**Weekly Lesson Plan for MA Economics (Previous) 2019-20**

**Sandeep Kumar, Assistant Professor of Economics**

**CMG GCW Bhodia Khera, Fatehabad**

Class MA (Economics) Previous, Semester I

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Month** | **Class** | **Nomenclature** | **Remarks** |
| July  2019 | Week 3 | Concept of Matrix and their types, Simple Operation on matrices.  Matrix inversion and rank of Matrix. |  |
|  | Week 4 | Determinants and their properties  Solution of simultaneous equations through cramer’s rule. | Assignment |
| August  2019 | Week 1 | Solution of simultaneous equations through  Matrix inverse method and their Economic Application. |  |
|  | Week 2 | Function: Concept and types of functions,Linear and Quadratic,Logrithmic,Expontial functions,Limit,Continuity. |  |
|  | | | |
|  | Week 3 | Rule of differentiation and its economic application |  |
|  | Week 4 | Rules of Partial differentiation |  |
| September  2019 | Week 1 | its economic applications Elasticity and their types |  |
|  | Week 2 | Problem of maxima – minima in single function. |  |
|  | | | |
|  | Week 3 | Problem of maxima – minima in multivariable function. |  |
|  | Week 4 | Unconstrained and constrained optimization in simple economic applications |  |
| October  2019 | Week 1 | Concept of integration and its economic application. |  |
|  | Week 2 | Difference equation-Solution of first and second order difference equations | Test |
|  | Week 3 | Economic application in trade cycle models |  |
| November  2019 | Week 1 | Growth models and lagged market equilibrium models. |  |
|  | Week 2 | Revision |  |