

**Submission of Proposals for Short Course -Mechatronics**

**Course Title: 'Programming with Siemens S7-1200 PLC'**

<b>Section Heading</b>		<b>Content Guidelines</b>
1.	Course Rationale	This course is designed for Polytechnic/B. Tech passed out students who wish to learn Siemens PLC along with hands on practice.
2.	Class Size	20
3.	Course Details	<p><b><u>Objective</u></b>            This course will cover installation and familiarization of PLC hardware, software, PLC languages, PLC communication with field devices etc.            Course participants will learn to program, operate and control Siemens S7 1200 plc through multiple designed jobs and hands-on practices.</p> <p><b><u>Course Duration:</u></b>            6 days (Monday to Saturday) from 10:00 AM to 5:00 PM</p> <p><b><u>Training Outcomes</u></b>            On completion of this course, participants will be able to:</p> <ul style="list-style-type: none"> <li>• Interpret S7 1200 Hardware Configuration</li> <li>• Develop ladder logic based on industrial scenario using timers, counters and basic library Instructions in TIA portal( V17)</li> <li>• Interface digital sensors to control field outputs</li> <li>• Troubleshoot errors in PLC Hardware and software</li> <li>• Develop electro-pneumatic industrial applications using PLC</li> </ul> <p><b><u>Certification: -</u></b>            The award of the course certification will be based on the candidates successfully fulfilling the following criteria:</p> <ul style="list-style-type: none"> <li>• Attendance of at least 90% of the training.</li> <li>• Score at least 50% of the practical assignment.</li> </ul>

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4.	Entry Requirements	Diploma/B. Tech passed out students from below branches.  a) Electrical Engineering b) Electronics Engineering c) Mechatronics Engineering d) Electrical and Electronics Engineering
5.	Date of STC	29.05.2023
6.	Time	10am-5pm