ADVANCED MANUFACTURING PROCESS

PMA

LIST OF ASSIGNMENT TITLES

- 1. Water jet, abrasive jet machining and hybrid machining system.
- 2. Mechanism of material removal in USM
 - a) The Electro-discharge Machining (EDM) process is widely used m the toolmaking industry. In this context discuss the advantages and the disadvantages of the die sinking EDM process.
 - b) With the aid of an annotated sketch illustrate a typical EDM single voltage pulse, indicating voltage levels and timescales. Explain why a characteristic pulse has this profile.
 - c) (Explain the principles and features of the "orbital technique" as applied to the EDM process.
- 3. Life cycle assessment and sustainable manufacturing.

GUIDE LINE

- 1. Introduction and concept.
- 2. Explain the detail of process/method/system/equipment.
- 3. Related figures/diagram.
- 4. Application in industry.
- 5. Advantages and limitation of the process/method/equipment/system.
- 6. References.
- 7. Student may add other related point to make a better report.