INSTITUTE OF AERONAUTICAL ENGINEERING
(AUTONOMOUS)
Dundigal - 500 043, Hyderabad, Telangana

Complex Problem Solving Evaluation
(For evaluation by Resource person / Course Faculty / Course Co-Ordinator and Complex Problem Committee

1. Check list for ECs and WKs: Engineering Competence Profiles - Complex Engineering Problems and Activities and Knowledge Profiles

Engineering Competencies Measured are EC1 – EC12. Report your findings as given below:

S No	Activity	(✓)
1	ELRV Utilization	
2	Check for proper understanding of WK1	
3	WK1 evident in all EC1- EC12	
4	Check for proper understanding of WK2 – WK9	
	How many are implemented? Mention them _____	
5	WK2- WK9 evident in all EC1- EC12	
6	Review the addressed questions in problem statement critically	
7	Identify difficulty levels complexity characteristics and how they are addressed	
Report your findings:		

2. Rubrics for Solving Complex Engineering Problem

S.No	Components	Level of Achievement				
		Excellent (4)	**Good (3)**	**Basic (2)**	**Just Acceptable (1)**	**Unacceptable (0)**
1	Defining the Problem	☐ 4 – Student states the problem clearly and clearly identifies the underlying issues.	☐ 3 – Student adequately defines the problem and identifies the underlying issues.	☐ 2 – Student inadequately defines the problem and identifies the underlying issues.	☐ 1 – Student fails to define the problem adequately and does not identifies the underlying issues.	☐ 0 – Student does not define the problem at all.
2	Identify Strategies	☐ 4 – Identifies multiple approaches for solving the problem that apply within a specific context.	☐ 3 – Identifies multiple approaches for solving the problem only some of which apply within a specific context.	☐ 2 – Identifies only a single approach for solving the problem that does apply within a specific context.	☐ 1 – Identifies one or more approaches for solving the problem that do not apply within a specific context.	☐ 0 – Cannot Identify one or more approaches for solving the problem that does not apply within a specific context.

S.No	Components	Level of Achievement				
		Excellent (4)	Good (3)	Basic (2)	Just Acceptable (1)	Unacceptable (0)
3	Problem description	☐ 4 – Problem is described in clear and interesting way with relevant real context.	☐ 3 – Problem is described but additional data, links or real context not properly mentioned.	☐ 2 – Problem is described clearly but there is no important (relevant) real context.	☐ 1 – Problem is described but without additional data, links or real context.	☐ 0 – Problem is not clearly described or it is not a problem.
4	Collecting and Analysing Information	☐ 4 – Student collects information from multiple sources and analyzes the information in depth.	☐ 3 – Student collects information from multiple sources and performs basic analyses.	☐ 2 – Student collects adequate information to perform meaningful analyses.	☐ 1 – Student collects inadequate information to perform meaningful analyses.	☐ 0 – Student collects no viable information.
5	Interpreting Findings and Solving the Problem	☐ 4 – Student provides a logical interpretation of the findings and clearly solves the problem, offering alternative solutions.	☐ 3 –Student provides a logical interpretation of the findings and solves the problem, but fails to provide alternative solution.	☐ 2 – Student provides an adequate interpretation of the findings and solves the problem, but fails to provide alternative solution.	☐ 1 – Student provides an inadequate interpretation of the findings and does not derive a logical solution to the problem.	☐ 0 – Student does not interpret the findings/reach a conclusion.
Marks Obtained						
Marks Obtained out of 20:						

Date:

Signature of the faculty