



MASTER'S DEGREE IN MECHANICAL ENGINEERING
FOR ENERGY AND THE ENVIRONMENT - STUDY PLAN A.Y. 2026-2027

Type of Training Activity (TAF):

B = Characterising; C = Related or Supplementary; D = at the Student's Choice; E = Final Examination and Language Knowledge;
F = Further Training Activities

The undersigned _____ born in _____
on _____ matr. D20/ _____ e-mail address _____@studenti.unina.it
enrolled in the first year of the Master's Degree in Mechanical Engineering for the Energy and the Environment in the academic year _____, hereby declares the intention to submit / modify the Study Plan as indicated below:

Curriculum	Automatic Approval	Individual	+ Minor	Modification of previous plan
<u>Sustainable Energy</u>				

Table O4: Non-modifiable characterizing courses (18 CFU):

Teaching (the first title corresponds to the one in the language of delivery)	Year/ Semester	CFU	SSD	TAF	
Heat Transfer Principles in Engineering <i>Fondamenti di Trasmissione del Calore per l'Ingegneria</i>	I / I	9	IIND-07/A (ex ING-IND/10)	B	Required
Principles and Applications of Fluid Machinery <i>Principi e Applicazioni delle Macchine a Fluido</i>	I / II	9	IIND-06/A (ex ING-IND/08)	B	Required

Table O4: Compulsory characterizing courses (24 CFU):

Teaching (the first title corresponds to the one in the language of delivery)	Year/ Semester	CFU	SSD	TAF	Select at least 1 Teaching
Advanced Energy Systems and Technologies <i>Sistemi e Tecnologie Energetiche Avanzate</i>	II / I & II	12	IIND-07/A (ex ING-IND/10)	B	
Advanced Powertrains for a Sustainable Mobility <i>Sistemi di Propulsione Avanzati per la Mobilità Sostenibile</i>	II / I & II	12	IIND-06/A (ex ING-IND/08)	B	
Teaching of TAF B (Tables B4 or C4) of 6 CFU (Specify):	____ / ____	6		B	Substitute Teaching
Teaching of TAF B (Tables B4 or C4) of 6 CFU (Specify):	____ / ____	6		B	Substitute Teaching

Notes for compilation:

First Study Plan Presentation

- Do not select anything for Automatic Approval Plan. You will find on Segrepass the 2 courses listed in Table O4
- For an Individual Plan, select (in the orange cells) at least 1 course from the 2 listed. Specify 2 courses of 6 substitute credits in the rows highlighted in orange, chosen from those of Table B4 (if you have selected the first course and intend to replace the second) or Table C4 (if you have selected the second course and intend to replace the first). That is, the SSD of the replaced course must be preserved

Modification of a previously approved study plan:

- Clearly indicate in the notes at the end of the form the changes made compared to the previously approved plan.

Table A4): Related Subjects: Select 2 courses for a total of 15 credits:

Teaching (the first qualification corresponds to the one in the language of delivery)	Year/ Semester	CFU	SSD	TAF	Select 2 courses with a tick
Energy Management for Transportation (*) <i>Gestione dell'Energia per i Trasporti</i>	I o II / I	9	IIND-08/A (ex ING-IND/32)	C	
Electrical Technologies for the Ecological Transition (*) <i>Tecnologie elettriche per la transizione ecologica</i>	I o II / II	6	IJET-01/A (ex ING-IND/31) IIND-08/A (ex ING-IND/32)	C	
Smart, Resilient and Sustainable City (*) <i>Città Intelligente, Resiliente e Sostenibile</i>	I o II / I	9	CEAR-12/A (ex ICAR/20)	C	
Circular Bioeconomy for the ecological transition (*) <i>Bioeconomia Circolare per la Transizione Ecologica</i>	I o II / II	6	CEAR-02/A (ex ICAR/03)	C	
Sustainable Combustion Processes for Energy Conversion <i>Processi di Combustione Sostenibili per la Conversione dell'Energia</i>	I / I	9	ICHI-02/A (ex ING-IND/25)	C	
Industrial Ecology and Green Engineering (*) <i>Ecologia Industriale e Ingegneria Verde</i>	I o II / II	6	ICHI-02/A (ex ING-IND/25)	C	
Teaching of TAF C (6 or 9 CFU) from Table A.TG, B.TG in ENGLISH (Specify):				C	

Notes for compilation:

First Study Plan Presentation

- **Do not select anything for an Automatic Approval Plan. You will find on Segrepass the 6 courses listed in Table A4.**
- **For the Individual Plan, select at least 1 course among the top 6 and indicate a replacement course IN ENGLISH among those of TAF C of the Tables A.TG or B.TG to complement the 15 CFU.**
- **For the Minor Plan, select at least one course indicated with (*) or specified in the row highlighted in orange. The sum of the credits selected for the Minor in Tables A and D4 must be at least equal to 15 (i.e., if you have entered a 6 CFU exam here, in Table D4 you will have to enter a 9 CFU exam and vice versa)**

Modification of a previously approved study plan:

- **Clearly indicate in the notes at the end of the form the changes made compared to the previously approved plan.**

Table B4): Characterizing courses of your choice: Select 2 courses for a total of 12 CFU:

Teaching (the first qualification corresponds to the one in the language of delivery)	Year/ Semester	CFU	SSD	TAF	Select at least 1 course with a tick
Fuel Cells for Power Generation and Energy Storage <i>Celle a Combustibile per la Produzione e lo Stoccaggio dell'Energia</i>	II / I	6	IIND-06/A (ex ING-IND/08)	B	
Gas Turbines for Sustainable Power Production <i>Turbine a Gas per la Produzione Sostenibile di Energia</i>	II / I	6	IIND-06/A (ex ING-IND/08)	B	
Low Carbon Boilers and Industrial Furnaces <i>Caldaie a bassa CO2 e Fornaci Industriali</i>	II / II	6	IIND-06/B (ex ING-IND/09)	B	
Hydro, Wind and Ocean Energy Conversion Systems <i>Sistemi di Conversione dell'Energia Idroelettrica, Eolica e Marina</i>	II / II	6	IIND-06/A (ex ING-IND/08)	B	
Fluid Power Systems for Energy Sustainability of Off-Road Vehicles <i>Sistemi Oleodinamici per la Sostenibilità Energetica di Veicoli Off-Road</i>	II / II	6	IIND-06/B (ex ING-IND/09)	B	
Teaching of TAF B from Table C4 of 6 CFU (Specify):	/	6		B	Substitute Teaching

Notes for compilation:

First Study Plan Presentation

- Do not select anything for an **Automatic Approval Plan**. In this case, the choice will be made on Segrepass.
- For an **Individual Plan**, select (in the orange cells) at least 1 course from the first 4 and specify the replacement course in the last row in orange among those in Table C4. Do not select courses that have already been chosen

Modification of a previously approved study plan:

- Clearly indicate in the notes at the end of the form the changes made compared to the previously approved plan.

Table C4): Characterizing courses of your choice: Select 2 courses for a total of 12 CFU:

Teaching (the first qualification corresponds to the one in the language of delivery)	Year/ Semester	CFU	SSD	TAF	Select at least 1 course with a tick
Refrigeration and Heat Pump Technologies <i>Tecnologie per la Refrigerazione e Pompe di Calore</i>	II / I	6	IIND-07/A (ex ING-IND/10)	B	
Thermo-economic Optimization of Complex Energy Systems <i>Ottimizzazione Termoeconomica di Sistemi Energetici Complessi</i>	II / II	6	IIND-07/A (ex ING-IND/10)	B	
Lighting Technology and Acoustics <i>Illuminotecnica ed Acustica</i>	II / I	6	IIND-07/A (ex ING-IND/10)	B	
Energy and Buildings <i>Energetica degli Edifici</i>	II / II	6	IIND-07/A (ex ING-IND/10)	B	
Heating, Ventilation and Air Conditioning Systems <i>Sistemi di Riscaldamento, Ventilazione e Condizionamento dell'Aria</i>	II / I	6	IIND-07/A (ex ING-IND/10)	B	
Teaching of TAF B from Table B4 of 6 CFU (Specify):	/	6		B	Substitute Teaching

Notes for compilation:

First Study Plan presentation

- Do not select anything for an **Automatic Approval Plan**. In this case, the choice will be made on Segrepass.
- For an **Individual Plan**, select (in the orange cells) at least 1 course among the first 4 and specify the replacement course in the last row in orange among those in Table B4. Do not select courses that have already been chosen

Modification of a previously approved study plan:

- Clearly indicate in the notes at the end of the form the changes made compared to the previously approved plan.

Table D4): Compulsory selection of 2 courses for a total of 15 credits:

Teaching (the first qualification corresponds to the one in the language of delivery)	Year/ Semester	CFU	SSD	TAF	Select 2 courses with a tick
Teaching <u>in English</u> from any Table of the Didactic Regulation (Specify): _____	____ / ____	6			
Teaching <u>in English</u> with 9 CFU from any Table of the Didactic Regulation (Specify): _____	____ / ____	9			
Teaching <u>in Italian</u> (9 or 6 CFU) of the Didactic Regulation (Specify): _____	____ / ____				
Teaching of TAF D (6 or 9 CFU) from Table C.TG (Specify): _____	____ / ____			D	

Notes for compilation:

First Presentation of the Plan

- For the Automatic Approval Plan, select and fill in **the first two lines in orange**. Leave the last two lines blank.
- For an Individual Plan, select and fill in at least 1 course in English between **the first two lines in orange** and specify a course in Italian (from any table of the Didactic Regulations) in the **third line in orange** for a total of 15 credits. Leave the last line blank.
- For the Minor Plan, choose a course independently and compulsorily **select the last orange row** of the table (you need to specify here a Teaching from Table C.TG). The sum of the credits selected for the Minor in Table A4 and D4 must be at least equal to 15 credits (i.e., if you have entered a 6 CFU exam here, in Table A4 you will have to enter a 9 CFU exam and vice versa)

Modification of a previously approved study plan:

- Clearly indicate in the notes at the end of the form the changes made compared to the previously approved plan.

Other Compulsory Activities (24 CFU):

Activities	Year	CFU	TAF	
Additional language skills	I	3	F	Required
Internship	II	9	F	Required
Final exam	II	12	E	Required

I have a B2 certification in a European language	I do NOT have a B2 certification of a European language

- For **NON Minor plans**, possession of the B2 certification allows you to request accreditation of the 3 CFU for Additional Language Skills. It is necessary to obtain this certification before the end of the Master's degree studies.

Extra-Curricular Courses for the Minor (any TAF – at least 15 CFU in total):

Teaching (the first title corresponds to the one in the language of delivery)	Year/ Semester	CFU	SSD	
Further knowledge (TAF F)	I / II	3	Short Courses and Seminars	Required
Courses from Table A.TG at least 6 CFU (Specify):	____ / ____	____	____	Required
Teaching from Tables B.TG and C.TG of at least 6 CFU (Specify):	____ / ____	____	____	Required

Notes for compilation:

First Presentation of the Plan

- *Fill in for Minor Plans only.*
- *In this case, the Additional Knowledge must be consistent with the themes of the Minor. The B2 certification is always mandatory and must be obtained before the end of the Master's Degree studies but it is NOT possible to request the accreditation of the 3 CFU for Additional Language Skills. It is necessary to obtain them by attending courses and seminars for the Minor.*
- *Fill in only the **orange lines** following the TAF instructions until you cover at least 12 credits*

Modification of a previously approved study plan:

- *Clearly indicate in the notes at the end of the form the changes made compared to the previously approved plan.*

Additional Compilation Guidelines:

- The study plan must be completed in accordance with the Didactic Regulations in force in the year of enrolment. Consult the Didactic Regulations in advance on the Course website in the [Study Plans section](#)
- To avoid contents overlay:
 - Do not insert *Sistemi Energetici Innovativi* together with *Impianti con Turbina a Gas*.
 - Do not insert *Thermo-mechanical Technologies for the Energy Transition* together with *Energetica*.
 - Do not insert *Thermo-mechanical Technologies for the Energy Transition* together with *Tecnologie avanzate per l'energia*.
 - Do not insert *Electric and Hybrid Vehicles* together with *Sistemi di Propulsione Ibridi*.

NOTES AND CLARIFICATIONS FROM THE STUDENT OR MODIFICATIONS INTRODUCED TO THE PREVIOUSLY APPROVED PLAN:

DATE OF DRAFTING OF THE STUDY PLAN _____

THIS PDF MUST BE FULLY COMPLETED ON YOUR COMPUTER USING ADOBE READER (Download [Adobe Reader](#))

After filling it in, it must be uploaded to the form for the submission of study plans. Plans that do not comply with the indications given here risk not being approved. It is advisable to have the plan checked by the Coordinator in advance of sending it via the form. For a modification of a previous plan, attach the previously approved plan.

SIGNATURE OF THE COORDINATOR FOR APPROVAL OF THE PLAN

DATE OF APPROVAL OF THE PLAN _____

Prof. Fabio BOZZA