(17) Total Quality Management

UNIT-I: ASPECTS OF QUALITY

Quality mission, policy and objectives; concepts, evolution and determinants of quality; interpretation and process of quality audits; cost of quality and economics of quality. Contribution of quality gurus -Shewhart, Juran, Figenbaum, Ishikawa, Deming and Taguchi; SPC, SQC, CWQC, TPM, TQC.

WNIT - II: TOTAL QUALITY MANAGEMENT

Definition, underlying concepts, implementation and measurement of TQM, Internal Customer-Supplier relationship, QFD, Quality Circles, Quality improvement teams, team work and motivation in TQM implementation, training and education, role of communication in implementing TQM, policy deployment. Quality culture and leadership.

UNIT - III: MANAGEMENT OF PROCESS-I

Processes in service organization and their control, simple seven tools of quality control: Check Sheet, Histogram, Scatter diagram, Process Mapping, Cause and Effect diagram, Pareto analysis control charts and Advanced tools of quality.

UNIT-IV: MANAGEMENT OF PROCESS-II

SQC: Control Charts for variables – X, Xbar, and R charts and control charts for attributes-p, No. and c charts. Acceptance sampling plan and occurrence Vendor selection and vendor rating.

UNIT - V: MANAGEMENT OF QUALITY

Facets of quality planning, quality improvement methods, Kaizen, quality audits, medical audita accreditation, nursing care standards, Six Sigma, JT and NABL.

UNIT - VI: SYSTEMS APPROACH TO QUALITY

Introduction to ISO 2000, ISO 9000, ISO 14000 and ISO 18000.

Documentation of quality systems, quality manual, procedure manuals, work instruction manuals and records for ISO 2000.- Bench Marking and Business Process Reengineering Definition, methodology and design, evaluation and analysis. Environmental Management system-Management system for safety and health.

UNIT - VII: SYSTEMS APPROACH TO QUALITY

Auditing and Certification, Awards and Certification.