

VERBALE DEL CONSIGLIO DELLA SCUOLA DI DOTTORATO DEL POLITECNICO DI BARI

Seduta n. 6/2025

del 15/10/2025

Il giorno 15/10/2025 alle ore 14:00, a seguito di convocazione del 6/10/2025, si è riunito in modalità telematica il Consiglio della Scuola di Dottorato del Politecnico di Bari, per discutere il seguente

ORDINE DEL GIORNO

P.1) Comunicazioni del Direttore

P.2) Ratifiche

P.3) Integrità e sicurezza della ricerca - NDA per dottorandi

P.4) Didattica dottorale

P.5) Varie

ODG SUPP1) Riconoscimento CFU per i dottorandi partecipanti al percorso Binp4Venture

Sono presenti/assenti giustificati/assenti:

n	Nome e Cognome	Titolo	Presente	Assente Giustificato	Assente
1	Luigi Alfredo Grieco	Direttore Scu.Do. - Rappresentante DEI	x		
2	Giuseppe Pascazio	Pro Rettore		x	
3	Francesco Defilippis	Rappresentante DArCoD	x		
4	--	Rappresentante DMMM			
5	Gabriella Pugliese	Rappresentante DIF		x	
6	Michele Notarnicola	Rappresentante DICATEch	x		
7	Mario Carpentieri	Coordinatore di Dottorato DRIEI	X (sino alle 14:30)		
8	Giuseppe Casalino	Coordinatore di Dottorato DRIMEG (Cicli XXXVII e XXXVIII)	x		
9	Vito Iacobellis	Coordinatore di Dottorato DRSATE	x		
10	Caterina Ciminelli	Coordinatore di Dottorato SSI	x		
11	Marco Donato de Tullio	Coordinatore di Dottorato DRISA			
12	Mario Daniele Piccioni	Coordinatore di Dottorato DRISS	x		
13	Mariagrazia Dotoli	Coordinatore di Dottorato DAUSY	x		
14	Giuseppe Fallacara	Coordinatore di Dottorato CTI	x		
15	Antonio Emmanuele Uva	Coordinatore di Dottorato DRIME		x	

16	Ilaria Giannoccaro	Coordinatore di Dottorato DRIG		x	
17	Antonio Messeni	Coordinatore di Dottorato DRIG	x		
18	Orazio Giustolisi	Coordinatore di Dottorato CMCEI		x	
19	Giuseppe Demelio	Coordinatore di Dottorato DRIMEG (Ciclo XXXVI)	x		
20	Carlo Moccia	Coordinatore di Dottorato CIPP (Ciclo XXXVII)		x	
21	Simona Semeraro	Rappresentante Dottorandi	x		
22	Martina Campanella	Rappresentante Dottorandi	x		

Il Prof. Torresi partecipa in vece del Prof. Uva sino alle 14:30.

Alle ore 14:05, il Direttore, accertata la presenza del numero legale dei componenti, dichiara aperti i lavori del Consiglio. Viene nominato segretario il Prof. Antonio Messeni Petruzzelli.

P.1) Comunicazioni del Direttore

Nessuna comunicazione.

P.2) Ratifiche

Nessuna ratifica.

P.3) Integrità e sicurezza della ricerca - NDA per dottorandi

Il Direttore ha condiviso con la SCUDO la proposta di NDA per dottorandi trasmesso dall'Ufficio Post Lauream in sede di convocazione dell'attuale riunione.

La SCUDO esprime parere favorevole all'unanimità in merito alla proposta di NDA.

P.4) Didattica dottorale

Nelle seguenti tabelle si riportano le candidature pervenute, al netto delle rinunce, in risposta al primo bando di vacanza per la copertura degli insegnamenti SCUDO nell'Anno Accademico 2025/2026:

Tabella n. 1.1 – Elenco insegnamenti per i quali è stata ricevuta una singola candidatura conforme al bando.

Insegnamento	SSD	CFU insegnamento bando	Nominativo Docente
Advanced Fiber Optic Technologies for Biosensing	ING-INF/01	2	Nabarun Saha
Advanced Transportation Accessibility-Equity Assessment	ICAR/05	2	DE BARTOLOMEO SIMONA
Complex Network Theory: Theory, Methods and Applications	ICAR/02	2	SIMONE ANTONIETTA
Innovative and recyclable methods and materials for Engineering applications	MAT/07	2	FAZIO VINCENZO
IoT Technologies for Digital Transition	ING-INF/03	2	RASHID ADNAN
AI and creativity	ICAR/14	2	COSTANTINO DARIO
Historical research and study of the Ancient architecture	ICAR/18-L-ANT/07	2	FINO ANTONIO
Problems and methods of contemporary restoration	ICAR/19	2	DE CADILHAC ROSSELLA
Stereotomic Design. New frontiers of stone architecture	ICAR/14	2	CAVALIERE ILARIA
Theories and methods of design for the Antique	ICAR/14	2	NITTI ANTONIO
Theories and techniques of the project for the fragile cities and territories	ICAR/14	2	TUPPUTI GIUSEPPE
Theory of formativeness	ICAR/14	2	MOCCIA CARLO
Deep Reinforcement Learning for Control of Autonomous Systems	ING-INF/04	1	VOLPE GAETANO
Dynamical stochastic models of biological systems	ING-INF/04	1	PALUMBO PASQUALE
Modeling and simulation of biosystems	ING-INF/04	2	BORRI ALESSANDRO
Modeling and Simulation of Smart Energy Systems	ING-INF/04	1	ROCCOTELLI MICHELE
Optimal Control for Climate Change and Air Quality	ING-INF/04	2	CARNEVALE CLAUDIO
Simulation Systems for Engineering Applications	ING-INF/04	2	MIGNONI NICOLA

Management of future telecommunication systems via pervasive intelligence	IINF-03/A	2	RAGO ARCANGELA
Numerical Methods for nonlinear Optimization	MATH/05	1	COCLITE ALESSANDRO
Numerical Methods for ODEs	MATH/05	1	PELLEGRINO SABRINA FRANCESCA
Basic concepts on elliptic equations	MAT/05	2	D'AVENIA PIETRO
Introduction to probability and statistical inference	MAT/05	2	CAPONIO ERASMO
Mathematical methods in deep learning	MAT/05	2	ORLANDO GIANLUCA
Technological changes and transition perspective	ING-IND/35	2	ALBINO VITO
Conservation laws in continuum mechanics and traffic modeling	MAT/05	2	COCLITE GIUSEPPE MARIA
Introduction to partial differential equations and applications	MAT/05	2	POMPONIO ALESSIO
Coding Theory	MAT/03	1	AGUGLIA ANGELA
Mathematical Models for High Frequency Analysis	MAT/05	1	MADDALENA FRANCESCO
Energy Production: Storage, Emerging Technologies & Social Challenges	ING-IND/10, ING-IND/35	2	SELICATI VALERIA
Innovative devices for seismic risk protection	ICAR/09	1	LA SCALA ARMANDO
Numerical and experimental modelling of heat transfer	ING-IND/08 ING-IND/11	2	JAHANBIN AMINHOSSEIN
Adaptive Building Technologies for the Mitigation of Local and Global Climate Change	ICAR/10	2	CAMPAGNA LUDOVICA MARIA
Complex knowledge management and intelligent systems for land and environmental engineering	ICAR/20	1	PATANO MAURO
Deep learning applications for Engineering Geology	GEO/05	2	DOGLIONI ANGELO
Lab-and-field data acquisition and analysis for studying Hydraulic Processes	ICAR/01	2	DE PADOVA DIANA
Materials for the ecological transition	CHIM/07	1	MUSIO BIAGIA
Mathematical models for transportation systems	ICAR/05	1	COLOVIC ALEKSANDRA
Multiscale models for materials science	MAT/07	2	FLORIO GIUSEPPE

Research in Architecture and Engineering Aided by Information Models: From BIM to Digital Twin for the Built Environment.	ICAR/11	1	BRUNO SILVANA
Fundamentals of Radio Localization and Sensing	ING-INF/03	2	FASCISTA ALESSIO
Nuclear Techniques and Innovative Sensors for medical applications	FIS01/FIS07	2	LOPEZ DAYRON RAMOS
Physical Layer Security for wireless communication	ING-INF/02	2	CALO' GIOVANNA
Innovation of business models in the civil infrastructure sector	ING-IND/35	2	MANCUSO ILARIA
Innovative techniques and methodologies for the reuse of materials in road, railway and airport constructions	ICAR/04	2	COROPULIS STEFANO
Meteomarine forcing and design of maritime constructions	ICAR/02	2	BRUNO MARIA FRANCESCA
Open Source and Innovative tools for simulating transport systems	ICAR/05	2	GIUFFRIDA NADIA
Practical Course in physical modelling for coastal engineering	ICAR/02	2	MOLFETTA MATTEO GIANLUCA
Road infrastructure for intelligent mobility	ICAR/04	2	COROPULIS STEFANO
Analysis and representation techniques for architectural research	ICAR/17	2	LESERRI MASSIMO
Historical research and study of contemporary architecture and city	ICAR/18	2	LABALESTRA ANTONIO
The architecture of structural forms	ICAR/14	2	DE VENUTO TIZIANO
Control and Security of Cyber Physical Systems	ING-INF/04	1	LIU RUOTIAN
Data-driven fault diagnosis and fault prognosis	ING-INF/04	1	FELICETTI RICCARDO
Distributed/Decentralized Control and Optimization of Large-Scale Systems	ING-INF/04	1	CARLI RAFFAELE
Game Theory for Controlling Autonomous Systems	ING-INF/04	1	SCARABAGGIO PAOLO
Gaussian processes for modeling and control of robotics systems	ING-INF/04	2	DALLA LIBERA ALBERTO
Human Autonomous System Interaction	ING-INF/04	1	IARLORI SABRINA
Intelligent Supervisory Systems	ING-INF/04	2	SIMANI SILVIO
Introduction to autonomous systems	ING-INF/04	1	MIGNONI NICOLA
Learning in multi-agent systems	ING-INF/04	2	BASTIANELLO NICOLA

Linear algebra for control applications	ING-INF/04	2	PEZZUTO MATTHIAS
Non-integer order systems and controllers	ING-INF/04	1	MAIONE GUIDO
Variable Structure Control	ING-INF/04	1	USAI ELIO
Antenna Technology for 5G communications: propagation arrays and integration	ING-INF/02	1	MARASCO ILARIA
Design of optical fiber devices with Finite Element Method	ING-INF/02	1	ANELLI FRANCESCO
Electromagnetic design via professional softwares	ING-INF/02	1	LOCONSOLE ANTONELLA MARIA
Green Photonics for a sustainable economy	ING-INF/02	1	KHALID MUHAMMAD
Inertial sensors	ING-INF/01	2	DELL'OLIO FRANCESCO
Micromagnetic modeling	ING-IND/31	1	DAVI ROHE SALOMON DA ROSA RODRIGUES
Numerical Methods for Big Data	MAT/08	2	POPOLIZIO MARINA
Power Systems Simulation Tools	ING-IND/33	2	TRICARICO GIOACCHINO
Spintronics applications	ING-IND/31	1	MEO ANDREA
Business models for circular supply chains	ING-IND/35	2	MASSARI GIOVANNI FRANCESCO
From qualitative to quantitative methods in business research	ING-IND/35	2	ROTOLO DANIELE SANDRO
Human-based Smart Manufacturing Systems	ING-IND/17	2	LUCCHESI ANDREA
Lean production in the digital factory	ING-IND/17	2	SASSANELLI CLAUDIO
Management and Business research	ING-IND/35	2	MESSENI PETRUZZELLI ANTONIO
Smart and sustainable last-mile logistics	ING-IND/17	2	SILVESTRI BARTOLOMEO
Design of User Experience to exploit Extended Reality for the enhancement of research activities	ING-IND/15	2	GATTULLO MICHELE
Numerical Approaches to Solid and Applied Mechanics: Boundary Element Methods (BEM)	ING-IND/13	2	PUTIGNANO CARMINE
High-energy particle physics instruments and methods for space environment	FIS/01	2	PILLERA ROBERTA

Hypersonic aerothermodynamics modelling and simulation	ING-IND/06	2	BONELLI FRANCESCO
Identification and propagation of optical photons in different media	FIS/01	2	PANTALEO FRANCESCA ROMANA
Integrated photonics in space	ING-INF/01	2	CIMINELLI CATERINA
Introduction to space flights	ING-IND/05 ING-IND/35	2	SANTORO FRANCESCO
Optical communications for space	ING-INF/02	2	MARASCO ILARIA
Space Economy: past, present, future	ING-IND/35	2	VITTORI ROBERTO
Space logistics	ING-IND/35	2	AMORUSO LEONARDO
Analysis and management of heritage buildings: efficiency and innovative technologies	ICAR/10 – ICAR/12	2	LASSANDRO PAOLA
Characterization and modeling of light alloy	ING-IND/16	2	CUSANNO ANGELA
Indoor comfort evaluation	ING-IND/11	2	MARTELOTTA FRANCESCO
Mechanical models for masonry structures	ICAR/08	2	FRADDOSIO AGUINALDO
Numerical and heat transfer challenges in Thermal Energy storage	ING-IND/10 ING-IND/8	2	JAHANBIN AMINHOSSEIN
Resilient and secure (historic) built environment in a multi-hazard perspective	ICAR/10	2	CANTATORE ELENA
Smart building	ING-IND/11	2	STASI ROBERTO
Advanced Probabilistic Methods For The Reliability Analysis In Structural Engineering Problems	ICAR/09	2	NETTIS ANDREA
Advances in Geomatic Engineering	ICAR/06	2	SONNESSA ALBERICO
Cutting-edge Nanomaterials for Advanced Technologies	CHIM/07	1	LO PORTO CHIARA
Life Cycle Assessment for buildings	ICAR/11	1	CAVALIERE CARMINE
Soil-atmosphere interaction and slope stability: processes and numerical modelling	ICAR/02 e ICAR/07	2	PERRINI PASQUALE
Microwave Photonics for Smart Systems	ING-INF/01	2	BRUNETTI GIUSEPPE
Nanotecnologie per la transizione energetica	ING-IND/11	2	BERARDI UMBERTO

Photonics for Industry 4.0	ING-INF/02	2	MAGNO GIOVANNI
Real-time Simulation and Hardware-in-the-Loop testing for Smart Energy Systems	ING-IND/33	2	BRUNO SERGIO
Smart energy cities	ING-IND/11	2	BERARDI UMBERTO
Time-series databases for sensor data analysis	ING-INF/05	2	IEVA SAVERIO
Extended Experiences for Smart and Sustainable Industry	ING-IND/15	2	FIORENTINO MICHELE

Tabella 1.2 Insegnamenti per il quale è stata ricevuta una singola candidatura che copre parzialmente i CFU a bando.

Insegnamento	SSD	Collegio di dottorato proponente	CFU insegnamento bando	Nominativo Docente	CFU Docente
Empirical research on sustainable innovation and resilience	ING-IND/35	DRIG	2	PELLEGRINO ROBERTA	1
Dynamic identification and structural monitoring: fundamentals and applications to wind turbines	ICAR/08 – ICAR/09	DRISS	2	PINCHUK NATALIYA	1 MODULO A

Tabella n. 2 - più domande per la stessa materia.

Insegnamento	SSD	Collegio di dottorato proponente	CFU insegnamento bando	Nominativo Docente	CFU Docente
Spatio-Temporal dynamics of lasers: modelling and applications	FIS/03	DRISA	2	BRAMBILLA MASSIMO	2
Spatio-Temporal dynamics of lasers: modelling and applications	FIS/03	DRISA	2	AMATO LUIGI SANTAMARIA	2

Construction safety: legal and administrative aspects, technical standards	ICAR/08, IUS/17	DRISS	3	PICCIONI MARIO DANIELE	1 MODULO A
Construction safety: legal and administrative aspects, technical standards	ICAR/08, IUS/17	DRISS	3	SCARAVAGLIONE ROBERTO	1
Construction safety: legal and administrative aspects, technical standards	ICAR/08, IUS/17	DRISS	3	SISTO FRANCESCO PAOLO	1 MODULO C
Analysis and representation techniques for building research	ICAR/17	DRSATE	1	LA VITOLA NICOLA	1
Analysis and representation techniques for building research	ICAR/17	DRSATE	1	MAIORANO ANNA CHRISTIANA	1
Analysis and representation techniques for building research	ICAR/17	DRSATE	1	PASTORE DOMENICO	1
Gender studies	ING-IND/35		2	BERNARDI FLORIANA	1
Gender studies	ING-IND/35		2	DE SANTIS CHIARA	1
Innovative approaches and digital tools for ecological land planning	ICAR/20	CMCEI	2	CAMARDA DOMENICO	2
Innovative approaches and digital tools for ecological land planning	ICAR/20	CMCEI	2	GRASSINI LAURA	2

Laser scanning for architectural surveying. Techniques and applications.	ICAR/17	DRSATE	1	BULDO MICHELE	1
Laser scanning for architectural surveying. Techniques and applications.	ICAR/17	DRSATE	1	MAIORANO ANNA CHRISTIANA	1

Tabella n. 3 (docenza vacante)

Insegnamento	SSD
Contextual Design and Heritage: identity and material culture of the territories	ICAR/13
Design for Historical and Contemporary Heritage Landscapes	ICAR/14
Generative Algorithms: digital tools for parametric design and assessment of structures	ICAR/09
Theories and methods in structural design: modeling and experimental issues	ICAR/08
Fundamentals of Information Security and Data Privacy	IINF 05/A
Machine learning	IINF-05/A
Mechatronic Systems	IINF 04/A
A user- centered approach to Ergonomics assessment in the Industry 5.0 paradigm	ING-IND/15
Advanced Additive Manufacturing and Reverse Engineering design and processes for the twin transition	ING-IND/16
Design and management of research projects	ING-IND/17
Metaverse Integration for Digital Transformation of industry	ING-IND/15
Smart sustainable manufacturing	ING-IND/16
Acustica e Termoacustica	ING-IND/09
Hydraulic Turbomachines for Energy Recovery in Water Distribution Networks	ING-IND/09

Hydrogen for Sustainable Transportation Systems	ING-IND/08
Introduction to fluid-structure interaction	ING-IND/06
Offshore Wind Technologies	ING-IND/08
Optimization Theory	MAT/05
DoE and Robust Design applied to setup optimization for numerical and experimental testing	ING-IND/14
"Bio-residues and geomaterials for sustainable engineering: from multiscale characterization to mechanical improvement	ICAR/07
How to build an ontology that lasts for design matters	ICAR/20
Sustainable Mobility and Shared Mobility in a Smart Cities framework: optimization models and applications	ICAR/05
Elements of digital transition in civil engineering	ICAR/02
Innovative evaluation techniques to support the implementation and management of civil constructions	ICAR/22
Low carbon structural design and retrofitting of concrete infrastructures using advanced composites	ICAR/09
The architecture of construction	ICAR/12
The post-growth paradigm in planning research	ICAR/21
Linear and nonlinear Kalman filtering: theory and applications	ING-INF/04
Non-linear control	ING-INF/04
Electric power system markets and planning	ING-IND/33
Matlab recipes for measurement signal processing	ING-INF/07
Numerical Methods for Multidimensional Differential Problems	MAT/08
Supervision and monitoring of renewable energy systems	ING-IND/31
Adjoint methods for gradient-based optimisation and control of energy systems	ING-IND/08
Contact Mechanics	ING-IND/13
Digital Manufacturing for Biomedical Applications	ING-IND/16
Manufacturing modeling and simulation	ING-IND/16
Non-Destructive Testing (NDT) : Process, Types and Applications in Mechanical Engineering	ING-IND/14
Hydraulics for aircraft	ING-IND/08
Space Commercialization	ING-IND/35
Spacecraft Structural Dynamics & Loads	ING-IND/04
Bridges and critical infrastructures: seismic risk and wind-structure interaction	ICAR/09
Seismic risk of reinforced concrete buildings: innovative modeling, analysis, and mitigation strategies	ICAR/09
How to build an ontology that lasts for design matters (lab)	ICAR/20
Sustainable Technologies for Circular Economy in Waste Management	ING-IND/22
Energy storage	ING-IND/08
Microgrid structures and operation	ING-IND/33
NIR and MIR laser coupling with fibers	FIS01/FIS03/FIS07

Visti i CV dei candidati, La SCUDO delibera all'unanimità di:

- attribuire gli insegnamenti in Tabella 1.1 ai candidati che hanno risposto al bando;
- ribandire gli insegnamenti elencati in Tabella 1.2, per i quali non è stata raggiunta la copertura totale dei CFU;
- attribuire al Prof. Brambilla l'insegnamento "Spatio-Temporal dynamics of lasers: modelling and applications" (la SCUDO ha appreso posteriormente alla chiusura del bando che il medesimo insegnamento è stato attribuito come carico di didattico principale al Prof. Brambilla dal DIF - C.Dip del 23/5/25);
- attribuire l'insegnamento "Construction safety: legal and administrative aspects, technical standards" moduli A, B e C ai Proff. Piccioni, Scaravaglione, e Sisto, rispettivamente;
- Attribuire al prof. Pastore l'insegnamento "Analysis and representation techniques for building research";
- Attribuire l'insegnamento "Gender Studies", moduli A e B alle Proff. Bernardi e De Santis, rispettivamente;
- Attribuire l'insegnamento "Innovative approaches and digital tools for ecological land planning" al Prof. Camarda;
- Attribuire l'insegnamento "Laser scanning for architectural surveying. Techniques and applications" alla Prof.ssa Maiorano;
- Ribandire gli insegnamenti in Tab. 3.

ODG SUPP1) Riconoscimento CFU per i dottorandi partecipanti al percorso Binp4Venture

Il percorso BINP4Venture – Innovation Factory: dai talenti alle soluzioni (Edizione 2025), è stato approvato dal Senato Accademico del Politecnico di Bari nella seduta del 29 gennaio 2025, nell'ambito del progetto Patto Territoriale – Sistema universitario pugliese.

Il programma, coordinato dal prof. Antonio Messeni Petruzzelli e realizzato da BINP – Boosting Innovation in Poliba Scarl, si è articolato in cinque mesi di attività, suddivisi nei seguenti moduli formativi:

- Contaminazione imprenditoriale (1 CFU): introduzione ai principi di innovazione, design thinking e problem solving creativo;
- Immersione tecnologica (1 CFU): formazione su tecnologie abilitanti e metodologie di sviluppo applicate alle challenge aziendali;
- Business development (1 CFU): costruzione e validazione di modelli di business e analisi di mercato;
- Early-PoC development (3 CFU): sviluppo, test e validazione di prototipi in collaborazione con le imprese partner (Master Italy S.r.l., Cardio On Line Europe S.r.l. ed Edilportale S.p.A.).

La SCUDO esprime, all'unanimità, parere favorevole in merito al riconoscimento dei crediti deliberati dal Senato Accademico ai Dottorandi che seguiranno con profitto i singoli moduli del programma BINP4Venture.

P.5) Varie

Non emergono ulteriori punti di discussione. Pertanto, la seduta si scioglie alle ore 14:52. È redatto il presente verbale, che viene letto e approvato seduta stante all'unanimità.

Il Direttore

Il Segretario

A handwritten signature in blue ink, consisting of stylized, overlapping loops and a long horizontal stroke at the end.