

## TA 202 (2014-15 / II)

### Lecture-wise break-up:

S. No.	Titles	Suggested of number of lectures
1.	Introduction to manufacturing and its evolution	1
2.	Computer numerical control and programming	3
3.	Conventional material removal processes	4
4.	Un-conventional material removal processes	3
5.	Micro-fabrication processes	1
6.	Layered / generative manufacturing processes	1
7.	Engineering metrology	1
	<b>Total number of lectures</b>	<b>14</b>

### Suggested text and reference material:

1. Fundamental of Modern Manufacturing: Materials, Processes and Systems: M. P. Groover (John Wiley).
2. Manufacturing Processes for Engineering Materials: S. Kalpakliam and S. R. Schmid (Prentice Hall).
3. Fundamental of Manufacturing Processes: G. K. Lal and S. K. Choudhuary (Narosa).
4. Advanced Machining Processes: V. K. Jain (Allied Publishers).
5. Introduction to Micromachining: Ed. V. K. Jain (Narosa).

### • Grading Policy

Theory: 55 %		Project: 45 %	
Mid Sem. Exam. = 17.5 %	Total= 55 %.	Project drawings = 2.5 %	= 45 %
End Sem. Exam. = 30 % Three Quizzes=7.5 %		Exercises=2.5 %, Attendance=1.25%, Lab. reports = 1.25 %, Guide's evaluation=2.5 %,	
		Final project = 35 % (includes prototype, Presentation, and answers to the questions asked by the committee (30 %). Project report and <b>load sheet</b> =5 %.) (No separate Quiz in the Lab. Related questions will be asked in the MSE and ESE question papers.)	

- For getting 'D' or better letter grade in this course, one should score total marks  $\geq 35$  % (and  $\geq 25$  % in theory).