International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM)
Mediterranean Agronomic Institute of Bari

DIPLOMA SUPPLEMENT

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international "transparency" and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Family and Given name(s): **SEVARIKA Milos**

1.2 [redacted]

1.3 [redacted]

1.4 Student identification number: 6573

2 INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of qualification: **MASTER OF SCIENCE**

2.2 Main field of study for the qualification: **Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops - II anno**

2.3 Name and status of awarding institution: **International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM). International Intergovernmental Higher Education Institution**, created by an intergovernmental agreement in 1962, ratified by the parliaments of the 13 member countries, which has been entrusted the duty of providing higher education at postgraduate level in the fields of agriculture, economics and environment

2.4 Name and status of institution administering studies: **Mediterranean Agronomic Institute of Bari (MAIB). Accredited Institute of CIHEAM in Italy since 1962.**

2.5 Language(s) of instruction/examination:

3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Level of qualification: Postgraduate

3.2 Official length of programme: Two academic-year full-time study (120 ECTS)

3.3 Access requirement(s):

- First part of the Programme (60 ECTS)
  Applicants must have the academic level that qualifies them to undertake postgraduate level studies in their home country equivalent to a minimum of four years undergraduate studies. Their degree must also be in a discipline compatible with the area of specialisation requested (agriculture, agriculture engineering, hydraulic engineering, civil engineering, biology). Knowledge of English language is mandatory
- Second part of the Programme (60 ECTS)
  Students must have obtained an average numerical score equal to or above 70/100 in the first part and having submitted an approved research proposal.

4 INFORMATION ON THE GRADING SCHEME AND RESULTS GAINED

4.1 Mode of study:

- The first part of the programme is carried out at MAIB.
- The second part of the programme is carried out entirely at MAIB, or partly at MAIB and partly in collaborating Italian Universities, or research institutions of the students' countries of origin.

4.2 Programme requirements:

- First part of the programme (60 ECTS):
  Students must attend all lectures, seminars, conferences, applied and supervised work, according to the syllabus of the postgraduate specialization programme. A full-time presence is required. Assessment and evaluation of the work corresponding to the credits awarded is always required.
- Second part of the programme (60 ECTS):
  It is dedicated mainly to the elaboration of an original thesis based on research work. All second year work assignments are evaluated (theoretical lectures, 1st and 2nd seminar). The 'Master of Science' thesis is presented and defended publicly before an international committee.

  At the end of the second part of the M.Sc. programme students:

- have the ability to communicate their conclusions, and the knowledge and rationale underpinning these, to specialist and non-specialist audiences clearly and unambiguously;
- are able to use an understanding of the limits of accuracy of experimental data to inform the planning of future work;
- have successfully completed a research project, the outcome of which is potentially publishable;
- have the ability to apply their knowledge and understanding, and problem solving abilities, in new or unfamiliar environments within broader (or multidisciplinary) contexts related to chemical sciences.

4.3 Programme details and individual marks/credits obtained:

1st part of the Programme (academic year 2016-2017)

Course Unit Code	Title of the Course Unit	ECTS Credits (1)	Mark (2)
UNIT I/16: Introductory courses			
IPM I.1	Information and Communication Technologies (ICTs) & Criteria for bibliographic research - *Lorusso O. & Inchingolo G., CIHEAM Bari, ITALY*	1.0	98
IPM I.2	English language - *Christopher S.J., University of Bari, ITALY*	2.0	78
	Average of the UNIT		**84.67**
UNIT II/16: Introduction to IPM			
IPM II.1.1	Basic principles of pathogens - *Gallitelli D., University of Bari, ITALY*	2.0	88
IPM II.1.2	Basic priciples of nemalodes - *Troccoli A., CNR Bari, ITALY*	2.0	88
IPM II.1.3	Basic principles of plant pests - *Al-Jboory I. J., University of Baghdad, IRAQ*	2.0	82
IPM II.1.4	Basic principles of weeds - *Carlesi S., Scuola Superiore Sant'Anna, Pisa, ITALY*	2.0	86
IPM II.1.5	Physiological disorders - *Ippolito A., University of Bari, ITALY*	1.0	85
IPM II.2	IPM concepts and regulations - *Pertot I., IASMA- Istituto Agrario San Michele all'Adige, ITALY*	2.0	99
	Average of the UNIT		**88.28**
UNIT III/16: Pest/Pathogen control			
IPM III.1.1	Biotech. Resistance - *Gallitelli D., University of Bari, ITALY*	1.0	80
IPM III.1.2	Breeding for plant resistance to pests and diseases - *Audergon J.M., INRA, AVIGNON, FRANCE*	2.0	95
IPM III.2.1	Semiochemicals: formulation and application - *Nayem H., Russel IPM Ltd, UNITED KINGDOM*	2.0	93
IPM III.2.2	Biopesticides & Botanicals: mformulation and application - *Pertot I., IASMA- Istituto Agrario San Michele all'Adige, ITALY*	2.0	100
IPM III.2.3	Natural ennemies application - *Tommasini M.G., Centro Ricerche Produzioni Vegetali, CRPV , ITALY*	2.0	96
IPM III.3.1	Formulation and registration of pesticides and use and application of fungicides - *Faretra F., University of Bari, ITALY*	2.0	100
IPM III.3.2	Use and application of insecticides - *Cravedi P., University of Piacenza, ITALY*	1.0	72
IPM III.3.3	Use and application of herbicides - *Capri E., University of Piacenza, ITALY*	1.0	78
IPM III.3.4	Application and impact of pesticides - *Da Gasso R., Reach Mastery Group, ITALY*	1.0	100
	Average of the UNIT		**92.86**
UNIT IV/17: Information technologies in IPM			
IPM IV.1.1	Disease forecasting modeling - *Calfi T., Scuola Superiore Sant'Anna, Pisa, ITALY*	1.0	75
IPM IV.1.2	GPS/GIS and spacial distribution analyses - *Picuno P., University of Basilicata, ITALY*	1.0	93
IPM IV.2.1	Remote sensing technology - *Santoro F., CIHEAM Bari, ITALY*	1.0	84
IPM IV.2.2	Satatistical analysis - *Rinaldi M., ENTECRA, ITALY*	2.0	80
IPM IV.2.3	DDS and Application of DDS - *Pertot I., IASMA- Istituto Agrario San Michele all'Adige, ITALY*	2.0	100
	Average of the UNIT		**87.43**
UNIT V/17: IPM of vegetable crops in pre-harvest			
IPM V.1.1	Key pests and IPM - *Conti E., University of Perugia, ITALY*	2.0	94
IPM V.1.2	Key fungi and IPM - *Minuto A., Azienda Speciale della CCIAA, ITALY*	2.0	93
IPM V.1.3	Key virus and virus-like diseases - *Gallitelli D., University of Bari, ITALY*	2.0	88

IPM V.1.4	Key bacteria and IPM - *Stefani E., University of Modena and Reggio Emilia, ITALY*	2.0	95
IPM V.2	Training and facilitation skills - *Dohmen M., Croplife Africa-Middle East, Amman, JORDAN*	2.0	81
	Average of the UNIT		**90.2**
UNIT VI/17: IPM of fruit crops in pre-harvest			
IPM VI.1	Key pests and IPM - *Delrio G., University of Sassari, ITALY*	2.0	97
IPM VI.2.1	Key bacteria and IPM - *Buonaurio R., University of Perugia, ITALY*	2.0	98
IPM VI.2.2	Key virus and virus-like agents and IPM - *Djelouah K., CIHEAM Bari, ITALY*	2.0	86
IPM VI.2.3	Fungi and IPM - *Yaseen Th., CIHEAM Bari, ITALY*	2.0	82
	Average of the UNIT		**90.75**
UNIT VII/17: IPM of fruits and vegetables in post-harvest			
IPM VII.1	Food contamination and regulations - *Ricelli A., CNR Rome, ITALY*	1.0	71
IPM VII.2	Post-harvest pest management - *Mari M., University of Bologna, ITALY*	2.0	80
IPM VII.3	International food standards - *Ferrari M., University of Trento, ITALY*	1.0	80
	Average of the UNIT		**77.75**
UNIT VIII/17: Application of IPM procedures			
IPM VIII.1	Busines planning and farm management - *Morrone D. & Russo A., LUM University - School of Management, ITALY*	2.0	100
IPM VIII.2	Good agricultural practices and certification in the global market - *Sigliuzzo C., Studio Sigliuzzo, Bari, ITALY*	1.0	73
IPM VIII.3	IPPC/CIHEAM Bari Training Course on "Developing phytosanitary capacity: plant quarantine & certification of plant propagating material" - *Brunel S., FAO Rome, Italy, Donghia A.M. & Digiaro M., CIHEAM Bari, ITALY*	4.0	80
	Average of the UNIT		**85.14**
	1st part awarded average	64	88.63
	Individual project presentation - *CIHEAM Bari IPM Division Staff*	6.0	88
	Final Exams - *evaluated by International Examination Board*		81
	FINAL RESULTS	70	**86.86 (Cum Maxima Laude)**

(1)1 full academic year = 60 credits
(2) see 4.4

The translation of local marks to ECTS grades in the first part of the programme is as follows (1):

ECTS grade	% of successful students normally achieving the grade	Local marks corresponding to ECTS grades
A	10	94.0 - 91.0
B	25	90.0 - 84.0
C	30	83.0 - 73.0
D	25	71.0 - 65.0
E	10	0.0 - 0.0

(1) Based on the total number of the final marks given to the first-year students of Division over the last 5 editions (83 students).

2nd part of the Programme (academic year 2017-2018)

MSc thesis title	Measuring intrapopulation genetic variation of several behavioural traits in an egg parasitoid
Thesis supervisors	S. Colazza & E. Peri, University of Palermo, Italy and K. Djelouah CIHEAM Bari, Italy
Place where the work has been carried out	University of Palermo and CIHEAM Bari
Examination Board	Dr. I. Livieratos, CIHEAM Chania, Greece, Chairman Prof. J.Blasco-Ivars, IVIA - Valencia, Spain, Member Prof. L. Schena, Mediterranean University of Reggio Calabria, Italy, Member Prof. E. Conti, University of Perugia, Italy, Member Dr. M. C. Holeva, Benaki Phytopathological Institute, Kifissia-Athens, Greece, Member
Date of presentation	October 9th, 2018
Formal Instruction	91.6
Individual Evaluation	89.0
Final Exam and Thesis Evaluation	89.88
ECTS credits (1)	60
Oral Presentation / Thesis Discussion - Mark (2)	90.18

(1)1 full academic year = 60 credits
(2) see 4.4

4.4 Grading scheme and grade distribution guidance

The grading scheme applicable to pass each academic unit during the first part of study, as well as the progress and final exams of the second part of study is as follows:

Mark	Definition

To pass the first part of the programme, student must obtain a final average mark equal to or above 50, no section graded below 50, and no unit graded below 40.
To pass the second part of the programme, student must obtain a final average mark equal to or above 50 for the Master thesis. No resubmission of the thesis is allowed.
Distinctions (both in the first and second part of the programme) are awarded as follows:
Cum Laude, average mark between 70 and 84.
Cum Maxima Laude, average mark equal to or above 85.

The translation of local marks to ECTS grades in the second part of the programme is as follows (1):

ECTS grade	% of successful students normally achieving the grade	Local marks corresponding to ECTS grades
A	10	95.0 - 89.0
B	25	88.0 - 87.0
C	30	86.0 - 80.0
D	25	79.0 - 76.0
E	10	0.0 - 0.0

(1) Based on the total number of the final marks given to the second-year students of Division over the last 5 editions (57 students).

4.5 Overall classification of the qualification

First part: 86.86 / 100
Second part: 90.18 / 100
Average: 88.52
Distinction: Cum Maxima Laude

5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further studies: entitles access to Doctoral studies

5.2 Professional status: not applicable

6 ADDITIONAL INFORMATION

6.1 Additional information:

In the Postgraduate specialization programme instruction is given by MAIB internal staff, and by 25 prestigious visiting professors from all over the world, coming from universities, higher education institutions, international organizations and research centres.

In the Master of Science programme, students' research theses are supervised by MAIB researchers, or external professors in collaboration with MAIB staff.

The international character of the programme is also strenghtened by the origin of attendants who come mostly from CIHEAM Mediterranean member countries but also from other parts of the world, mainly the Balkans, Asia and Africa.

6.2 Additional information sources:

www.iamb.it : www.ciheam.org

7 CERTIFICATION OF THE SUPPLEMENT

"Master of MAI-Bari Diploma" N. MAIB/LUM-43

"Master of Science Diploma" N. IPM2/00246

7.1 Date of issue: October 9th, 2018

7.2 Signature: Maurizio Raeli

7.3 Capacity: Director of MAIB (on behalf of CIHEAM President and CIHEAM Secretary General)

7.4 Official stamp:

CENTRE INTERNATIONAL H.E.A.M. - ISTITUTO AGRONOMICO MEDITERRANEO di BARI

8 INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

CIHEAM being an intergovernmental institution, reference to a particular national system is not applicable. CIHEAM adapts the characteristics of its MSc programmes and academic regulations to EU directives for higher education systems.
Therefore, the Master of Science degree conferred by CIHEAM through the Mediterranean Agronomic Institute of Bari is accepted by Italian universities by bilateral agreements. Procedures are under way to have equivalence by law, since Italian higher education systems has introduced the Master programme.

The scheme of the university system in Italy is the following:

University qualification	Admission requirements	Duration in years	Credits	Education received
'Laurea'	Certificate of secondary education	3	180 (60x3)	Basic vocational education
'Laurea specialistica'	'Laurea'	2	120 (60x2)	Advanced vocational education
Specialization Diploma	'Laurea specialistica'	2		Higher education for specific vocational areas
Ph D	'Laurea specialistica'	2-3	60/year	Advanced and experimental education
Master I-II level	'Laurea' or 'Laurea specialistica'	1 or +years	60/year	Higher education