

**Teaching Board of PhD Course in Agricultural,  
Food and Forestry Sciences (SAAF) - Cycle XXXVIII**

**Minutes no. 3 - Meeting held on 2<sup>nd</sup> March 2023**

Composition of the Teaching Board:

			P	AG	A
1.	Abdelfattah	Ahmed		X	
2.	Abenavoli	Maria Rosa	X		
3.	Agosteo	Giovanni			X
4.	Barreca	Francesco	X		
5.	Bernardi	Bruno	X		
6.	Bombino	Giuseppe	X		
7.	Campolo	Orlando	X		
8.	De Luca	Anna Irene	X		
9.	Di Fazio	Salvatore	X		
10.	García-Ruíz	Roberto			X
11.	Giuffrè	Angelo Maria	X		
12.	Gulisano	Giovanni	X		
13.	Li Destri	Giulia	X		
14.	Lombardi	Fabio		X	
15.	Lucas-Borja	Manuel Esteban			X
16.	Lupini	Antonio	X		
17.	Marcianò	Claudio	X		
18.	Marziliano	Pasquale	X		
19.	Modica	Giuseppe	X		
20.	Monti	Michele	X		
21.	Muscolo	Adele Maria		X	
22.	Nicolosi	Agata			X
23.	Palmeri	Vincenzo			X
24.	Piscopo	Amalia Rosa Maria	X		
25.	Poiana	Marco			X
26.	Porto	Paolo			X
27.	Proto	Andrea Rosario	X		
28.	Schena	Leonardo	X		
29.	Sicari	Vincenzo	X		
30.	Sorgonà	Agostino	X		
36.	Spampinato	Giovanni		X	
31.	Strano	Alfio	X		
32.	Sunseri	Francesco	X		
33.	Tassone	Valentina C.		X	
34.	Zema	Demetrio Antonio	X		
35.	Zimbalatti	Giuseppe			x

The meeting takes place live at the Seminar Hall of the Department of Agriculture. The meeting is chaired by the Coordinator, prof. Leonardo Schena. Prof. Anna Irene De Luca acts as verbalizing secretary.

The channel "PhD SAAF (Cycle XXXVIII)" created by the coordinator in the Microsoft Teams platform is activated to allow the participation of the College's members residing abroad (Dr. Abdelfattah, Dr. García-Ruíz, Dr. Lucas-Borja and Dr. Tassone). None of the components residing abroad connect. Dr. García-Ruíz and Dr. Lucas-Borja are considered absent, while Dr. Abdelfattah and Dr. Tassone are justified, having previously emailed requests to the Coordinator.

The Coordinator, noting that the Board has been duly convened by invitation sent by e-mail on 25<sup>th</sup> February 2023 and that it is in a position to deliberate, declares the meeting open at 11:05. The agenda is as follows:

1. Communications;
2. Approval of minutes no. 2 of 11.01.2023;
3. Training plan - XXXVIII Cycle;
4. Criteria and timeline for the first year evaluation;
5. Appointment of tutors;
6. Appointment of co-tutors;
7. Foreign period authorizations;
8. Clearance for orientation and mentoring activities;
9. Other issues.

## **1. Communications**

1.1. The coordinator reports that all doctoral students admitted to attend the SAAF Doctoral Course by taking advantage of grants activated under the National Recovery and Resilience Plan, Mission 4 "Education and Research" funded by the European Union (NextGenerationEU) under the projects "National Centers" and "Ecosystems of Innovation" (Dr. 45/2023 of 16/02/2023) have regularly started their activities. Ph.D. students RAHALI Lamia, FRANCOMANO Edda, IMPALLOMENI Gabriella, GIACONDINO Corinne, OLIVA Mariateresa and PANGALLO Domenica started in Feb. 1, 2023, while Ph.D. students KOUKA Dorra and MANTI Leonardo Maurizio started on 07.02.2023 and 17.02.2023, respectively.

1.2. The Council of the Doctoral School was held on March 1<sup>st</sup>, 2023. In this occasion, the plan of common training activities already foreseen during the accreditation phase of the XXXVII Cycle was ratified and of which the Coordinator will report in detail in agenda item 3 below. In addition, it was decided that each Coordinator should identify, within their own Department of affiliation, any availability of colleagues to teach courses of cross-curricular interest to all Mediterranean doctoral courses. In addition, further amendments to the University Regulations on Doctoral Programmes were discussed, which follow those already approved by urgent procedure adopted by DR. no. 454 of 09.12.2022 and which mainly concerned the possibilities of using the additional 10% budget provided for each doctoral student (Art. 30, paragraph 9). The new changes mainly aim to simplify and streamline procedures by reducing, where possible, the approval steps. Another aspect that was discussed concerns incoming examinations (admission to doctoral courses) and outgoing examinations (acquisition of the PhD degree). Currently, the regulations provide for examinations to be held in person, unless specifically authorized by the Rector. In addition, in the current version of the regulations, the entrance examination includes a written test, which does not always appear suitable for selecting the best candidates and makes more complex the participation of foreign candidates. With the amendments currently being drafted, the aim would be to simplify the procedures by giving the school and/or individual doctoral courses the option of choosing each time the most appropriate examination methods.

The Council takes note of this.

## **2. Approval of minutes no. 2 of 11.01.2023**

The Coordinator reminds that the draft of the minutes of the meeting no. 2 del 11.01.2023 written in Italian and English was transmitted on 25 February 2023 to all the members of the Board, together with the convocation of the current Board. After brief discussion requesting the correction of a typo, the minutes, in both versions (Italian and English) are unanimously approved.

### 3. Training Plan - XXXVIII Cycle

The Coordinator points out that according to the provisions of the University Regulations on the Doctoral Program, the Board of Teachers prepares a teaching plan of activities on the basis of which the doctoral student must acquire 180 CFU over the three-year period. He, moreover, informs the Board that, according to the resolution of the Board of the Doctoral School dated 28.11.2022, 4 hours of lectures at the Doctoral School are equivalent to 1 CFU.

The Coordinator reminds the Board that in the definitive project - that led to the accreditation of the XXXVIII cycle of the SAAF doctoral course - the planned training activities included the following teachings (as distinct from those taught in teachings related to the first and second level courses):

- **Descriptive statistics and inferential statistics for validation of experimental data in agro-forestry.** 20-hour course common to all curricula.
- **Security in research facilities.** 10-hour course common to all curricula.
- **Evaluation of sustainability of experiments and innovations for validation of research pathways.** 10-hour course common to all curricula
- **Use of major databases and statistical sources in agribusiness and forestry.** 10-hour course common to all curricula.
- **Bibliographic research in the field of Agricultural, Food and Forestry Sciences.** 5-hour course common to all curricula.
- **Presentation of experimental data and writing of scientific articles.** 5-hour course common to all curricula.
- **Principles and methods of instrumental analysis and computational molecular genomics in agroforestry and environment.** 20-hour course mandatory for the STA curriculum and optional for the other two curricula
- **Process Innovation and Evaluation of the Effect of Food Technologies on Product Quality.** 20-hour course mandatory for the STAL curriculum and optional for the other two
- **Methodologies for assessing the hydrological response of small basins and defining naturalistic interventions to control erosion phenomena.** 20-hour course mandatory for the SFA curriculum and optional for the others.

Also at the accreditation stage, "other teaching activities" were provided for and, at the project submission stage, it was decided to provide the following four teachings, common to all accredited doctoral courses at the Mediterranean University. For these teachings the duration was not indicated at the accreditation stage, but it was discussed at the meeting of the Doctoral School on March 2<sup>nd</sup>, 2023 leading to the approval of the following:

- **Fundamental Principles of Ethics, Gender Equality and Integrity** (4 hours);
- **Language Enhancement** (two courses of 20 hours each for achieving B1 and B2 levels, respectively);
- **Enhancement and dissemination of results, intellectual property and open access to research data and products** (4 hours);
- **Research and knowledge management of European and international research systems** (4 hours).

The Coordinator informs the Board that he has preliminarily acquired the availability of colleagues from the Department of Agriculture, who are widely qualified to hold, free of charge, the above-mentioned courses included in the planned teaching activities, pointing out that many of them have actively contributed in the project presentation phase by defining the contents of each course. He, moreover, stresses that he proposed and obtained the willingness of all teachers to hold the lectures in English in order to promote the language

improvement of Italian doctoral students and facilitate the learning of foreign doctoral students. In addition, he proposes that to the extent possible, all courses be taught in a hybrid mode (in-person and online) to enable the participation of any doctoral students who may be abroad.

Taking the above into account, the Coordinator proposes to the Board the following specific teaching activities of the SAAF doctoral course, noting that they were defined in consultation with the Vicar, Prof. Anna Irene De Luca:

Course	Hours	CFU	Lecturer	Curriculum
Descriptive and inferential statistics for the validation of experimental data in agro-forestry	20	5	Pasquale Marziliano Orlando Campolo	All
Security in research laboratories and infrastructures	10	2,5	Simone Santacaterina	All
Evaluation of the sustainability of experiments and innovations for the validation of research paths	10	2,5	Giacomo Falcone	All
Use of the main databases and statistical sources in the agri-food and forestry field	10	2,5	Nathalie Iofrida	All
Bibliographic research in the agricultural, food and forestry sciences	5	1,25	Antonino Malacrinò	All
Presentation of experimental data and drafting of scientific articles	5	1,25	Antonino Malacrinò	All
Principles and methods of instrumental analysis and computational molecular genomics in agro-forestry and environmental field	20	5	Antonio Mauceri Agostino Sorgonà	Only STA
Process innovation and evaluation of the effect of food technology on product quality	20	5	Alessandra De Bruno	Only STAL
Methodologies for assessing the hydrological response of small basins and defining naturalistic interventions to control erosion phenomena	20	5	Demetrio A. Zema Giuseppe Bombino	Only SFA
<b>Total (for each curriculum)</b>	<b>80</b>	<b>20</b>		

The Coordinator highlights the need to start as soon as possible the teaching activities specific to the SAAF doctoral course and shows the Board a timetable that becomes an integral part of these minutes (Annex 1).

Regarding the “other teaching activities” common to all accredited doctoral courses at the Mediterranean University, the Coordinator points out that the lecturers have not yet been identified at the moment. For the three 4-hour Courses (1. Fundamental Principles of Ethics, Gender Equality and Integrity; 2. Valuation and Dissemination of Results, Intellectual Property and Open Access to Data and Research Products; 3. Research and Knowledge Management of European and International Research Systems) the Doctoral School Council of 02.03.2023 decided to check possible availability within the Departments of the Mediterranean through a request for expression of interest. Regarding the 40-hour course (Language Refinement), the same Council of the Doctoral School mandated the School Coordinator to identify the most appropriate lecturer and modalities.

The teaching activities described above may be complemented by other courses, seminars and/or workshops freely chosen by doctoral students, including:

- Courses/Seminars of cross-curricular interest (for at least two doctoral courses) organized by the school and taught by Mediterranean University faculty members, selected through a specific expression of interest (see communications);

- University courses falling within the educational offerings of Bachelor's and/or Master's degree programs of the Mediterranean University and/or other universities;
- Seminars, Courses and/or Workshops organized at the Mediterranean University and/or at other public and/or private institutions freely chosen by doctoral students.

Following up on all the above, the Coordinator proposes the following overall training plan, noting that the same has been defined in consultation with the vicar, Prof. Anna Irene De Luca:

#### Training activities

	SAAF doctoral courses	Doctoral School courses	Seminar and/or Workshop	TOT CFU
Year I	20	13	2	35
Year II			5	5
Year III			5	5
TOT	20	13	12	45

#### Research activities

	CFU
Year I	23
Year II	56
Year III	56
TOT	135

#### Training activities + Research activities = 180 CFU

A thorough discussion followed with numerous interventions of Board members at the end of which the proposal was unanimously approved. The Board mandates the Coordinator and the Vicar to define the criteria for the attribution of CFUs for all training activities for which they are not explicitly stated and for all research activities.

This point is read and approved unanimously forthwith.

#### 4. Criteria and timing for the evaluation of the first year of activity

In line with what has been deliberated in previous doctoral Cycles, the Coordinator proposes that the evaluation of PhD students' first year of activity be done on the basis of:

- a three-year research project in English;
- the annual report on the activities carried out in English;
- an individual training plan containing teaching and research activities with the respective CFUs acquired.

The Coordinator emphasizes that the annual report and the training plan are key documents for the evaluation of PhD students in the second and third year of activity as well.

With regard to the evaluation of the three-year research project, the evaluation by an internal/external committee composed of three members, at least two of whom are external to the Board, and approved by the PhD Board, is proposed again. This committee will evaluate the project and the exposition of the same by PhD students. The judgments of the committee together with the annual report and the individual training

plan will be used by the Board to evaluate the doctoral students and, in case of positive evaluation, for admission to the second year.

The Coordinator points out that in his opinion the guidelines the drafting of the aforementioned documents and especially for the research project could be improved by adding more sections, and he receives a mandate from the college to work on this.

With regard to the timing for submitting the above-mentioned documentation to the Coordinator, the Board approves the following:

- three-year english-language research project: June 30 (all PhD students of XXXVIII Cycle, regardless of activity start date);
- annual report and individual training plan: October 16, 2023 (PhD students starting in November 2022) and January 15, 2024 (PhD students starting in February 2023).

The coordinator asks the Board to express its opinion on the advisability of compulsorily providing a period of training at foreign institutions, similar to what was decided in previous cycles. A long and articulate discussion follows, in the course of which the Board, while strongly encouraging the conduct of a foreign period since it is considered essential for high-level training, does not consider making it mandatory. As an alternative, it is decided to incentivize the performance of a foreign period through the identification of criteria for the attribution of CFUs for the research activities that emphasize the foreign period.

## 5. Tutor appointment

The Coordinator points out that by Dr. 45/2023 dated 02.16.2023, the following PhD students were admitted to attend the SAAF PhD Course by taking advantage of grants activated under the National Recovery and Resilience Plan (PNRR), Mission 4 “Education and Research” funded by the European Union (NextGenerationEU) under the “National Centers” and “Ecosystems of Innovation” projects:

Surname and Name	Grant Found PNRR
RAHALI Lamia	EI TECH4YOU Spoke 3 Goal 1 PP1
FRANCOMANO Edda	EI TECH4YOU Spoke 3 Goal 1 PP1
IMPALLOMENI Gabriella	EI TECH4YOU Spoke 3 Goal 1 PP1
MANTI Leonardo Maurizio	EI TECH4YOU Spoke 3 Goal 2 PP1
GIACONDINO Corinne	EI TECH4YOU Spoke 3 Goal 4 PP1
OLIVA Mariateresa	CN Agritech Spoke 3 WP 3
PANGALLO Domenica	CN Agritech Spoke 3 WP 3
KOUKA Dorra	CN Agritech Spoke 9 WP 1

The Coordinator recalls that according to the provisions of the University Regulations on Doctoral Research (Art. 5, paragraph 4, letter e), the Board of Teachers “assigns to each doctoral student, within the first year of enrollment, a tutor chosen from among the members of the College, acting as supervisor and lecturer, who follows him/her in the training and research activities, and evaluates his/her activity annually with appropriate forms of monitoring and verifies his/her attendance at the Course”. After articulate discussion, in view of the specific project lines on which the doctoral fellowships were funded, the Board, assigns the following Tutors to the PhD students:

- Prof. Giuseppe Modica, Full Professor SSD AGR/10, tutor of PhD student RAHALI Lamia;
- Prof. Leonardo Schena, Full Professor SSD AGR/12, tutor of PhD student FRANCOMANO Edda;
- Prof. Francesco Barreca, Associate Professor SSD AGR/10, tutor of PhD student IMPALLOMENI Gabriella;

- Prof. Giuseppe Bombino, Associate Professor SSD AGR/08, tutor of PhD student MANTI Leonardo Maurizio;
- Prof. Amalia Piscopo, Associate Professor SSD AGR/15, tutor of PhD student GIACONDINO Corinne;
- Prof. Adele Muscolo, Full Professor SSD AGR/13, tutor of PhD student OLIVA Mariateresa Teresa;
- Prof. Demetrio Zema, Associate Professor SSD AGR/08, tutor of PhD student PANGALLO Domenica;
- Prof. Francesco Barreca, Associate Professor SSD AGR/10, tutor of PhD student KOUKA Dorra.

This item shall be read out and adopted unanimously forthwith.

## 6. Appointment of co-tutors

The Coordinator reports having received the following requests for co-tutor assignments:

- Dr. Orlando Campolo, tutor of PhD student Ilaria LATELLA (XXXVII Cycle), proposes the assignment as co-tutor of Dr. Stefano Scalerio, Level II Researcher at CREA - FL in Rende;
- Prof. Poiana, tutor of PhD student Iolanda CILEA, proposes the assignment as co-tutor of Dr. Alessandra De Bruno, RTDA at the Department of Agriculture;
- Dr. Ahmed Abdelfattah, tutor of PhD student Giuseppina VIZZARI, proposes the assignment as co-tutor of Dr. Antonino Malacrino, RTDB at the Department of Agriculture.

During the ensuing discussion, the following proposals for co-tutor assignments are made directly to the assembly:

- Prof. Giuseppe Modica, tutor of PhD student Lamia RAHAL, proposes the assignment as co-tutor of Dr. Giuseppe Araniti, Associate Professor at the DIIES Department;
- Prof. Francesco Barreca, tutor of PhD student Gabriella IMPALLOMENI, proposes the assignment as co-tutor of Dr. Pasquale Giuseppe Filianoti, Associate Professor at the DICEAM Department;
- Prof. Demetrio A. Zema, tutor of PhD student Domenica PANGALLO, proposes the assignment as co-tutor of Dr. Paolo Calabrò, Associate Professor at the DICEAM Department;
- Prof. Francesco Barreca, tutor of PhD student Dorra KOUKA, proposes the assignment as co-tutor of Prof. Mariateresa Russo, Associate Professor at the Department of Agriculture;
- Prof. Giuseppe Bombino, tutor of PhD student Leonardo Maurizio MANTI, proposes the assignment as co-tutor of Prof. Pasquale Marziliano, Associate Professor at the Department of Agriculture;
- Prof. Leonardo Schena, tutor of PhD student Edda FRANCOMANO, proposes the assignment as co-tutor of Dr. Antonino Malacrino, RTDB at the Department of Agriculture;
- Prof. Michele Monti, tutor of PhD student Maria Teresa RODINÒ, proposes the assignment as co-tutor of Dr. Antonio Gelsomino, Associate Professor at the Department of Agriculture.

The Board, having verified that all the proposed co-tutors are amply qualified and possess the requirement of “number of publications for the application to National Scientific Habilitation (ASN) for permanent positions of Associate Professor of the Disciplinart Scientific Sectors (SSD) of the teacher member or doctoral student” adopted by resolution no. 3 of March 12, 2021 (XXXVI Cycle), unanimously approves their appointments.

This item is read and approved unanimously forthwith.

## 7. Foreign period approvals

No requests received.

### **8. Dispensation for orientation and mentoring activities**

The Coordinator reports that he has received from the PhD student Maria Teresa RODINÒ, a registered request (Prot. No. 0002793 of 13.02.2023) to obtain the authorization of the PhD Board for the purpose of participation in the *“Public Call for the formation of no. 3 rankings for the selection of no. 9 student tutors for the implementation of Orientation and Tutoring activities to be carried out in the framework of the Orientation and Tutoring Activities 2022/23 and to support the activities envisaged in the Memorandum of Understanding signed on 19.12.2016 with the L. da Vinci Scientific High School of Reggio Calabria”* issued by R.D. No. 16 of 2023.

After brief discussion, the Board approves.

This item shall be read out and adopted unanimously forthwith.

### **9. Other issues.**

Since there are no other items for discussion and since all agenda items have been covered, the meeting was closed at 12:40 p.m.

The Coordinator  
Prof. Leonardo SCHENA

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The Secretary  
Prof. Anna Irene DE LUCA

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## Annex 1

### SCHEDULE of PhD TRAINING PLAN (First year) A.Y. 2022/2023

Lesson dates	Course title	Hours	CFU	Lecturer	Curriculum
6 Marzo 2023 (15:00-18:00) 13 Marzo 2023 (15:00-18:00) 20 Marzo 2023 (15:00-18:00) 27 Marzo 2023 (15:00-18:00) 3 Aprile 2023 (15:00-18:00) 17 Aprile 2023 (15:00-18:00) 24 Aprile 2023 (15:00-17:00)	<i>Process innovation and evaluation of the effect of food technology on product quality</i>	20	5	Dr. Alessandra De Bruno (Agraria Dept. - UNIRC) AGR/15 - FOOD SCIENCE AND TECHNOLOGY	STAL
7 Marzo 2023 (9:00-12:00) 8 Marzo 2023 (9:00-12:00) 9 Marzo 2023 (9:00-12:00) 10 Marzo 2023 (9:00-12:00)	<i>Evaluation of the sustainability of experiments and innovations for the validation of research paths</i>	10	2,5	Dr. Giacomo Falcone (Agraria Dept. - UNIRC) AGR/01 - AGRICULTURAL ECONOMICS AND RURAL APPRAISAL	STA SFA STAL
14 Marzo 2023 (11:00-13:00) 17 Marzo 2023 (11:00-13:00) 21 Marzo 2023 (11:00-13:00) 24 Marzo 2023 (11:00-13:00) 29 Marzo 2023 (11:00-13:00)	<i>Use of the main databases and statistical sources in the agri-food and forestry field</i>	10	2,5	Dr. Nathalie Iofrida (Agraria Dept. - UNIRC) AGR/01 - AGRICULTURAL ECONOMICS AND RURAL APPRAISAL	STA SFA STAL
17 Marzo 2023 (15:00-17:00) 24 Marzo 2023 (15:00-17:00) 31 Marzo 2023 (15:00-16:00)	<i>Bibliographic research in the agricultural, food and forestry sciences</i>	5	1,25	Dr. Antonino Malacrinò (Agraria Dept. - UNIRC) AGR/12 - PLANT PATHOLOGY	STA SFA STAL
31 Marzo 2023 (16:00-17:00) 6 Marzo 2023 (15:00-17:00) 14 Marzo 2023 (15:00-17:00)	<i>Presentation of experimental data and drafting of scientific articles</i>	5	1,25		
5 Maggio 2023 (15:00-17:00) 12 Maggio 2023 (15:00-17:00) 18 Maggio 2023 (15:00-17:00) 26 Maggio 2023 (15:00-17:00) 9 Giugno 2023 (9:00-11:00)	<i>Principles and methods of instrumental analysis and computational molecular genomics in agro-forestry and environmental field</i>	10	3	Dr. Antonio Mauceri (Agraria Dept. - UNIRC) AGR/07 – AGRICULTURAL GENETICS	STA
7 Giugno 2023 (9:00-11:00) 13 Giugno 2023 (9:00-11:00) 15 Giugno 2023 (9:00-12:00) 16 Giugno 2023 (9:00-12:00)		10	2	Prof. Agostino Sorgonà (Agraria Dept. - UNIRC) AGR/13 - AGRICULTURAL CHEMISTRY	

Lesson dates	Course title	Hours	CFU	Lecturer	Curriculum
10 Maggio 2023 (15:00-18:00) 17 Maggio 2023 (15:00-17:00) 7 Giugno 2023 (11:00-14:00) 21 Giugno 2023 (11:00-13:00)	<i>Descriptive and inferential statistics for the validation of experimental data in agro-forestry</i>	10	2,5	Prof. Pasquale Marziliano (Agraria Dept. - UNIRC) AGR/05 - FOREST MANAGEMENT AND SILVICULTURE	STA SFA STAL
23 Maggio 2023 (15:00-17:00) 6 Giugno 2023 (15:00-18:00) 13 Giugno 2023 (15:00-18:00) 22 Giugno 2023 (15:00-17:00)		10	2,5	Dr. Orlando Campolo (Agraria Dept. - UNIRC) AGR/11 – GENERAL AND APPLIED ENTOMOLOGY	
23 Maggio 2023 (9:00-11:00) 6 Giugno 2023 (9:00-11:00) 14 Giugno 2023 (9:00-11:00) 21 Giugno 2023 (9:00-11:00) 27 Giugno 2023 (9:00-11:00)	<i>Security in research laboratories and infrastructures</i>	10	2,5	Dr. Simone Santacaterina (Agraria Dept. - UNIRC)	STA SFA STAL
8 Giugno 2023 (9:00-11:00) 22 Giugno 2023 (9:00-11:00) 6 Luglio 2023 (9:00-11:00) 20 Luglio 2023 (9:00-11:00)	<i>Methodologies for assessing the hydrological response of small basins and defining naturalistic interventions to control erosion phenomena</i>	10	2,5	Prof. Demetrio A. Zema (Agraria Dept. - UNIRC) AGR/08 - AGRICULTURAL HYDRAULICS AND WATERSHED PROTECTION	SFA
7 Settembre 2023 (9:00-14:00) 14 Settembre 2023 (9:00-14:00)		10	2,5	Prof. Giuseppe Bombino (Agraria Dept. - UNIRC) AGR/08 – AGRICULTURAL HYDRAULICS AND WATERSHED PROTECTION	