

VERBALE DEL CONSIGLIO DELLA SCUOLA DI DOTTORATO DEL POLITECNICO DI BARI

Seduta n. 2/2026

del 10/4/2026

Il giorno 10/4/2026 alle ore 16:00, a seguito di convocazione del 16/3/2026, 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) Didattica dottorale 2026/2027

SUPP1) Supporto al processo di riesame di Ateneo 2026 – AVA 3

SUPP 2) PhD Day 2026

P.4) Varie

Sono presenti/assenti giustificati/assenti:

n	Nome e Cognome	Titolo	Presente	Assente Giustificato	Assente
1	Luigi Alfredo Grieco	Direttore della SCUDO e Rappresentante DEI	x		
2	Mario Carpentieri	Delegato alla ricerca Coordinatore di Dottorato di Ricerca in Ingegneria Elettrica e dell'Informazione	x		
3	Gabriella Pugliese	Rappresentante DIF		x	
4	Antonio Messeni Petruzzelli	Rappresentante DMMM Coordinatore di Dottorato di Ricerca in Ingegneria Gestionale		x	
5	Michele Notarnicola	Rappresentante DICATECh		x	
6	Francesco Defilippis	Rappresentante ARCOD	x		
7	Antonio Emmanuele Uva	Coordinatore di Dottorato di Ricerca in Ingegneria Meccanica ed Energetica	x		
8	Francesco Fiorito	Coordinatore di Dottorato di Ricerca in Rischio e Sviluppo Ambientale, Territoriale ed Edilizio	x		
9	Giuseppe Fallacara	Coordinatore di Dottorato di Ricerca in Progetto per il Patrimonio: Conoscenza, Tradizione e Innovazione		x	
10	Caterina Ciminelli	Coordinatore di Dottorato di Ricerca interateneo in	x		

		Ingegneria e Scienze Aerospaziali			
11	Salvatore Digiesi	Coordinatore di Dottorato di Ricerca interateneo in Smart and Sustainable Industry		x	
12	Mario Daniele Piccioni	Coordinatore di Dottorato di Ricerca in forma associata in Ingegneria per la Sostenibilità e la Sicurezza delle Costruzioni Civili e Industriali		x	
13	Orazio Giustolisi	Coordinatore di Dottorato di Ricerca in Change Management in Civil Engineering Infrastructures		x	
14	Mariagrazia Dotoli	Coordinatore di Dottorato di Ricerca di interesse nazionale in Autonomous Systems		x	
15	Giuseppe Casalino	Coordinatore di Dottorato di Ricerca in Ingegneria Meccanica e Gestionale		x	
16	Martina Campanella	Rappresentante Dottorandi	x		
17	Simona Semeraro	Rappresentante Dottorandi	x		

Il Prof. Carli partecipa in vece della Prof.ssa Dotoli e del Prof. Di Giesi. Il prof. Berardi partecipa in vece del Prof. Piccioni.

Alle ore 16:10, il Direttore, accertata la presenza del numero legale dei componenti, dichiara aperti i lavori del Consiglio. Viene nominato segretario il Prof. Fiorito.

P.1) Comunicazioni del Direttore

Il Direttore ringrazia il Consiglio della SCUDO per il lavoro svolto nel triennio, sottolineando che l'attuale assetto richiede:

- una unità di personale amministrativo dedicata per la gestione delle pratiche connesse alla didattica dottorale e all'assicurazione della qualità;
- la completa automazione su piattaforma web (es. esse3) della didattica dottorale, in completa analogia con i Corsi di Laurea Triennali e Magistrali.

P.2) Ratifiche

Nessuna ratifica.

P.3) Didattica dottorale 2026/2027

Sulla base delle proposte dei Collegi, si propongono all'unanimità i seguenti insegnamenti per i livelli 2 e 3.

Insegnamento	SSD	Livello	Panier e	Collegio di dottorato proponent e	CF U
Advanced Transportation Accessibility-Equity Assessment	CEAR-03/B	2	2	CMCEI	2
Complex Network Theory: Theory, Methods and Applications	CEAR-01/B	2	7	CMCEI	2
Innovative and recyclable methods and materials for Engineering applications	MATH-04/A	2	6	CMCEI	2
Smart IoT Systems for the Digital and Green Transition	IINF-03/A	2	3	CMCEI	2
Elements of digital transition in civil engineering	CEAR-01/B	3	/	CMCEI	2
Innovation of business models in the civil infrastructure sector	IEGE-01/A	3	/	CMCEI	2
Innovative approaches and digital tools for ecological land planning	CEAR-12/A	3	/	CMCEI	2
Low carbon structural design and retrofitting of concrete infrastructures using advanced composites	CEAR-07/A	3	/	CMCEI	2
Meteomarine forcing and design of maritime constructions	CEAR-01/B	3	/	CMCEI	2
Open Source and Innovative tools for simulating transport systems	CEAR-03/B	3	/	CMCEI	2
Road infrastructure for intelligent mobility	CEAR-03/A	3	/	CMCEI	2
Contextual Design and Heritage: identity and material culture of the territories	CEAR-08/D	2	5	CTI	2
Design for Historical and Contemporary Heritage Landscapes	CEAR-09/A	2	5	CTI	1
Historical research and study of the Ancient architecture	CEAR-11/A / ARCH-01/D	2	5	CTI	2
Stereotomic Design. New frontiers of stone architecture	CEAR-09/A	2	8	CTI	2
Theories and methods in structural design: modeling and experimental issues	CEAR-06/A	2	1	CTI	2
Theories and methods of design for the Antique	CEAR-09/A	2	5	CTI	2
Theories and techniques of the project for the fragile cities and territories	CEAR-09/A	2	6	CTI	1

Analysis and representation techniques for architectural research	CEAR-10/A	3	-	CTI	2
Historical research and study of contemporary architecture and city	CEAR-11/A ARCH-01/D	3	-	CTI	2
The architecture of construction	CEAR-08/C	3	-	CTI	2
The architecture of structural forms	CEAR-09/A	3	-	CTI	2
The post-growth paradigm in planning research	CEAR-12/B	3	-	CTI	2
Management of future telecommunication systems via pervasive intelligence	IINF-03/A	2	2	DRIEI	1
Optimization and control of smart energy systems	IINF 04/A	2	1	DRIEI	1
Game Theory for Controlling Autonomous Systems	IINF 04/A	3	-	DRIEI	1
OpenRAN Technologies for Enabling Sustainable and Intelligent 6G Networks	IINF 03/A	2	3	DRIEI	2
Power Systems Simulation Tools	IIND-08/B	2	6	DRIEI	2
Fundamentals of Information Security and Data Privacy	IINF 05/A	3	3	DRIEI	1
Additive Manufacturing for Modern ICT Systems	IINF 02/A	3	/	DRIEI	1
Deep Neural Networks	IINF 05/A	3	/	DRIEI	1
Design of optical fiber devices with Finite Element Method	IINF-02/A	3	/	DRIEI	1
Electromagnetic design via professional softwares	IINF-02/A	3	/	DRIEI	1
Introduction to Modern Generative AI	IINF-05/A	3	6	DRIEI	1
Non-integer order systems and controllers	IINF 04/A	3	-	DRIEI	1
Numerical Methods for Big Data	MATH/05	3	/	DRIEI	2
SILICON PHOTONICS MODULE 1: Fundamentals of Silicon Photonics MODULE 2: Photonic Integrated Circuits	IINF-01/A	3	-	DRIEI	2
Spintronics applications	IJET-01/A	3	/	DRIEI	1
Supervised Methods for Machine Learning	IINF-05/A	3	3	DRIEI	1
Techno-economic advancements in electric power system	IIND-08/B	3	-	DRIEI	2

A user- centered approach to Ergonomics assessment in the Industry 5.0 paradigm	IIND-03/B	2	4	DRIG	2
Advanced Additive Manufacturing and Reverse Engineering design and processes for the twin transition	IIND-04/A	2	8	DRIG	2
Mathematical methods in deep learning	MATH-03/A	2	1	DRIG	2
Smart sustainable manufacturing	IIND-04/A	2	7	DRIG	2
Technological changes and transition perspective	IEGE-01/A	2	8	DRIG	2
Empirical research on sustainable innovation and resilience	IEGE-01/A	3	/	DRIG	2
From qualitative to quantitative methods in business research	IEGE-01/A	3	/	DRIG	2
Human-based Smart Manufacturing Systems	IIND-05/A	3	/	DRIG	2
Lean production in the digital factory	IIND-05/A	3	/	DRIG	2
Management and Business research	IEGE-01/A	3	/	DRIG	2
Smart and sustainable last-mile logistics	IIND-05/A	3	/	DRIG	2
Conservation laws in continuum mechanics and traffic modeling	MATH-03/A	2	1	DRIME	2
Optimization Theory	MATH-03/A	2	1	DRIME	2
Contact Mechanics and Interfacial Phenomena	IIND-02/A	2	/	DRIME	2
Numerical Approaches to Solid and Applied Mechanics: Boundary Element Methods (BEM)	IIND-02/A	2	/	DRIME	2
Hydrogen for Sustainable Transportation Systems	IIND-06/A	3	-	DRIME	2
Introduction to fluid-structure interaction	IIND-01/F	3	-	DRIME	2
Offshore Wind Technologies	IIND-06/A	3	-	DRIME	2
Circular Manufacturing and Advanced Materials	IIND-04/A	3		DRIME	2
Introduction to finite volume methods for flow simulations using open source software	IIND-06/A	3		DRIME	2
Residual stress evaluation by X-ray diffractometry	IIND-03/A	3		DRIME	2
Response Surface Models and Advanced Optimization	IIND-04/A	3		DRIME	2

DoE and Robust Design applied to setup optimization for numerical and experimental testing	IIND-03/A	2	1	DRISA	2
Spatio-Temporal dynamics of lasers: modelling and applications	PHYS-03/A , PHYS-04/A	2	1	DRISA	2
Advanced Topics in Coding Theory	MATH-03/A	2	3	DRISA	2
High-energy particle physics instruments and methods for space environment	PHYS-01/A , PHYS-03/A	3	/	DRISA	1
Hypersonic aerothermodynamics modelling and simulation	IIND-01/F	3	/	DRISA	2
Identification and propagation of optical photons in different media	PHYS-01/A , PHYS-03/A	3	/	DRISA	1
Integrated photonics in space	IINF-01/A	3	/	DRISA	2
Optical communications for space	IINF-02/A	3	/	DRISA	2
Space Commercialization	IEGE-01/A	3	/	DRISA	2
Space Economy: past, present, future	IEGE-01/A	3	/	DRISA	2
Spacecraft Structural Dynamics & Loads	IIND-01/D	3	/	DRISA	2
Microwave Photonics in Space	IINF-01/A	3	/	DRISA	2
Construction safety: legal and administrative aspects, technical standards	CEAR-06/A, GIUR-14/A	2	6	DRISS	3
Energy Production: Storage, Emerging Technologies & Social Challenges	IIND-07/A	2	8	DRISS	2
Innovative devices for seismic risk protection	CEAR-07/A	2	6	DRISS	1
Numerical and experimental modelling of heat transfer	IIND-06/A IIND-07/B	2	1	DRISS	2
Restoration of Historical buildings	CEAR-11/B	2	5	DRISS	1
Characterization and modeling of light alloy	IIND-04/A	2	1	DRISS	2
Bridges and critical infrastructures: seismic risk and wind-structure interaction	CEAR-07/A	3	/	DRISS	2

Heritage building assesment and control	CEAR-08/A	3	/	DRISS	1
Indoor comfort evaluation	IIND-07/B	3	/	DRISS	1
Innovative materials	CEAR-06/A	3	/	DRISS	2
Innovative technologies for the built environment	CEAR-08/C	3	/	DRISS	1
Mechanical models for masonry structures	CEAR-06/A	3	/	DRISS	2
Smart building	IIND-07/B	3	/	DRISS	1
Tensegrity structures:fundamentals and analytical model	CEAR-06/A	3	/	DRISS	1
Application of Cutting-Edge Methods in Structural Engineering	CEAR-07/A	2	6	DRSATE	2
Mechanics of innovative microstructured materials and generalized continua	CEAR-06/A	2	6	DRSATE	2
Microwave-Assisted Processes	CHEM-06/A	2	6	DRSATE	2
Resilient railway transport systems	CEAR-03/B	2	2	DRSATE	2
Advances in Geomatic	CEAR-04/A	3	/	DRSATE	2
Resilient and secure (historic) built environment in a multi-hazard perspective	CEAR-08/A	3	/	DRSATE	2
Sustainable Technologies for Circular Economy in Waste Management	IMAT-01/A	3	/	DRSATE	2
Advanced methods in hydroclimatic analysis of groundwater systems	CEAR-01/B	3	/	DRSATE	2
Research and Tools in Risk and Environmental, Territorial and Building Development	Tutti gli SSD del DRSATE	3	/	DRSATE	2
Soil Suction in Unsaturated Soil Mechanics: Fundamentals and Measurement	CEAR-05/A	3	/	DRSATE	2
Towards decarbonization of buildings in the digital transition	CEAR-08/B	3	/	DRSATE	2
Advancing Fiber Optic Technologies for Biosensing	IINF-01/A	2	3	SSI	2
Fundamentals of Radio Localization and Sensing	IINF-03/A	2	3	SSI	2
Physical Layer Security for wireless communication	IINF-02/A	2	3	SSI	2
Real-time Simulation and Hardware-in-the-Loop testing for Smart Energy Systems	IIND-08/B	2	1	SSI	2
Smart zero-energy buildings	IIND-07/B	2	6	SSI	2
AI for ENERGY MANAGEMENT and ENERGY SAVING	IIND-07/B	3	/	SSI	2

Deep Reinforcement Learning for Control of Autonomous Systems	IINF-04/A	3	/	SSI	1
Distributed/Decentralized Control and Optimization of Large-Scale Systems	IINF-04/A	3	/	SSI	1
Modeling and Control of Underwater Robots	IINF-04/A	3	/	SSI	2
Photonics for Industry	IINF-02/A	3	/	SSI	2
Sensing Technologies: advanced materials and characterization techniques	CHEM-01/A	3	/	SSI	2
Time-series databases for sensor data analysis	IINF-05/A	3	/	SSI	2
Legenda Panieri:					
1.Modellazione, Simulazione Numerica e Sperimentazione					
2.Mobilità e Infrastrutture Terrestri e Non Terrestri					
3.Connettività, Cyber Security e Resilienza					
4.Salute, benessere e società					
5.Patrimonio Architettonico, Urbano-Paesaggistico e della Cultura materiale					
6.Sostenibilità e Sicurezza: Materiali, Strutture, Ambiente, ed Energia					
7.Transizione Digitale					
8.Innovazione Organizzativa, Produttiva, Tecnologica, Sociale, e di Business					

Il Consiglio della SCUDO propone all'unanimità i seguenti insegnamenti di Livello 1

INSEGNAMENTO	SSD	Livello	Paniere	Collegio di dottorato proponente	CFU
AI and creativity	CEAR-09/A	1	/	CTI	1.5
Theory of formativeness	CEAR-09/A	1	/	CTI	1.5
Research Methodology	IJET-01/A	1	/	DRIEI	1.5
Design and management of research projects	IIND-05/A	1	/	DRIG	1.5
Introduction to probability and statistical inference	MATH-03/A	1	/	DRIG	1.5
Introduction to partial differential equations and applications	MATH-03/A	1	/	DRIME	1.5
How to build an ontology that lasts for design matters	CEAR-12/A	1	/	DRSATE	1.5
Gender studies	IEGE-01/A	1	/		1.5

SUPP1) Supporto al processo di riesame di Ateneo 2026 – AVA 3

Si propone di ridiscutere il punto nella prossima adunanza.

SUPP2) PhD Day 2026

La SCUDO approva all'unanimità la proposta di PhD Day 2026 formulata dal prof. Carpentieri, con la precisazione di trovare modalità inclusive per la premiazione dei Dottorandi del 38° Ciclo. L'evento potrebbe essere anche valorizzato in chiave di orientamento.

P.4) Varie

Non emergono ulteriori punti di discussione. Pertanto, la seduta si scioglie alle ore 16:45. È redatto il presente verbale, che viene letto e approvato seduta stante all'unanimità.

Il Direttore

Il Segretario
