2nd.Semester

P2PNBC07 - TECHNOLOGY, INNOVATION AND QUALITY MANAGEMENT

Module I (8 hours)

Understanding Management of Technology, innovation technology evaluation, Diffusion. Technology and competition, Integration of strategic planning and technology planning.

Module II (10 hours)

Technology Strategy: Technology intelligence – collaborative mode, Appropriation of technology – Technology evaluation and financing – changing role of R & D, Management of manufacturing technology – corporate cultures – technology audits.

Module III (10 hours)

Introduction to quality – basic concepts, definition, quality of design and conformance, quality circle, ISO 9000 & their documentation. Data collection and presentation – SQC techniques & their applications, presentation of data, frequency distributions and pie diagram.

Module IV (12 hours)

Measures of central tendency & dispersion – calculation of mean, median, mode, standard deviation & variance, concept of distribution, introduction to tests to simple hypothecs. Inspection, sampling & correlation analysis.

References:

- 1. Babcock D.L. "Managing Engineering Technology" Prentice Hall.
- 2. Burgelman et.al "Strategic Management of Technology and Innovation" Tata McGraw Hill (2001).
- 3. Cleland and Bursic "Strategic Technology management" Amacom, Newyork.
- 4. Narayanan U.K. "Managing Technology and Innovation for competitive Advantage" Pearson

Education, Asia 2001.

5. Betz F "Managing Technology – competing Through New Ventures, Innovation and Corporate

Research." Prentice Hall.

- 6. B. L Agarwal, Basic Statistics, Wiley Eastern Limited, II Chapter
- 7. Suddhendu Biswas, Statistics of Quality Control, Wiley Eastern Limited, 2008
- 8. Juran&Geyna, Modern Methods for Quality Control and Improvement, John Wiley & Sons 1986