**COURSE CODE : HS1C03**

**COURSE TITLE** : **ECONOMICS FOR ENGINEERS**

**UNIVERSITY : DIBRUGARH UNIVERSITY**

**SEMESTER : SECOND SEMESTER**

**CREDIT : 02**

**L:T:P : 2:0:0**

**End sem. Examination for this course will carry 50 marks**

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| Module | Details of module | No. of Lectures |
| 1 | **Module 1**: Basic Principle and Methodologies of Economics (Basic concepts), Demand/supply – elasticity,Government policies and application, Theory of the firm and market structure, Basic macroeconomic concepts (including GDP/GNP/NI/disposable income), Aggregate demand and supply (IS/LM), Price indices (WIP/CPI), Interest rates, Direct and indirect taxes  **Module 2**: Public sector economics –Welfare, Externalities, Labour market, Components of monitory and financial system, Central bank, Commercial banks and their functions, Capital and debt market, Monetary and fiscal policy – Tools and their impact on the economy, Inflation and Phillips curve  **Module 3**: Elements of business/managerial economics and forms of organizations, Cost and cost control – techniques, types of costs, budgets, break even analysis, capital budgeting, application of linear programming, investment analysis – NPV, ROI, IRR, payback period (5 lectures) | 5  5  5 |

**Text and Reference Books:**

1. Dewett, K.K. and Varma, J.D. *Elementary Economic Theory,* s. Chand and Company Ltd.
2. Maddala, G.S. and Ellen Miller, *Micro Economics Theory and Applications,* Tata McGraw Hill.
3. Allen, R.G.D., *Mathematical Analysis for Economics*, Macmillan.
4. Chiang, A.C., *Fundamental Methods of Mathematical Economics,* McGraw Hill.
5. Gupta, S.P., *Statistical Methods*, S.Chand and Sons Publishers.
6. Paul, R.R., *Monetary Economics*, Kalyani Publishers.
7. Dutt, Ruddar and Sundharam, K.P.M., *Indian Economy*, S.Chand and Company Ltd.
8. Choudhury, R.K., *Public Finance and Fiscal Policy*, Kalyani Publishers.
9. Jhingan, M.L., *Micro Economics Theory,*Vrinda Publisher (P) Ltd.
10. Afazuddin Ahmed and Gulzar Begum, *Engineering Economics*, Chandra Prakash.
11. Dewett, K.K., *Modern Economic Theory*