

## Seasonal School on 5G/6G networks transforming the digital society (ARTIST)

	Mon, 31/1/2022	Tue, 1/2/2022	Wed, 2/2/2022	Thu, 3/2/2022	Fri, 4/2/2022
<b>Venue</b>	TECIP (Blue Room)	TECIP (Blue Room)	TECIP (Blue Room)	TECIP (Blue Room)	TECIP (Laboratories, 1 <sup>st</sup> floor)
<b>Session Name</b>	<b>Cellular architectures</b>	<b>Networking Technologies</b>	<b>Networking Services</b>	<b>Advanced 5G Applications</b>	<b>Hands-on session</b>
<b>09:00-10:00</b>	Welcome and self-introduction, School program (Prof. Castoldi, Prof. Valcarenghi)	SDN/NFV programmable networks (Prof. Castoldi)	5G services, based on eMBB/ULLRC/mMTC/MEC (Prof. Castoldi)	e-health and Telemedicine (Prof. Castoldi)	Team Building and Lab Tour (Prof. Castoldi/Prof. Valcarenghi)
<b>10:00-11:00</b>	Evolution of cellular system and the networking echo-system (Prof. Castoldi)	SDN/NFV programmable networks (Prof. Castoldi)	5G services, based on eMBB/ULLRC/mMTC/MEC (Prof. Castoldi)	e-health and Telemedicine (Prof. Castoldi)	Hands-on sessions, up to 3 Groups. Supervisors: Dr.. Sgambelluri, Ing. Pacini, Dr. Cecchetti, Dr. Ruscelli, Dr. Paolucci, Ing. Scano.
<b>11:00-12:00</b>	Cellular and wireless architecture (Prof. Castoldi)	Disaggregated Optical Networks (Ing. Cugini)	Zero-touch-5G Networks (Prof. Valcarenghi)	5G electromagnetic pollution: myth or reality (Prof. Chiaraviglio, UNIRM2)	Hands-on sessions, up to 3 Groups. Supervisors: Dr.. Sgambelluri, Ing. Pacini, Dr. Cecchetti, Dr. Ruscelli, Dr. Paolucci, Ing. Scano.
<b>12:00-13:00</b>	Cellular and wireless architecture (Prof. Castoldi)	Disaggregated Optical Networks (Ing. Cugini)	Zero-touch-5G Networks (Prof. Valcarenghi)	Guided Tour Communication Area Labs (Prof. Castoldi)	Hands-on sessions, up to 3 Groups. Supervisors: Dr.. Sgambelluri, Ing. Pacini, Dr. Cecchetti, Dr. Ruscelli, Dr. Paolucci, Ing. Scano.
<b>13:00-14:00</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>Session Name</b>	<b>5G architecture and transport</b>	<b>Advanced Networking Technologies</b>	<b>Advanced 5G Applications</b>	<b>EU/Industrial perspective</b>	<b>Supervised time to wrap-up hands-on sessions</b>
<b>14:00-15:00</b>	5G Standards and evolution (Prof. Valcarenghi)	P4-based traffic conditioning (Dr. Paolucci)	5G for logistics (Ing. Martini)	5G and beyond: a European view (Dr. Cerutti, Joint Research Center)	Student Groups prepare presentation about hands-on sessions
<b>15:00-16:00</b>	5G Standards and evolution (Prof. Valcarenghi)	Power consumption (Prof. Castoldi)	AI-driven vehicle control (Prof. Valcarenghi)	Industrial case by Ericsson (Ing. Sabella)	Student Groups prepare presentation about hands-on sessions
<b>16:00-17:00</b>	Backhaul optical networking (Prof. Valcarenghi)	Network Telemetry (Dr. Sgambelluri)	Road user localization (Dr. Cecchetti)	Industrial case by WindTre (TBC)	Student Groups prepare presentation about hands-on sessions
<b>17:00-18:00</b>	Backhaul optical networking (Prof. Valcarenghi)	Time-Sensitive Networking (Dr. Sambo)	Industry 4.0 (Dr. Maggiani, Sma-rtty)	B5G towards 6G (Telecom Italia, TBC)	Closing Remarks (Prof. Castoldi, Prof. Valcarenghi)
<b>Evening</b>	<i>Get-together At Sant'Anna Main Building</i>				