.</li><li>iii 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.</li></ul>
<b>PSO3</b>	<b>Social competence</b> <ul style="list-style-type: none"><li>i. Develop ability to design techniques and provide indigenous , innovative, creative , economical and effectual solutions to real world problems using blended design of hardware-software tools for advanced and smart electronics system which will be useful for Society as a whole.</li><li>ii. Realize the need of the society and develop Technology assisted systems for betterment of Society.</li></ul>
<b>PSO4</b>	<b>Effective Communication</b> <ul style="list-style-type: none"><li>i Organize to accumulate and construct the data with the professional technical report writing skills along with precise presentation with effective communication skills and professional ethics.</li><li>ii Grow effective communication skills in writing and orally; demonstrate the ability to listen carefully and present complex disciplinary information in a clear and crisp manner to diverse groups.</li></ul>

<b>PSO5</b>	<p><b>Environmental awareness:</b></p> <ul style="list-style-type: none"> <li><b>i</b> Understand the impact of the Electronics based solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</li> </ul>
<b>PSO6</b>	<p><b>Digital competence</b></p> <ul style="list-style-type: none"> <li><b>i</b> Demonstrate knowledge and understanding of the appropriate use of Digital Electronics and Digital Communication for developing innovative applied Electronics systems in the field of Industrial Automation, Ai&amp; ML, wired &amp; Wireless Communication, IoT Based systems and many more.</li> <li><b>ii</b> Explore and analyze latest developments in Digital world and realize their applications for several requirements.</li> </ul>
<b>PSO7</b>	<p><b>Experiential Learning:</b></p> <ul style="list-style-type: none"> <li><b>i</b> Identify, formulate, review research literature, Design, demonstrate and analyze complex problems reaching substantiated conclusions using variety of experiments.</li> <li><b>ii</b> Develop customized Electronics Systems as well as a set up for analyzing a research problem.</li> </ul>
<b>PSO8</b>	<p><b>Ethical and Moral Values</b></p> <ul style="list-style-type: none"> <li><b>i</b> Understand and apply ethical principles and entrust to professional ethics and responsibilities and norms of the Science and engineering practice.</li> </ul>
<b>PSO9</b>	<p><b>Individuality and Teamwork or Interdisciplinary Studies</b></p> <ul style="list-style-type: none"> <li><b>i</b> Manage to work effectively and autonomously as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</li> <li><b>ii</b> Inculcate ability and confidence to develop Electronics based systems for interdisciplinary applications as an individual as well as a Team member/leader.</li> </ul>
<b>PSO10</b>	<p><b>Research and problem solving competence</b></p> <ul style="list-style-type: none"> <li><b>i</b> Design and analyze the concepts and applications in the field of communication/ networking, automation, embedded systems and semiconductor technology.</li> <li><b>ii</b> Work successfully in collaborative and multi-disciplinary environments upholding professional and ethical values or pursue higher studies or research.</li> </ul>
<b>PSO11</b>	<p><b>Stress management</b></p> <ul style="list-style-type: none"> <li><b>i</b> Acquire competency to manage the stressful situation at every step through analyzing the zero pendency concept, Yoga, Meditation, Time management (Time Audit) and practical feasibility.</li> <li><b>ii</b> Acquire ability to schedule the processes and analyze them in a step by step approach and reach to the result.</li> </ul>

<b>PSO12</b>	<b>Extramural Skills</b> <ul style="list-style-type: none"><li data-bbox="399 224 1489 313">i Demonstrate or exhibit their skills in Music, Communication based events, Sports, Art clubs, language clubs, Annual Social gatherings etc</li><li data-bbox="399 313 1489 403">ii Enhance their confidence by active participation in various non-Academic events / programmes.</li></ul>
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