

GSP488 Problem-solving Applied Project

Level: 4

Credit Units: 10 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY SEMESTER

Synopsis:

Problem-solving is one of the key skills needed for the 21st century, particularly given the pace of change brought about by global competition and technological innovations. It is also essential in the workplace and part and parcel of everyday life. This course equips students with the skills to solve a complex real-world problem through learning-by-doing. Students are expected to work with industry or community stakeholders to devise a feasible solution to an industry/community problem. They will be supported by a mentor and a group of resource persons.

Topics:

- Reflection and self
- Negotiations and influencing strategies
- Conflict management
- Defining and crafting problem statements
- Problem-solving strategies and tools
- Basic qualitative and quantitative research methods
- Basic qualitative data analysis
- Basic quantitative data analysis
- Ideation and prototyping
- Testing and refinement
- Presenting with confidence
- Effective poster presentations

Learning Outcome:

- Formulate problem statements that reflect the root cause of the problem.
- Construct data collection instruments that are effective in obtaining relevant information for problem-solving.
- Analyse data collected and visualise them to facilitate decision-making.
- Appraise qualitative and quantitative information to gain insights for problem solving.
- Combine knowledge from different domains to develop feasible solutions to solve real-world problems.
- Compare the variety of problem solving strategies and tools.
- Critique the Design Thinking process and its application in problem-solving.
- Apply problem-solving skills through the process of project execution.
- Employ negotiations and influencing strategies to work collaboratively and effectively within the team, and with stakeholders.
- Demonstrate creativity, critical and analytic thinking in devising feasible solutions to problems.
- Defend proposed solutions through clear presentation and communication.
- Design effective posters that illustrate the problem and solution in a succinct manner for presentation to stakeholders/problem owners.

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	QUIZ 1	10
	GROUP BASED ASSIGNMENT 1	15
	GROUP BASED ASSIGNMENT 2	25
Overall Examinable Components	ECA	40
	FINAL REPORT	10
Total		100