

Course Title	Production and Operations Management			Course Code	BST 32402		
Year	3	Semester	2	Credits	02	Theory (hr)	20
						Practical (hr)	20
						Independent Learning (hr)	

Aim of the Course:

To provide the knowledge and skills required in management of production and operations in manufacturing and services sectors

Intended Learning Outcomes:

After completion of this course, the learner should be able to:

- Explain the key concepts and issues of operation management in relation to manufacturing and service organizations.
- Explain the strategic role of operation management in developing a firm's competitive advantage.
- Apply an appropriate technique/s in operation management to resolve a specific problem.

Course Capsule:

Theory
Introduction to operations management; product design, service design and form teams; Process analysis / manufacturing process analysis; Job design and measurement; Quality management; Statistical process control (SPC); Capacity planning, Aggregate planning and Resource planning; Lean production; Inventory management; Waiting line analysis; Supply chain strategy, Material requirement planning

Practical
A case study / Project (individual or group basis); Methods and philosophy of statistical process control (SPC); Applications of SPC; Quality tools; DMAIC process; Application of control charts; Reporting

Assessment:

Continuous assessment: 30%
 End semester assessment: 70%