



Università degli Studi della Toscana - DAFNE

Corso di Laurea Magistrale (LM-69) “Scienze Agrarie e Ambientali”

VERBALE del Consiglio del Corso di Studio del 03/07/2025

Consiglio di Corso di Studi della laurea Magistrale in Scienze Agrarie e Ambientali (LM-69)

Il collegio dei docenti del Corso di Studi è composto dai seguenti membri:

Astolfi Stefania	sastolfi@unitus.it
Bernabucci Umberto	bernab@unitus.it
Carucci Federica	federica.carucci@unitus.it
Cecchini Massimo	cecchini@unitus.it
Colla Giuseppe	giucolla@unitus.it
Cortignani Raffaele	cortignani@unitus.it
Danieli Pierpaolo	danieli@unitus.it
Di Mattia Elena	dimattia@unitus.it
Dono Gabriele	dono@unitus.it
Francesconi Sara	francesconi.s@unitus.it
Mancinelli Roberto	mancinel@unitus.it
Monarca Danilo	monarca@unitus.it
Muganu Massimo	muganu@unitus.it
Muleo Rosario	muleo@unitus.it
Olivieri Fabrizio	fabrizio.olivieri@unitus.it
Palombieri Samuela	palombieri@unitus.it
Primi Riccardo	primi@unitus.it
Recanatesi Fabio	fabio.rec@unitus.it
Ripa Nicoletta	nripa@unitus.it
Ronchi Bruno	ronchi@unitus.it
Rossini Francesco	rossini@unitus.it
Ruggeri Roberto	r.ruggeri@unitus.it
Severini Simone	severini@unitus.it
Speranza Stefano	speranza@unitus.it
Di Cesare Valeria Maria	valeriamaria.dicesa@studenti.unitus.it valeriamariadicesare@gmail.com
Desantis Marco	marco.desantis2@studenti.unitus.it

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DEGLI STUDI DELLA
TUSCIA

DIPARTIMENTO
DI SCIENZE AGRARIE
E FORESTALI



Di seguito la lettera di convocazione.



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DI SCIENZE AGRARIE
E FORESTALI



Corso di LAUREA MAGISTRALE (LM-69) in SCIENZE AGRARIE E AMBIENTALI (SAA)

Viterbo, 30/04/2025

Ai membri del CdS della LM69 in SAA
SEDE

Il Presidente ha incontrato concrete difficoltà nella individuare una aula in Ateneo per convocare la presente riunione in presenza, senza trovare soluzione.
Conseguentemente il consiglio è convocato e condotto online via email.

In data **giovedì 03/07/2025, dalle ore 08.00 alle ore 12.00** è convocato con URGENZA in modalità online (**via email**) il Consiglio del Corso di Studi della Laurea Magistrale in Scienze Agrarie e Ambientali, classe LM69, con il seguente ordine del giorno:

1. Comunicazioni;
2. Pratiche studenti;
3. Definizioni e approvazione in merito al Dual Degree con Agroinnovations and Research University (Uzbekistan);
4. Varie ed eventuali.

Svolgerà le funzioni di segretario la Prof. Elena Di Mattia.

La documentazione in discussione è inviata in allegato insieme alla presente. Nello specifico la documentazione del DD sarà inviata al più presto possibile e comunque prima del 02/07/2025 alle 12.00.

Cordiali saluti

Roberto Mancinelli

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Il Presidente ha incontrato concrete difficoltà nella individuare una aula disponibile in Ateneo per convocare la presente riunione. Conseguentemente il consiglio è stato convocato e condotto online via email.

Presiede la seduta il prof. Roberto Mancinelli. Svolge le funzioni di segretario verbalizzante la Prof.ssa Elena Di Mattia.

La seduta è iniziata il 03/07/2025 alle ore 8.00 e terminata il 03/07/2025 alle ore 12.00, con la partecipazione dei seguenti componenti:

Astolfi Stefania	sastolfi@unitus.it	presente
Bernabucci Umberto	bernab@unitus.it	presente
Carucci Federica	federica.carucci@unitus.it	presente
Cecchini Massimo	cecchini@unitus.it	presente
Colla Giuseppe	giucolla@unitus.it	presente
Cortignani Raffaele	cortignani@unitus.it	presente
Danieli Pierpaolo	danieli@unitus.it	presente
Di Mattia Elena	dimattia@unitus.it	presente
Dono Gabriele	dono@unitus.it	presente
Francesconi Sara	francesconi.s@unitus.it	presente
Mancinelli Roberto	mancinel@unitus.it	presente
Monarca Danilo	monarca@unitus.it	presente
Muganu Massimo	muganu@unitus.it	ASSENTE
Muleo Rosario	muleo@unitus.it	presente
Olivieri Fabrizio	fabrizio.olivieri@unitus.it	presente
Palombieri Samuela	palombieri@unitus.it	presente
Primi Riccardo	primi@unitus.it	presente
Recanatesi Fabio	fabio.rec@unitus.it	presente
Ripa Nicoletta	nripa@unitus.it	presente
Ronchi Bruno	ronchi@unitus.it	presente
Rossini Francesco	rossini@unitus.it	presente
Ruggeri Roberto	r.ruggeri@unitus.it	presente
Severini Simone	severini@unitus.it	ASSENTE
Speranza Stefano	speranza@unitus.it	presente
Di Cesare Valeria Maria	valeriamaria.dicesa@studenti.unitus.it valeriamariadicesare@gmail.com	presente
Desantis Marco	marco.desantis2@studenti.unitus.it	ASSENTE

Di seguito si riportano gli interventi dei partecipanti:

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 08:05:04 +0200

Mittente:Prof. Roberto Mancinelli <mancinel@unitus.it>

Buongiorno a tutti,

Sono presente al CCS e approvo le proposte.

RM

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 08:04:23 +0200

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Mittente: Francesco ROSSINI <rossini@unitus.it>

Buongiorno,
approvo il verbale
Cordialmente
F Rossini

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 08:05:28 +0200

Mittente: DI CESARE, VALERIA MARIA <valeriamaria.dicesa@studenti.unitus.it>

Buongiorno,
sono presente e approvo.
Valeria Maria Di Cesare

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 08:10:17 +0200

Mittente: Roberto RUGGERI <r.ruggeri@unitus.it>

Buongiorno.
Sono presente e approvo la bozza di verbale.
Cordiali saluti
R. Ruggeri

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 09:15:40 +0300

Mittente: Stefania ASTOLFI <sastolfi@unitus.it>

Buongiorno,
approvo il verbale
Cordialmente
Stefania

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 08:20:46 +0200

Mittente: Riccardo Primi <primi@unitus.it>

Buongiorno,
approvo il verbale.
Saluti
RP

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 08:20:58 +0200

Mittente: Stefano SPERANZA <speranza@unitus.it>

Buongiorno.
Sono presente e approvo la bozza di verbale.
Cordiali saluti
Stefano

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 08:25:24 +0200

Mittente: Rosario MULEO <muleo@unitus.it>

Buongiorno Presidente,

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Della bozza del verbale approvo le pratiche studenti, mentre ho grande difficoltà a comprendere la proposta del dual degree sia nella sua struttura formativa sia nella tempistica amministrativa.

Se la proposta deve essere implementata tramite RAV allora perché questa urgenza visto che i termini di presentazione sono chiusi? Avremmo tutto il tempo per discutere con discernimento. Inoltre, la struttura formativa non è chiara. Amministrativamente quali sono le risorse per attuare il dual?

So benissimo che tu hai lavorato assiduamente per venire incontro ad una richiesta urgente, ed hai fatto del tuo meglio senza avere molte informazioni, e per questo ti ringrazio, ma la passione per una struttura nasce dall'appartenenza che significa essere informati, partecipare, avere parte della costruzione. Oramai, da molto tempo giriamo a vuoto e ci viene chiesto solo di agire. Ma agire per quale finalità?, con quali strumenti? in quali momenti?

Per questa parte mi astengo in attesa di maggiori chiarimenti.

Un caro saluto

Rosario

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 08:31:35 +0200

Mittente:Prof. Pier Paolo Danieli <danieli@unitus.it>

Caro Presidente e care/i Colleghe/i,
esprimo parere favorevole segnatamente per:

- 1) la richiesta di riconoscimento CFU avanzata dalla Studentessa DE ROSE
 - 2) le proposte di assegnazione dei contro-relatori per le nuove tesi di laurea in LM-69 SAA, oggetto del punto all'o.d.g. "Pratiche Studenti"
 - 3) la proposta di raccordo tra il Ns CdS, *curriculum* Organic Agruculture in Mediterranean Area erogato in lingua Inglese, e il corso Plant Science erogato dalla Agroinnovations and Research University dell'Uzbekistan.
- A tale riguardo, chiedo che sia esplicitato nel testo del verbale che l'erogazione dei singoli insegnamenti, nel caso che l'accordo di DD diventasse operativo, sarà garantita dagli stessi docenti del DAFNE che, già ora, ne sono titolari.

Con tale ultima precisazione, approverei la bozza di verbale inviata questa mattina.

Cordiali saluti,

Pier Paolo DANIELI

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 09:29:10 +0200

Buongiorno,

Approvo il verbale

Fabrizio

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 09:48:09 +0200

Mittente:samuella palombieri <palombieri@unitus.it>

Buongiorno,

sono presente e approvo il verbale.

Samuela

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 09:58:06 +0200

Mittente:Giuseppe COLLA <giucolla@unitus.it>

Approvo

Saluti

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Giuseppe

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 09:58:26 +0200

Mittente:Umberto BERNABUCCI <bernab@unitus.it>

Approvo il verbale

U Bernabucci

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 10:08:55 +0200

Mittente:Gabriele DONO <dono@unitus.it>

Caro Presidente e cari colleghi,

sono presente e, in uno spirito di sentita coesione al corpo del nostro Consiglio e del nostro Dipartimento, approvo la bozza di verbale che è in discussione.

Un caro saluto,

Gabriele

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 10:13:30 +0200

Mittente:Bruno Ronchi <ronchi@unitus.it>

Buondi a tutti. Sono presente alla riunione telematica e approvo il verbale. Bruno Ronchi

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 10:16:55 +0200

Mittente:Danilo MONARCA <monarca@unitus.it>

Caro Roberto,

sono presente ed approvo.

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 10:21:12 +0200

Mittente:Raffaele CORTIGNANI <cortignani@unitus.it>

Buongiorno a tutti,

sono presente ed approvo.

Raffaele

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 10:29:53 +0200

Mittente:Elena DI MATTIA <dimattia@unitus.it>

Buongiorno a tutti,

sono presente ed approvo.

Elena Di Mattia

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

Data: Thu, 3 Jul 2025 10:35:29 +0200

Mittente:Massimo CECCHINI <cecchini@unitus.it>

Buongiorno.

Sono presente e approvo.

Oggetto:Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025

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Data: Thu, 3 Jul 2025 10:46:22 +0200
Mittente: Maria Nicolina RIPA <nripa@unitus.it>
Sono presente e approvo il verbale.
Nicoletta Ripa

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025
Data: Thu, 3 Jul 2025 10:54:37 +0200
Mittente: sara francesconi <francesconi.s@unitus.it>
Buongiorno,
Approvo il verbale.
Buona giornata,
Sara Francesconi,

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025
Data: Thu, 3 Jul 2025 10:59:45 +0200
Mittente: Federica Carucci <federica.carucci@unitus.it>
Buongiorno,
Approvo.

Oggetto: Re: /Convocazione CCS con urgenza in via telematica (via email) della LM del 03/07/2025
Data: Thu, 3 Jul 2025 11:14:43 +0200
Mittente: Fabio Recanatesi <fabio.rec@unitus.it>
Gentile Presidente,
Approvo il verbale.
Per quanto riguarda la tesi dello studente Daniele Fattori trattandosi di una tesi sperimentale basata su argomenti affini alla geomatica con particolare riferimento all'analisi di dati multispettrali rilevati dalla piattaforma Sentinel-2 ritengo che il SSD più idoneo per il designare il contro relatore sia l'AGR-10. Pertanto mi offro come contro relatore.
Un cordiale saluto,
Fabio Recanatesi

1. Comunicazioni

Il Presidente comunica quanto di seguito.

Accordo con i partner europei per il percorso europeo MSc in Organic Agriculture è in evoluzione. Si confida di arrivare alla sottoscrizione dell'agreement subito dopo l'estate tra:

- UNITUS - University of Tuscia, Italy
- BOKU - University of Natural Resources and Life Sciences Vienna, Austria
- UHOH - University of Hohenheim, Germany
- WU - Wageningen University, The Netherlands
- SGGW – Warsaw University of Life Sciences
- ISARA – Agro School For Life, France

2. Pratiche studenti

La studentessa De Rose Giulia chiede il riconoscimento di 4 CFU del Corso “Laboratorio Radiofonico Radio Unitus” offerto dal dipartimento DISUCOM, nato dalla cattedra di Teoria e

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tecnica dei media, ha l'obiettivo di fornire agli studenti del nostro ateneo le conoscenze storiche e teoriche sul medium radio e le competenze pratiche per ideare, produrre e condurre trasmissioni radiofoniche di genere diverso sul Web. La studentessa durante il corso ha partecipato al Progetto Agrinet For Education. Agrinet For Education è un progetto finanziato dal programma IMCAP dell'Unione Europea nell'ambito della Politica Agricola Comunitaria, Agrinet è un format di informazione dedicato alla PAC – Politica Agricola Comune. “Agrinet4Education: storie di sostenibilità” con puntate realizzate ognuna da una radio del circuito RadUni.

Il CCS approva unanimemente il riconoscimento dei 4 CFU.

Le pratiche riguardanti le richieste di tesi e relativi controrelatori approvate dal Consiglio di Corso di Studi della LM69 in SAA sono di seguito riportate in tabella:

<u>Tesista</u>	<u>Relatore</u>	<u>Titolo</u>	<u>Controrelatori</u>
Amendola Giulia	Biagini	La Transizione Energetica nelle Aziende Agricole Laziali: Analisi Territoriale ed Economica	Cortignani
Bigerna Giuseppe	Dono	Crisi Covid, impatti sulla redditività e sulla condizione finanziaria delle imprese agricole nella Tuscia allargata	Severini
Boria Leonardo	Rossi	Miglioramento dei sistemi di guida autonoma e GPS per macchine agricole	Cecchini
De Rose Giulia	Liburdi	Caratterizzazione biochimica e purificazione di enzimi alimentari estratti da Brassica oleracea var. sabellica prodotti su scala pilota.	Muleo
Fattori Daniele	Casa	Analisi della variabilità spaziale e temporale della produttività di un appezzamento coltivato: valutazione della zonizzazione da satellite Sentinel-2”	Recanatesi
Perazzelli MicaelDavid	Cortignannin	Analisi di mercato dei fertilizzanti in Italia: trend e segmentazione di utilizzo nelle aziende agricole	Severini
Scorzoso Giulia	Biagini	Politiche agricole e sostenibilità: l'inerbimento delle colture arboree tra Eco-schema 2 e sviluppo rurale	Senni
Stevanella Alessandro	Colla	Applicazione di sostanze ad azione biostimolante su pomodoro	Rossini
Valenti Leonardo	Biagini	Analisi del rischio economico sulla coltura di frumento duro fra diverse zone d'Italia	Dono

Il CCS approva unanimemente.

3. Definizioni e approvazione in merito al Dual Degree con Samarkand Agroinnovations and Research University (Uzbekistan)

Il Presidente comunica che è stato predisposto in pochissimi giorni tutto il necessario carteggio per la sottoscrizione di un dual degree della LM69 in SAA con il Corso di Laurea Magistrale in Plant Science della Samarkand Agroinnovations and Research University (SAMARU), riportato in allegato A, e chiede l'approvazione al CCS.

Presenti 26

Favorevoli 24

Contrari 0

Astenuti 1

Non definiti 1

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Il CCS approva a maggioranza lo schema dell'accordo di doppio diploma, di cui sopra è riportato in Allegato A, dando mandato al Rettore di apportare eventuali modifiche non sostanziali che dovessero rendersi necessarie.

4. Varie ed eventuali

Nulla da discutere.

Alle ore 12.00 non essendovi altro da discutere il Presidente dichiara chiusa la seduta.

Il presente verbale, approvato seduta stante, sarà inviato alla segreteria didattica del Dipartimento, all'attenzione della dott.ssa Lorena Remondini.

Viterbo, 03/07/2025

Il segretario

Prof.ssa Elena Di Mattia



Il Presidente del CdS

Prof. Roberto Mancinelli



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Agriculture and Environmental Science					common credits with PlantScience	Uzbek Univ					common credits with OrgAgriMed
Curriculum in ENGLISH: Organic Agriculture in Mediterranean Area (OrgAgriMed)						70810402 - Plant science (PS)					
SubjectsYearSemesterCreditsambito						SubjectsYearSemesterCreditsambito					
FIRST YEAR						FIRST YEAR					
Organic soil management						Research Methods in Crop Science					
Soil biochemistry						Seed Science of Field Crops					
Soil microbiology						Programming the Yield of Field Crops					
Pest and disease control in organic cropping systems						Scientific Research Work and Preparation and Defense of Master's Thesis					
Innovative strategies for sustainable plant protection						Scientific and Pedagogical Work					
Biological control of insect pests						Research Methodology					
Organic livestock production systems											
Organic herbaceous crop production in Mediterranean climate					Research Methods in Crop Science						
Food quality and security in organic agriculture					Methodology of Teaching Specialized Subjects						
Organic tree crops production in Mediterranean climate					Scientific Fundamentals of Cereal Crop Biology and Innovative Cultivation Technologies						
Experimental design and statistical modelling					Scientific Fundamentals of Forage Crop Biology and Innovative Cultivation Technologies						
Agroecology in organic and sustainable agriculture					Electronic Libraries and Their Usage						
Elective teaching course					Digital Technologies and Information Security						
					Scientific Research Work and Preparation and Defense of Master's Thesis						
					Scientific and Pedagogical Work						
total ECTS					total ECTS						
SubjectsYearSemesterCredits					SubjectsYearSemesterCredits						
SECOND YEAR					SECOND YEAR						
Innovative agricultural mechanization					Principles of Improving Crop Product Quality in Crop Science						
Economic sustainability of Mediterranean farming systems					Crop Production Under Adverse Climatic Conditions						
Farm management and adaptation strategies					Cultivation Technology of New Field Crops						
Investments analysis					Scientific Research Work and Preparation and Defense of Master's Thesis						
Economic and policy of agri-food systems					Scientific and Pedagogical Work						
Genetic improvement for sustainable cropping systems					Modern Software for Empirical Analysis						
Elective teaching course					Modern Pedagogical Technologies in Education						
Traineeship					Scientific Research Work and Preparation and Defense of Master's Thesis						
Other useful knowledge					Scientific Internship (Practical Training)						
Master thesis and colloquium					Scientific Internship (Practical Training)						
total ECTS					total ECTS						
Two Years total ECTS					Two Years total ECTS						
63					63						

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SUBJECTS	Y	S	ECTS
Research Methods in Crop Science	1	1	4
Seed Science of Field Crops	1	1	6
Programming the Yield of Field Crops	1	1	6
Scientific Research Work and Preparation and Defense of Master's Thesis	1	1	6
Scientific and Pedagogical Work	1	1	4
Research Methodology	1	1	4
Research Methods in Crop Science	1	2	6
Methodology of Teaching Specialized Subjects	1	2	4
Scientific Fundamentals of Cereal Crop Biology and Innovative Cultivation Technologies	1	2	3
Scientific Fundamentals of Forage Crop Biology and Innovative Cultivation Technologies	1	2	3
Electronic Libraries and Their Usage	1	2	2
Digital Technologies and Information Security	1	2	2
Scientific Research Work and Preparation and Defense of Master's Thesis	1	2	6
Scientific and Pedagogical Work	1	2	4
Scientific and Pedagogical Work	2	1	4
Modern Software for Empirical Analysis	2	1	2
Modern Pedagogical Technologies in Education	2	1	2
Scientific Internship (Practical Training)	2	2	3
Food quality and security in organic agriculture	1	2	6
Organic tree crops production in Mediterranean climate	1	2	6
Agroecology in organic and sustainable agriculture	1	2	6
Traineeship	2	2	2
Other useful knowledge	2	2	1
Master thesis and defense	2	2	30

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SUBJECTS AT SAMARU	Y	S	ECTS	SUBJECTS AT UNITUS	Y	S	ECTS
Principles of Improving Crop Product Quality in Crop Science	2	1	6	<u>Food quality and security in organic agriculture</u>	<u>1</u>	<u>2</u>	<u>6</u>
Crop Production Under Adverse Climatic Conditions	2	1	4	<u>Organic tree crops production in Mediterranean climate</u>	<u>1</u>	<u>2</u>	<u>6</u>
Cultivation Technology of New Field Crops	2	1	6	<u>Agroecology in organic and sustainable agriculture</u>	<u>1</u>	<u>2</u>	<u>6</u>
Scientific Internship (Practical Training)	2	2	3	<u>Traineeship</u>	<u>2</u>	<u>2</u>	<u>2</u>
				<u>Other useful knowledge</u>	<u>2</u>	<u>2</u>	<u>1</u>
Scientific Research Work and Preparation and Defense of Master's Thesis	1	2	6	<u>Master thesis and defense</u>	<u>2</u>	<u>2</u>	<u>30</u>
Scientific Research Work and Preparation and Defense of Master's Thesis	2	1	6				
Scientific Research Work and Preparation and Defense of Master's Thesis	2	2	18				

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**INTERNATIONAL
DOUBLE BACHELOR/MASTER'S**

AGREEMENT

between:

THE UNIVERSITY OF TUSCIA (UNITUS)

and

SAMARKAND AGROINNOVATIONS AND RESEARCH UNIVERSITY (SAMARU)

To launch the double degree MSc program in the framework of the MSc course on

Agriculture and Environmental Science - Curriculum:

Organic Agriculture in Mediterranean Area (OrgAgriMed)

at UNIVERSITY OF TUSCIA (UNITUS)

(Delivering the academic title: Laurea Magistrale)

and in the framework of the MSc course on

Plant Science

at the SAMARKAND AGROINNOVATIONS AND RESEARCH UNIVERSITY (SAMARU)

(Delivering the academic title: Master)

On one part, University of Tuscia, hereinafter also referred to as "UNITUS", with registered office at Via s. Maria in Gradi 4, 01100 Viterbo, Italy, VAT number 00575560560, and on its behalf and represented by Prof. Stefano Ubertini, Rector of the University of Tuscia; on the other part, the Samarkand Agroinnovations and Research University (SAMARU), hereinafter also referred to as "SAMARU", with registered office at 141001, A. Temur street 7, Akdarya district, Dabhet town, Samarkand region, and on its behalf and represented by prof. Shavkat Hasanov, Rector of of Samarkand Agroinnovations and Research University.

STATE

1. That both institutions share cultural, technical, educational, and scientific fields of common interest.
2. That collaboration and the exchange of experience and knowledge, as well as the provision of services between both institutions, are in their greatest interest for social and cultural progress.
3. That they are interested in promoting their international collaboration in the field of higher education and research.

They hereby sign an agreement that regulates the conditions under which students may access and opt for a double bachelor/master's degree conferred by both universities, subject to compliance with the clauses established in this agreement, and in accordance with the current regulations at each institution, as follows:

First – Purpose of the agreement

This double master's agreement aims to establish the academic and administrative conditions under which students enrolled in the “*Agriculture and Environmental Science - Curriculum: Organic Agriculture in Mediterranean Area (OrgAgriMed)*” course at UNITUS, and students enrolled at the master's degree course in “*Plant Science - PS*” at SAMARU, may access and opt

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for a double master's degree conferred by both universities, subject to compliance with the clauses established in this agreement, and in accordance with the current regulations at each institution.

Both Institutions consider the two-degree courses to be similar and equivalent.

Teaching at UNITUS is carried out in English. Teaching at SAMARU for participants of the program is conducted in English.

All procedural rules will be determined through the informal agreement between international programs managers (within an administrative agreement).

This Agreement is accompanied by a list of the courses and other curricular activities (Annex I) that students enrolled in the double degree programs may opt for during their stay at the host university in order to obtain the double degree. In Annex I there are the similarities and correspondences of the two courses.

The curriculum of the table (Annex I) must be approved in advance by the academic bodies of both Universities, and can be modified in each academic year, after approval of the academic bodies of both Universities.

Annex II provides for academic and administrative officials responsible for the double bachelor/master's agreement.

Second – Student application and admission

The number of students that may participate in the Double Degree Program from each institution will be decided on a yearly basis in February of the previous year.

Each university will publish a call for applications for the double degree program yearly.

Evaluation of the applications and applicant selection will be mainly based on their reasons for applying, academic career and the level of knowledge of the English language.

Before starting the courses at the host university, students admitted to the double degree program must possess a CEFR B1/B1+ level of English (although B2 is highly recommended). In the case of students whose level of English is just below the minimum required, and under previous approval of the coordinators of the double degree program, this minimum level could be attained by taking and passing language courses at the host university's Linguistic Centre. Also in this case, the minimum level must be reached before starting the courses at the host university.

The student's final admission requires approval by the partner institution and admission into its corresponding degree program.

Third – Stay

Each student admitted to the double degree program must submit his/her plan of studies for the approval of both universities.

The students participating in the double bachelor/master's program must attend one semester at the partner institution.

The partner university, through the administrative official responsible for this agreement, pledges to provide assistance in the search for suitable accommodations. Likewise, the partner institution pledges to provide the student with the information relating to the host country, visas, required

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medical insurance, etc., before their arrival. The partner institution must provide students in the double degree program with the same services that it generally provides its own students.

Each institution's academic calendar will be considered when organizing the stays. The academic official responsible for this agreement must inform the incoming students about the organization of the courses they must take during their stay at the partner institution.

All students admitted to the double degree program must register and present the transcript of records of the courses already taken at their home university, as well as the learning agreement with the courses they will take during their stay at the host institution.

After completing the stay, the students must submit the official student transcript of records issued by the partner institution to their own institution to receive credit for the courses taken. The certificate must be presented in English.

Fourth – Enrolment and tuition fees

The student participating in the double degree program will be enrolled in both universities from the start of the first year of the Master and will pay tuition fees at their home university.

The student will be exempt from registration fees at the other establishment and will only have to pay there any contributions imposed by national legislation and according to both Universities Regulation.

The enrolment will be carried out by the administrative official responsible for this agreement, who will inform the student about the necessary documents.

Fifth - Student obligations and rights

During the exchange period, the students will be subject to the rules and regulations of the partner institution and to all the legal and social obligations within the host country. Likewise, they will enjoy the same rights as students enrolled at the partner institution.

If a student does not comply with the terms of this agreement, including the length of the stay at the partner institution and its curriculum, that student will forfeit any right to receive the degree from the partner institution and will be excluded from the double master's program, although they may still be eligible to opt for the master's degree at their home institution.

Sixth – MSc Thesis and defense

As a general rule, the graduation commissions will be composed according to the specific rules of each of the universities and will include at least one member of the partner university (from UNITUS and SAMARU). The final thesis, written in English, will be supervised by the programme coordinator of UNITUS and the programme coordinator of SAMARU.

The place of defense will be decided by mutual agreement. It will be established one physical venue, either in UNITUS or SAMARU for their thesis defense, according to the mobility structure.

Seventh – Expenses

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Transport costs, medical insurance, accommodations, upkeep, and any other expenses arising during the exchange period established in the double bachelor/master's program will be charged to the student. The student must acquire health insurance that guarantees access to health care in the host country. This insurance must cover medical and health care, death and disability caused by an accident, repatriation assistance for death by any cause, and reimbursement for medical expenses caused by an accident.

The partner institution, through the administrative officer responsible for this agreement, pledges to provide assistance in the search for suitable accommodation, although all stay expenses will be charged to the student. Likewise, the partner institution pledges to provide the student with information relating to the host country, visas, required medical insurance, etc, before their arrival. The partner institution must provide students in the double bachelor/master's program with the same Services that they generally provide their own students.

UNITUS and SAMARU will make every effort to find national and international resources to assure financial support for this program.

Eighth – Evaluation of the results

The academic officers of both institutions charged with the coordination of this double degree program will also meet by video conference, at least once a year, to evaluate the effectiveness of the learning program and the results achieved by students, as well as the resources supplied by both universities. They may suggest the necessary modifications to improve the quality of the program and propose them to the competent Boards of both institutions.

Ninth – Duration of the agreement

This agreement will take effect from the time of its signing by the representatives of both institutions and will be valid for a period of four years. Following this period, the agreement may be renewed by written consent. Either one of the signatory institutions may terminate this agreement in writing, which must be sent to the partner institution 6 months in advance. If one institution wishes to terminate this agreement, both pledge to meet their commitments to the students admitted into the double bachelor/master's program before either one withdraws from it. Moreover, the signature of this agreement does not bind the parties to a financial obligation.

Tenth – Academic and research exchanges

With the aim of supporting the double degree program, UNITUS and SAMARU will promote and coordinate the exchange of visiting professors and researchers by mutual consent as well as the organization of workshops, seminars, conferences and publications on topics of common interest. The exchange and the development of the above-mentioned activities will conform to the norms and procedures in force in the two institutions.

Eleventh – Use of Logo

The Partners mutually commit not to use the name and/or logo or any other identifying marks for purposes other than those covered by the agreement, except for specific agreement between the

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parties that provide, prior explicit approval, forms of communication and divulgation of the initiatives covered by the agreement.

Twelfth – Personal data treatment

The universities will arrange for the treatment, dissemination and communication of personal data in pursuit of their institutional goals and as provided for by law.

Thirteenth – Text of the agreement

The agreement will be drawn up in Uzbek and English. Any amendments or changes to the text of the agreement must be requested in writing by the institution proposing them.

If any disagreement regarding the interpretation and application of the agreement arises in Uzbekistan, Uzbek laws and regulations will be applied. If the disagreement arises in Italy, the laws and regulations of Italy will apply.

As proof of agreement with the foregoing, the present agreement is signed in duplicate.

ON BEHALF OF UNIVERSITY OF
TUSCIA

ON BEHALF OF THE SAMARKAND
AGROINNOVATIONS AND RESEARCH
UNIVERSITY

Prof. Stefano Ubertini

Rector of University of Tuscia

Prof. Shavkat Hasanov

Rector of the Samarkand Agroinnovations and
Research University

“ _____ ” _____ 2025 y.

_____ city

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ANNEX I - Academic and administrative officials responsible for the double master's agreement

1. The academic officials responsible for the double master's program are:

For SAMARU:

Khusniddin Khonkulov, Vice – Rector for Academic Affairs

Email: x-xonkulov@mail.ru, Address: 141001, Amir Temur street 7, Dahbed town, Akdarya district, Samarkand region, Uzbekistan

Anvar Shamsiev, Head of the department of Educational and Methodological Support

Email: anvar-shamsiev@mail.ru, Address: 141001, Amir Temur street 7, Dahbed town, Akdarya district, Samarkand region, Uzbekistan

For UNITUS:

Stefano Speranza, Delegate for International and Relation Affairs

Email: speranza@unitus.it, Address: Largo dell'Università snc, 01100 Viterbo, ITALY

Roberto Mancinelli, Chair of the Master Course in Agriculture and Environmental Science

Email: mancinel@unitus.it, Address: Largo dell'Università snc, 01100 Viterbo, ITALY

2. The administrative officials responsible for the double master's program including administrative dialogue with the partner institution agreement, are

For SAMARU:

Khusniddin Pardaev, Head of the International Department

Email: pardayev@yahoo.com, Address: 141001, Amir Temur street 7, Dahbed town, Akdarya district, Samarkand region, Uzbekistan

Fotima Saydullaeva, Administrative Staff at the International Department

Email: fsaydullayeva@yahoo.com, Address: 141001, Amir Temur street 7, Dahbed town, Akdarya district, Samarkand region, Uzbekistan

For UNITUS:

Marcella Barone, Head of International Student Office

Email: international.cds@unitus.it, Address: Via S. Maria in Gradi, 4, 01100 Viterbo, ITALY

Angela Fattoretti, Contact Person for the Double Degree Programme

Email: fattoretti@unitus.it, Address: Via S. Maria in Gradi, 4, 01100 Viterbo, ITALY

If either one of the signatory institutions changes any of the officials named herein, it must inform the partner institution, as well as the academic and administrative officials of the double master's program and indicate the corresponding subtitles.

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ANNEX II

Subjects that the SAMARU students are required to take at UNITUS

SUBJECTS AT SAMARU	Y	S	ECTS	SUBJECTS AT UNITUS	Y	S	ECTS
Principles of Improving Crop Product Quality in Crop Science	2	1	6	<u>Food quality and security in organic agriculture</u>	<u>1</u>	<u>2</u>	<u>6</u>
Crop Production Under Adverse Climatic Conditions	2	1	4	<u>Organic tree crops production in Mediterranean climate</u>	<u>1</u>	<u>2</u>	<u>6</u>
Cultivation Technology of New Field Crops	2	1	6	<u>Agroecology in organic and sustainable agriculture</u>	<u>1</u>	<u>2</u>	<u>6</u>
Scientific Internship (Practical Training)	2	2	3	<u>Traineeship</u>	<u>2</u>	<u>2</u>	<u>2</u>
				<u>Other useful knowledge</u>	<u>2</u>	<u>2</u>	<u>1</u>
Scientific Research Work and Preparation and Defense of Master's Thesis	1	2	6	<u>Master thesis and defense</u>	<u>2</u>	<u>2</u>	<u>30</u>
Scientific Research Work and Preparation and Defense of Master's Thesis	2	1	6				
Scientific Research Work and Preparation and Defense of Master's Thesis	2	2	18				

Study plan by SAMARU students in Plant Science (bold underlined are subjects to take at UNITUS)

SUBJECTS	Y	S	ECTS
Research Methods in Crop Science	<u>1</u>	<u>1</u>	4
Seed Science of Field Crops	<u>1</u>	<u>1</u>	6
Programming the Yield of Field Crops	<u>1</u>	<u>1</u>	6
Scientific Research Work and Preparation and Defense of Master's Thesis	<u>1</u>	<u>1</u>	6
Scientific and Pedagogical Work	<u>1</u>	<u>1</u>	4
Research Methodology	<u>1</u>	<u>1</u>	4
Research Methods in Crop Science	<u>1</u>	<u>2</u>	6
Methodology of Teaching Specialized Subjects	<u>1</u>	<u>2</u>	4
Scientific Fundamentals of Cereal Crop Biology and Innovative Cultivation Technologies	<u>1</u>	<u>2</u>	3
Scientific Fundamentals of Forage Crop Biology and Innovative Cultivation Technologies	<u>1</u>	<u>2</u>	3
Electronic Libraries and Their Usage	<u>1</u>	<u>2</u>	2
Digital Technologies and Information Security	<u>1</u>	<u>2</u>	2
Scientific Research Work and Preparation and Defense of Master's Thesis	<u>1</u>	<u>2</u>	6
Scientific and Pedagogical Work	<u>1</u>	<u>2</u>	4
Scientific and Pedagogical Work	2	1	4
Modern Software for Empirical Analysis	2	1	2
Modern Pedagogical Technologies in Education	2	1	2

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Scientific Internship (Practical Training)	2	2	3
<u>Food quality and security in organic agriculture</u>	<u>1</u>	<u>2</u>	<u>6</u>
<u>Organic tree crops production in Mediterranean climate</u>	<u>1</u>	<u>2</u>	<u>6</u>
<u>Agroecology in organic and sustainable agriculture</u>	<u>1</u>	<u>2</u>	<u>6</u>
<u>Traineeship</u>	<u>2</u>	<u>2</u>	<u>2</u>
<u>Other useful knowledge</u>	<u>2</u>	<u>2</u>	<u>1</u>
<u>Master thesis and defense</u>	<u>2</u>	<u>2</u>	<u>30</u>

Subjects that UNITUS students are required to take at SAMARU

SUBJECTS AT UNITUS	ECTS	Y	S	SUBJECTS AT SAMARU	ECTS	Y	S
<u>Food quality and security in organic agriculture</u>	<u>1</u>	<u>2</u>	<u>6</u>	Principles of Improving Crop Product Quality in Crop Science	2	1	6
<u>Organic tree crops production in Mediterranean climate</u>	<u>1</u>	<u>2</u>	<u>6</u>	Crop Production Under Adverse Climatic Conditions	2	1	4
<u>Agroecology in organic and sustainable agriculture</u>	<u>1</u>	<u>2</u>	<u>6</u>	Cultivation Technology of New Field Crops	2	1	6
<u>Traineeship</u>	<u>2</u>	<u>2</u>	<u>2</u>	Scientific Internship (Practical Training)	2	2	3
<u>Other useful knowledge</u>	<u>2</u>	<u>2</u>	<u>1</u>				
<u>Master thesis and defense</u>	<u>2</u>	<u>2</u>	<u>30</u>	Scientific Research Work and Preparation and Defense of Master's Thesis	1	2	6
				Scientific Research Work and Preparation and Defense of Master's Thesis	2	1	6
				Scientific Research Work and Preparation and Defense of Master's Thesis	2	2	18

Study plan by UNITUS students in Agriculture and Environmental Science Curriculum

Organic Agriculture in Mediterranean Area (OrgAgriMed) (bold underlined are subjects to take at SAMARU)

SUBJECTS	ECTS	Y	S
Organic soil management			
<u>Soil biochemistry</u>	1	1	3
<u>Soil microbiology</u>	1	1	3
Pest and disease control in organic cropping systems			
Innovative strategies for sustainable plant protection	1	1	6
Biological control of insect pests	1	1	6
Organic livestock production	1	1	6

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systems			
Organic herbaceous crop production in Mediterranean climate	1	1	6
Experimental design and statistical modelling	1	2	6
Elective teaching course	1	2	6
Innovative agricultural mechanization	2	1	6
Economic sustainability of Mediterranean farming systems			
<i>Farm management and adaptation strategies</i>	2	1	3
<i>Investments analysis</i>	2	1	3
<i>Economic and policy of agri-food systems</i>	2	1	3
Genetic improvement for sustainable cropping systems	2	1	6
Elective teaching course	2	1	6
<u>Principles of Improving Crop Product Quality in Crop Science</u>	<u>2</u>	<u>1</u>	<u>6</u>
<u>Crop Production Under Adverse Climatic Conditions</u>	<u>2</u>	<u>1</u>	<u>4</u>
<u>Cultivation Technology of New Field Crops</u>	<u>2</u>	<u>1</u>	<u>6</u>
<u>Scientific Internship (Practical Training)</u>	<u>2</u>	<u>2</u>	<u>3</u>
<u>Scientific Research Work and Preparation and Defense of Master's Thesis</u>	<u>1</u>	<u>2</u>	<u>6</u>
<u>Scientific Research Work and Preparation and Defense of Master's Thesis</u>	<u>2</u>	<u>1</u>	<u>6</u>

Table for Grade Conversion

Grades granted by both University to students enrolled at Double Degree, shall be converted according the ECTS Grading scale, as in the table below:

SAMARU grades	ECTS Grading System	Description	UNITUS grades
5	A	Excellent	30-30 e lode
4	B	Very Good	28-29
4	C	Good	25-27
3	D	Satisfactory	22-24
	E	Sufficient	18-21
1-2	F	Fail	<18

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**Addendum
for Academic Year 2025/2026**

Additional Information:

For the Academic Year 2025/2026 the number of participants to the Double Degree Programme will be defined for each Institution.

Diploma thesis:

Diploma thesis will be prepared in the second semester of the second year; one supervisor from each Institution will be nominated for each student. The defence of diploma thesis, through an oral presentation with the help of digital tools (in English language), can be held at SAMARU or UNITUS at diploma thesis sessions defined in the selected University. The defence commission will be composed jointly by three members from both universities, including from each university: the supervisor, the coordinator of the master program and one professor of the research field of diploma thesis. If diploma thesis defence will be held in SAMARU, the UNITUS' commission members will be in presence or on line. If diploma thesis defence will be held in UNITUS, the SAMARU's commission members can be in presence or on line. SAMARU undertakes to cover the costs of travel, accommodation and daily expenses for the Uzbek professors including in diploma thesis commission and for the students too in the case of their physical presence during the diploma thesis defence in Viterbo. UNITUS undertakes to cover the costs of travel, accommodation and daily expenses for the Italian professors including in diploma thesis commission and for the students too in the case of their physical presence during the diploma thesis defence in Samarkand. In case of exceptional conditions both Universities can allow the students to defense their thesis online.

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