



GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for Bachelor of Vocation (B.Voc), 1st Semester

Branch: Production Technology

Subject Name: Machine Tool Technology Lab

Subject Code: 21110306

With effective
from academic
year 2021-22

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA(M)	ESE(V)	PA(I)		
3	0	2	2	0	0	30	20	50

L- Lectures; P- Practical; OJT- On Job Training; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Content:

Sr. No	Topic	No. of Hours
01	Study of Machine Tools (Lathe, Shaper, Slotter, Planner) – study the types of cutting tools available and relative motions between cutting tool and work piece on each machine tool. Also derive capacity and capability of respective machine tools from machine specifications and number of available attachments to perform variety of operations.	02
02	Study of Machine Tools (Grinding, Milling, Drilling) – study the types of cutting tools available and relative motions between cutting tool and work piece on each machine tool. Also derive capacity and capability of respective machine tools from machine specifications and number of available attachments to perform variety of operations.	02
03	Job making on lathe machine	08
04	Job making on shaper / slotter machine	06
05	Job making on milling machine	06
06	Alignment test on lathe machine / any other machine	02

Reference Books

- Production Technology: Jain & Gupta
- Machine Tool Technology (Hindi): JK Kumar
- Workshop Technology Vol. II: Hazra & Choudhary