

## Seasonal School (2<sup>nd</sup> edition) on 5G/6G networks transforming the digital society (ARTIST)

	Mon, 30/1/2023	Tue, 31/1/2023	Wed, 1/2/2023	Thu, 2/2/2023	Fri, 3/2/2023
<b>Venue</b>	TECIP (White Room)	TECIP (White Room)	TECIP (White Room)	TECIP (White Room)	TECIP (Laboratories, 1 <sup>st</sup> floor)
<b>Session Name</b>	<b>Cellular architectures</b>	<b>Networking Technologies</b>	<b>Advanced Networking Technologies</b>	<b>Interdisciplinary Perspectives on Technologies</b>	<b>5G Services</b>
<b>09:00-10:00</b>	Welcome and School program (Prof. Castoldi, Prof. Valcarenghi)	SDN/NFV programmable networks (Prof. Castoldi)	Zero-touch-5G Networks (Prof. Valcarenghi)	5G and beyond: a European view (Dr. Cerutti, Joint Research Center)	5G services, based on eMBB/ULLRC/mMTC (Prof. Castoldi)
<b>10:00-11:00</b>	Cellular and wireless architecture (Prof. Castoldi)	SDN/NFV programmable networks (Prof. Castoldi)	Zero-touch-5G Networks (Prof. Valcarenghi)	Industry 4.0 (Dr. Maggiani, Sma-rtly)	5G services, based on eMBB/ULLRC/mMTC (Prof. Castoldi)
<b>11:00-12:00</b>	Cellular and wireless architecture (Prof. Castoldi)	Disaggregated Optical Networks (Ing. Cugini)	P4-based traffic conditioning (Dr. Paolucci)	Economic Impact of 5G/6G networks (Prof. Tenucci)	e-health and Telemedicine (Prof. Castoldi)
<b>12:00-13:00</b>	Cellular and wireless architecture (Prof. Castoldi)	Disaggregated Optical Networks (Ing. Cugini)	Network Telemetry (Dr. Sgambelluri)	Data protection issues in 5G Networks (Prof.ssa Gagliardi)	e-health and Telemedicine (Prof. Castoldi)
<b>13:00-14:00</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>Venue</b>	TECIP (White Room)	TECIP (White Room and Lab)	TECIP (White Room and Lab)	TECIP (White Room and Lab)	TECIP (White Room and Lab)
<b>Session Name</b>	<b>5G architecture and transport</b>	<b>Topical lecture &amp; Hands-on session</b>	<b>Topical lecture &amp; Hands-on session</b>	<b>Topical lecture &amp; Hands-on session</b>	<b>Topical lecture &amp; Hands-on session</b>
<b>14:00-15:00</b>	5G Standards and evolution (Prof. Valcarenghi)	5G electromagnetic pollution: myth or reality (Prof. Chiaraviglio)	Power consumption (Prof. Castoldi)	Time-Sensitive Networking (Dr. Sambo)	AI-driven vehicle control (Prof. Valcarenghi)
<b>15:00-16:00</b>	5G Standards and evolution (Prof. Valcarenghi)	Hands-on environment set-up and warm-up	Hands-on session (Topic: P4) Supervisors: Dr.. Sgambelluri, Dr. Paolucci, (D. Scano)	Hands-on session (Topic: Telemetry) Supervisors: Dr.. Sgambelluri, (A. Pacini)	Hands-on session (Topic: AI) Supervisors: Prof. Valcarenghi, Dr. Sgambelluri (E. Paolini)
<b>16:00-17:00</b>	Backhaul optical networking (Prof. Valcarenghi)	Hands-on session (Topic: RAN) Supervisors: Prof. Valcarenghi, Prof. Castoldi (J. Borromeo)	Hands-on session (Topic: P4) Supervisors: Dr.. Sgambelluri, Dr. Paolucci, (D. Scano)	Hands-on session (Topic: Telemetry) Supervisors: Dr.. Sgambelluri, (A. Pacini)	Hands-on session (Topic: AI) Supervisors: Prof. Valcarenghi, Dr. Sgambelluri (E. Paolini)
<b>17:00-18:00</b>	Backhaul optical networking (Prof. Valcarenghi)	Hands-on session (Topic RAN) Supervisors: Prof. Valcarenghi, Prof. Castoldi (J. Borromeo)	Hands-on session (Topic: P4) Supervisors: Dr.. Sgambelluri, Dr. Paolucci, (D. Scano)	Hands-on session (Topic: Telemetry) Supervisors: Dr.. Sgambelluri, (A. Pacini)	Hands-on session (Topic: AI) Supervisors: Prof. Valcarenghi, Dr. Sgambelluri (E. Paolini)
<b>Evening</b>	<i>Get-together At Sant'Anna Main Building</i>				Closing remarks

The Final Exam will be based on reports on hands-on session and lectures and it will be taken after one week.