**Weekly Lesson Plan for MA Economics (Previous) 2020-21**

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Class MA (Economics) Previous, Semester I

**Paper: Quantitative Techniques in Economics-1**

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| **Month** | **Class** | **Nomenclature** | **Remarks** |
| January 2021 | Week 1 | Concept of Matrix and their types, Simple Operation on matrices.  Matrix inversion and rank of Matrix. |  |
|  | Week 2 | Determinants and their properties  Solution of simultaneous equations through cramer’s rule. Solution  of simultaneous equations through  Matrix inverse method and their Economic Application. | Assignment |
|  | Week 3 | Function: Concept and types of functions,Linear and Quadratic,Logrithmic,Expontial functions,Limit,Continuity. |  |
|  | Week 4 | Rule of differentiation and its economic application. |  |
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| February 2021 | Week 1 | Rules of Partial differentiation and its economic applications Elasticity and their types. | Test |
|  | Week 2 | Problem of maxima – minima in single and multivariable function. |  |
|  | Week 3 | Unconstrained and constrained optimization in simple economic applications. |  |
|  | Week 4 | Concept of integration and its economic application. |  |
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| March 2021 | Week 1 | Difference equation-Solution of first and second order difference equations.Application in trade cycle models |  |
|  | Week 2 | Growth models and lagged market equilibrium models. |  |
|  | Week 3 | Revision |  |
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