



LESSON PLAN-(SUMMER-2024)
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

| Discipline- MECHANICAL | Semester-4TH | Name of teaching faculty- Er. Dipti Ranjan Lenka |
|---------------------------|-----------------------------------|--|
| Subject- MT | No class allotted/ per week -4 | SEM From date- 16.1.2024 TO 26.4.2024 No of weeks- 15 |
| Week | Class day | Theory Topics |
| WEEK 1 | 16.01.2024 | TOOL MATERIALS |
| | 17.01.2024 | PHYSICAL PROPERTIES |
| | 18.01.2024 | CUTTING TOOL ACTION, CUTTING ACTION |
| | 22.01.2024 | ASSIGNMENTS |
| WEEK 2 | 23.01.2024 | GEOMETRY OF CUTTING TOOL |
| | 25.01.2024 | ANGLES FOR DIFFERENT TOOL MATERIALS TO BE MACHINED |
| | 29.01.2024 | SPEED, FEED |
| | 30.01.2024 | COOLANT, LUBRICANT |
| WEEK 3 | 31.01.2024 | TOOL GEOMETRY OF |
| | 01.02.2024 | LATHE OPERATIONS |
| | 02.02.2024 | LATHE OPERATIONS |
| | 05.02.2024 | SAFETY PRECAUTION |
| WEEK 4 | 06.02.2024 | CAPSTAN LATHE |
| | 08.02.2024 | MULTIPLE TOOL HOLDERS |
| | 09.02.2024 | TURRET LATHE |
| | 12.02.2024 | TURRET AND CAPSTAN LATHE |
| WEEK 5 | 13.02.2024 | TURRET INDEXING HEAD |
| | 16.02.2024 | HEXAGONAL BOLT AND BUSH |
| | 19.02.2024 | ADVANTAGES |
| | 21.02.2024 | FEED MECHANISMS |
| WEEK 6 | 22.02.2024 | APPLICATION & INTRODUCTION OF SHAPER MACHINE |
| | 24.02.2024 | COMPONENT OF SHAPER MACHINE |
| | 26.02.2024 | SHAPER MECHANISM |
| | 27.02.2024 | TOOL HEAD |
| WEEK 7 | 28.02.2024 | QUICK RETURN MECHANISM |
| | 29.02.2024 | SPECIFICATION |
| | 01.03.2024 | PLAINING MACHINE |
| | 04.03.2024 | TABLE DRIVE MECHANISM |
| WEEK 8 | 05.03.2024 | TOOL AND TOOL SUPPORT |
| | 07.03.2024 | CLAMPING OF WORK |
| | 11.03.2024 | ASSIGNMENTS |
| | 13.03.2024 | MILLING MACHINE |
| WEEK 9 | 14.03.2024 | WORK HOLDING ATTACHMENT |
| | 15.03.2024 | DIVIDING HEAD |
| | 18.03.2024 | UNIVERSAL DEVIDING HEAD |
| | 20.03.2024 | SIMPLE INDEXING |
| WEEK 10 | 21.03.2024 | COMPOUND INDEXING |
| | 22.03.2024 | DIFFERENT PROBLEMS |
| | 27.03.2024 | INDEXING |
| | 28.03.2024 | SLOTTER |

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| WEEK 11 | 29.03.2024 | CONSRTUCTION AND WORKING |
| | 30.03.2024 | VARIOUS TOOLS |
| | 01.04.2024 | SIGNIFICANCE OF GRINDING . |
| | 03.04.2024 | GRINDING WHEEL |
| WEEK 12 | 04.04.2024 | CRITERIA FOR SELECTION OF GRINDING WHEEL |
| | 08.04.2024 | SPECIFICATION , CYLINDRICAL GRINDER |
| | 09.04.2024 | SURFACE GRINDER |
| | 10.04.2024 | CENTERLESS GRINDER |
| WEEK 13 | 11.04.2024 | DRILLING |
| | 12.04.2024 | BENCH DRILLING |
| | 15.04.2024 | PILAR DRILLING |
| | 16.04.2024 | RADIAL DRILLING MACHINE |
| WEEK 14 | 19.04.2024 | BORING,BROACHING |
| | 20.04.2024 | SURFACE FINISH |
| | 22.04.2024 | LAPPING |
| | 23.04.2024 | ASSIGNMENTS |
| WEEK 15 | 24.04.2024 | CH-1,2,3,4 & 5 REVISION & IMP QUESTION DISCUSSION |
| | 25.04.2024 | CH-6,7,8,9 & 10 REVISION & IMP QUESTION DISCUSSION |
| | 26.04.2024 | CLASS TEST OF ALL CHAPTERS |

HOD SIGN.

H.O.D
Mechanical Engineering
S V S.E.T., Madanpur

DEAN (Academic) SIGN.

DEAN ACADEMICS
SVSET, MADANPUR

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Madanpur, BBSR