

<b>Trimester: May 2021 - July 2021</b> <b>Examination: Practical Examination</b>		
<b>Programme code:09</b> <b>Programme: MCA</b>	<b>Class: FY</b>	<b>Trimester: III</b> <b>(SVU 2021)</b>
<b>Name of the Constituent College:</b> <b>K. J. Somaiya Institute of Management</b>	<b>Name of the department/Section/Center:</b> <b>DST</b>	
<b>Course Code: 117P05L301</b>	<b>Name of the Course: Artificial Intelligence and Machine Learning Lab</b>	
<b>Time: 3 hrs</b>	<b>Marks: 30</b>	

***Instructions:***

- *Viva will be taken at the time of practical as well as after the practical if required.*
- *The figures to the right indicate full marks.*
- *Dataset is provided separately.*

**Q1. Use spam.csv to perform the following. [20]**

1. Apply various feature selection techniques and show the results.
2. Develop a model with the selected features using Random Forest Classifier.
3. Try to improve the model by changing various parameters.
4. Compare the performance of the model with decision tree algorithm.

**Q2. Implement a clustering model using K mean clustering algorithm with iris.csv. [10]**