Teaching program Energy Science and Engineering (ESE) PhD course 39° Cycle												
D Course title	Cre	edits	Hours	Instr	uctors	Starts	Month	Ends	Month	Year	Location*	Scientific field
1 Chemical energy conversion: combustion and electro-chemical processes		3	12	Ferone	Roviello	8	July	12	July	2024	Uniparthenope - C/D	CHIM/07
2 Advanced materials for energy systems		3	12	Colangelo		16	Oct	25	Oct	2024	Uniparthenope - C/D	ING-IND/22
Sustainability, life cycle assessment and strategic decision making		3	12	Petrillo		9	Sep	13	Sep	2024	Uniparthenope - C/D	ING-IND/17
Forecasting and analytics in electrical power systems		3	12	De Falco	Bracale	8	Jan	12	Jan	2024	Uniparthenope - C/D	ING-IND/33
Energy Saving		3	12	Vanoli		16	Sep	20	Sep	2024	Uniparthenope - C/D	ING-IND/10
Experimental validation of numerical models for fluid flow problems		3	12	Arpino	Massarotti	1	Apr	5	Apr	2024	Uniparthenope - C/D	ING-IND/10
7 Data acquisition and measurements		3	12	Mauro		5	Feb	16	Feb	2024	Uniparthenope - C/D	Multidisciplinary
Hydrogen and fuel cell systems		3	12	Jannelli	Minutillo	3	June	9	June	2024	Uniparthenope - C/D	ING-IND/09
Control-oriented modeling of automotive engines and hybrid powertrains		3	12	Arsie	Di Ilio	26	June	30	June	2024	Uniparthenope - C/D	ING-IND/09
0 Combustion in thermal machines and advanced porpulsion technologies		3	12	Vaglieco	Guido	2	May	10	May	2024	CNR-STEMS	ING-IND/08
Seminars held by international experts (the title of the seminar and the instructor is approved every growth based on the actual research directions)	ear by the											
Meshless methods		3	6	Sarler		15	Apr	19	Apr	2024	MS Teams	Multidisciplinary
The era of "Twins" A new paradigm for simulation-and-data-based engineering materials, processes, structures, and systems	as applied to	3	6	Chinesta		12	June	24	June	2024	MS Teams	Multidisciplinary
Inverse Thermal Problems		3	6	Nowak		20	May	31	May	2024	MS Teams	Multidisciplinary
Computational fluid dynamics		3	6	Nithiarasu		13	June	21	June	2024	MS Teams	Multidisciplinary

TOT cfu

TOT ore corsi 120

TOT ore seminari 24

The dates of the courses could change. The exact dates of each course are communicated via mail to the students few days before the beginning of the course.

TBA -> To Be Announced C/D -> Centro Direzionale - Isola C4 CNR-STEMS -> Istituto Motori-Via Claudio n.21

* the courses could be held via Teams

Additional seminars/courses
Piattaforma Nature MasterClasses: https://masterclasses.nature.com/