



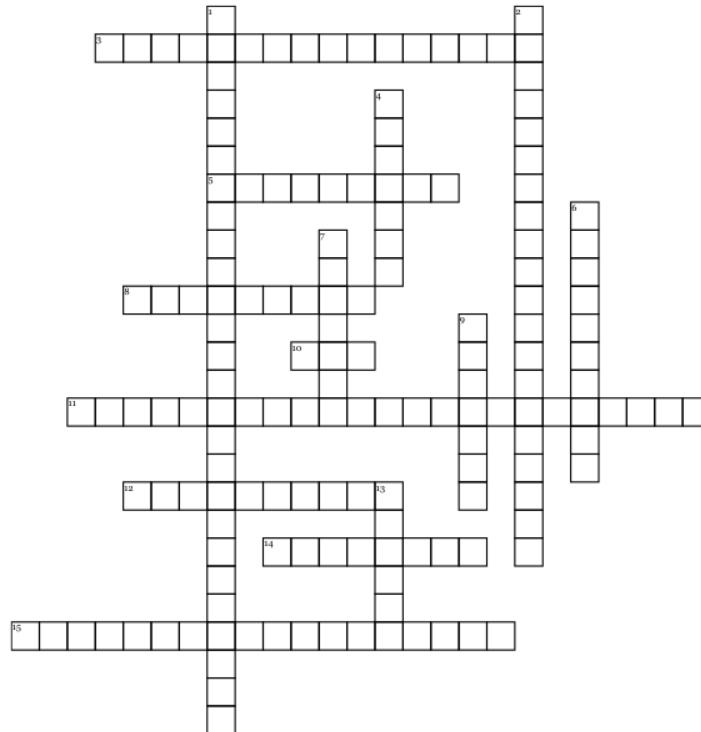
SNS COLLEGE OF TECHNOLOGY
 (An Autonomous Institution)
 COIMBATORE-35
 DEPARTMENT OF AEROSPACE ENGINEERING



19ASZ401-3D PRINTING FOR SPACE COMPONENTS

UNIT-I INTRODUCTION

PUZZLE



Across

- 3.** Very specific products that are made to order. Very expensive form of production.
- 5.** To shape a material by forcing it through a die
- 8.** Specific, measurable abilities that you would need to qualify for a job
- 10.** A tool that moves with a workpiece through a machine in order to provide repeatability and accuracy in the manufacturing of products

- 11.** Mobile robot that follows markers or wires in the floor, or uses vision, magnets, or lasers for navigation
 - 12.** Metal not containing iron.
 - 14.** Placing flat sheet material into a stamping press where a tool and die presses the material into a new shape
 - 15.** Stay 3 feet or arm's length away from machines in use. Only operator and instructor are allowed in this zone.
- Down**
- 1.** The use of software to control machine tools in the manufacturing process

- 2.** Components that are identical so that they will fit into any assembly of the same type.
- 4.** Land, equipment, and money used to start or maintain a business
- 6.** Example of Additive Manufacturing
- 7.** A joining process that melts the base metal and adds a filler material which then cools and forms a strong joint
- 9.** Shaping pliable raw material using a rigid frame
- 13.** Amount of a commodity, product, or service available