



Course program and reading list

Semester 2 Year 2024

School: Lauder School of Government, Diplomacy & Strategy B.A

Problem-Solving Workshop

Lecturer:

Mr. Arik Segal arik.segal@runi.ac.il

Course No.:	Course Type :	Weekly Hours :	Credit:
3743	Workshop	1	1

Course Requirements :	Group Code :	Language:
Final Paper	241374303	English



Course Description

In today's workplace environment, professionals are required to understand, analyze and manage a wide range of tasks and complex processes. One of the most important skills that can assist in executing those, is problem solving.

The Problem-Solving Workshop will introduce the students with four different problem-solving approaches: computational thinking, systems thinking, design thinking and emotional processes. The students will learn how their personality traits influence their problem solving approach and which problem solving approach fits to different types of problems.

The workshop is highly interactive, as each class will involve games, group-work and discussions. It requires **full attendance and active participation.**



Course Goals

To acquire the students with problem-solving skills that can assist them to resolve

problems in their daily lives and upcoming professional careers.

Grading

30% Active participation (participation in class games and activities, contribution to class discussions and questions posed by lecturer)

70% Final paper

Learning Outcomes

To learn how personality traits influence problem solving approaches

To understand how to use computational thinking for problem solving

To understand how to use systems thinking for problem solving

To understand how to use design thinking for problem solving

To understand how to use emotional processes for problem solving

Lecturer Office Hours

By appointment

Tutor Office Hours

None

Teaching Assistant

None

Reading List

Constantin BRĂTIANU, Developing Strategic Thinking in Business Education, Management Dynamics in the Knowledge Economy, Vol.3 (2015) no.3, pp.409-429

Kohei Nishizuka, Exploring the Developmental Process and Internal Structure of Kizuki-Based Volunteer Activities for Sustainable Organizations: A Case Study of HARU, Journal of

Disaster Research · December 2018

Jeremy W. Melton, Jepri Ali Saiful & Paichi Pat Shein (2022) Interdisciplinary STEM program on authentic aerosol science research and students' systems thinking approach in problem-solving, *International Journal of Science Education*, 44:9, 1419-1439,

Jamie P. Monat*, Thomas F. Gannon, What is Systems Thinking? A Review of Selected Literature Plus Recommendations, *American Journal of Systems Science* 2015, 4(1): 11-26

Melissa Dyehouse a,*, Deborah Bennett a, Jon Harbor b, Amy Childress c, Melissa Dark d, A comparison of linear and systems thinking approaches for program evaluation illustrated using the Indiana Interdisciplinary GK-12, *Evaluation and Program Planning* 32 (2009) 187-196