

Training Program on Surge Analysis and Design of Surge Protection Systems

20th to 22nd July 2017

Venue: Lecture Hall, Centre for Continuing Education, IISc

Programme

20th July 2017 (Thursday)

09.00 to 09.30	Registration
09.30 to 11.00	Lecture
11.00 to 11.15	Tea
11.00 to 13.00	Lecture
13.00 to 14.00	Lunch
14.00 to 15.45	Computer session
15.45 to 16.00	Tea
16.00 to 17.30	Computer session

21st July 2017 (Friday)

09.00 to 11.00	Lecture
11.00 to 11.15	Tea
11.00 to 13.00	Lecture
13.00 to 14.00	Lunch
14.00 to 15.45	Computer session
15.45 to 16.00	Tea
16.00 to 17.30	Computer session

22nd July 2017 (Saturday)

09.00 to 11.00	Lecture
11.00 to 11.15	Tea
11.00 to 13.00	Lecture
13.00 to 14.00	Lunch
14.00 to 15.45	Computer session
15.45 to 16.00	High Tea
16.00 to 17.00	Concluding session

Lecture sessions will cover Estimation of friction losses; computation of pump head; system curve analysis; basic concepts of surge; effect of column separation; parameters influencing surge; interpretation of surge results; types of pipes; design criteria for surge protection; control of surge; surge protection devices; design of air vessel, one way surge tank, stand pipe; locating upsurge control devices like zero velocity valve, surge relief valve, air valve and air cushion valve; control of surge for gravity mains. Transient analysis for circulating water systems. Case studies in water transmission mains, lift irrigation schemes and CW systems. Computer sessions will cover usage of SAP2 software for surge analysis, interpretation of results and design of surge protection systems with examples and data from projects.

Fee for the program is Rs. 15,000/- per participant. Fee includes course material, lunch and teas. Fee can be paid through bank draft or multicity cheque drawn in favour of "The Registrar, Indian Institute of Science" payable at Bangalore on or before 17th July 2017. Any clarifications regarding payment contact CCE Office so@cce.iisc.ernet.in or at 080 2293 2247.

Limited accommodation (non a/c single room with attached toilet) is available in campus at Rs.1000/- per night per person. No catering facility, but couple of restaurants are nearby. Details of hotels around IISc campus can be provided on request.

For any other information contact the course instructor

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