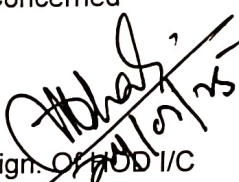


|                                                                                   |                                                                                                                                                                                                                 |                                                                                                                                             |                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|  |                                                                                                                                                                                                                 | <b>GOVERNMENT POLYTECHNIC, NABARANGPUR</b>                                                                                                  |                    |
|                                                                                   |                                                                                                                                                                                                                 | <b>DEPARTMENT OF MECHANICAL ENGINEERING</b>                                                                                                 |                    |
| Discipline:<br><b>MECHANICAL ENGG</b>                                             | Semester:<br><b>4<sup>TH</sup></b>                                                                                                                                                                              | Name of the Teaching Faculty: Sri Raso Bihari Nayak                                                                                         |                    |
| Subject:<br><b>WORKSHOP PRACTICE-III</b>                                          | No. of days/per week class allotted: <b>06</b>                                                                                                                                                                  | Semester From date: 04.02.2025                                                                                                              | To Date:17.05.2025 |
| <b>COURSE OUTCOMES</b>                                                            | <ul style="list-style-type: none"><li>● Preparing components and jobs using foundry, welding and machining <input type="checkbox"/></li><li>● Realizing process parameters involved and their effects</li></ul> |                                                                                                                                             |                    |
|                                                                                   |                                                                                                                                                                                                                 |                                                                                                                                             |                    |
| <b>Week</b>                                                                       | <b>Class Day</b>                                                                                                                                                                                                | <b>Theory/Practical Topics</b>                                                                                                              |                    |
| <b>1<sup>ST</sup></b>                                                             | 1-3                                                                                                                                                                                                             | INTRODUCTION                                                                                                                                |                    |
|                                                                                   | 4-6                                                                                                                                                                                                             | 1 Machining Practices                                                                                                                       |                    |
| <b>2<sup>ND</sup></b>                                                             | 1-3                                                                                                                                                                                                             | 1 Machining Practices                                                                                                                       |                    |
|                                                                                   | 4-6                                                                                                                                                                                                             | 1.1 Job in evolving drilling, boring                                                                                                        |                    |
| <b>3<sup>RD</sup></b>                                                             | 1-3                                                                                                                                                                                                             | 1.1 Job in evolving drilling, boring                                                                                                        |                    |
|                                                                                   | 4-6                                                                                                                                                                                                             | 1.2 Internal/External threading on Turning jobs                                                                                             |                    |
| <b>4<sup>TH</sup></b>                                                             | 1-3                                                                                                                                                                                                             | QUIZ AND ASSIGNMENT                                                                                                                         |                    |
|                                                                                   | 4-6                                                                                                                                                                                                             | 1.2 Internal/External threading on Turning jobs                                                                                             |                    |
| <b>5<sup>TH</sup></b>                                                             | 1-3                                                                                                                                                                                                             | 1.2 Internal/External threading on Turning jobs                                                                                             |                    |
|                                                                                   | 4-6                                                                                                                                                                                                             | 1.3 Job in evolving use of Capstan and turret lathe (Taper Turning & Chamfering)                                                            |                    |
| <b>6<sup>TH</sup></b>                                                             | 1-3                                                                                                                                                                                                             | 1.3 Job in evolving use of Capstan and turret lathe (Taper Turning & Chamfering)                                                            |                    |
|                                                                                   | 4-6                                                                                                                                                                                                             | 1.3 Job in evolving use of Capstan and turret lathe (Taper Turning & Chamfering)                                                            |                    |
| <b>7<sup>TH</sup></b>                                                             | 1-3                                                                                                                                                                                                             | 1.4 All gear lathe, CNC Lathe Trainer Practice Job involving all turning process on MS Rod & aluminum rod for jobs using CNC Lathe trainer. |                    |
|                                                                                   | 4-6                                                                                                                                                                                                             | QUIZ AND ASSIGNMENT                                                                                                                         |                    |
| <b>8<sup>TH</sup></b>                                                             | 1-3                                                                                                                                                                                                             | 1.4 All gear lathe, CNC Lathe Trainer Practice Job involving all turning process on MS Rod & aluminum rod for jobs using CNC Lathe trainer. |                    |
|                                                                                   | 4-6                                                                                                                                                                                                             | 1.4 All gear lathe, CNC Lathe Trainer Practice Job involving all turning process on MS Rod & aluminum rod for jobs using CNC Lathe trainer. |                    |
| <b>9<sup>TH</sup></b>                                                             | 1-3                                                                                                                                                                                                             | 1.4 All gear lathe, CNC Lathe Trainer Practice Job involving all turning process on MS Rod & aluminum rod for jobs using CNC                |                    |

|                  |     |                                                                                                                     |
|------------------|-----|---------------------------------------------------------------------------------------------------------------------|
|                  |     | Lathe trainer.                                                                                                      |
|                  | 4-6 | 2 Metal Machining                                                                                                   |
| 10 <sup>TH</sup> | 1-3 | 2 Metal Machining                                                                                                   |
|                  | 4-6 | 2.1 Shaper Preparation of V Block on CI or MS Blocks 2.2 Milling Machine Preparation of Spur gear on CI or MS round |
| 11 <sup>TH</sup> | 1-3 | 2.1 Shaper Preparation of V Block on CI or MS Blocks                                                                |
|                  | 4-6 | QUIZ AND ASSIGNMENT                                                                                                 |
| 12 <sup>TH</sup> | 1-3 | 2.1 Shaper Preparation of V Block on CI or MS Blocks                                                                |
|                  | 4-6 | 2.2 Milling Machine Preparation of Spur gear on CI or MS round                                                      |
| 13 <sup>TH</sup> | 1-3 | QUIZ AND ASSIGNMENT                                                                                                 |
|                  | 4-6 | 2.2 Milling Machine Preparation of Spur gear on CI or MS round                                                      |
| 14 <sup>TH</sup> | 1-3 | 2.2 Milling Machine Preparation of Spur gear on CI or MS round                                                      |
|                  | 4-6 | 2.2 Milling Machine Preparation of Spur gear on CI or MS round                                                      |
| 15 <sup>TH</sup> | 1-3 | LAB RECORD SUBMISSION                                                                                               |
|                  | 4-6 | LAB RECORD SUBMISSION                                                                                               |

  
 24/01/2025  
 Sign. Of Faculty  
 Concerned

  
 24/01/25  
 Sign. Of HOD I/C

  
 24/01/25  
 Academic Coordinator

  
 Principal  
 7.2.25