

# WACOMA optional modules preliminary timetable (University of Cadiz)

School year 2019-2020

**IMPORTANT NOTE: The modules acronyms indicate the Block number and the module number within that block (e.g., B01\_M01 stands for Block 1, module 1), following the WACOMA Teaching Scheme below:**

## **BLOCK 1: Chemical Analysis of Water Quality**

1. Weight of evidence: Assessment of chemical contamination in aquatic environments
2. Chemical and ecotoxicological guidelines for management of dredged materials in open waters
3. Sensitive tools for the assessment of environmental and human risk
4. Environmental assessment and management of accidental spill in littoral ecosystems
5. Tools for hazard assessment of chemical and complex environmental media

## **BLOCK 2: Ecotoxicological evaluation of Risk in Water and Coastal Management**

1. Ecotoxicity tests in Risk Assessment
2. Bioavailability and bioaccumulation: Keys for the quality of ecosystems
3. Integrated tools to determine environmental quality
4. Integrative assessment of sediment quality in aquatic ecosystems
5. General methodology to assess quality of coastal ecosystems

## **BLOCK 3: Geochemistry**

1. Basis for sediments and dredged material management
2. Coastal land subsistence effects on freshwater resources and flood risk
3. Coastal flooding hazard
4. Hydrometeorological hazard and risk at the coastal zones
5. Land reclamation and drainage effect and feedback with water freshening and salinization
6. Quarrying and mining activities impacts on water quality

## **BLOCK 4: Environmental Legislation**

1. Marine Strategy Directive Framework
2. Conflict resolution
3. Communication Science
4. Beach nourishment as a management tool
5. Integrative Management of wetlands and harbours
6. Coastal Cities planning guidelines
7. The Water Framework Directive
8. Sustainable development UN: Goal 6 and Goal 14
9. Conventions (RAMSAR, Regional Seas, OSPAR, HELQOM, UNEP)

## **BLOCK 5: Biology of aquatic organisms**

1. Microbial potential for the attenuation of contaminants in coastal ecosystems and bioremediation

2. Alien species
3. Biological tools for coastal management
4. Remote sensing: algal booms
5. Integrated water resources and natural areas management in the coastal zone

**BLOCK 6: Environmental Impact and Management**

1. Modeling physical-biological processes
2. Climate change and extreme events effect on flood hazard
3. Techniques for the diagnosis on ICZM process
4. Salt marshes for flood risk management strategies
5. Complex satellite monitoring of coastal zones
6. Coastal and marine areas: managing complex systems
7. Natural Hazard (SENDAI)
8. Remote sensing: management applications

**SOFT SKILLS (only for second year students!)**

- SS1. Proposal writing
- SS2. Scientific paper writing
- SS3. Literature review
- SS4. Data bank searching
- SS5. Data management and interpretation
- SS6. Geomatics and GIS
- SS7. Fieldwork skills

**OCTOBER 2019 - Only for SECOND year students – please, confirm time range with the lecturers**

Time	Mon 14	Tues 15	Wed 16	Thurs 17	Fri 18
9:00-10:00	SS7 (theory)	SS7 (field work)	SS7 (field work)	SS7 (lab work)	SS7 (lab work)
10:00-11:00					
11:00-12:00					
12:00-13:00					
13:00-14:00					
14:00-15:00					
15:00-16:00					
16:00-17:00					
17:00-18:00					
18:00-19:00					

**JANUARY 2020 - Only for SECOND year students**

Time	Mon 13	Tues 14	Wed 15	Thurs 16	Fri 17
9:00-10:00	SS1	SS1	SS1	SS1	SS1
10:00-11:00					
11:00-12:00					
12:00-13:00					
13:00-14:00					
14:00-15:00					
15:00-16:00					
16:00-17:00	SS2	SS2	SS2	SS2	SS2
17:00-18:00					
18:00-19:00					

**JANUARY 2020 - Only for SECOND year students**

Time	Mon 20	Tues 21	Wed 22	Thurs 23	Fri 24
9:00-10:00	SS4	SS4	SS4	SS4	SS4
10:00-11:00					
11:00-12:00					
12:00-13:00					
13:00-14:00					
14:00-15:00					
15:00-16:00					
16:00-17:00	SS3	SS3	SS3	SS3	SS3
17:00-18:00					
18:00-19:00					

**JANUARY 2020 - Only for SECOND year students**

Time	Mon 27	Tues 28	Wed 29	Thurs 30	Fri 31	
9:00-10:00	SS5	Bank holiday	SS5	SS5	SS5	
10:00-11:00						
11:00-12:00						
12:00-13:00						
13:00-14:00						
14:00-15:00						
15:00-16:00	SS6			SS6	SS6	
16:00-17:00						
17:00-18:00						
18:00-19:00						

----- From here onward: Modules for FIRST year students & Drones course -----

**JANUARY 2020**

Time	Mon 17	Tues 18	Wed 19	Thurs 20	Fri 21
9:00-10:00	Student's resident permits	Student's resident permits	Reserved for Spanish course (to be confirmed)		
10:00-11:00					
11:00-11:30					
12:00-13:00					
13:00-13:30					
13:30-14:30					
14:30-15:30					
15:30-16:30					
16:30-17:30					
17:30-18:30					
18:30-19:30					
19:30-20:30					

**FEBRUARY 2020: 24<sup>th</sup> to 28<sup>th</sup>, Bank Holiday (Carnival)**

**MARCH 2020**

Time	Mon 02	Tues 03	Wed 04	Thurs 05	Fri 06
8:30-9:30	Bank holiday??	B05_M01	B05_M01	B05_M01	B05_M01
9:30-10:30					
10:30-11:30					
11:30-12:30					
12:30-13:00					
13:00-14:00					
14:00-15:00		Reserved for Spanish course (to be confirmed)			
15:00-16:30					
16:30-17:30					
17:30-18:30					
18:30-19:30					

Time	Mon 9	Tues 10	Wed 11	Thurs 12	Fri 13
8:30-9:30	B04_M04	B04_M04	B04_M04	B04_M04	B04_M04
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B02_M01	B02_M01	B02_M01	B02_M01	B02_M01
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B04_M01	B04_M01	B04_M01	B04_M01	B04_M01
17:30-18:30					
18:30-19:30					

**MARCH 2020**

Time	Mon 16	Tues 17	Wed 18	Thurs 19	Fri 20
8:30-9:30	B03_M03	B03_M03	B03_M03	B03_M03	B03_M03
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B02_M02	B02_M02	B02_M02	B02_M02	B02_M02
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B04_M07	B04_M07	B04_M07	B04_M07	B04_M07
17:30-18:30					
18:30-19:30					

**MARCH 2020**

Time	Mon 23	Tues 24	Wed 25	Thurs 26	Fri 27
8:30-9:30	B01_M03	B01_M03	B01_M03	B01_M03	B01_M03
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B02_M04	B02_M04	B02_M04	B02_M04	B02_M04
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B05_M04	B05_M04	B05_M04	B05_M04	B05_M04
17:30-18:30					
18:30-19:30					

**MARCH - APRIL 2020**

Time	Mon 30	Tues 31	Wed 01	Thurs 02	Fri 03
8:30-9:30	B01_M04	B01_M04	B01_M04	B01_M04	B01_M04
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B02_M03	B02_M03	B02_M03	B02_M03	B02_M03
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B04_M06	B04_M06	B04_M06	B04_M06	B04_M06
17:30-18:30					
18:30-19:30					

**APRIL 2020: 6<sup>th</sup> to 12<sup>th</sup>, Bank Holiday (Easter)**

**APRIL 2020**

Time	Mon 13	Tues 14	Wed 15	Thurs 16	Fri 17
8:30-9:30	B01_M05	B01_M05	B01_M05	B01_M05	B03_M06 (field trip)
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B02_M05	B02_M05	B02_M05	B02_M05	
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B01_M05	B02_M05	B03_M06	B03_M06	
17:30-18:30					
18:30-19:30					

**APRIL 2020**

<b>Time</b>	<b>Mon 20</b>	<b>Tues 21</b>	<b>Wed 22</b>	<b>Thurs 23</b>	<b>Fri 24</b>
8:30-9:30	B04_M02	B04_M02	B04_M02	B04_M02	B04_M02
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B05_M01	B05_M01	B05_M01	B05_M01	B05_M01
13:00-13:30					
14:00-15:00					
15:00-15:30					
16:30-17:30	B04_M08	B04_M08	B04_M08	B04_M08	B04_M08
17:30-18:30					
18:30-19:30					

**APRIL - MAY 2020**

<b>Time</b>	<b>Mon 27</b>	<b>Tues 28</b>	<b>Wed 29</b>	<b>Thurs 30</b>	<b>Fri 01</b>
9:00-10:00					Bank holiday
10:00-11:00	Reserved for Spanish course (to be confirmed)				
11:00-11:30					
12:00-13:00					
13:00-13:30					
13:00-14:00					
14:00-15:00					
15:00-16:30	Course: "Drones for coastal management"				
16:30-17:30					
17:30-18:30					
18:30-19:30					

**MAY 2020**

<b>Time</b>	<b>Mon 04</b>	<b>Tues 05</b>	<b>Wed 06</b>	<b>Thurs 07</b>	<b>Fri 08</b>
8:30-9:30	B06_M03	B06_M03	B06_M03	B06_M03	B06_M03
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B06_M08	B06_M08	B06_M08	B06_M08	B06_M08
13:00-13:30					
14:00-15:00					
15:00-15:30					
16:30-17:30	Course: "Drones for coastal management"				
17:30-18:30					
18:30-19:30					

**MAY 2020**

<b>Time</b>	<b>Mon 11</b>	<b>Tues 12</b>	<b>Wed 13</b>	<b>Thurs 14</b>	<b>Fri 15</b>
8:30-9:30	B01_M01	B01_M01	B01_M01	B01_M01	B01_M01
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B05_M03	B05_M03	B05_M03	B05_M03	B05_M03
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B04_M09	B04_M09	B04_M09	B04_M09	B04_M09
17:30-18:30					
18:30-19:30					

**MAY 2020**

<b>Time</b>	<b>Mon 18</b>	<b>Tues 19</b>	<b>Wed 20</b>	<b>Thurs 21</b>	<b>Fri 22</b>
8:30-9:30	B04_M05	B04_M05	B04_M05	B04_M05	B04_M05
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B05_M05	B05_M05	B05_M05	B05_M05	B05_M05
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B04_M03	B04_M03	B04_M03	B04_M03	B04_M03
17:30-18:30					
18:30-19:30					

**MAY 2020**

<b>Time</b>	<b>Mon 25</b>	<b>Tues 26</b>	<b>Wed 27</b>	<b>Thurs 28</b>	<b>Fri 29</b>
8:30-9:30	B06_M06	B06_M06	B06_M06	B06_M06	B06_M06
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B06_M05	B06_M05	B06_M05	B06_M05	B06_M05
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B06_M07	B06_M07	B06_M07	B06_M07	B06_M07
17:30-18:30					
18:30-19:30					



**JUNE 2020**

Time	Mon 01	Tues 02	Wed 03	Thurs 04	Fri 05	
9:00-10:00	¿Lunes de feria en Puerto Real?			B03_M04	B03_M04	
10:00-11:00						
11:00-12:00						
12:00-13:00						
13:00-14:00						
14:00-15:00						
15:00-16:00						
16:00-17:00						
17:00-18:00				B03_M04	B03_M04	
18:00-19:00						
19:00-19:30						

**JUNE 2020**

Time	Mon 8	Tues 9	Wed 10	Thurs 11	Fri 12
8:30-9:30	B03_M05	B03_M05	B03_M05	B03_M05	B03_M05
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B06_M02	B06_M02	B06_M02	B06_M02	B06_M02
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B03_M02	B03_M02	B03_M02	B03_M02	B03_M02
17:30-18:30					
18:30-19:30					

**JUNE 2020**

Time	Mon 15	Tues 16	Wed 17	Thurs 18	Fri 19
8:30-9:30	B03_M01	B03_M01	B03_M01	B03_M01	B03_M01
9:30-10:30					
10:30-11:30					
11:30-12:00					
12:00-13:00	B06_M01	B06_M01	B06_M01	B06_M01	B06_M01
13:00-14:00					
14:00-15:00					
15:00-16:30					
16:30-17:30	B01_M02	B01_M02	B01_M02	B01_M02	B01_M02
17:30-18:30					
18:30-19:30					

**JUNE 2020**

<b>Time</b>	<b>Mon 22</b>	<b>Tues 23</b>	<b>Wed 24</b>	<b>Thurs 25</b>	<b>Fri 26</b>
<i>8:30-9:30</i>	B06_M04	B06_M04	B06_M04	B06_M04	B06_M04
<i>9:30-10:30</i>					
<i>10:30-11:30</i>					
<i>11:30-12:00</i>					
<i>12:00-13:00</i>	B05_M02	B05_M02	B05_M02	B05_M02	B05_M02
<i>13:00-14:00</i>					
<i>14:00-15:00</i>					
<i>15:00-16:30</i>	Reserved for oral presentations, exams, etc.				
<i>16:30-17:30</i>					
<i>17:30-18:30</i>					
<i>18:30-19:30</i>					