

Rubric of the Warm Up Project

Instructions:

- The students has to submit the project in the form of .pdf on LMS on or before 01.10.2022 (11:00 AM).
- The interviews will be conducted on 06 and 11 October as per schedule posted on website.

Following is the Rubric decided for the grading of warm-up-project.

Problem 1.

Expressing the system of equations in the form $x = xP \rightarrow 0.25$ marks

Expressing the system of equations in the form $y = Ay \rightarrow 0.25$ marks

Problem 2.

Finding basis for the column space and the row space of P by pen and paper $\rightarrow 0.5$ marks

Finding basis for the column space and the row space of A by pen and paper $\rightarrow 0.5$ marks

Writing Matlab code to find a basis of the column space of any matrix $\rightarrow 0.5$ marks

Writing Matlab code to find a basis of the row space of any matrix $\rightarrow 0.5$ marks

Problem 3.

Finding a basis for the null space of $(A - I)$ and B by pen and paper $\rightarrow 0.5$ marks

Writing Matlab code to find a basis for the null space of any matrix $\rightarrow 3$ marks

OR

If any one find the basis for the null space of any matrix using direct command in Matlab $\rightarrow 0.5$ marks

(Please note that, if any student finding null basis using direct command then he/she will get only 0.5 marks out of 3.0 marks)

Problem 4.

Writing Matlab code to find rref of any matrix $\rightarrow 1.5$ marks

Problem 5.

Writing Matlab code for Gauss Elimination of a system of equations $\rightarrow 1.5$ marks

Writing Matlab code for Gauss Jordan Elimination of a system of equations $\rightarrow 1$ marks