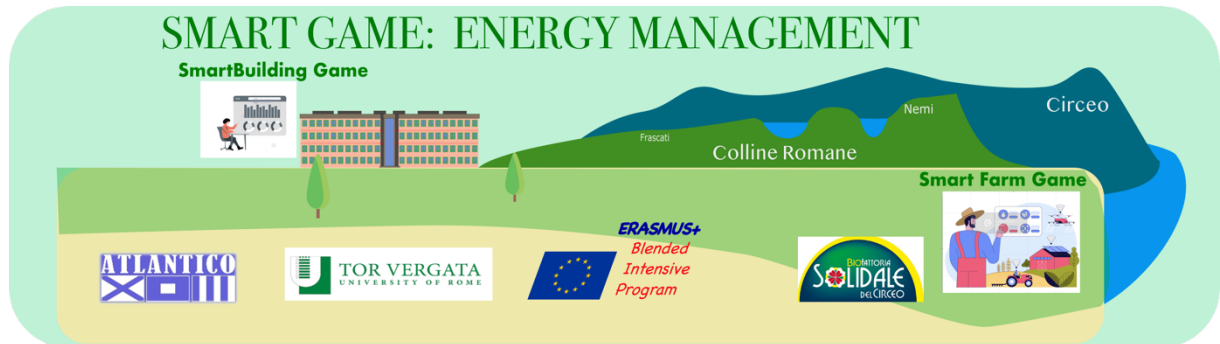


BLENDED INTENSIVE PROGRAM A.Y. 2024-2025



"Smart Game: Rural-Energy Manager"

Event venue
University of Rome Tor Vergata
(1th - 12th September 2025)

Application deadline: July 25th, 2025 (before 12:00)

1. The project

A. Partners involved

- University of Rome Tor Vergata (UNITOV) – Italy
- University of Utrecht, Copernicus Institute of sustainable development, Netherlands (UTRECO)
- University of Thessaly, Larissa, Greece (THESLA)
- University of Lisbon, Faculty of Science (LISBO)
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B. Students involved

- Max 30 students from UNITOV
- Max 5 from UTRECO
- Max 10 from THESLA
- Max 5 from LISBO

C. Pedagogical project

The BIP will introduce students to the rural energy market and will explain the main activities of a energy manager in the context of smart buildings and smart farms. Students will have an opportunity to work on real data and develop practical applications for the energy management company and smart farms starting from real scenarios. Top management from the industry will be invited.

The core activity of the BIP will be simulation of the activities related to a energy company monitoring public smart building and a smart rural farm monitoring photovoltaic plants, starting from the real data, the data analysis dashboard platform with data visualization and forecasting widgets.

The programme combines:

- Online lectures with top industry speakers coming from top consultancy companies in the energy monitoring sector (one meeting online by week from September 1 to September 5);
- In-person practice-based lectures on key issues for managing a real smart building and smart rural farm (MONDAY and TUESDAY);
- A Simulation game on **Smart Building Energy management** (Smart Game at Tor Vergata Campus) (WEDNESDAY)
 - Data visualization and analysis from real remote buildings and simulation in the Campus using Energy Monitoring ESCO Company platform.
- A Simulation game on **Smart Farm Energy management** (Smart Game at Rural Farm “Fattoria Sociale Circeo”, one of the most innovative european smart farm cooperating with Tor Vergata University) (THURSDAY and FRIDAY)
 - Visit, data visualization and analysis of a pilot greenhouse of the EU project REGACE, equipped with an agriPV system and fully instrumented with environmental monitoring system, weather station and PV tracking system management.

D. Online activities

The online activities will be scheduled from September 1th to September 5th, 2025

E. Onsite activities

All the activities in presence will be organized at the University of Rome Tor Vergata and Smart Rural Farm at Circeo (close to Rome) from September 8th to September 12th, 2025

F. Associated ECTS

Each participant will receive an attendance certificate.

The course workload is 3 ECTS and it can be validated through a Learning Agreement.

G. Calendar of activities

ONLINE ACTIVITIES

Meeting 1	01/09/25 (18:00-20:00 CET)	<i>Venue: TEAMS channel</i>
Kick-Off meeting – Introduction to energy management and smart farm in Italy		
Meeting 2	02/09/25 (18:00-20:00 CET):	<i>Venue: TEAMS channel</i>
Overview on AgriPV Wilfried van Sark (Copernicus institute Utrecht, NL)		
Meeting 3	03/09/25 (17:00-19:00 CET):	<i>Venue: TEAMS channel</i>
Smart agriculture in Volos (Greece) Chrysoula Papaioannou (University of Volos, GR)		
Meeting 4	04/09/25 (18:00-20:00 CET):	<i>Venue: TEAMS channel</i>
Smart Building management and big data Giuseppe Lore (Atlantico spa, IT)		
Meeting 5	05/09/25 (18:00-20:00 CET):	<i>Venue: TEAMS channel</i>
PV integration: AgriPV pilot in Lisbon and vehicle integrated PV Miguel Brito (University of Lisbon, PT)		

IN-PRESENCE ACTIVITIES

08/09/25 – Day 1 *Venue: School of Engineering at Rome “Tor Vergata”*
(18:00 – 20:00) **Welcome cocktail (by local cantine) and University tour**

09/09/25– Day 2 *Venue: School of Engineering at Rome “Tor Vergata”*
(10:00 – 11:00): **Presentations of partners and Overview of the BIP**
(11:00 – 13:00): **Demo at Campus: (coordinated by Prof. Cornaro)**
Topic: (Visit at ESTER Lab and at the Civil Engineering building monitoring system)
(13:00 – 14:00): **Lunch break (by Fattoria del Circeo)**
(15:00 – 16:00): **Demo at Campus: (coordinated by Prof. Angelaccio)**
Topic: SMART BUILDING ENERGY MANAGEMENT

10/09/25 – Day 3 *Venue: Smart Farm (Circeo, Latina)*
(8:30 – 10:30) -----transfer to Circeo by BUS from Tor Vergata-----

(10:30 – 13:00): **Rural Demo at SMART FARM**

Topic: Agrivoltaic tour at Fattoria

(13:00 – 14:00): **Welcome Lunch (by Fattoria del Circeo)**

(14:00 – 20:00) *Free time to the beach*

(20:00 – 22:00) *Dinner on behalf of the students*

11/09/25 – Day 4 *Venue: Smart Farm (Circeo, Latina)*

(08:00 – 9:30) **Breakfast (by Fattoria del Circeo)**

(10:00 – 13:00): **Rural Demo at SMART FARM**

Topic: Visit to Biogas plant

(13:00 – 14:00): **Lunch (by Fattoria del Circeo)**

(14:00 – 20:00) Archeo-Cultural tour in the Circeo Park 1

(abbazia di Fossanova e dintorni, centrale idroelettrica)

(20:00 – 22:00) **Social dinner (by Fattoria del Circeo at Fossanova, including trip costs)**

12/09/25 – Day 5 *Venue: Smart Farm (Circeo, Latina)*

(08:00 – 9:30) **Breakfast (by Fattoria del Circeo)**

(10:00 – 13:00): **World café – REGACE project**

(13:00 – 14:00): **Debriefing Lunch (by Fattoria del Circeo)**

(14:00 – 20:00) **free time back to Rome by train**

2. Application requirement and evaluation requirements

BIP Application requirements for Tor Vergata students:

- The academic career will be evaluated at May 1st, 2025
- Application deadline is scheduled for: July 25th, 2025 (12.00)
- Applicants have to be enrolled to a master program or to the last year of an undergraduate degree.
- English language requirements: English B2

The application link is the following:

<https://forms.gle/VhbVY1eaDdirrv659>

3. Evaluation criteria

Application will be evaluated by considering the following formula (max value 116 points):

OVERALL GRADE: ITEM A (CURRICULUM) + ITEM B (ADDITIONAL POINTS)

For students with the same overall grade, priority will be given to the younger candidates.

3.1 – CURRICULUM– ITEM A

For students in the first year of the master of science course, the formula that will be used is the following:

$(\text{final grade of the undergraduate degree} / \text{Maximum mark achievable in the undergraduate degree}) \times 100$

For all other students:

$[\text{Minimum (Number of Credits Achieved, Maximum Number of Credits achievable in the Course of Studies based on the year of enrollment of the candidate**)}/(\text{Maximum Number of Credits achievable in the Course of Studies based on the year of enrollment of the candidate**})] \times \min[1, \text{Number of Years expected to obtain the Title}/(\text{Current Academic Year} - \text{Enrollment Year} + 1)] \times (\text{weighted average of grades}/\text{weighted average of grades for students enrolled in the same course of study***}) \times 100.$

** When calculating the maximum number of credits achievable up to the candidate's reference course year, all activities included in the course of study are considered with the exception of the credits assigned by the study plan to the final exam / thesis

*** When calculating the weighted average for students belonging to the same course of study, all students enrolled in the course of study on the date of career evaluation will be taken into consideration regardless of the year of enrollment.

Please note that the formulas will consider only the grades recorded before May 1st and pre-exams and intermediate tests are not taken into account.

3.2 – ADDITIONAL POINTS– ITEM B

Additional points will be assigned to student with special needs in order to support the inclusivity of the BIP program. The additional points will be assigned on the basis of the following criteria:

- 10 points for all the students with fewer opportunities;
- up to 6 points on the basis of the ISEE value on the basis of the following table

Table.

ISEE VALUE	ADDITIONAL POINTS
$ISEE \leq 13000$	6
$13000 < ISEE \leq 21000$	5
$21000 < ISEE \leq 26000$	4
$26000 < ISEE \leq 30000$	3
$30000 < ISEE \leq 40000$	2
$40000 < ISEE \leq 50000$	1
$ISEE > 50000$ or ISEE not declared	0

4. Contact information

For any issue related to the application BIP please refer to:

Academic reference contacts

Michele Angelaccio

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Administrative reference contact

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