Advanced Diploma in PLC/SCADA/DCS Engineer

Objective of the Course:
This course is aimed at equipping a Diploma holder/ Engineer/B.Sc/M.Sc holder (in specific streams) with appropriate knowledge and skills in Industrial automation systems with the use of DCS, PLCs, Industrial Field Instruments, Industrial PCs, SCADA/ HMI and related Software.

Learning Outcomes:
Automation engineers to meet the requirements of setting up appropriate industrial automation systems.

Expected Job Roles:
Instrumentation Engineer

Duration of the Course (in hours) 360 hrs

Appr. Fees (INR): Rs. 34,000/- (Service Tax Extra)

Minimum eligibility criteria and prerequisites if any
b. Diploma/B.Sc candidates must produce Provisional / Degree certificate & M.Sc /BE/B.Tech Students must produce Course Completion/ Provisional /Degree certificate at the time of admission.

Outline of the Course

<table>
<thead>
<tr>
<th>S. No</th>
<th>Topic</th>
<th>Minimum No. of Hours</th>
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<tbody>
<tr>
<td>1.</td>
<td>PLC &amp; PID Controllers</td>
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<td>2.</td>
<td>SCADA/HMI System Development</td>
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<td>3.</td>
<td>Distributed Control System (DCS)</td>
<td>360</td>
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<tr>
<th>Theory/ Lecture Hours:</th>
<th>Practical/ Tutorial Lecture Hours:</th>
<th>Total Hours:</th>
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<tr>
<td>80</td>
<td>280</td>
<td>360</td>
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Books recommended for reference and reading:

REFERENCES

1. Distributed computer control for Industrial Automation, by: Popovic & Bhatkar, Dekker.
Short Term Courses – NIELIT

11. Advances in Distributed Sensor Technology; by: S.S.Iyengar, L.Prasad, Hla Min; Prentice Hall PTR
12. Introduction to Programmable Logic Controllers, Dunning, Gary
15. Manuals of PLC (ABB, AB and Siemens), DCS and SCADA

In addition manufacturer’s device data sheets and application notes are to be referred to get practical application oriented information.

Group Code: CADD  Group Name: AutoCad / Instrumentation
Course Code: AD02  Course Name: Advanced Diploma in PLC/SCADA/DCS Engineer