VIT

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF ADVANCED SCIENCES

DEPARTMENT OF MATHEMATICS

FALL SEMESTER – 2018~2019

MAT2001 – Statistics for Engineers

Embedded Lab Using *R* Statistical Software

List of Experiments and Evaluation Details

Exp. No.	Experiment Title	Maximum Marks	Weightage Marks (Lab CAM - 60 % + LAB FAT - 40%)
Continuous Assessment Marks (CAM)			
1.	Measures of Central Tendency, Measures of Variability	10	**10**
2.	Correlation, Rank Correlation, Linear Regression and Multiple Linear Regression	10	**10**
3.	Binomial, Poisson and Normal Distributions	10	**10**
4.	Sample Techniques I - *Z*-Test for: Single Proportion, Single Mean, Difference of Proportions and Difference of Means	10	**10**
5.	Sample Techniques II - *t*-Test for Single Mean, Difference of Means, Paired *t*-test and *F*-Test	10	**10**
6.	Chi-Square Test and Design of Experiments	10	**10**
Final Assessment Test Marks (FAT)			
Final Assessment Test (To be Conducted in Last Week of the Semester)		50	**40**
Total Marks			**100**

Marks Split-up for Each Experiment in CAM:

S. No.	Component	Maximum Marks
1.	**Presence and Performance** (If the student is present and performed the particular experiment)	5
2.	**E-Record** (If the student is digitally submitted the report of the particular experiment done in the lab hours)	5
Total Marks for Each Experiment		**10**

If the student is absent for an experiment and he/she is performing the missed experiment in other lab hours, then 75% of internal marks (CAM) of the experiment may be awarded.

Marks Split-up in FAT:

S. No.	Component	Maximum Marks
1.	**Procedure -** Explanation with Programming Code (Minimum – 2 Problems)	30
2.	**Result** (Output)	10
3.	**Viva-Voce**	10
Total Marks		**50**

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Course in-charges
MAT2001 – Lab- Statistics for Engineers
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