,	L		
		2	1

Discipline(s) / EAE / OAE	Semester	Group	Sub-group	Paper Code
CSE-AI/CSE-AIML/CSE-DS	6	PC	PC	DA-304P
EAE	6	AI-EAE	AI-EAE-2	DA-304P
EAE	6	AIML-EAE	AIML-EAE-2	DA-304P
EAE	6	DS-EAE	DS-EAE-1	DA-304P
EAE	6	SC-EAE	SC-EAE-1	DA-304P
EAE	6	MLDA-EAE	MLDA-EAE-1	DA-304P

Marking Scheme:

- 1. Teachers Continuous Evaluation: 40 marks
- 2. Term end Theory Examinations: 60 marks

Instructions:

- 1. The course objectives and course outcomes are identical to that of (Statistics, Statistical Modelling & Data Analytics) as this is the practical component of the corresponding theory paper.
- 2. The practical list shall be notified by the teacher in the first week of the class commencement under intimation to the office of the Head of Department / Institution in which the paper is being offered from the list of practicals below. Atleast 10 experiments must be performed by the students, they may be asked to do more. Atleast 5 experiments must be from the given list.
- 1. Exercises to implement the basic matrix operations in Scilab.
- 2. Exercises to find the Eigenvalues and eigenvectors in Scilab.
- 3. Exercises to solve equations by Gauss elimination, Gauss Jordan Method and Gauss Siedel in Scilab.
- 4. Exercises to implement the associative, commutative and distributive property in a matrix in Scilab.
- 5. Exercises to find the reduced row echelon form of a matrix in Scilab.
- 6. Exercises to plot the functions and to find its first and second derivatives in Scilab.
- 7. Exercises to present the data as a frequency table in SPSS.
- 8. Exercises to find the outliers in a dataset in SPSS.
- 9. Exercises to find the most risky project out of two mutually exclusive projects in SPSS
- 10. Exercises to draw a scatter diagram, residual plots, outliers leverage and influential data points in R
- 11. Exercises to calculate correlation using R
- 12. Exercises to implement Time series Analysis using R.
- 13. Exercises to implement linear regression using R.
- 14. Exercises to implement concepts of probability and distributions in R