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| DEPARTMRNT OF ECONOMICSBERHAMPORE GIRLS COLLEModule wise Distribution of Syllabus |
|  |  | even semester 2020 |  |  |
| **Course Code: HCC Batch: 2nd SEM Total No. of Classses-90** |
|  **Credit: 6 Full marks: 75**  |
| Paper | Unit Name | Content | Teacher's Name | Tentative date of completion |
| CC-3 | Unit-1: National Income Accounting, unemployment and open economy issues | What is Macroeconomics? Circular flow of income, closed and open economy .Macroeconomic data- National Income accounting and cost of living;  | SA | 30-03-2020 |
| Unit-1: National Income Accounting, unemployment and open economy issues | Concept of Growth- role of savings, investment,; Open Economy-; Concept of unemployment- Types and their characteristics. | PG | 30-03-2020 |
| Unit-2: Income Determination in the short-run  | Simple Keynesian System: Multipliers; equilibrium in both closed and open economy and stability; autonomous expenditure, balanced budget, and net exports; paradox of thrift. IS-LM Model – concept of equilibrium, | SCH | 15-03-2020 |
| Unit-3: Money and Inflation  | Monetary system- definition and functions of money and determinants of money supply; inflation and its costs. | SCH | 15-04-2020 |
| CC-4 | Unit-1: Matrix Algebra  | Matrix: its elementary operations; different types of matrix; Rank of a matrix; Determinants and inverse of a square matrix; solution of system of linear equations; Input Output System. | AM | 20-02-2020 |
| Unit-2:Functions of Several Variables | Continuous and differentiable functions: partial derivatives and Hessian matrix. Homogeneous and homothetic functions. Euler’s theorem, implicit function theorem and its application to comparative statics problems. Economic applications- theories of consumer behaviour and theory of production. | SR | 29-02-2020 |
| Unit-3: Multi-variable optimization | Optimization of nonlinear functions: Convex, concave, and quasi-concave functions; Unconstrained optimization; Constrained optimization with equality constraints Lagrangian multiplier method; Economic applications – consumer behaviour and theory of production. Optimization of linear function: Linear programming; concept of slack and surplus variables (graphical solution only). | SR | 10-04-2020 |
| Unit-4: Differential Equations | Solution of Differential equations of first order and second order; Economic application-price dynamics in a single market- multimarket supply demand model with two independent markets. Qualitative graphic solution to 2x2 linear simultaneous differential equation system- phase diagram, fixed point and stability (just concepts). | SR | 15-05-2020 |