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## 1<sup>st</sup> Intensive Course on Critical Skills for Engineers 2020

1<sup>st</sup> – 5<sup>th</sup> of April 2019

**Venue:** Aalborg University, Copenhagen, Denmark

**Address:** A.C. Meyers Vaenge :15, 2540 Copenhagen SV, Denmark

**Venue in Google Maps:**

All the lectures will be video recorded and be uploaded onto the program's Youtube Channel

<b>31 March 2019</b>	Arrival of the Participants
<b>1 April 2019</b>	
<b>09:00 - 10:00</b>	Introduction to Robotics ( Ass. Professor L. Doitsidis, TEIoC)
<b>10:00 - 11:00</b>	Introduction to Robotics ( Ass. Professor L. Doitsidis, TEIoC)
<b>11:00 - 11:15</b>	Coffee Break
<b>11:15 - 12:15</b>	Introduction to Programming for Robotics (Dr. T. Kounalakis, AAU)
<b>12:15 - 13:30</b>	Lunch Break
<b>13:30 - 14:30</b>	Introduction to Programming for Robotics (Dr. T. Kounalakis, AAU)
<b>14:30 - 15:30</b>	Introduction to Artificial Intelligence (Researcher Bruno Cunha, IPP)
<b>15:30 - 16:30</b>	Introduction to Artificial Intelligence (Researcher Bruno Cunha, IPP)
<b>1630 - 1800</b>	Poster Session
<b>2 April 2019</b>	
<b>09:00 - 10:00</b>	The Project-Oriented Problem-Based Learning Model (Ass. Prof. E. Triantafyllou, AAU)
<b>10:00 - 11:00</b>	The Project-Oriented Problem-Based Learning Model (Ass. Prof. E. Triantafyllou, AAU)
<b>11:00 - 11:15</b>	Coffee Break
<b>11:15 - 12:15</b>	Introduction to the courses and activities of the AAU Research Academy (AAU Research Academy)
<b>12:15 - 13:30</b>	Lunch
<b>13:30 - 14:30</b>	How to write, present and present your work (Ass. Prof. K. Petridis, TEIoC)
<b>14:30 - 15:30</b>	An Introduction to Graphene & 2D Materials (Prof. Adam BABIŃSKI, UW)
<b>15:30 - 16:30</b>	An Introduction to Graphene Based Solar Cells (Ass. Professor K. Petridis, TEIoC)
<b>3 April 2019</b>	
<b>09:00 - 10:00</b>	An Introduction to Quantum Computing (Dr hab. Andrzej DRAGAN, UW)
<b>10:00 - 11:00</b>	An Introduction to Quantum Computing (Dr hab. Andrzej DRAGAN, UW)
<b>11:00 - 11:15</b>	Coffee Break
<b>11:15 - 12:15</b>	Teaching with PBL: The Aalborg Model (Ass. Prof. E. Triantafyllou, AAU)
<b>12:15 - 13:30</b>	Lunch Break
<b>13:30 - 14:30</b>	Teaching with PBL: The Aalborg Model (Ass. Prof. E. Triantafyllou, AAU)
<b>14:30 - 15:30</b>	Scientific Writing Principles (Dr. K. Zourou, W2L)

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<b>15:30 - 16:30</b>	Open Science & Why Should you care? (Part I) / How reproducible is your Research (Part II) – Open Science Clinique, FOSTER Network
<b>16:30 - 17:30</b>	Research Papers vs Research 'Outputs' (Part I) / Why if you could publish just three papers (Part II) – Foster Network To be announced – AAU Humanomics, Research Group (AAU)
<b>4 April 2019</b>	
<b>09:00 – 10:00</b>	An Introduction to Entrepreneurship (R. Tavio, EVM)
<b>10:00 – 11:00</b>	An Introduction to Project Management (R. Tavio, EVM)
<b>11:00 – 11:15</b>	Coffee Break
<b>11:15 – 12:15</b>	An Introduction to 5G Communications (Associate Prof. E. Kokkinos, TEIoC)
<b>12:15 – 13:30</b>	Lunch Break
<b>13:30 – 14:30</b>	Overview of IoT (P. Degreeef, Thomas More)
<b>14:30 – 15:30</b>	How IoT introduces vulnerabilities in your network (P. Degreeef, Thomas More) / Demonstration of a sensor network, using node – RED and MQTT to measure, exchange and store measurement data (S. Verbruggen, Thomas More)
<b>15:30 – 16:30</b>	Principles of Blended Teaching (Adj. Prof. Ricardo Almeida, IPP)
<b>1630 - 1800</b>	Lab Tour within AAU: Multi – Sensory Experience Lab, Light Lab, Augmented Cognition Lab, Student Group Rooms
<b>5 April 2019</b>	
<b>09:00 - 10:00</b>	<b>Exams</b>
<b>10:00 - 11:00</b>	<b>Exams</b>
<b>11:00 - 11:15</b>	Coffee Break
<b>11:15 - 11:45</b>	Evaluation of the IC activities
<b>11:45 - 13:00</b>	Certificate Ceremony & Farewell Lunch
<b>13:00 - 17:30</b>	<b>CRETE project meeting</b>
<b>18:00</b>	Dinner for the meeting participants

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