

## OFFICE OF THE VICE PRESIDENT FOR PUBLIC AFFAIRS

UNIVERSITY OF THE PHILIPPINES • TELEFAX 9291288 • TRUNKLINE 9818500 Locals 2531, 2532, 2507 • e-mail: ovppa@up.edu.ph

Name of	Instrumentation and Control for Industrial Applications
Extension/Public	modulinomation and Condot for madotral repplications
Service Service	
(The name of the	
service being	
offered)	
<b>Objective</b>	By the end of this course, participants are expected to have acquired
(Description of the service being provided; History of service provision)	knowledge on the basic principles of instrumentation and control. They must have also learned to appreciate and be aware of the value of instrumentation and control in industrial operations. Participants will learn of the proper techniques and guidelines in the proper selection, maintenance and troubleshooting of measurement and control instruments and their components, as well as how to evaluate and update existing controls and measurement systems in their plants.
<b>Duration/Date</b>	Three days
Target Beneficiaries	Process engineers, instrumentation engineers, quality control/assurance engineers, technical consultants trainers/teachers, maintenance engineers (Minimum Background: B.S. degree in Engineering or equivalent work experience)
Cost of	PhP 13,000
Participation	
Office in Charge	National Engineering Center through Dr. Rizalinda de Leon (Executive Director) and/or Dr. Mili-Ann Tamayo (Deputy Executive Director)
Office Profile	, , , , , , , , , , , , , , , , , , , ,
Degree granting or	
non-degree	
granting	
<b>Purpose of creation</b>	
Location in the	
hierarchy	
(Background of the office providing the service i.e. Number of personnel and Key personnel providing the service)	
,	
Awards/recognition received by the office	



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(The awards given	
by or received by the	
office offering the	
service, if any)	XXX X *4 X 44 //
Official website	Website: http://www.upnec.com/
and Social media	Facebook: <a href="https://www.facebook.com/upnationalenggcenter">https://www.facebook.com/upnationalenggcenter</a>
accounts	
(The link to the	
official website of	
the service)	
External links for	
documentation	
(The external links	
featuring the service	
[for the electronic	
copy, e.g. featuresin	
newspapers etc.])	
Contact details	Address:
(The contact details	U.P. National Engineering Center
of the head of the	Juinio Hall, corner Agoncillo St. and Osmena Avenue
unit offering the	University of the Philippines Diliman
service: fax,	Quezon City 1101, Philippines
telephone, email,	
snail mail, map)	Administrative Division:
, 1,	UP Trunkline: 981-8500 loc 3003, 3002
	E-mail: nec@up.edu.ph
	Professional Engineering Training Division:
	UP Trunkline: 981-8500 loc. 3005, 3004 and 3048
	E-mail: http://nec.training@up.edu.ph, nec.training@upd.edu.ph
	Voice: (632) 929-1710, (632) 927-1581
	Engineering Information Services Division:
	UP Trunkline: 981-8500 loc. 3006, 3008
	Fax: (632) 632-929-1710
	, ,
	Project Development and Management Division:
	UP Trunkline: 981-8500 loc. 3014
	Fax: (632) 632-929-1710
	1 mar. (002) 002 727 1110



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Other Remarks	Topics:
	1. Fundamentals of instrumentation and control
	2. Principles and methods of industrial process measurements and control
	3. Types of final control elements
	4. Principles of control valve sizing
	5. Criteria for control valve sizing
	6. Criteria for control valve selection
	7. Control valve maintenance
	8. Automatic control Technology
	9. Elementary to complex control schemes
	10. Limits of automatic control
	11. Basic control modes
	12. Basic control schemes
	13. Maintenance and safety in instrumentation and control systems
	14. Troubleshooting principles and case studies of actual plant