

**GUJARAT TECHNOLOGICAL UNIVERSITY****Syllabus for Bachelor of Vocation (B.Voc), 1<sup>st</sup> Semester****Branch: Production Technology****Subject Name: Machine Tool Technology Lab.****Subject Code: 1110306****With effective  
from academic  
year 2018-19****Teaching and Examination Scheme:**

Teaching Scheme			Credits C	Examination Marks						Total Marks
L	T	P		Theory Marks			Practical Marks			
				ESE (E)	PA (M)		PA(V)		PA (I)	
				PA	ALA	ESE	OEP			
00	00	02	02	00	00	00	30	00	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	% Weightage
01	<b>(A) MACHINE SHOP</b> 1. (a) Square thread cutting (internal and external) - 2 jobs (b) Multi-start thread cutting - 1 job (c) Eccentric Turning - 1 job 2. Making utility job - Planner, Shaper, Slotter - 1 job 3. Group work on milling machine involving up & down milling in: (a) Gang milling - 1 job (b) Spur gear cutting - 1 job (c) Helical gear cutting - 1 job	10	
02	Study and sketch of various types of optical projectors. <b>(B) FITTING SHOP</b> To make a cut and cup tool - 1 job To make blank and pierce tool - 1 job To make a male and female fitting jobs - 1 job To grind a lathe/shaper/planer tool - 1 job To make different types of keys - 3 jobs To make complete gauge - 2 jobs	10	

**Reference Books**

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