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Project ID: 731084

Training course on:

“Experimental modelling of wind actions and structural response”

Organised by CRIACIV

*(Inter-University Research Centre on Building Aerodynamics and Wind Engineering)
at the University of Florence*

Prato, June 25th – June 28th 2018



Course Outline

Data	Orario	Ore	Corso	Speaker
25.06.2018	15.30 – 16.00	0.5	Welcome & introduction	C.Borri
	16.00 – 18.00	2	Offshore wind energy potential in the Mediterranean sea within the European perspective	L. Serri
26.06.2018	9.00 – 11.00	2	Review on random processes and stochastic dynamics Modelling and optimization of pressure taps	L. Facchini
	11.00 – 13.00	2	Atmospheric circulation and wind structure within the Boundary Layer	G. Bartoli
	15.00 – 17.00	2	Bluff body aerodynamics	A. M. Marra
27.06.2018	9.00 – 11.00	2	Flow-structure interaction and aeroelastic phenomena	C. Mannini
	11.00 – 13.00	2	Experimental wind tunnel testing and main measuring chains: pressures and forces, flow visualization and characterization, flow-structure interaction and aeroelastic phenomena	T.Massai
	14.00 – 16.00	2	An introduction to nonlinear wave actions on off-shore wind turbines	E. Marino
	16.00 – 17.00	1	Technical visit at Wind Tunnel Laboratory in Prato	G. Bartoli



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28.06.2018	9.00 – 10.00	1	Generation of multi-correlated time series of turbulent wind flow by simulation in T.D. (WAWS, AR/MR, hybrid methods)	C. Borri
	10.00 – 12.00	2	Energy harvesting from flow-induced vibrations: overview and new experiments on flutter	L. Pigolotti
	12.00 – 13.00	1	Offshore energy harvesting in Southern Europe (deep water): future perspectives and challenges	C. Borri L. Cappiotti E. Marino

Please be aware that minor changes could occur prior to the begin of the course.



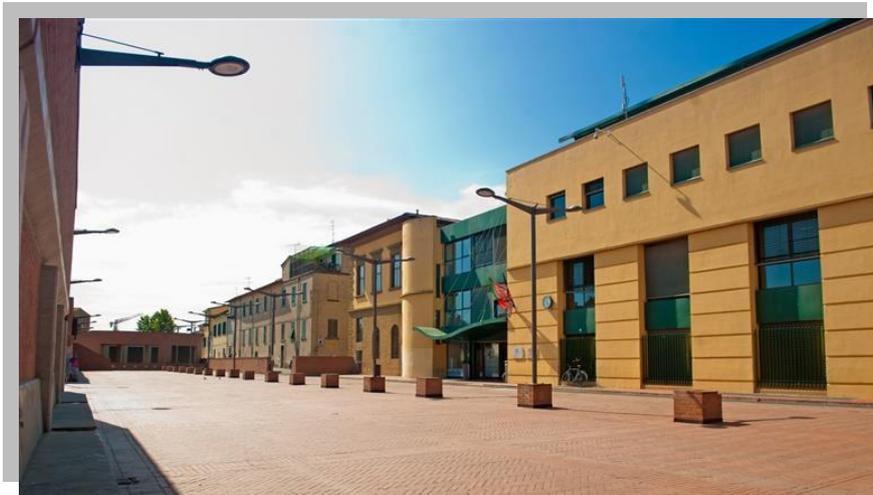
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Venue:

Prato Campus of University of Florence - PIN S.c.r.l.-Polo Universitario Città di Prato
(site of the BL wind tunnel lab. of CRIACIV)

Piazza G. Ciardi, 25 / Piazza dell'Università, 1 – PRATO (Italy)
Room 139, ground floor



How to reach the venue:

By Plane

The nearest airports to Prato are: "A. Vespucci" airport in Florence, "G. Galilei" airport in Pisa and "G. Marconi" airport in Bologna.

All airports are less than one hour drive to Prato (half an hour from "A. Vespucci" in Florence) and bus or rail services connect the airports to Prato.

By Train

Prato is served by two railway lines, Bologna-Florence and Florence-Lucca, and is therefore well connected with major Italian cities such as Rome, Milan, Florence, Bologna, Venice and Naples. If you stay in Florence city centre the easiest way to get to PIN University is to take the Florence-Lucca line (which continues to Viareggio or Pisa). Both lines pass through the Prato Central station. The exit station is Prato Porta Serraglio Station, very close to the University.



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Getting to the course venue from suggested Hotels:

Hotel Giardino: <https://giardinohotel.com/en/> (very close to the course venue).

Address: Via Magnolfi , 2/4/6 - 59100 Prato (PO).

Hotel San Marco: you can walk through Mercatale Square and Via Sant'Antonio towards Prato Porta al Serraglio railway station, then cut through the station pedestrian underpass and face our building in front of you (10 minutes walk).

Art Hotel Milano: you can either cross the river, turn left and walk through Via Giacomo Matteotti, cross the river again to Mercatale Square and follow directions as from Hotel San Marco, or have a nice walk on the pedestrian trail alongside the river (just in front of the hotel) and spot our yellow-green building on your left (10 minutes walk).

Many other accommodation options can be found in Florence or Prato through Booking.com.