

WORKSHOP SUMMARY REPORT

TWO DAY NATIONAL LEVEL TECHNICAL WORKSHOP ON INDUSTRIAL AUTOMATION USING PLC & SCADA

~Prepared by Nagaraja Kumari.CH, Assoc. professor, EEE Dept., NNRG.

On August 20th & 21st, 2018, Department of Electrical & Electronics Engineering hosted a Two-day National Level Technical workshop entitled Industrial Automation Using PLC & SCADA in association with MEPAC3 Engineering Solutions Pvt., Ltd.

The main objective of this workshop is to provide professional hands on training experience in industrial automation using PLC & SCADA.

Inaugural function of workshop was started at 9:30 am. in the presence of our Director Dr. C.V Krishna Reddy, Dean, School of Engineering Dr. G. Janardhana Raju, HOD-EEE Dr. P.Ramesh , Head –Business Development of MEPAC3 Engineering Solutions Pvt., Ltd Mr. E.Venkataramana & team, faculty members of EEE department and student participants.

All the dignitaries were welcomed on to the dias by Ms Nagaraja Kumari.CH, Assoc. Professor –EEE Dept. and she gave an introductory speech about the workshop.

The workshop began with an overview by Dr. P. Ramesh, Professor & HoD, EEE and the context - why industrial automation using PLC & SCADA matters. The keynote speech was delivered by Dr. C.V Krishna Reddy, Director of NNRG. He presented the case for greater emphasis on the usage of PLC & SCADA. Later Dr. G. Janardhan Raju, Dean School of Engineering, addressed the gathering & he shared the importance of industrial automation using PLC & SCADA and also motivated participants to learn better and emphasized the NNRG management efforts for student's academic welfare. At the end Mr. E. Venkataramana, Head – Business Development of MEPAC3 Engineering Solutions Pvt., Ltd addressed the students that how this workshop helps for future.

Seventy Six students from III and IV years of EEE department attended the workshop.

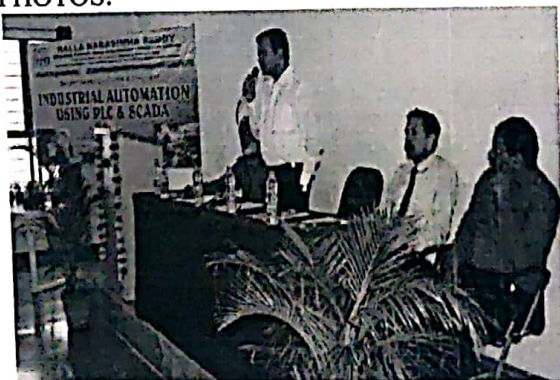
The two days were scheduled into eight sessions i.e., four sessions per day as follows.


| Day | Timing | Session | Contents |
|------|---------------|-----------|--|
| Day1 | 9:30 – 11:00 | Session 1 | Commencement of the program, Introduction to Industrial Automation technology and its Application |
| | 11:00 -11:15 | | Tea break |
| | 11:15 – 12:45 | Session 2 | <ul style="list-style-type: none">• Architecture of PLC• Selection criteria of PLC• Exposure to SIEMENS PLC and its Software• Overview of Instruction set for programming SIEMENS PLC |
| | 12:45 – 1:30 | | Lunch Break |

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|------|---------------|-----------------------------------|--|
| Day2 | 1:30 – 3:00 | Session 3 | <ul style="list-style-type: none"> • Practical training on PLC ▪ Development of PLC programs for <ul style="list-style-type: none"> - Multiplexer, De-Multiplexer - Encoder, De- Encoder - Motor control |
| | 3:00 – 3:15 | Tea break | |
| | 3:15 – 4:15 | Session 4 | <ul style="list-style-type: none"> • Practical training on PLC ▪ Development of PLC programs for <ul style="list-style-type: none"> - Time delay control - Sequential Control |
| | 9:30 – 11:00 | Session 1 | <ul style="list-style-type: none"> ▪ Introduction to SCADA and Its features • Exposure to SCADA Software • Integration of PLC with SCADA • Configuring SCADA project |
| | 11:00 -11:15 | Tea break | |
| | 11:15 – 12:45 | Session 2 | <ul style="list-style-type: none"> • Practical training on SCADA ▪ Designing of SCADA Screens ▪ Configuring Tags and Objects • Configuring Runtime settings |
| | 12:45 – 1:30 | Lunch Break | |
| | 1:30 – 3:00 | Session 3 | <ul style="list-style-type: none"> ▪ Student practice session – Application – I ▪ Student practice session – Application – II |
| | 3:00 – 3:15 | Tea break | |
| | 3:15 – 3:40 | Session 4 | <ul style="list-style-type: none"> ▪ Demonstration of Industrial plant <ul style="list-style-type: none"> - Chemical batch process - Bottle filling process - Pick and place robot arm - Conveyor assembly |
| | 3:40 – 4:00 | Feedback and query session | |

On 21st August 2018, Workshop was concluded by vote of thanks by our beloved Director Dr. C.V Krishna Reddy, Dean School of Engineering, NNRG Dr. G. Janardhana Raju and HoD Dr. P. Ramesh. It was a very resourceful session and the students gave a very good feedback. Everyone left the workshop with positive attitude towards life at 4:15 pm.

PHOTOS:




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