



# **UNCONVENTIONAL MACHINING PROCESSES**

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## UNIT I

### 1.1 INTRODUCTION

Modern machining methods are also named as non-conventional machining methods. These methods form a group of processes which removes excess material by various techniques involving mechanical, thermal, electrical chemical energy or combination of these energies. There is no cutting of metal with the help of metallic tool having sharp cutting edge. The major reasons of development and popularity of modern machining methods are listed below.

- a) Need have machine newly developed metals and non-metals having some special properties like high strength, high hardness and high toughness. A material posing the above mentioned properties are difficult to be machined by the conventional machining methods.
- b) Sometimes it is required to produce complex part geometries that cannot be produced by following conventional machining techniques. Non-conventional machining methods also provide very good quality of