



## SeA Virtual Meeting

### Schedule - Timetable

Monday 22 Nov 2021 Timetable (CET)	
08:30 - 09:30	Welcome
09:30 – 10:00	<b>Ice Breaker</b> Students present themselves with a song, a movie, a serie, a text, a poem (max 1 min) (pretask)  <b>Project status</b> Where we are, what should we do?  <b>Arduino Intro</b> PPT presentation Use of virtual Arduino circuits – Tinkercad
10:00 – 10:30	<b>Break</b>
10:30 – 12:00	<b>Arduino workshop #1</b> <ol style="list-style-type: none"><li>1. Blinking Led + Button (<i>Activities 1 &amp; 2</i>)</li><li>2. Use of Photoresistor (LDR) (<i>Activity 3</i>)</li></ol>
12:00 – 12:30	<b>Break</b>
12:30 – 14:00	<b>Ecological footprint activity</b>  Quiz: <a href="#">The most effective ways to curb climate change might surprise you</a>  How we did it – Short presentation

Tuesday 23 Nov 2021 Timetable	
08:30 - 10:00	<b>Arduino workshop #2</b> <ol style="list-style-type: none"><li>3. Temperature sensor DTH11 (<i>Activity 4</i>)</li><li>4. Ultrasonic sensor (HC-SR04) (<i>Activity 5</i>)</li></ol>
10:00 – 10:30	<b>Break</b>
10:30 – 12:00	<b>Arduino workshop #3</b> <ol style="list-style-type: none"><li>4. Ultrasonic sensor (HC-SR04) (<i>Activity 5</i>)</li><li>5. Servo motor (SG90) + Buzzer + Potentiometer (<i>Activity 6</i>)</li></ol>
12:00 – 12:30	<b>Break</b>
12:30 – 13:30	<b>Resume</b> What should we do/use in our project?

Wednesday 24 Nov 2021 Timetable	
08:30 - 09:30	Submarine construction - 3D modelling What we have done till now, proposal of a new approach, easy to construct and apply
09:30 – 10:00	Test your knowledge about climate change Kahoot Quiz Game
10:00 – 10:30	<b>Break</b>
10:30 – 12:00	Climate change Activity - Mentimeter + Web presentations <ol style="list-style-type: none"> <li>1) <a href="#">Seven things to know about climate change</a> (NATIONAL GEOGRAPHIC)</li> <li>2) <a href="#">What's really warming the world?</a> (Bloomberg Businessweek)</li> <li>3) <a href="#">Climate Time Machine</a> (NASA)</li> <li>4) <a href="#">How much hotter is your hometown than when you were born?</a> (New York Times)</li> </ol> <p>Waste collection activity Short presentation of “Adopt a beach” WWF program in Greece</p> <p>Group mixing Fine-tuning the ecological footprint, awareness-raising newsletter, feedback from the conference etc.</p>
12:00 – 12:30	<b>Break</b>
12:30 – 13:30	Resume Questions – <a href="#">Evaluation of the meeting</a>

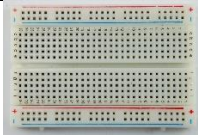











Evaluation of the meeting <https://forms.gle/7mMHdYp5PjKyC9PN8>

## Arduino Sessions

**Arduino Intro:** Introduction to Arduino. PPT presentation. Ports and connections. Programming Arduino, IDE environment. Possible use of **TinkerCad** for simple virtual projects.

**Arduino workshop #1 (1,2), #2 (3,4), #3 (4,5) (optional workshop #4, 6,7):**

1. Blinking Led + Button
2. Use of Photoresistor (LDR)
3. Temperature sensor DTH11
4. Ultrasonic sensor (HC-SR04)
5. Servo motor (SG90) + Buzzer + Potentiometer
6. *Infrared sensor (IR sensor) – Obstacle detection (Optional)*
7. *Tilt switch (Optional)*

Arduino components for the workshops		
 <p>Breadboard</p>	 <p>Photoresistor (LDR)</p>	 <p>Tilt switch (optional)</p>
 <p>Temperature sensor DHT11</p>	 <p>Brown Wire (GND) Red Wire (VCC) Orange Wire (PWM) Output Shaft</p> <p>Servo motor SG90</p>	 <p>IR sensor (optional)</p>
 <p>Resistors 3 x 220 Ω 1x 10 kΩ</p>	 <p>HC-SR04</p>	 <p>2 x Red leds</p>
 <p>Piezo Buzzer</p>	 <p>GND VCC OUTPUT</p> <p>Potentiometer 10k</p>	 <p>Push Button</p>