

Lesson Plan

Subject: **PRODUCTION TECHNOLOGY** (Th 1) Name of faculty: Sangram Biswal

Semester: 3rd Class allotted: 4p/week Branch: Mechanical Session: 2023(W)

| Discipline | Semester | From date: | To date: | Teaching Aid |
|------------|-----------------------|---|----------|--------------|
| Subject: | No. of days/ per week | Theory/ Practical - Topics/Lesson | | |
| Week | Date/Period | | | |
| 1 | 01/08/2023 | 1.0 Metal Forming Processes | | White Board |
| | to | 1.1 Extrusion: Definition & Classification | | Marker |
| | 05/08/2023 | 1.2 Explain direct, indirect and impact extrusion process. | | Smart board |
| | | 1.3 Define rolling. Classify it. | | |
| 2 | 07/08/2023 | 1.4 Differentiate between cold rolling and hot rolling process. | | White Board |
| | to | 1.5 List the different types of rolling mills used in Rolling process. | | Marker |
| | 12/08/2023 | 2.0 Welding | | Smart board |
| | | 2.1 Define welding and classify various welding processes. | | |
| 3 | 14/08/2023 | 2.2 Explain fluxes used in welding. | | White Board |
| | to | 2.3 Explain Oxy-acetylene welding process. | | Marker |
| | 19/08/2023 | 2.4 Explain various types of flames used in Oxy-acetylene welding process. | | Smart board |
| | | Continue... | | |
| 4 | 21/08/2023 | 2.5 Explain Arc welding process | | White Board |
| | to | 2.6 Specify arc welding electrodes. | | Marker |
| | 26/08/2023 | 2.7 Define resistance welding and classify it. | | Smart board |
| | | Continue... | | |
| 5 | 28/08/2023 | 2.8 Describe various resistance welding processes such as butt welding, spot weld, | | White Board |
| | to | flash welding, projection welding and seam weld. | | Marker |
| | 02/09/2023 | 2.9 Explain TIG and MIG welding process | | Smart board |
| | | Continue... | | |
| 6 | 04/09/2023 | 2.10 State different welding defects with causes and remedies. | | White Board |
| | to | Continue... | | Marker |
| | 09/09/2023 | 3.0 Casting | | Smart board |
| | | 3.1 Define Casting | | |
| 7 | 11/09/2023 | and Classify the various Casting processes. | | White Board |
| | to | 3.2 Explain the procedure of Sand mould casting. | | Marker |
| | 16/09/2023 | Continue... | | Smart board |
| | | 3.3 Explain different types of molding sands with their composition and properties. | | |

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Signature of faculty

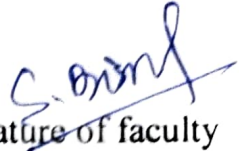
| Week | Date Period | Theory/ Practical Topics/Lesson | Teaching Aid |
|------|-------------|--|--------------|
| 8 | 18/09/2023 | 3.4 Classify different pattern | White Board |
| | to | and state various pattern allowances. | Marker |
| | 23/09/2023 | 3.5 Classify core. | Smart board |
| 9 | | 3.6 Describe construction and working of cupola and crucible furnace. | |
| | 25/09/2023 | 3.7 Explain die casting method | White Board |
| | to | 3.8 Explain centrifugal casting | Marker |
| 10 | 03/10/2023 | 3.9 Explain various casting defects | White Board |
| | to | with their causes and remedies. | Marker |
| | 07/10/2023 | with their causes and remedies. | Smart board |
| 11 | | 4.0 Powder Metallurgy | |
| | 09/10/2023 | 4.1 Define powder metallurgy process. | |
| | to | Internal Exam | |
| 12 | 14/10/2023 | | |
| | 16/10/2023 | 4.2 State advantages of powder metallurgy technology technique | White Board |
| | to | 4.3 Describe the methods of producing components by powder metallurgy technique. | Marker |
| 13 | 20/10/2023 | 4.4 Explain sintering. | Smart board |
| | | Explain sintering. | |
| | 30/10/2023 | 4.5 Economics of powder metallurgy. | White Board |
| 14 | to | Economics of powder metallurgy. | Marker |
| | 04/11/2023 | 5.0 Press Work | Smart board |
| | | 5.1 Describe Press Works: blanking, piercing and trimming. | |
| 15 | | 5.2 List various types of die and punch | White Board |
| | 06/11/2023 | 5.3 Explain simple, Compound & Progressive dies | Marker |
| | to | 5.4 Describe the various advantages | Smart board |
| 16 | 11/11/2023 | & disadvantages of above dies | |
| | 13/11/2023 | 6.0 Jigs and fixtures | White Board |
| | to | 6.1 Define jigs and fixtures | Marker |
| 17 | 18/11/2023 | 6.2 State advantages of using jigs and fixtures | Smart board |
| | | 6.3 State the principle of locations | |
| | 20/11/2023 | 6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig | White Board |
| 18 | to | 6.5 List various types of jig and fixtures. | Marker |
| | 25/11/2023 | Revision... | Smart board |
| | | Revision... | |

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| Week | Date/Period | Theory/ Practical –Topics/Lesson | Teaching Aid |
|------|-------------|----------------------------------|--------------|
| 17 | 28/11/2023 | Revision... | White Board |
| | to | Revision... | Marker |
| | 30/11/2023 | Revision... | Smart board |
| | | Revision... | |


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