

**3013**

**B.Tech. 2nd Semester G-Scheme (Common for all  
Branches) Examination, May-2019**

**WORKSHOP TECHNOLOGY**

**Paper-ESC-ME-102-G**

*Time allowed : 3 hours]*

*[Maximum marks : 75*

*Note : Question No. 1 is compulsory. Attempt one question  
from each unit.*

1. Explain the following : 6×2.5=15
  - (a) Define Fettling in the castings.
  - (b) What is extrusion ?
  - (c) What is the function of flux in welding ?
  - (d) List the operation performed on lathe machine.
  - (e) Causes of Accident.
  - (f) What do you mean by piercing ?

**Unit-I**

2. Explain Additive in Manufacturing process, also describe the methods of safety. 15
3. Enlist various types of accident. How can minimise them give an suitable examples. 15

**Unit-II**

4. Describe various sheett metal operations with the help of neat sketches. 15

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5. Explain the Rolling, forging, Drawing, Wire drawing and spinning. Also tell the types of timber and its's defects. 15

### Unit-III

6. Describe the various types of pattern and allowances. 15
7. Explain the cupola furnace with the help of neat sketches, also tell casting defects and its remedies. 15

### Unit-IV

8. (a) Differentiate between Arc welding and gas welding. 7
- (b) How do you compare A.C. and D.C. arc welding ? 8
9. (a) Describe MIG welding with the help of neat sketch. 10
- (b) Differentiate between soldering and brazing. 5