

Hanoi, September 26, 2024

DECISION
On approving the teaching plan of master's programs
in academic year 2024-2025

RECTOR
UNIVERSITY OF SCIENCE AND TECHNOLOGY OF HANOI

Pursuant to Decision No. 2067/QĐ-TTg dated December 9th, 2009 of the Prime Minister on the establishment of University of Science and Technology of Hanoi (USTH);

Pursuant to Decision No. 2557/QĐ-TTg dated December 30th, 2016 of the Prime Minister on Regulations on organization and operation of USTH;

Pursuant to Decision No. 228/QĐ-ĐHKHCN dated March 26th, 2024 of the Rector of USTH on issuing the Master's Academic Policies;

At the proposal of Director of Department of Academic Affairs.

DECIDES:

Article 1. To approve the teaching plan of master's programs of University of Science and Technology of Hanoi in academic year 2024-2025 as detailed in the Annexes promulgated with this Decision.

Article 2. Director of Administration, Director of Department of Academic Affairs, Directors of academic departments, Director of General Education Department, Director of Foreign Language Center, Head of Organization - Personnel Department, Head of Accounting and Finance Department, Director of Quality Assurance and Examination Department and involved individuals shall be in charge of implementing this Decision./.

Recipients:

- As Article 2;
- Rector;
- VR. NHD;
- VR. TDP;
- Archive: VT, DAA.MH.

PRINCIPAL RECTOR

(Signed and sealed)

Prof. Jean-Marc Lavest

**ANNEX 1: TEACHING PLAN OF MASTER'S PROGRAM IN ADVANCED MATERIALS SCIENCE AND NANOTECHNOLOGY
IN ACADEMIC YEAR 2024-2025**

*(Promulgated with Decision No. 878 /QĐ-ĐHKHCN dated September 26, 2024 on approving the teaching plan of master's programs
in academic year 2024-2025)*

1.1. TEACHING PLAN OF MI

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	B107	Applied numerical tools (python)	2	20	20			M	Michael Amato	I	10/2024	02/2025
2	B122	Bibliographic and international project	3	20	20			M	Jean-Christophe Lacroix, Benoit Piro, Nguyễn Văn Quỳnh	F	10/2024	02/2025
3	B102	Thermodynamics	3	20	20			M	Florent Calvayrac, Sébastien Teychené	I	10/2024	02/2025
4	B104	Advanced Electrochemistry for sustainable development	3	25	20	5		M	Nguyễn Văn Quỳnh	F	10/2024	02/2025
5	P204	Physics of semi-conductors and electronic devices	3	22	22			M	Julien Laverdant	I	10/2024	02/2025
6	B106	Organic and Coordination chemistry for sustainable development	3	22	20	2		M	Bernd Schollhorn	I	10/2024	02/2025
7	B108	Physico chemistry of interfaces	3	20	20			M	Vũ Thị Thu	F	10/2024	02/2025
8	C203	Chemical Functionalisation of Surfaces - Conducting Polymers	2	20	20			M	Nguyễn Văn Quyền	F	10/2024	02/2025
9	B112	Magnetic properties of materials	3	26	20	6		M	Philippe Lecocour, Nguyễn Thị Ngọc	F+I	10/2024	02/2025
10	C1	English M1	2.5	100	100			M	Nguyễn Thị Ngọc Thảo, Nguyễn Hồng Nga, Nguyễn Ngọc Anh, Bùi Hoài Hương, invited lecturers	F+I	10/2024	02/2025

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 2												
11	FRM1	French M1	1	60	60			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	02/2025	07/2025
12	MMS1.001	Science and Technology Management	1.5	20	20			M	Nguyễn Tường Lan	I	02/2025	07/2025
13	B123	Introduction to Molecular Modeling	2	20	20			M	François Maurel, Nguyễn Thị Vân Oanh	I	02/2025	07/2025
14	B124	Optical properties of materials	3	20	20			M	Corinne Chanéac	I	02/2025	07/2025
15	C206	Chemistry of nanomaterials for sustainable development	3	20	20			M	Fayna Mammeri	I	02/2025	07/2025
16	B118	Polymer materials for sustainable development	3	20	20			M	Benoit Piro	F	02/2025	07/2025
17	B119	Spectroscopy techniques	3	20	20			M	Philippe Daniel, Nguyễn Lương Lâm	F+I	02/2025	07/2025
18	B120	Microscopy techniques	3	20	20			M	Nordin Felidj	I	02/2025	07/2025
19	B111	Experimental Unit: Electrodeposition Chemical preparation VD Deposition TP AFM/STM SEM	4	40	40			M	Nguyễn Lương Lâm, Nguyễn Văn Quỳnh, Nguyễn Thị Ngọc, Nguyễn Thị Thanh Ngân	F	02/2025	07/2025
20	B110	M1 Internship	9					M			05/2025	08/2025

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1.2. TEACHING PLAN OF M2

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	FRM2	French M2	2	40	40			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	10/2024	02/2025
2	MMS2.001	Science and Technology Innovation Management	1.5	20	20			M	Nguyễn Tường Lan	I	10/2024	02/2025
3	MMS2.002	Research method in Science and Technology Studies	1.5	20	12	8	8	M	Nguyễn Hồng Nam	F	10/2024	02/2025
4	B206	Vietnamese academics, industrial and International collaboration landscapes	2	23	15	8		M	Phạm Gia Khánh, Phan Ngọc Hồng	I	10/2024	03/2025
5	C202	Molecular electronics	2	20	20			M	Jean-Christophe Lacroix	F	10/2024	03/2025
6	B204	Organic electronics	2	20	20			M	Jean-Manuel Raimundo	I	10/2024	03/2025
7	P301	Molecular Magnetism	2	20	20			M	Tallal Mallah	I	10/2024	03/2025
8	B202	Material for Photovoltaics	2	20	20			M	Thanh-Tuan Bui	I	10/2024	03/2025
9	B207	Materials for batteries and supercapacitors	2	20	20			M	Lê Trọng Lư	I	10/2024	03/2025
10	B203	Biosensors	2	20	20			M	Benoit Piro, Vũ Thị Thu	F	10/2024	03/2025
11	C201	Nanostructured Polymers	2	20	20			M	Sagriario Pascual	I	10/2024	03/2025

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
12	P202	Nanophotonics	2	20	20			M	Olivier Pluchery	I	10/2024	03/2025
13	C209	Molecular Modeling of organic materials	2	20	20			M	Mahamadou Seydou	I	10/2024	03/2025
14	P205	Numerical simulation	2	20	20			M	Mathieu Salanne	I	10/2024	03/2025
15	P207	MEMS – NEMS	3	34	34			M	Louis Renaud, Nguyễn Văn Quỳnh	F+I	10/2024	03/2025
Semester 2												
16	B210	M2 Internship	30					M			03/2025	09/2025

**ANNEX 2: TEACHING PLAN OF MASTER'S PROGRAM IN INFORMATION AND COMMUNICATION TECHNOLOGY
IN ACADEMIC YEAR 2024-2025**

(Promulgated with Decision No. 878 /QĐ-ĐHKHCN dated September 26, 2024 on approving the teaching plan of master's programs in academic year 2024-2025)

2.1. TEACHING PLAN OF MI

No.	Module code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	BC4.01	Mathematics Tool for Data Science	5	50	40		10	M	Trần Hoàng Tùng	F	10/2024	02/2025
2	BC4.02	Information Systems for Data Science	5	50	40	10		M	Nghiêm Thị Phương, Nguyễn Hoàng Hà	F	10/2024	02/2025
3	BC1.01	Programming techniques	5	50	30	20		M	Emmanuelle Darles, Lilian Aveneau	I	10/2024	02/2025
4	BC2.01	Statistics for Data Science	5	50	40	10		M	Cán Văn Hào	I	10/2024	02/2025
5	BC1.02	Basic modelling techniques	5	50	40	10		M	Giang Anh Tuấn	F	10/2024	02/2025
6	C1	English M1	2.5	100	100			M	Nguyễn Thị Ngọc Thảo, Nguyễn Hồng Nga, Nguyễn Ngọc Anh, Bùi Hoài Hương, invited lecturers	F+I	10/2024	02/2025
Semester 2												
7	FRM1	French M1	1	60	60			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	02/2025	07/2025

No.	Module code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
8	MMS1.001	Science and Technology Management	1.5	20	20			M	Nguyễn Tường Lan	I	02/2025	07/2025
9	BC3.01	System Architectures	5	50	40		10	M	Camelia Slimani, Daniel Hagimont	F+I	02/2025	06/2025
10	BC1.03	Advanced modelling techniques	5	50	30		20	M	Laure Petrucci, Kais Klai	I	02/2025	06/2025
11	BC2.03	Machine Learning	5	50	20	20	10	M	Emmanuel Viennet, Đoàn Nhật Quang	F+I	02/2025	06/2025
12	BC4.03	Deep Learning	5	50	20	20	10	M	Trần Giang Sơn	F	02/2025	06/2025
13	BC3.02	Security and Ethics for Data	2.5	25	20		5	M	Trần Trung Chuyên	I	02/2025	06/2025
14	BC2.02	From sensor to user	2.5	25	20		5	M	Trần Trung Chuyên	I	02/2025	06/2025
15	MI2.05-M1	M1 Internship	5					M			07/2025	08/2025

2.2. TEACHING PLAN OF M2

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	FRM2	French M2	2	40	40			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	10/2024	02/2025
2	MMS2.001	Science and Technology Innovation Management	1.5	20	20			M	Nguyễn Tường Lan	I	10/2024	02/2025
3	MMS2.002	Research method in Science and Technology Studies	1.5	20	12		8	M	Nguyễn Hồng Nam	F	10/2024	02/2025
4	BC1.04	Modeling and simulation of complex systems	5	50	30	20		M	Alexis Drogoul	I	10/2024	02/2025
5	BC3.04	Cloud and big data	5	50	30	20		M	Boris Teabe, Daniel Hagimont	I	10/2024	02/2025
6	BC2.04	Data visualization	5	50	30	20		M	Lilian Aveneau, Karel Bertet	I	10/2024	02/2025
7	BC3.04	Advanced programming for HPC	5	50	40	10		M	Lilian Aveneau, Trần Giang Sơn	F+I	10/2024	02/2025
8	BC4.04	Machine Learning and Deep Learning Applications	5	50	30	20		M	Pascal Bourdon, Nicolas Sidère	I	10/2024	02/2025
Semester 2												
9	MI4.1	M2 Internship	30					M			03/2025	08/2025

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ANNEX 3: TEACHING PLAN OF MASTER'S PROGRAM IN MEDICAL BIOTECHNOLOGY - PLANT BIOTECHNOLOGY - PHARMACOLOGY
IN ACADEMIC YEAR 2024-2025

(Promulgated with Decision No. 878 /QĐ-ĐHKHCN dated September 26, 2024 on approving the teaching plan of master's programs in academic year 2024-2025)

3.1. TEACHING PLAN OF M1

Semester 1												
No.	Module Code	Modules	ECTS	Total syllabus hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
1	BP10	Molecular Biology	5	50	40	10		M	Trịnh Duy Chí	F	10/2024	02/2025
2	BP11	Biochemistry and enzymology	5	50	40		10	M	Thanh Ha Duong, Văn Thị Như Ngọc	I	10/2024	02/2025
3	BP12	Intruduction to pharmacology	4	50	34	4	12	M	Roger Besançon, Stéphanie Agüero, Nguyễn Thị Kiều Oanh, Nguyễn Phương Nga, Nguyễn Thị Vân Anh	F+I	10/2024	02/2025
4	BP13	Intruduction to biotechnology	4	37	29		8	M	Michael Quentin, Trần Tuấn Anh, Lê Thanh Hương	F+I	10/2024	02/2025
5	BP14	Bioinformatic	4	50	40	10		M	Nguyễn Cường, Trần Thị Thanh Tâm	F+I	10/2024	02/2025
6	BP15	Statistics and biological experimentation	4	44	40		4	M	Mai Thị Phương Nga, Nguyễn Thị Vân Anh	F	10/2024	02/2025
7	BP16	Scientific communication, valorization, Project management	4	44	44			M	Eric Gontier, Nguyễn Văn Phượng	F+I	10/2024	02/2025
8	C1	English M1	2.5	100	100			M	Nguyễn Thị Ngọc Thảo, Nguyễn Hồng Nga, Nguyễn Ngọc Anh, Bùi Hoài Hương, invited lecturers	F+I	10/2024	02/2025

No.	Module Code	Modules	ECTS	Total syllabus hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 2												
9	FRM1	French M1	1	60	60			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	02/2025	07/2025
10	MMS1.001	Science and Technology Management	1.5	20	20			M	Nguyễn Tường Lan	I	02/2025	07/2025
11	BP30	M1 internship	10								04/2025	07/2025
Drug Development												
12	BP20	Medicinal chemistry	5	46	36		10	M	Marie-Geneviève Dijoux, Nguyễn Thị Vân Anh, Lê Hồng Luyến	F+I	02/2025	05/2025
13	BP21	Pharmaceutics and biopharmacy	5	50	28	22		M	Nguyễn Hồng Vân, Nguyễn Thị Kiều Oanh	F	02/2025	05/2025
14	BP22	Concepts in biochromatography	5	50	24	26		M	Lê Thị Thu Hằng	F	02/2025	05/2025
Biomedicine												
15	BP23	General immunology	5	53	37	16		M	Nguyễn Thị Trang Huyền, Trần Thị Thu Phương	F	02/2025	05/2025
16	BP24	Biomedical Biotechnology	5	53	37	16		M	Grigoro Boyan, Nguyễn Quang Huy, Lê Thị Thu Hằng, Đào Thị Mai Lan	F+I	02/2025	05/2025
17	BP25	General oncology	5	51	39	12		M	Nguyễn Phương Nga, Nguyễn Thị Trang Huyền, Grigoro Boyan, Roger Besançon	F+I	02/2025	05/2025

No.	Module Code	Modules	ECTS	Total syllabus hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
<i>Plant Biotechnology</i>												
18	BP26	Plant Genetic and development	5	50	45		5	M	Trình Duy Chí, Lê Thị Vân Anh	F	02/2025	05/2025
19	BP27	Plant Micro-organism interactions	5	60	45		15	M	Pierre Czernic, Nguyễn Văn Phương	F+I	02/2025	05/2025
20	BP28	Plant metabolic engineering	5	45	25	8	12	M	Michelle Boitel, Nguyễn Thị Kiều Oanh, Mai Thị Phương Nga, Tô Thị Mai Hương	F+I	02/2025	05/2025

3.2. TEACHING PLAN OF M2

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	FRM2	French M2	2	40	40			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thủy Linh, invited lecturers	F+I	10/2024	02/2025
2	MMS2.001	Science and Technology Innovation Management	1.5	20	20			M	Nguyễn Tường Lan	I	10/2024	02/2025
3	MMS2.002	Research method in Science and Technology Studies	1.5	20	12	8		M	Nguyễn Hồng Nam	F	10/2024	02/2025
Drug Development												
4	BP300	From natural product to drugs and medicines	3	32	32			M	Trần Tuấn Anh, Nguyễn Thị Kiều Oanh	F	10/2024	02/2025
5	BP301	Nanobiotech, biosensors and nano delivery	4	48	30	18		M	Benoit Piro, Vũ Thị Thu, Nguyễn Hồng Vân	F+I	10/2024	02/2025
6	BP302	Pharmaceutics and pharmacokinetics	4	48	40	8		M	Nguyễn Hồng Vân, Nguyễn Thị Vân Anh	F	10/2024	02/2025
7	BP303	Molecular engineering	4	48	32	16		M	Lê Thị Thu Hằng, Raphaël Terreux, Stéphanie Agüero	F+I	10/2024	02/2025
8	BP304	Experimental Pharmacology	3	38	18	10	10	M	Nguyễn Thị Vân Anh, Nguyễn Phương Nga	F	10/2024	02/2025
9	BP305	Structural analysis in biology	3	27	20		7	M	Maud Larregola	I	10/2024	02/2025
10	BP306	Immunoinformatics, bioinformatics and antibodies	4	43	33		10	M	Sofia Kossida, Trần Thị Thanh Tâm	F+I	10/2024	02/2025

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
<i>Biomedicine</i>												
11	BP307	From genomic to system biology	4	40	40			M	Nguyễn Cẩm Linh, Nguyễn Xuân Hưng	F+I	10/2024	02/2025
12	BP308	Expression system and bioreactions	4	43	33	10		M	Đông Văn Quyền, Phí Quyết Tiến	I	10/2024	02/2025
13	BP309	Genetic, cellular and molecular mechanisms of human diseases	4	40	36	4		M	Nguyễn Thy Ngọc, Nguyễn Thùy Dương	F+I	10/2024	02/2025
14	BP310	Stem cell and nuclear transfer	3	35	30	5		M	Nguyễn Trung Nam, Hoàng Thị Thu Hằng	I	10/2024	02/2025
15	BP311	Molecular biology of emerging viruses and other pathogens	3	39	35	4		M	Anne Laure Banuls, Nguyễn Quang Huy, Trần Thị Thu Phương	F+I	10/2024	02/2025
16	BP305	Structural analysis in biology	3	27	20		7	M	Maud Larregola	I	10/2024	02/2025
17	BP306	Immunoinformatics, bioinformatics and antibodies	4	43	33		10	O	Sofia Kossida, Trần Thị Thanh Tâm	F+I	10/2024	02/2025
18	BP312	Plant functional and comparative genomics	4	40	27	9	4	O	Đặng Thị Minh Nguyệt	I	10/2024	02/2025
<i>Plant Biotechnology</i>												
19	BP312	Plant functional and comparative genomics	4	40	27	9	4	M	Đặng Thị Minh Nguyệt	I	10/2024	02/2025
20	BP313	Micropropagation, transformation, regeneration of tropical plants	4	40	20		20	M	Mai Thi Phuong Nga	F	10/2024	02/2025
21	BP314	Engineering stress resistance in tropical crops	4	37	23	8	6	M	Pierre Frenco, Tô Thị Mai Hương, Trịnh Duy Chí, Nguyễn Văn Phụng, Michael Quentin	F+I	10/2024	02/2025

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
22	BP315	Genetic and molecular basis of plant productivity	4	30	30			M	Stéphane Jouannic, Lê Thị Vân Anh	F+I	10/2024	02/2025
23	BP316	Molecular markers and selection	5	50	50			M	Phạm Bích Ngọc, Nguyễn Văn Phụng	F+I	10/2024	02/2025
24	BP317	Phytopathologie	4	45	30	9	6	M	Nguyễn Văn Phụng	F	10/2024	02/2025
Semester 2												
25	BP40	M2 Internship	30					M			03/2025	08/2025

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ANNEX 4: TEACHING PLAN OF MASTER'S PROGRAM IN SPACE: EARTH OBSERVATION - ASTROPHYSICS - SATELLITE TECHNOLOGY
IN ACADEMIC YEAR 2024-2025

(Promulgated with Decision No. 878 /QĐ-ĐHKHCN dated September 26, 2024 on approving the teaching plan of master's programs in academic year 2024-2025)

4.1. TEACHING PLAN OF M1

No.	Subject Code	Subject	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	C-12	Introduction to Astrophysics and Earth Observation	3	30	27	3		M	Phạm Thị Tuyết Nhung, Tống Sĩ Sơn	F+I	11/2024	02/2025
2	C-13	Introduction to Satellite Technologies	2	20	20			M	Lê Xuân Huy	I	11/2024	02/2025
3	C-14	Optical, Infrared and Microwave	4	40	40			M	Isabelle Grenier, Cyrille Rosset, Thierry Koleck	I	11/2024	02/2025
4	C-15	Signal Processing	3	30	24	6		M	Isabelle Grenier, Guillaume Patanchon	I	11/2024	02/2025
5	C-16	Algorithmics and Programmation	2	20	10		10	M	Nguyễn Xuân Thành	I	11/2024	02/2025
6	C-17	Physics I - Electromagnetism and Statistical physics	3	32	25		7	M	Cyrille Rosset, Clement Leloup	I	11/2024	02/2025
7	C-18	Celestial Mechanics	2	20	20			M	Hubert Halloin	I	11/2024	02/2025
8	S-11	Physics II - Relativity and Quantum Mechanics	3	30	25		5	M	Clement Leloup, Cao Văn Sơn	I	11/2024	02/2025
9	S-12	Earth and Planets	3	30	30			M	Ngô Đức Thành, Sonia Fornasier	F+I	11/2024	02/2025

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No.	Subject Code	Subject	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
10	C1	English M1	2.5	100	100			M	Nguyễn Thị Ngọc Thảo, Nguyễn Hồng Nga, Nguyễn Ngọc Anh, Bùi Hoài Hương, invited lecturers	F+I	10/2024	02/2025
Semester 2												
11	FRM1	French M1	1	60	60			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	02/2025	07/2025
12	MMS1.001	Science and Technology Management	1.5	20	20			M	Nguyễn Tường Lan	I	02/2025	07/2025
13	C-21	Detectors and space instrumentation	2	20	20			M	Cao Văn Sơn, Phạm Ngọc Điệp	I	03/2025	06/2025
14	C-22	Earth Observation: Methods and Applications I	3	35	35			M	Catherine Prigent, Filipe Aires	I	03/2025	06/2025
15	C-23	Numerical Methods	3	38	28	10		M	Stéphane Jacquemound, Lê Ngọc Trầm	I	03/2025	06/2025
16	C-24	Tool Suite for Satellite Design	2	30	20	10		M	Jean-Francois Aubrun, Joel Michaud	I	03/2025	06/2025
17	C-25	Spacecraft architecture	3	30	30			M	Laurent Boissnard	I	03/2025	06/2025
18	C-26	M1 Internship	5					M		I	03/2025	06/2025
19	S-21	Image Processing basics	2	20	10	10		M	Tống Sĩ Sơn	F	03/2025	06/2025

No.	Subject Code	Subject	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
20	S-22	Physics III - Molecular physics	3	30	20		10	M	Isabelle Kleiner, Hà Trần	I	03/2025	06/2025
21	S-23	Astrophysics	3	30	30			M	Sylvain Chaty, Olivia Venot	I	03/2025	06/2025
22	S-24	Image Processing for remote sensing	4	30	30			M	Paul Passy, Hồ Tổng Minh Định, Phạm Đức Bình	F+I	03/2025	06/2025

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4.2. TEACHING PLAN OF M2

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	FRM2	French M2	2	40	40			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	10/2024	02/2025
2	MMS2.001	Science and Technology Innovation Management	1.5	20	20			M	Nguyễn Tường Lan	I	10/2024	02/2025
3	MMS2.002	Research method in Science and Technology Studies	1.5	20	12		8	M	Nguyễn Hồng Nam	F	10/2024	02/2025
4	C-32	Observational techniques	3	30	25		5	M	Cedric Leyrat, Alain Doressoundiram	I	10/2024	02/2025
5	C-33	Methods for Astrophysics	2	20	10	10		M	Phạm Tuấn Anh	I	10/2024	02/2025
6	C-34	Space project - Observation	3	40	20		20	M	Benoit Mosser	I	10/2024	02/2025
7	C-36	Geographical Information System	2	20	10	10		M	Jean-Paul Derooin	I	10/2024	02/2025
8	S-31	Remote Sensing of Continental Surface	3	30	30			M	Paul Passy, Hồ Tổng Minh Đĩnh, Phạm Đức Bình	F+I	10/2024	02/2025
9	S-32	Remote Sensing of the Atmosphere	3	30	19		11	M	Juan Cuesta, Ngô Đức Thành	F+I	10/2024	02/2025
10	T-23	Global Navigation Satellite Systems	3	30	20		10	M	Denis Puy	I	10/2024	02/2025

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
11	S-34	Advanced Astrophysics and Planets	3	40	40			M	Daniel Rouan, Alain Doressoudiram, Olivia Venot	I	10/2024	02/2025
12	T-33	Engineering for earth observation Space Systems	3	20	20			M	Linda Tomasini	I	10/2024	02/2025
Semester 2												
13	C-41	M2 Internship	30					M			03/2025	08/2025

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ANNEX 5: TEACHING PLAN OF MASTER'S PROGRAM IN APPLIED ENVIRONMENTAL SCIENCES IN ACADEMIC YEAR 2024-2025
(Promulgated with Decision No. **878** /QĐ-ĐHKHCN dated **September 26, 2024** on approving the teaching plan of master's programs
in academic year 2024-2025)

5.1. TEACHING PLAN OF M1

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	ES1_02	Statistics, Programming 1	2.5	25	25			M	Phạm Lê Anh	F	10/2024	02/2025
2	ES1_03	Environmental regulations	2.5	25	15		10	M	Đào Thành Dương	F	10/2024	02/2025
3	ES1_04	Environmental microbiology	2.5	25	22.5	2.5		M	Christine Dupuy, Nguyễn Thanh Hiền	F+I	10/2024	02/2025
4	ES1_05	Environmental chemistry	5	50	30	20		M	Emmanuel Guillon, Bùi Văn Hội	F+I	10/2024	02/2025
5	ES1_06	Atmosphere, Climate	2.5	25	15	10		M	Nguyễn Xuân Thành	F	10/2024	02/2025
6	ES1_07	Functioning Ecology	2.5	25	20	2	3	M	Nguyễn Thanh Hiền	F	10/2024	02/2025
7	ES1_08	Fluid mechanics	2.5	25	19	6		M	Bùi Văn Tuấn, Phạm Lê Anh	F	10/2024	02/2025
8	ES1_09	Free surface flows	2.5	25	15	10		M	Nguyễn Thu Hiền	I	10/2024	02/2025
9	ES1_11	Human health	2.5	25	25			M	Ascel Samba-Louaka, Mai Hương	F+I	10/2024	02/2025
10	C1	English M1	2.5	100	100			M	Nguyễn Thị Ngọc Thảo, Nguyễn Hồng Nga, Nguyễn Ngọc Anh, Bùi Hoài Hương, invited lecturers	F+I	10/2024	02/2025

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 2												
11	FRM1	French M1	1	60	60			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	02/2025	07/2025
12	MMS1.001	Science and Technology Management	1.5	20	20			M	Nguyễn Tường Lan	I	02/2025	07/2025
13	ES2_01	Field course, Applied project	5	50	10	40		M	Nguyễn Thanh Hiền, Vũ Cẩm Tú, Dominique Serca, Frederic Guerin	F+I	02/2024	07/2024
14	ES2_02	Remote Sensing of Environment	2.5	35	15		20	M	Catherine Prigent, Filipe Aires	I	02/2024	07/2024
15	ES2_03	Statistics, Programming 2	2.5	25	5	10	10	M	Alexei Sentchev	I	02/2024	07/2024
16	ES2_04	Hydrology and hydrogeology	5	50	36		14	M	Nguyễn Quốc Sơn	F	02/2024	07/2024
17	ES2_05	Geochemistry	2.5	25	15		10	M	Yann Sivry, Marc Benedetti	I	02/2024	07/2024
18	ES2_06	Ecosystem services	2.5	30	25	5		M	Yves Caubet, Freddie-Jeanne Richard, Nguyễn Thanh Hiền	F+I	02/2024	07/2024
19	ES2_07	Biodiversity and conservation	2.5	30	15		15	M	Élodie Réveillac	I	02/2024	07/2024
20	ES2_10	Urban water management	5	50	30		20	M	Guilhem Dellinger, Phạm Lê Anh	F+I	02/2024	07/2024
21	ES2_11	Aquatic living resources	2.5	25	15		10	M	Maria Kazour, Frida Lasram, Mai Hương	F+I	02/2024	07/2024

5.2. TEACHING PLAN OF M2

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	FRM2	French M2	2	40	40			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	10/2024	02/2025
2	MMS2.001	Science and Technology Innovation Management	1.5	20	20			M	Nguyễn Tường Lan	I	10/2024	02/2025
3	MMS2.002	Research method in Science and Technology Studies	1.5	20	12		8	M	Nguyễn Hồng Nam	F	10/2024	02/2025
4	ES3_02	Geomatics	2.5	25	10		15	O	Jean Paul Derooin	I	10/2024	02/2025
5	ES3_03	Samplers, Sensors	2.5	25	20		5	O	Philippe Behra, Vũ Cẩm Tú	F+I	10/2024	02/2025
6	ES3_04	Contaminant transfer	2.5	25	19		6	M	Philippe Behra	I	10/2024	02/2025
<i>Oceanography and Hydrology</i>												
7	ES3_07	Marine biogeochemistry	2.5	25	15		10	M	Trịnh Bích Ngọc, Marine Herrmann	F+I	10/2024	02/2025
8	ES3_08	Marine optics	2.5	25	15		10	M	Hubert Loisel	I	10/2024	02/2025
9	ES3_10	Hydrology modelling	5	50	20	20	10	M	Nguyễn Quốc Sơn	F	10/2024	02/2025
10	ES3_12	Coastal oceanography and oceanographic instrumentation	5	50	30	4	16	M	Alexei Sentichev, Guillaume Fromant, Alexis Chaigneau	I	10/2024	02/2025

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
11	ES3_14	Sediment transport, Estuaries, Nearshore processes	5	50	40	10		M	Sylvain Ouillon, Xavier Bertin, Alexis Chaigneau	I	10/2024	02/2025
<i>Sustainable Water and Ecosystem Protection</i>												
12	ES3_06	Ecotoxicology and bioindicators	5	50	35	15		M	Paco Bustamante, Christine Dupuy, Mai Huong	F+I	10/2024	02/2025
13	ES3_09	Water treatments	5	50	30	10	10	M	Julien Laurent, Jean-Philippe Croue, Phạm Lê Anh	F+I	10/2024	02/2025
14	ES3_11	Ecological engineering	5	50	30		20	M	Nguyễn Thanh Hiền, Phạm Lê Anh	F	10/2024	02/2025
15	ES3_13	Soils	5	50	30	15	5	M	Christian Valentin, Pascal Jourquet, Hermine Huot, Nicolas Bottinelli, Mai Huong	F+I	10/2024	02/2025
Semester 2												
16	ES4_01	Internship	30					M			03/2025	09/2025

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ANNEX 6: TEACHING PLAN OF MASTER'S PROGRAM IN FOOD SAFETY AND QUALITY ASSURANCE IN ACADEMIC YEAR 2024-2025
(Promulgated with Decision No. **878** /QĐ-ĐHKHCN dated **September 26, 2024** on approving the teaching plan of master's programs
in academic year 2024-2025)

TEACHING PLAN OF M1

No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 1												
1	FSS07	Scientific Communication and Project Management in Food Technology	4	45	30	10	5	M	Nguyễn Văn Phương	F	10/2024	02/2025
2	FSS08	Statistics and biological experimentation	4	44	40		4	M	Mai Thị Phương Nga, Nguyễn Thị Vân Anh	F	10/2024	02/2025
3	FSS09	Advanced techniques for microbiological control in food	4	48	30	18		M	Nguyễn Thị Tuyết Nhung, Nguyễn Quang Huy, Phạm Hoàng Nam	F	10/2024	02/2025
4	FSS10	Advanced Food Chemistry	4	45	30	15		M	Lê Hồng Luyến, Trần Tuấn Anh	F	10/2024	02/2025
5	FSS11	Food Quality and Safety Management	4	45	30		15	M	Lê Thị Phương Thảo	I	10/2024	02/2025
6	FSS12	Global Food Safety and Security Challenges	4	45	30		15	M	Lê Thị Hoàng Yến	I	10/2024	02/2025
7	FSS17	Advanced Process and Equipment in Food Technology	4	45	30	15		M	Đỗ Xuân Trường	I	02/2025	07/2025
8	C1	English M1	2.5	100	100			M	Nguyễn Thị Ngọc Thảo, Nguyễn Hồng Nga, Nguyễn Ngọc Anh, Bùi Hoài Hương, invited lecturers	F+I	10/2024	02/2025

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No.	Module Code	Modules	ECTS	Total teaching hours	Lecture Hours	Practical Hours	Tutorial Hours	Mandatory subject (M)/ Optional subject (O)	Lecturer	USTH fulltime lecturer (F)/ Invited lecturer (I)	Start Date	End Date
Semester 2												
9	FRM1	French M1	1	60	60			M	Trần Thị Phương Thảo, Nguyễn Tuấn Anh, Phạm Thị Huyền, Trương Thị Khánh Hòa, Nguyễn Thùy Linh, invited lecturers	F+I	02/2025	07/2025
10	MMS1.001	Science and Technology Management	1.5	20	20			M	Nguyễn Tường Lan	I	02/2025	07/2025
11	FSS13	Modern techniques for Contaminants and toxins analysis in Food Quality Control	5	60	28	32		M	Bùi Văn Hối, Phạm Hoàng Nam	F	02/2025	07/2025
12	FSS14	Food Safety Risk Analysis	4	45	35		10	M	Trần Cao Sơn, Vũ Thị Trang	I	02/2025	07/2025
13	FSS15	Food Safety Audit	4	42	30		12	M	Lê Thị Phương Thảo, Nguyễn Thị Giang	I	02/2025	07/2025
14	FSS16	Traceability in Food Supply Chain Management	4	40	28	12		M	Bùi Bá Chính, Hoàng Quốc Việt	I	02/2025	07/2025
15	FSS25	M1 internship	10					M			04/2025	07/2025

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