



# GOVERNMENT POLYTECHNIC, NABARANGPUR

## DEPARTMENT OF AUTOMOBILE ENGINEERING

| Discipline:<br><b>AUTOMOBILE ENGG</b>    | Semester:<br><b>4<sup>TH</sup></b>                                                                                                                                                                                 | Name of the Teaching Faculty: Sri Kiran Kumar Behera                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>No. of Weeks: <b>15</b>                                                               |
| <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> |                                                                                                                                             |
| Week                                     | Class Day                                                                                                                                                                                                          | Theory/Practical Topics                                                                                                                     |
| 1 <sup>ST</sup>                          | 1-3                                                                                                                                                                                                                | INTRODUCTION                                                                                                                                |
|                                          | 4-6                                                                                                                                                                                                                | 1 Machining Practices                                                                                                                       |
| 2 <sup>ND</sup>                          | 1-3                                                                                                                                                                                                                | 1 Machining Practices                                                                                                                       |
|                                          | 4-6                                                                                                                                                                                                                | 1.1 Job in evolving drilling, boring                                                                                                        |
| 3 <sup>RD</sup>                          | 1-3                                                                                                                                                                                                                | 1.1 Job in evolving drilling, boring                                                                                                        |
|                                          | 4-6                                                                                                                                                                                                                | 1.2 Internal/External threading on Turning jobs                                                                                             |
| 4 <sup>TH</sup>                          | 1-3                                                                                                                                                                                                                | QUIZ AND ASSIGNMENT                                                                                                                         |
|                                          | 4-6                                                                                                                                                                                                                | 1.2 Internal/External threading on Turning jobs                                                                                             |
| 5 <sup>TH</sup>                          | 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)                                                            |
| 6 <sup>TH</sup>                          | 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)                                                            |
| 7 <sup>TH</sup>                          | 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                                                                                                                         |
| 8 <sup>TH</sup>                          | 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. |
| 9 <sup>TH</sup>                          | 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<br>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                                                                                                  |

*Yin Y. Peh*

Sign. Of Faculty  
Concerned

*Raffa*

Sign. Of HOD I/C

*R. S. S.*  
Academic Coordinator

*[Signature]*  
Principal  
7.2.15