Course Name:
Engineering Economy

Course Number:
20197

Credit:
3

Prerequisite:

Course Content (outline):

- Introduction (time value of money, and interest rate)
- Methods of economic evaluation of engineering projects (equivalent annual payment, present worth, rate of return, benefit. Benefit-to –cost ratio)
- Side topics (depreciation, before/ after tax analysis, choice of minimum attractive rate of return, multiple alternatives, sensitivity analysis, retirement and replacement analysis, continuous interest rate)
- Complementary subjects (multi-attribute decision- making; probability in engineering decisions, and Bayesian decision- making).

References:

- Principles of Engineering Economy, E. L. Grant, W.G .Ire son, and R. S. Leavenworth