Preliminary teaching programme for academic year 2025-26

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					Form of teaching / Method of		Open to exchange	Open to other degree	
Code	Course unit name	Scope (cr)	Period	Languages	completion	Open university studies	students	programmes	Additional information on target groups
	Introductory Course to Materials Research	5 cr	1. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	yes	-
MATR302	Materials Characterization	5 cr	2. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	ves	-
	Solid state physics: crystal structure and atomic dynamics	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	ves	-
MATR3032	Solid state physics: electronic structure and properties	5 cr	4. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	yes	-
MATR305	Nanophysics and Nanochemistry	5 cr	2. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	ves	-
MATR306	Materials Physics	5 cr	1. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	yes	-
	Surface Physics	5 cr	2. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	ves	-
MATR3082	,	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	ves	-
	Radiation Protection	5 cr	4. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	no	ves	-
MATR310	Laboratory Exercises	10 cr	14. period	fi en sv - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	ves	-
MATR311	Synchrotron light in materials science	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	ves	_
MATR315	Radiation Dosimetry	5 cr	12. period	Finnish - Materials, assignments, and guidance also in English	contact teaching	Course unit is only for degree students.	no	yes	_
MATR316	Nuclear Physics	5 cr	2. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	ves	
MATR319	Lääketieteellinen fysiikka	5 cr	34. period	Finnish - Materials, assignments, and guidance also in English	contact teaching	Course unit is only for degree students.	no	yes	_
MATR320	Nano Acoustics I	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	VOC.	yes	
MATR321	Nano Acoustics II	5 cr	4. period	English - Completely in English (or multilingual)		Course unit is only for degree students.	ves	yes	
MATR323	Basics of Monte Carlo Simulations	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	·	yes	yes	<u>-</u>
MATR324	Monte Carlo Simulations in Physics	5 cr	4. period		contact teaching	Course unit is only for degree students.  Course unit is only for degree students.	ves	yes	-
VIATR324	Monte Cario Simulations in Physics	5 CI	4. period	English - Completely in English (or multilingual)	contact teaching	course unit is only for degree students.	yes	yes	-
					including both contact and				
MATR325	Molecular Dynamics Simulations	5 cr	2. period	English - Completely in English (or multilingual)	distance teaching (aka. blended teaching),	Course unit is only for degree students.	voc	ves	
MATR325	Tools of High Performance Computing	5 cr	4. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	yes	-
MATR329	Optics	10 cr	34. period	English - Completely in English (or multilingual)		Course unit is only for degree students.	yes	yes	-
MATR331	Introduction to Biological Physics	5 cr	1. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves		-
MATR332	Physics of Biological Systems	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR333	Modeling of Biological Systems	5 cr	2. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	yes ves	-
	Electronics II	10 cr	34. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	ves	yes	<u>-</u>
MATR341	Surface Chemistry	5 cr	4. period		contact teaching		ves	yes	-
MATR341		5 cr	·	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes		-
MATR345	Determination of Crystal and Molecular Structures	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
	Basics in Polymer Chemistry	5 cr	1. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR346 MATR347	Polymer Physics	5 cr	2. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
	Polymer Chemistry 2: Advanced synthesis and functional materials		4. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR348 MATR348	Laboratory Practicum, p 1-2	5 cr	12. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
	Laboratory Practicum, p 3-4		34. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR351	Rheology	5 cr	other period - intensive period in May	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR355	Functional polymers		4. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR356	Polymers in Medicine	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR359	Solid State Chemistry	5 cr	4. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR361	Thin films	10 cr	12. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR362	Workshop on X-ray diffraction and thermoanalytical methods	5 cr	2. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	Only and to TOM at all the selection of the selection of
AATR364	Seminar in Materials Research	5 cr	14. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	no	yes	Only open to TCM students unless otherwise agreed
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MATR365	Radiation damage in materials	5 cr	14. period	English - Completely in English (or multilingual)	<u> </u>		yes	yes	-
	Carbon capture and utilisation	5 cr	2. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	F
MATR373	Atomic layer deposition and etching	5 cr	3. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR381	Electrochemistry in materials science	5 cr	1. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-
MATR386	Physics of positrons in solids and defects	5 cr	34. period	English - Completely in English (or multilingual)	contact teaching	Course unit is only for degree students.	yes	yes	-