

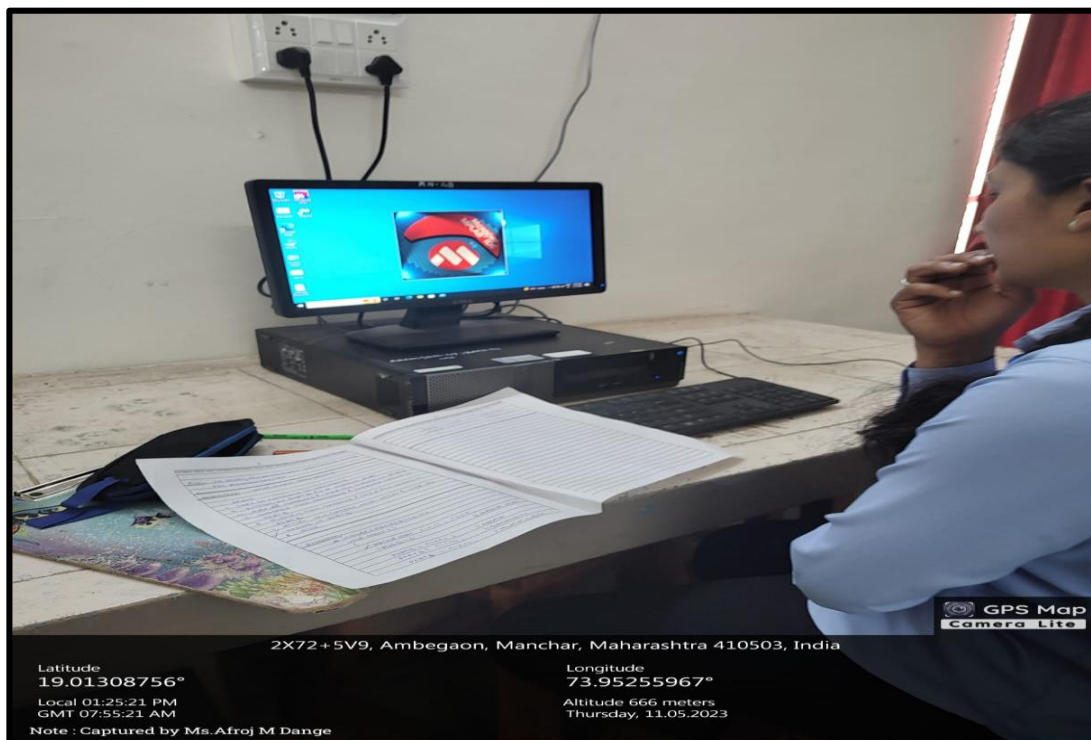
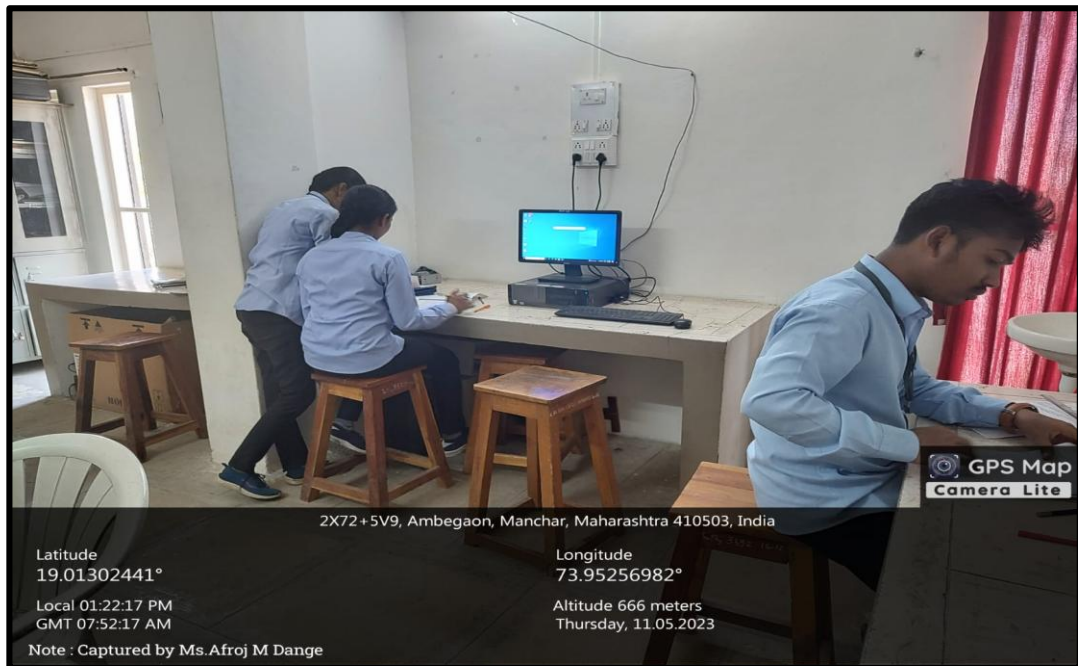
*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**  
**Manchar, Tal. Ambegaon, Dist. Pune 410503**  
**Department of Electronic Science**

**Report for Hands-on Training for Circuit Simulation: 2022-23**

<b>Name of Program</b>	Hands-on Training for Circuit Simulation
<b>Event Date</b>	11/05/2023
<b>Event Participants</b>	TYBSc
<b>Event Time</b>	1.00 PM
<b>Mode of Conduction</b>	Offline
<b>Event Coordinator</b>	Ms. Afroj M Dange & Ms. Jayashree B Khilari
<b>No. of Beneficiary</b>	16
<b>Objectives</b>	<ul style="list-style-type: none"> <li>To introduce students to circuit simulation software (e.g., SPICE, Multisim, Proteus).</li> <li>To enable students to model complex electronic circuits.</li> <li>To analyse circuit parameters such as voltage, current, power, and frequency response.</li> <li>To develop troubleshooting skills through simulation and analysis.</li> <li>To prepare students for real-world circuit design challenges.</li> </ul>
<b>Introduction</b>	The hands-on training was conducted for students of the Electronics Department on circuit simulation techniques. The primary objective was to familiarize participants with industry-standard simulation tools, enhance their understanding of electronic circuit behaviours, and develop practical skills in designing and analysing circuits virtually before physical implementation.
<b>Methodology</b>	<ul style="list-style-type: none"> <li><b>Interactive Demonstrations:</b> Trainers demonstrated the creation and simulation of circuits step-by-step.</li> <li><b>Hands-On Practice:</b> Participants replicated the circuits on their systems.</li> <li><b>Assignments:</b> Simulate predefined circuits and analyse results.</li> <li><b>Group Projects:</b> Teams designed and simulated their circuits, fostering collaborative learning.</li> <li><b>Discussion and Feedback:</b> Regular sessions for doubts and clarifications.</li> </ul>
<b>Tools and Software Used</b>	<ul style="list-style-type: none"> <li>Multisim</li> <li>Proteus</li> <li>LTSpice</li> </ul>
<b>Outcomes</b>	<ul style="list-style-type: none"> <li>Enhanced understanding of electronic circuit behaviour through simulation.</li> <li>Ability to model, analyse, and troubleshoot circuits virtually.</li> <li>Improved readiness for physical circuit design and testing.</li> <li>Increased interest in utilising simulation tools for academic and professional projects.</li> </ul>
<b>Conclusion</b>	The hands-on training successfully bridged theoretical knowledge and practical application of circuit simulation. Participants gained valuable skills that will aid them in their academic projects and future careers in electronics.
<b>Enclosure</b>	1] Notice 2] Student Attendance 3] Event Photos



  
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