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MEITIM: Master in Entrepreneurship, Innovation and Tech- nology Integration in Mining

LAUNCH YOUR CAREER

IN RAW MATERIALS



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Introduction



Our modern lifestyle relies on raw materials. From the iron and steel of our railway infrastructure to the gold and silver in the circuitry of smartphones: raw materials are everywhere. The transition to a climate neutral future requires cobalt for electric vehicles, lithium for rechargeable batteries, silicon for solar panels, and rare earth elements for wind turbines that generate renewable energy.

As the world grows smaller and more hyper-connected, the impact of society on the Earth has never been more visible. It is now clear that we need to shift to a circular economy in order to responsibly use the Earth's finite resources. But what can just one individual do to help? More than you think! Real change requires courage, innovative thinking, and collective action – the same skill set that EIT RawMaterials Academy looks for in prospective students. Are you ready to mine your raw talent, help shape a more circular, green economy, and create sustainable solutions for tomorrow?



What do we offer students?

EIT RawMaterials Academy offers students a unique opportunity to learn in a dynamic environment, focusing on real-life challenges. Awarded by the EIT (European Institute of Innovation and Technology), a body of the European Union, the EIT Label is a certificate of quality that is granted only to excellent educational programmes at the master's and doctoral level.

As a student of an EIT-Labelled programme from EIT RawMaterials Academy, you'll be part of the largest European raw materials network with more than 300 organisations as partners, including higher education professionals, researchers, and industry experts from over 20 European countries. As an EIT Label student, you will be welcomed into this network and will champion and contribute to the EIT RawMaterials goals of finding new, innovative solutions to secure the sustainable supply of raw materials across the value chain: from exploration, mining and mineral

processing to recycling, substitution and a circular economy. EIT RawMaterials aims to equip a new generation of innovators in Europe with the necessary entrepreneurial mind-set for designing and delivering materials solutions. You'll also get the chance to collaborate internationally and develop sustainable solutions to pressing economic, environmental and societal challenges. And long after you graduate, you can stay connected via EIT RawMaterials Alumni.



JOIN AN EIT-LABELLED PROGRAMME AND BECOME A
GLOBAL GAME-CHANGER, EQUIPPED WITH THE KNOWLEDGE,
SKILLS AND EXPERIENCE EMPLOYERS SEEK.



What to expect?



→ Thesis internship placements at leading European companies

→ Membership of the EIT RawMaterials Alumni community

→ 'Learning by doing' with challenge-based courses that focus on real-life problems

→ Study tours and visits to innovative companies and industrial sites

→ Exciting new ways of learning: online courses, virtual and augmented reality and MOOCs

→ Courses designed to nurture start-up ideas

→ Course modules dedicated to entrepreneurship and innovation skills

→ EIT RawMaterials Innovation support: business plan competitions, innovation bootcamps and funding

→ Expertise in a raw materials discipline – a comprehensive understanding of the entire raw materials value chain

→ EIT RawMaterials summer schools and interdisciplinary courses

→ European mobility – study in at least two European countries

Exclusive activities and support for EIT-Labelled students

Students on EIT-Labelled master's programmes within the EIT RawMaterials Academy receive a range of additional opportunities to boost their innovation and entrepreneurship skills, grow their network in the raw materials sector and gain the experience they need to thrive.

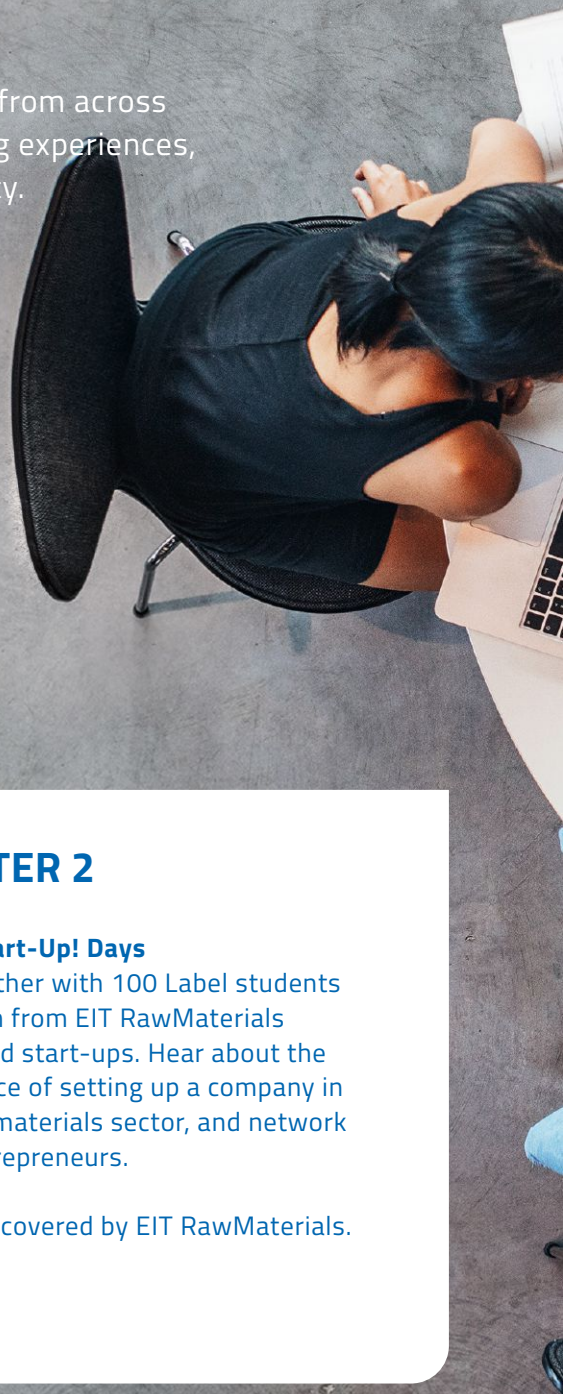
These exclusive events bring together EIT-Labelled students from across the Master School, and form the basis of your shared learning experiences, making you a full member of the EIT RawMaterials community.

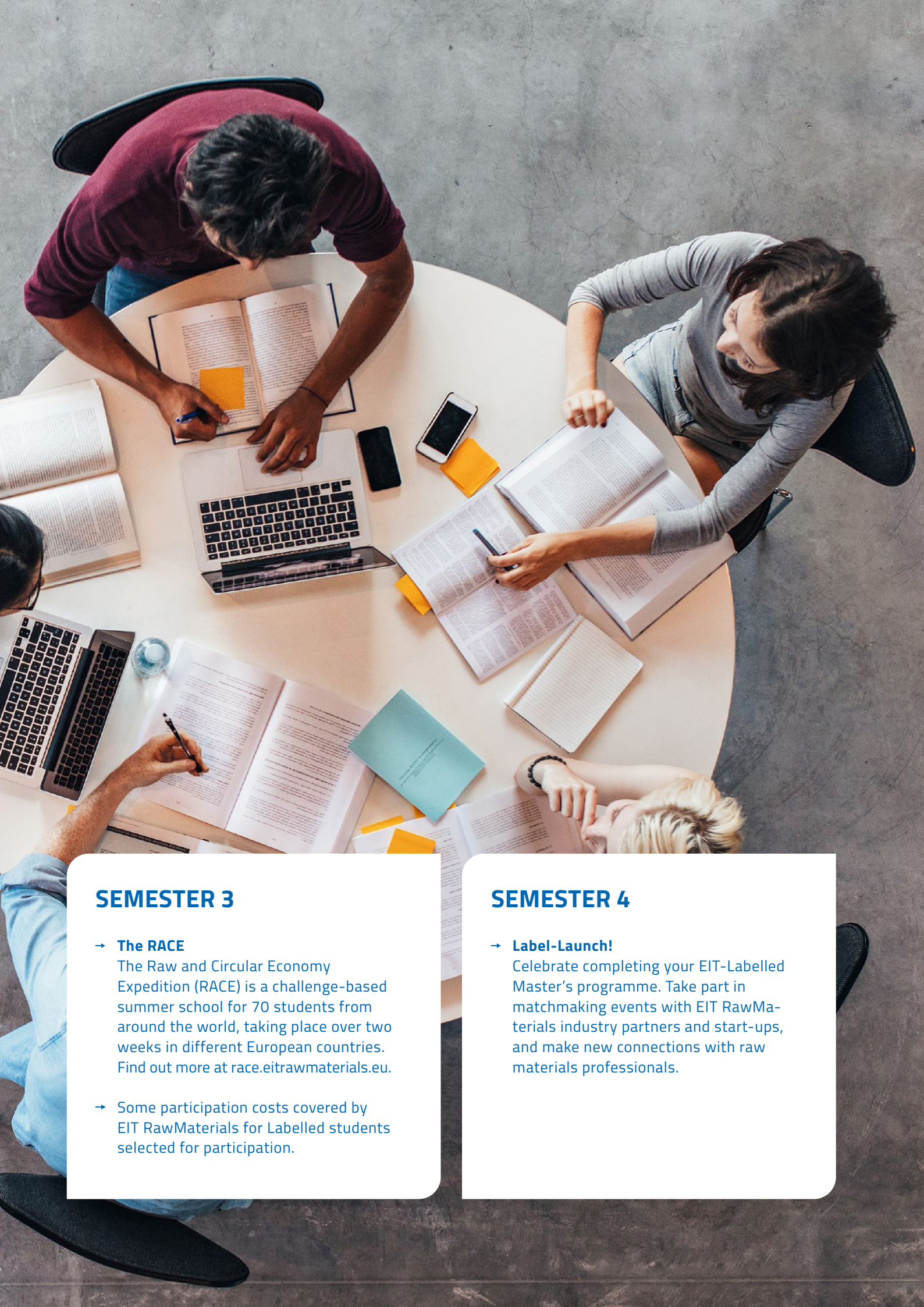
SEMESTER 1

- **Label Induction Days**
Meet the EIT RawMaterials Academy and learn how to get involved in our community and access the many opportunities on offer. Sign up for EIT RawMaterials Alumni and start growing your network.
- Vote for your representative on the Label Student Board, or stand for election!

SEMESTER 2

- **Label Start-Up! Days**
Get together with 100 Label students and learn from EIT RawMaterials supported start-ups. Hear about the experience of setting up a company in the raw materials sector, and network with entrepreneurs.
- All costs covered by EIT RawMaterials.





SEMESTER 3

→ The RACE

The Raw and Circular Economy Expedition (RACE) is a challenge-based summer school for 70 students from around the world, taking place over two weeks in different European countries. Find out more at race.eitrawmaterials.eu.

- Some participation costs covered by EIT RawMaterials for Labelled students selected for participation.

SEMESTER 4

→ Label-Launch!

Celebrate completing your EIT-Labelled Master's programme. Take part in matchmaking events with EIT RawMaterials industry partners and start-ups, and make new connections with raw materials professionals.

Do you have a raw materials business idea?

EIT RawMaterials offers a range of support for individuals and companies with innovative business ideas, including:

Lab2Market

- A three-term entrepreneurship training programme, exclusively for EIT Label students and graduates. Lab2Market will help you come up with a business idea, create a start-up and connect you with investors and customers. Grants are available for selected participants.

EIT Jumpstarter

- One of Europe's top pre-accelerator programmes, to help you develop your business idea and understand what's needed to create a successful start-up.

EIT RawMaterials Accelerator

- A three-stage accelerator programme to help start-ups with a developed product to bring their solution to the market.

Booster Call

- Financial and network access support for start-ups and SMEs in the raw materials sector.

EIT RawMaterials Alumni

From the moment you join an EIT-Labelled Master's programme in the EIT RawMaterials Academy, you are eligible to join EIT RawMaterials Alumni. This organisation provides a great opportunity to connect with the EIT RawMaterials ecosystem and varied EIT RawMaterials activities, such as business idea competitions, start-ups, professional development courses and Master's and PhD programmes.

It is run by and for its members, who can take part in events, and develop their careers through internships and job offers, networking activities and much more, forming a hub for a diverse range of raw materials students, academics and professionals. Furthermore, EIT RawMaterials Alumni provides you with a connection to the wider EIT Alumni community and alumni events around Europe.





MEITIM[®]

Master in Entrepreneurship, Innovation and Technology Integration in Mining

Awarded the EIT Label in 2022

The dual transition to a digital and carbon-free economy has generated an accelerated demand for new professional profiles in engineering with entrepreneurial mindset and a high degree of proficiency in new technologies. In the mining value chain, from the early stages of prospection to the final delivery of products to customers and through the stages of exploration, extraction, mineral processing, metallurgy and commercialisation, the innovation and technology integration has become the backbone of the industry's development.

Digitalisation, understood as the development of effective and integrated solutions based on new technologies, will reduce costs, improve efficiency, productivity, environmental standards and transform mining processes across the industry. Government and shareholders are putting increasing pressure on the mining sector to meet decarbonisation targets and improve safety at mining sites. Break-

through innovations rarely happen by chance or luck, but rather are built on a combination of constant work, skills, creativity, years of experience, and structured collaboration.

The real challenge, however, is to build continuous improvement into a company's workstream, and this needs skilled professionals with an advanced technical knowledge in the possibilities of digital ecosystems in mining with technologies like IA, IoT, Automation, Cloud Computing, Data Analytics, Spatial Data Visualisation (AR/VR), etc., complementing a deep understanding of the full raw materials value chain and the skills required to transform knowledge into solutions and business.

The name MEITIM and the associated logo are registered trademarks of Universidad Politécnica de Madrid and are protected under applicable trademark laws.

Double Diploma	Graduates of the MEITIM programme will be awarded a double Master of Science degree, depending upon their chosen pathway. Graduates will also be awarded the EIT Label Certificate.
Credits	120 ECTS, 24 months
Language of Instruction	English
Starts in	September
Requirements	The programme is aimed at candidates who have a bachelor's degree in Engineering in raw materials sector disciplines (minimum 3 years of study or 180 ECTS credits), preferably in Mining Engineering, Geological Engineering or Metallurgical Engineering. Students holding a bachelor's degree in ICT, Chemistry or Materials Engineering may be accepted depending on the specific content of their studies. Candidates must also demonstrate advanced knowledge in Programming and English language proficiency. Please check the MEITIM website for full details.
Tuition fees	Tuition fees may vary depending on the chosen study track and/or University. Check meitim.eu or for up-to-date information.
Application Period	Please consult meitim.eu for information on application deadlines, requirements, and documentation required.
Scholarships	For students beginning in September 2024, EIT Label scholarships from EIT RawMaterials of €15,000 per eligible student are available. For information on how EIT Label scholarships will be awarded and who is eligible, please contact the coordinating university directly: meitim@eitrawmaterials.eu . Additional scholarships and grants may be available – visit meitim.eu for details.



“If you want to change the World, you must be trained differently. The MEITIM programme has been created to train a new generation of engineers able to innovate, create and develop new opportunities based on the integration and extensive use of the latest advances in new digital technologies. These professionals will contribute to a significant source of competitive advantage and value creation with new business opportunities all along the mining and minerals value chain.”

— **JUAN HERRERA, MEITIM PROGRAMME DIRECTOR**

PARTICIPATING UNIVERSITIES

Universidad Politécnica de Madrid (Technical University of Madrid)

Spain

Lappeenranta-Lahti University of Technology

Finland

Wrocław University of Science and Technology

Poland

FOR MORE INFORMATION

MEITIM Programme

Director Juan Herrera

Universidad Politécnica de Madrid
(Technical University of Madrid)

www.meitim.eu/contact/

Programme Structure

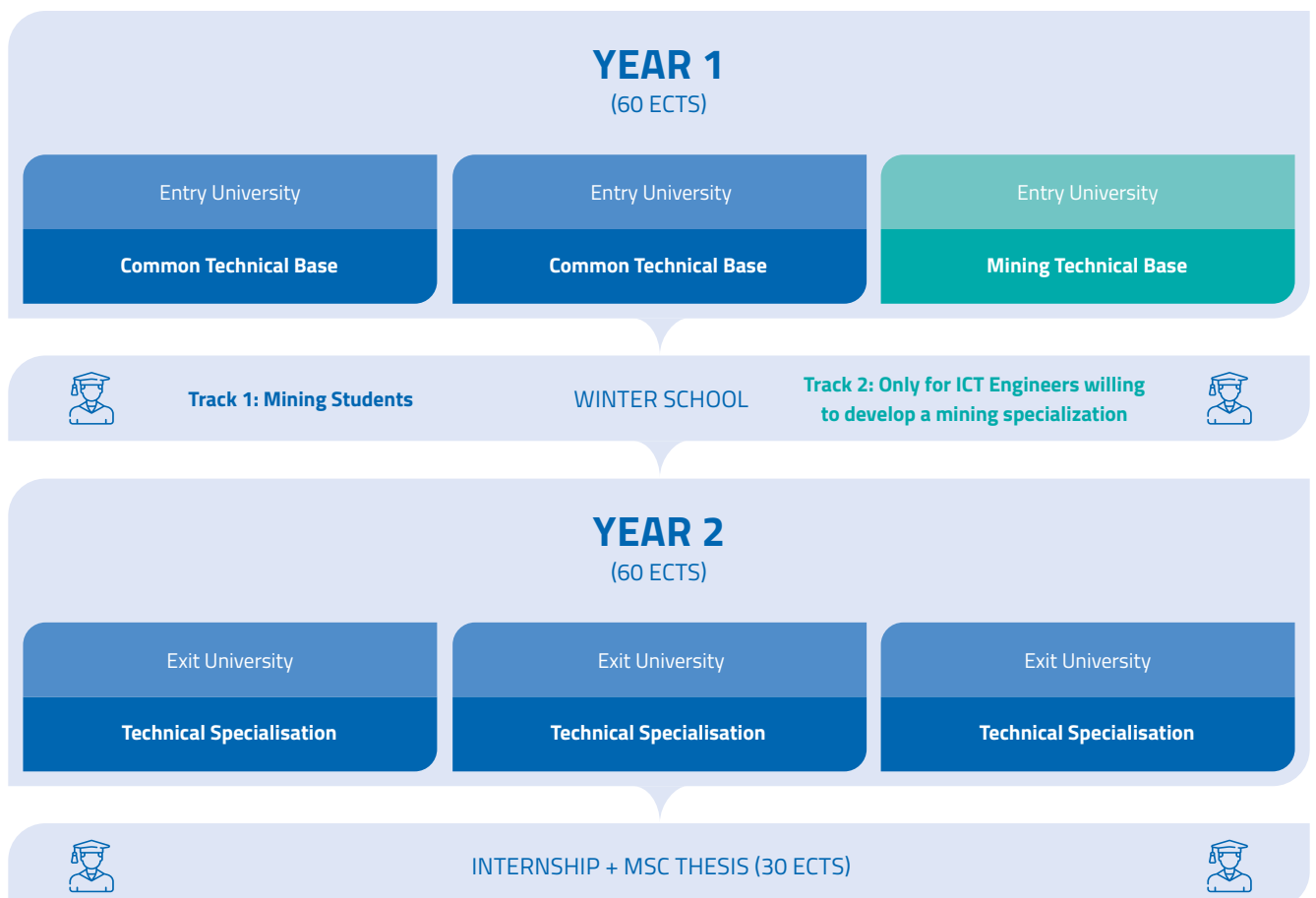
MEITIM is a two-year programme organised into four semesters and accounts for 120 ECTS or 30 ECTS per semester.

Students study one year at an 'entry' university and one year at an 'exit' university, both of which are partners of EIT RawMaterials and the MEITIM Project. The first year is focused on basic courses and electives that lay the foundation for the chosen technical programme, together with an intense and integrated learning and training in innovation and entrepreneurship (I&E):

- Students are introduced to business and management from the first year.
- During the second semester, a design project is combined with business development exercises to demonstrate how technology can be transformed into a successful business.
- Students are taught how to prepare and present a convincing business plan, and have the option to take elective courses.
- Each of the four semesters has a load of 30 ECTS, meaning 60 ECTS per course.

- Between the first year and the second year, the summer school programme addresses business opportunities within a socially relevant theme.
- Modules will have a subject structure, all of them with the same training methodology and the same evaluation criteria.

The second year offers a specialisation and a graduation project. The graduation project includes an internship at a company or a research institute and culminates in the development of a Master thesis which features a strong innovation and entrepreneurship dimension. The international mobility is guaranteed as at least one course will be carried out at another university different from the entry one, and internship can be done in an international company. Graduates receive degrees from the two universities and the EIT Label certificate awarded by the European Institute of Innovation and Technology (2 diplomas + 1 certificate in total).



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PROFESSIONAL PROFILES AFTER GRADUATION

Graduates of the MEITIM programme will have the training and preparation to participate actively in the transformation and digitalization that the mining sector is undergoing, through a sound knowledge in the latest technologies. Through practical training, student will develop the skills to integrate innovation and new technologies into feasible business solutions for the raw materials value chain.

The MEITIM programme aims to give students the ability to understand technical, business, social and economic aspects and, with this, to stimulate their technological innovation and technologies integration capacities with the vision of creating new opportunities and added value.

Graduates of the MEITIM programme will be fully qualified to expand the relationships of professionals in this dynamic and innovative activity sector and to work for:

- Mining and metallurgical companies
- EU bodies
- Investment banks
- Venture capital
- National/regional government agencies
- Engineering and consulting firms
- Freelancer and entrepreneur
- Knowledge institutions, research institutes and think-tanks



ARE YOU A STUDENT WHO IS:

- Interested in the mineral primary resources value chain?
- Passionate about innovation and technology?
- Motivated to develop new solutions and open new pathways?
- Driven to become an entrepreneur or intrapreneur who makes innovation happen?
- Keen to be a participant in the new industrial revolution and transition?

VISIT [MEITIM.EU](https://meitim.eu) TO FIND OUT MORE AND APPLY

Programmes

Nine Master's programmes within the EIT RawMaterials Academy hold the EIT Label. Graduates from all EIT-Labelled programmes are awarded a degree from one or more of the participating universities, with an EIT Label Certificate confirming graduation from an EIT-Labelled programme.



AMIR

Master in
Advanced Materials:
Innovative Recycling



AMIS

Master in Advanced
Materials for Innovation
and Sustainability



EMerald

Master in Georesources
Engineering (Innovative
Education in Geometallurgy
and Circular Economy)



MEITIM

Master in Entrepreneurship,
Innovation and Technology
Integration in Mining



RaVeN

Master in
Mining Engineering



SINReM

International Master
of Science in Sustainable
and Innovative Natural
Resource Management



SUMA

Master in
Sustainable Materials



TIMREX

Master in
Mineral Exploration

Labelled by:



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