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SEA-EU DOC Training Event 3 The problem-solving skills for higher education learners

Organiser: University of Split

Language of the event: English

Date: 23 to 27 May 2022

Venue: SpinIt incubator, Ul. Antuna Gustava Matoša 56, Split, Croatia

PROGRAMME

Lecturer: Dr.-Ing. Edgar Jochheim, JOINCO®

Day 1 - Opening session and Introduction to the TRIZ method (Part 1)

Start at 14:00 • Short break at 15:45 • End of 1st day and dinner at 18:00

- Introduction
- Thinking and Intelligence
- Biases
- Logic
- **The Rules of Right Thinking**
- Idea Generation Methods
- Problem Solving
- TRIZ Basics
- **1st TRIZ Principle: Ideality**
- Praxeology
- The Definition of Ideality (and Innovation)
- Functional Thinking
- Functional System Operator

Day 2 - Introduction to the TRIZ method (part 2)

Start at 09:00 • Short break at 10:30 and 15:30 • Lunch break from 12:30 to 13:30 • End at 17:00

- **2nd TRIZ Principle: Contradiction**
- The 39 Technical Parameters
- The Contradiction Matrix
- The 40 Innovative Principles
- Separation
- **Substance-Field-Transformation**
- 76 Standard Solutions
- Technical fields
- **Resources**
- Operator Size-Time-Cost
- Alternatives and Variants





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Day 3 Introduction to the TRIZ method (part 3) and attacking companies' problems from Split area

Start at 09:00 • Short break at 10:30 and 15:30 • Lunch break from 12:30 to 13:30 • End of 3rd day at 17:00

- **3rd TRIZ Principle: Patterns of Evolution**
- S-Curve Analysis
- 8 Basic Patterns of Evolution
- Lines of Evolutions
- Emotional Values and Needs
- **4th TRIZ Principles: Knowledge**
- Application of Physical Effects
- Classical TRIZ Tools
- ARIZ
- Complexity
- Literature

12:30 - 13:30 Lunch break

- Forming teams for problem-solving
- Icebreaking: Elevator pitching
- **Presentation of the companies**
- **Problem-solving: Attacking companies' problems from Split area (Part 1)**
- Reflection and discussion

Day 4 Attacking companies' problems from Split area

Start at 09:00 • Short break at 10:30 and 15:30 • Lunch break from 12:30 to 13:30 • End of 4th day at 17:00

- **Problem-solving: Attacking companies' problems from Split area (Part 2)**
- Reflection and discussion

Day 5 – The final pitch

Start at 09:00 • Short break at 10:30 • End of the event and lunch at 12:00

- Pitching problem-solving results from Day 3 or Day 4 (Each team will pitch one solution)
- Companies join to follow up on results and solutions to their problems
- Final notes and closing lunch

