



Course	Infrastructure Design for SMART Environments																																							
Overview	<p>The environments we live and work in are becoming increasingly smarter, in the context of being able to provide us automated and on-demand services.</p> <p>This course covers all applications in building control, ranging from lighting and shutter control to various security systems, heating, ventilation, air conditioning, monitoring, alarming, water control, energy management, metering as well as household appliances, audio and lots more.</p> <p>Extensive insight will be provided for the underlying technologies and connectivity applications for the technical operation, design, smart building system installations. Course sophisticated, subject-specific content is divided between developing theoretical understanding and practical skills, and also prepares learners to sit the accredited examination.</p>																																							
Objectives	Provides qualified engineers or suitably qualified applicants with the skills, knowledge and competence to design, install, configure and test an intelligent building control/connection system using the latest technologies.																																							
Who should attend	This course is intended for System Integrators and Technology Partners that will install administer and maintain complex multi-vendor building management solutions. Professionals in Electro-Mechanical Engineering, Building or Facility Management, HVAC, or Building Systems will benefit most from attendance to this course.																																							
Prerequisites	<ul style="list-style-type: none"> No mandatory prerequisites 																																							
Dates & Duration	<ul style="list-style-type: none"> May 08,09,10, 2012 3 days 21 teaching hours 			<table border="1"> <thead> <tr> <th colspan="4">Class Daily Time Schedule</th> </tr> <tr> <th>Hr</th> <th>Starts</th> <th>Ends</th> <th>Intervals</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9:30</td> <td>10:15</td> <td></td> </tr> <tr> <td>2</td> <td>10:15</td> <td>11:00</td> <td>11:00-11:15</td> </tr> <tr> <td>3</td> <td>11:15</td> <td>12:00</td> <td></td> </tr> <tr> <td>4</td> <td>12:00</td> <td>12:45</td> <td>12:45-13:00</td> </tr> <tr> <td>5</td> <td>13:00</td> <td>13:45</td> <td></td> </tr> <tr> <td>6</td> <td>13:45</td> <td>14:30</td> <td></td> </tr> <tr> <td>7</td> <td>14:45</td> <td>15:30</td> <td></td> </tr> </tbody> </table>	Class Daily Time Schedule				Hr	Starts	Ends	Intervals	1	9:30	10:15		2	10:15	11:00	11:00-11:15	3	11:15	12:00		4	12:00	12:45	12:45-13:00	5	13:00	13:45		6	13:45	14:30		7	14:45	15:30	
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Instructors	Course Led by <u>Dr A. Pnevmatikakis</u> , AIT Assistant Professor <u>Dr F. Talantzis</u> , AIT Assistant Professor,																																							
Training Methodology	<ul style="list-style-type: none"> Simulations Building Diagrams network topology graphs Laboratory Demos 																																							
Course outline	<p>This course examines the technologies necessary for equipping a building with service-providing capabilities. The following are covered:</p> <ul style="list-style-type: none"> Sensors: audio, video, ultrasonic, infrared, RF (2 hrs) Data management: compression, coding, privacy, transmission and storage in databases (3 hrs) Detection from various sensors: audio, video, RF (3 hrs) Tracking from various sensors: audio, video and sensor fusion (3 hrs) Decision systems: nearest neighbor, neural nets, decision trees (2 hrs) Interfaces: abstractions for low processing power devices, interactive surfaces, human commands (voice, gestures) and robots (3 hrs) Integrated systems for living and working (2 hrs) 																																							
Expression of Interest	excedu@ait.gr please send your contact info, including program title in email subject line																																							
Registration Form	http://hermes.ait.gr/registrations/multiple.php?prog=321																																							
Venue	AIT, Building B7, INTRACOM Campus, 19 km, Markopoulou Av, Peania 190 02 How to Reach AIT: http://www.ait.edu.gr/ait_web_site/how_to_reach_us.jsp																																							
Tuition Fee	Single Participation: € 690,00 This course is also available for in-house training for 4-10 participants @ competitive pricing OAED funding may reach up to 100%, for more information please contact us. Discount Policy Cancellation Policy																																							
Contact	Katerina Protonotariou, Executive Education Manager, AIT, krpo@ait.gr , 210 6682806, extn 5806																																							

