




## Module (Course Syllabus) Catalogue 2023-2024

|                          |   |  |
|--------------------------|---|--|
| College/ Institute       | Erbil Technical Engineering College   |  |
| Department               | Mechanical and Energy   |  |
| Module Name              | Workshop and factories  |  |
| Module Code              | WOF202  |  |
| /Degree                  | Technical Diploma <input type="checkbox"/>  | Bachelor <input type="checkbox"/>                              |
|                          | High Diploma <input type="checkbox"/>   | Master <input type="checkbox"/> PhD <input type="checkbox"/>   |
| Semester                 | 2   |  |
| Qualification            | M.sc in Mechanical Engineering  |  |
| Scientific Title         | Assist. Lecturer  |  |
| ECTS (Credits)           | 5   |  |
| Module type              | Prerequisite <input type="checkbox"/>   | Core <input type="checkbox"/> Assist. <input type="checkbox"/> |
| Weekly hours             | 4   |  |
| Weekly hours (Theory)    | ( 2 )hr Class   | ( 24 )Total hrs Workload                                       |
| Weekly hours (Practical) | ( 2 )hr Class   | ( 24 )Total hrs Workload                                       |
| Number of Weeks          | 12  |  |
| Lecturer (Theory)        | DEEDAR RAOOF MOHAMMED   |  |
| E-Mail & Mobile NO.      | <a href="mailto:deedar.mohammed@epu.edu.iq">deedar.mohammed@epu.edu.iq</a> ,07507664003 |  |
| Lecturer (Practical)     | DEEDAR RAOOF MOHAMMED   |  |
| E-Mail & Mobile NO.      | <a href="mailto:deedar.mohammed@epu.edu.iq">deedar.mohammed@epu.edu.iq</a> ,07507664003 |  |
| Websites                 |   |  |

# Course Book

|   |   |                              |                        |   |  |
|---|---|------------------------------|------------------------|---|--|
| <p><b>Course Description</b></p>          | <p>The course gives students a knowledge and experience about WORKSHOP &amp; FACTORIES and helps them develop an understanding of its types and its applications with theoretical and practical information, the applications involves electric devices, welding, metal sheet, carpentry and lathe.</p>   |                              |                        |   |  |
| <p><b>Course objectives</b></p>           | <p>(WORKSHOP &amp; FACTORIES) aims are using prior knowledge taught in previous subjects, working the capabilities of engineering and making it attractive and useful for students, willing or not to opt for a mechanical profile. To sensitize the students about the relationship between technology and society by analysing the role of WORKSHOP &amp; FACTORIES in this binomial and the sustainability of the current model of human activity.</p> |                              |                        |   |  |
| <p><b>Student's obligation</b></p>        | <p>Student's obligation in WORKSHOP &amp; FACTORIES course is:</p> <ul style="list-style-type: none"> <li>• Attendance in the all lectures.</li> <li>• One or more quizzes in each course.</li> <li>• Attendance in practical hour in IC engines lab.</li> <li>• Other activities like reports and mechanical project.</li> <li>• Exam in end of first course</li> <li>• Practical exam at end of all courses.</li> </ul>                                 |                              |                        |   |  |
| <p><b>Required Learning Materials</b></p> | <ul style="list-style-type: none"> <li>➤ Data show, and PowerPoint program in teaching in computer hall.</li> <li>➤ White board .</li> <li>➤ Web site to upload all lecture notes .</li> </ul>  |                              |                        |   |  |
| <p><b>Evaluation</b></p>                  | <p><b>Task</b></p>  | <p><b>Weight (Marks)</b></p> | <p><b>Due Week</b></p> | <p><b>Relevant Learning Outcome</b></p> |  |
|   | <p>Paper Review</p>   |                              |                        |   |  |
|   | <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Assignments</p>  | <p>Homework</p>              |                        |   |  |
|   |   | <p>Class Activity</p>        |                        |   |  |
|   |   | <p>Report</p>                |                        |   |  |
|   |   | <p>Seminar</p>               |                        |   |  |
|   |   | <p>Essay</p>                 |                        |   |  |
|   | <p>Project</p>  |                              |                        |   |  |
| <p>Quiz</p>                               |   |                              |                        |   |  |

|                                   |   |             |                         |  |
|-----------------------------------|---|-------------|-------------------------|--|
|                                   | Lab.  |             |                         |  |
|                                   | Midterm Exam  |             |                         |  |
|                                   | Final Exam  | 100         |                         |  |
|                                   | Total   | 100         |                         |  |
| <b>Specific learning outcome:</b> | 1- Electric devices.<br>2- Welding.<br>3- Carpentry.<br>4- Sheet metal.<br>5- Lathe.  |             |                         |  |
| <b>Course References:</b>         | <b>Key reference:</b> <ul style="list-style-type: none"> <li>• <a href="https://makefilms.cc/2018/01/25/factory-vs-workshop/">https://makefilms.cc/2018/01/25/factory-vs-workshop/</a></li> <li>• <a href="https://wikidiff.com/factory/workshop">https://wikidiff.com/factory/workshop</a></li> <li>• <a href="https://www.port.ac.uk/about-us/our-facilities/teaching-and-learning-spaces/student-workshop-and-advanced-manufacturing-lab">https://www.port.ac.uk/about-us/our-facilities/teaching-and-learning-spaces/student-workshop-and-advanced-manufacturing-lab</a></li> </ul> |             |                         |  |
| <b>Course topics (Theory)</b>     |   | <b>Week</b> | <b>Learning Outcome</b> |  |
| 1. Lathe                          |   | 1-2         |                         |  |
| 2. Welding                        |   | 3-4         |                         |  |
| 3. Sheet metal                    |   | 5-6         |                         |  |
| 4. Carpentry                      |   | 7-8         |                         |  |
| 5. Electrical device              |   | 9-10        |                         |  |
|                                   |   |             |                         |  |
|                                   |   |             |                         |  |
|                                   |   |             |                         |  |
|                                   |   |             |                         |  |
|                                   |   |             |                         |  |

| <b>Practical Topics</b>  | <b>Week</b> | <b>Learning Outcome</b> |
|--|-------------|-------------------------|
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|  |             |                         |
|  |             |                         |
| <b>Questions Example Design</b>  |             |                         |
| <b>Extra notes:</b>  |             |                         |
| <p><b>External Evaluator</b></p> <p>After viewing this course catalogue and its syllabus it is seems to me very good and sufficient to covers the required areas for students to understand fundamentals of WORKSHOP &amp; FACTORIES and their analyses with best regards.</p> <div style="text-align: right; margin-right: 100px;">  <p><b>Dr. Hindren Ali Saber</b><br/><b>06/02/2024</b></p> </div> |             |                         |