




Schedule for *Invasive Alien Species in a European Perspective* (course BIA000)

FIRST ONLINE PART, May 2024

Time (CET)	Monday, May 6th	Tuesday, May 7th	Wednesday, May 8th	Thursday, May 9th
16.00-17.00	<i>Course introduction: all teachers and students. Presentation of course overview, study guide and important dates (VT)</i>	Pedro M. Anastácio <i>Definition, characteristics of species, steps of the invasion process, sources of information (M1, no.2, VT)</i>	Lars Hillström <i>Introduction to ecological effects of invasive species (M1, no.3, VT)</i> 	Pedro M. Anastácio <i>Biotic resistance, Biotic acceptance, Enemy Release Hypothesis (ERH), Facilitative interactions (e.g. Invasional Meltdown) (M1, no.9, VT)</i>
17.00-18.00	<i>Course introduction (continued) + short break</i>	Diana Cupsa <i>Invasive terrestrial invertebrates and their dispersal mechanisms (M1, no.4, VT)</i>		
18.00-19.00	Victor Rolo <i>Introduction to concepts in ecology and biodiversity (M1, no.1, VT*)</i> 			

*M1, no.1; Module 1, Lecture no. 1.

Virtual Theory (VT), Virtual Practice (VP), In Presence Theory (PT), In Presence Practice (PP)



ONLINE PART, May 2024

Time (CET)	Monday, May 13th	Tuesday, May 14th	Wednesday, May 15th
16.00-17.00	Magdalena Szymura <i>Invasion as a naturalisation-invasion process (M1, no.5, VT)</i>	Rossano Bolpagni <i>Differences freshwater and terrestrial ecosystems - factors of invasions, peculiar habitats (M1, no.10, VT)</i>	Rossano Bolpagni <i>Plants in freshwaters (M1, no.14, VP)</i>
17.00-18.00	Olivier Pays-Volard <i>Aquatic Invasive Alien Rodents in France (M2, no. 5, VT)</i>	Rossano Bolpagni <i>Plants in Italy (M2, No.14, VT)</i>	Elena Tricarico <i>The IPBES report on alien invasive species (M1, no 17, VT)</i>



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ONLINE PART, May 2024

Time (CET)	Monday, May 20th	Tuesday, May 21st	Wednesday, May 22nd	Thursday, May 23rd
16.00-17.00	Rossano Bolpagni <i>Plant invaders in Italy/Emilia-Romagna region</i> (M2, no.7, VT)	Simone Guareschi <i>Lessons from the past: Investigating long-term biological invasions in freshwaters</i> (M1, no. 11, VT)	Frances Lucy <i>Zebra mussel invasion</i> (M1, no.13, VP)	Pedro F. Pereira <i>Invasive bird species in Europe</i> (M2, no. 6, VT)
17.00-18.00	Marta Czarniecka-Wiera <i>Invasive plant species in Poland</i> (M2, no.9, VT)		Frances Lucy <i>Management of invasions in the aquatic environment (control and costs)</i> (M2, nr.3, VT)	

ONLINE PART, May 2024

Time (CET)	Monday, May 27th
16.00-17.00	Luca Mirimin <i>Detection and monitoring of IAS using DNA-based data</i> (M2, no. 21, VT)
17.00-18.00	Frances Lucy <i>Horizon scanning, Risk Assessments</i> (M2, no.22, VT)



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“In presence” in Badajoz, Spain: Monday June 3 - Saturday June 8

Time (CET)	Monday, June 3rd	Tuesday, June 4th	Wednesday, June 5th	Thursday, June 6th	Friday, June 7th	Saturday, June 8th
9.00-10.00	<i>Introduction to the stay in Badajoz</i>	Ilie Telcean <i>Habitat extension and dispersion mechanisms in fish species - from sea to rivers (M1, no.7, PT)</i>	8.00 -14.00 Excursion to River Guadiana Marta Czarniecka-Wiera <i>Invasive plants near Badajoz (M2, Course A; 2 hours, PP)</i>	9.00 – 14.00 Excursion to the fish farm José Martín Gallardo <i>Invasive fish species near Badajoz (M2, Course B; 4 hours, PP)</i>	Ilie Telcean <i>Fish invaders from Romanian freshwaters, practical session (M2, no. 12, PP)</i>	Ilie Telcean <i>Fish invaders from Romanian freshwaters; theory (M2, no.12, PT)</i>
10.00-11.00	<i>Written exam (M1, M2)</i>	Diana Cupsa <i>Practical on identification of invasion pathways of one species/student or several species/student group (M1, no.16, PP)</i>	Pedro F. Pereira, Cristina Castracani <i>Case Study 1 - Citizen Science platforms: IBISurvey project and I-Naturalist compared. M3, no.6; 3-4 hours, PP)</i>	Pedro F. Pereira, Cristina Castracani <i>Case Study 1 - Citizen Science platforms: IBISurvey project and I-Naturalist compared. (M3, no. 6; 1 hour, PP)</i>	Diana Cupsa <i>Invasive invertebrates - related to a practical assessment/assignment (M2, no.13, PT)</i>	Diana Cupsa <i>Can we prevent, control or mitigate IAS impacts? (M2, no.19, PT)</i>
11.30-12.30	Filipe Banha, Pedro M. Anastácio <i>Dispersion mechanisms of Aquatic Invasive Species (M1, no.6, PT)</i>	José Martín Gallardo <i>General introduction - terrestrial - terrestrial and aquatic or ecosystem services lens (M2, no.1)</i>			Diana Cupsa <i>Species at high risk of invasion in the future (Eastern and Western European focus) (M2, no.15, PT)</i>	José Manuel Naranjo Gomez <i>Detection and monitoring of IAS using Earth observation data (M2, no.20, PT)</i>

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12.30-13.30	Jacek Urbaniak <i>Ecosystem functions and services impacted by terrestrial plants</i> (M1, no.12, PT)	Jacek Urbaniak <i>Management of land invasions (control and costs)</i> (M2, no.2, PT)			Ilie Telcean <i>Difficulties in prevention on invasive fishes spreading in fish farms</i> (M2, no. 17, PT)	Conclusion of the stay in Badajoz. <i>Information about the next online part of the course.</i> <i>Group photo and Good byes</i>
13.30-14.00		Frances Lucy, <i>Biosecurity</i> (M2, no.16, PT)			<i>Preparations for panel debate</i>	Departure
LUNCH						
16.00-17.00	Mafalda Gama <i>Modelling of potential distribution of invasive species in the context of climate changes</i> (M1, no.8, PT)	Alain Pagano <i>Invasive amphibians with focus on Xenopus laevis</i> (M2, no.4, PT)	Pedro F. Pereira, Cristina Castracani <i>Case Study 1 - Citizen Science platforms: IBISurvey project and I-Naturalist compared. Group work on Citizen Science</i> (M3, no. 6, PT)	Marta Czarniecka-Wiera, Jacek Urbaniak <i>Conclusions of the excursion (regarding the invasive plants)</i>	All teachers <i>Panel debate on invasive alien species management, student exercise</i> (M3, no.13, PP)	
17.00-18.00	Mafalda Gama, Filipe Banha <i>Invasive Freshwater species in the Iberian Peninsula</i> (M2, no.8, PT)	Cristina Castracani <i>Introduction to Citizen Science and its role in managing IAS</i> (M3, no.5, PT)		Jacek Urbaniak <i>Prevention, control and mitigation of terrestrial invasive plants</i> (M2, no.18, PT)		
18.00-19.00	Mafalda Gama, Filipe Banha <i>Practicals on dispersal</i> (M1, no.15. PP)		19.00 José Martín Gallardo <i>Information about fish farm excursion</i>	<i>Written exam, second chance</i>		

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SECOND ONLINE PART, June 2024

Time (CET)	Tuesday, June 11th	Wednesday, June 12th	Thursday, June 13th	Friday, June 14th
16.00-17.00	Mafalda Gama <i>How Climate Change affects IAS (M3, no.1, VT)</i>	Ilie Telcean, Frances Lucy <i>How society affects IAS (M3, no.2, VT)</i>	Diana Cupsa <i>How IAS can affect society (M3, no.4, VT)</i>	Diana Cupsa <i>National legislation in Romania, the legiferation process with a case study on ragweed prevention law (M3, no.12, VT)</i>
17.00-18.00		Filipe Banha, Pedro M. Anastácio <i>Public perception of the impact of invasive species (M3, no.3, VT)</i>	Rui Lourenço <i>Case Study 2 - eBird: an online bird observation platform to detect and monitor invasive birds (M3, no.7, VT)</i>	

ONLINE PART, June 2024

Time (CET)	Monday, June 17th	Tuesday, June 18th	Thursday, June 20th
16.00-17.00	Pedro M. Anastácio <i>Case Study 3 - LIFE INVASAQUA: a communication project (M3, no.8, VT)</i>	Eugenio Gervasini <i>European Legislation through implementation in EU member states - EASIN (M3, no.11, VT)</i>	Frances Lucy <i>European Legislation through implementation in EU member states (M3, no.10, VT)</i>

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