

DEPARTMENT OF INDUSTRIAL & PRODUCTION ENGINEERING
BUET, Dhaka-1000

Class schedule for Production Process (IPE-331)
Course Teacher: Nafis Ahmad

Topic	Lectures
1. Introduction	1
2. Principle of Sand casting, Gates, risers, chills etc.	2
3. Molds making machines, Patterns and core	2
4. Sands and other mold ingredients, properties of sand	1
5. Casting defects, Design of casting, allowances, draft etc	2
6. Permanent mold casting, Die casting, Centrifugal casting	2
7. Plaster mold casting, Loam casting, Precision investment casting etc.	3
Class test	2
Sub Total	15
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Metal Removing Processes	
1. Turning	1
2. Drilling	1
3. Shaping and planning	2
4. Milling	1
5. Broaching	1
6. Grinding	1
7. Precision and Non-precision finishing operations	3
Class tests	2
Sub Total	12
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Total Classes	27

References:

1. Manufacturing Engineering and Technology, third edition
By Serope Kalpakjian
2. Manufacturing Process and Materials for Engineers, third edition, Prentice-Hall Inc.
By Lawrence E. Doyle
3. Materials and Processes for Manufacturing, seventh edition
By E. Paul DeGarmo et. al.