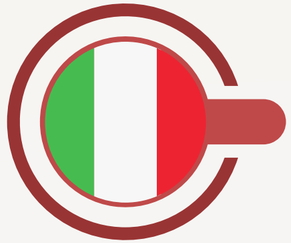
CEDE Countries & Their Curriculum Focus

01 Slovakia

- **Focus of analysis:** engineering and agri-business curricula
- **Key aspects:** entrepreneurship, creative engineering, sustainability in practice

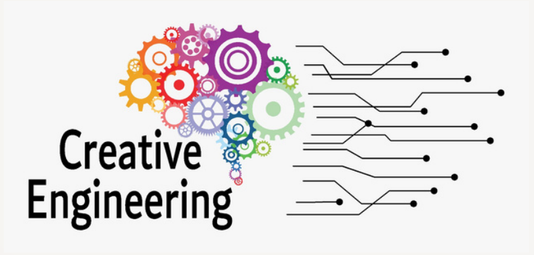
Italy 02



- **Focus of analysis:** interdisciplinary study programs with a regional focus
- **Key aspects:** innovation, tourism, regional development

03 Spain

- **Focus of analysis:** industrial and technical higher education
- **Key aspects:** digital tools, engineering methodology, practical project-based learning



Turkey 04

- **Focus of analysis:** secondary-level engineering preparation
- **Key aspects:** creativity in education, e-learning innovation, pilot platform development

Greece 05

- **Focus of analysis:** non-formal and digital education approaches
- **Key aspects:** STEM promotion, digital tools for learning, innovation in communication

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What Themes are Shared Across Curricula in CEDE Countries?

Entrepreneurship and Business Development

Preparing students to start and manage innovative ventures in diverse sectors

Digital Tools, ICT and E-learning

Enhancing learning through digital platforms, collaboration apps, and remote access

Communication and Public Speaking

Developing students' ability to present ideas clearly, engage different audiences, and communicate technical content effectively

Sustainability and Green Practices

Integrating environmental awareness and circular economy principles into technical training

Innovation and Creativity in Engineering

Encouraging out-of-the-box thinking, problem solving, and design-based learning

Project Management and Engineering Operations

Equipping learners with tools to plan, implement, and evaluate technical processes

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Beyond the Technical – Core Transversal Skills Across CEDE Countries

Teamwork & Collaboration

Ability to work effectively with others, share responsibilities, and contribute to collective goals in diverse teams.

Entrepreneurial Thinking

Ability to identify opportunities, take initiative, and apply business logic to real-life challenges.

Ethical & Cultural Awareness

Understanding and respecting diverse viewpoints while making responsible decisions in professional environments.

Creativity & Innovation

Willingness to generate new ideas, think outside the box, and approach problems from fresh perspectives.

Communication Skills

Capacity to express technical ideas clearly, both in written and spoken form, across various contexts and audiences.

Problem Solving

Skills to identify challenges, analyze them critically, and implement practical, well-reasoned solutions.

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Shared & Distinct Elements in CEDE Partner Curricula

Use of digital tools in teaching

Digital platforms, collaborative software, and ICT-based methods are widely integrated into the learning process.

Growing attention to sustainability

Curricula increasingly reflect ecological awareness and incorporate sustainability principles into both content and methodology.

Entrepreneurship education

All curricula include basic entrepreneurial competencies to prepare students for self-employment and innovation-driven careers.

Emphasis on creativity and soft skills

Transversal competencies such as critical thinking, communication, and teamwork are embedded across various modules.

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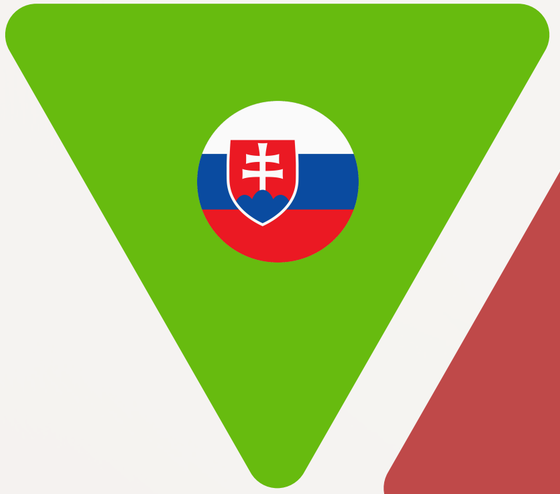
Unique Aspects by the CEDE Country

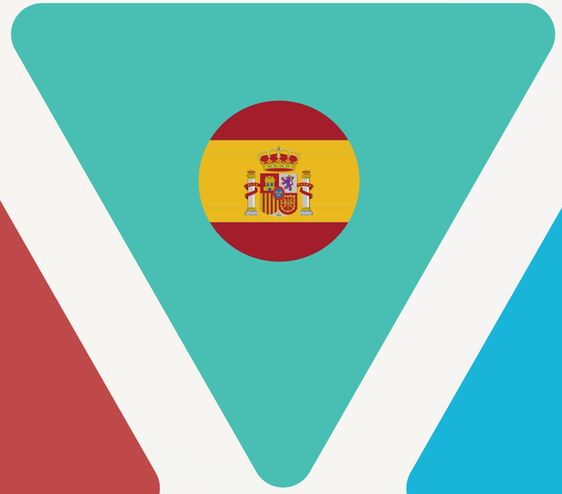
Slovakia

Agri-business and rural innovation focus



Spain

Industrial and applied engineering focus



Greece

Non-formal education and STEM outreach via ICT

Italy

Tourism and regional economy integration

Turkey

High school-level digital learning and creativity

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Key Recommendations

Integrate Practical Entrepreneurship Modules

- Enable students to develop business models
- Use real-world challenges and simulations
- Foster entrepreneurial mindset from early stages

Embed Sustainability Across All Topics

- Link technical content to SDGs and green technologies
- Encourage critical thinking about environmental impact
- Include circular economy principles

Expand Digital Learning and E-Tools

- Use e-learning platforms for flipped and blended learning
- Teach digital communication and collaboration tools (e.g., Miro, Trello)
- Encourage students to create digital content (videos, blogs)

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Key Recommendations

Strengthen Soft Skills and Communication

- Include structured activitie
  to improve public speaking and writing
- Train students in giving/receiving feedback and conflict resolution
- Promote interdisciplinary teamwork

Link Theory to Real-World Projects

- Co-create content with industry (guest lectures, case studies)
- Use design thinking and project-based learning
- Evaluate students on innovation and creativity, not just theory

Promote International and Intercultural Awareness

- Use English or bilingual modules when possible
- Integrate examples from different cultural contexts
- Support student mobility and collaboration across borders

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