| | TEC | HNIC | AL DRAWING | | | | | | | |
|------|---|---|---|--|--|--|--|--|--|--|
| 1 | Course Title: | TECHNI | CAL DRAWING | | | | | | | |
| 2 | Course Code: | OTPZ10 | 7 | | | | | | | |
| 3 | Type of Course: | Compuls | sory | | | | | | | |
| 4 | Level of Course: | Short Cy | vcle | | | | | | | |
| 5 | Year of Study: | 1 | | | | | | | | |
| 6 | Semester: | 1 | | | | | | | | |
| 7 | ECTS Credits Allocated: | 5.00 | | | | | | | | |
| 8 | Theoretical (hour/week): | 3.00 | | | | | | | | |
| 9 | Practice (hour/week): | 1.00 | | | | | | | | |
| 10 | Laboratory (hour/week): | 0 | | | | | | | | |
| 11 | Prerequisites: | - | | | | | | | | |
| 12 | Language: | Turkish | | | | | | | | |
| 13 | Mode of Delivery: | Face to face | | | | | | | | |
| 14 | Course Coordinator: | Öğr.Gör.Dr. YILMAZ DORUK | | | | | | | | |
| 15 | Course Lecturers: | Öğr.Gör.Dr.Yılmaz DORUK | | | | | | | | |
| 16 | Contact information of the Course Coordinator: | yzdoruk@uludag.edu.tr, 02242942374, U.Ü.Teknik Bilimler Meslel Yüksekokulu B Blok-Görükle Kampüsü/Bursa | | | | | | | | |
| 17 | Website: | | | | | | | | | |
| 18 | Objective of the Course: | Aim of technical drawing, definition of the tools and materials used, lettering, scales; kinds of line and where they are used, geometrical drawings, projections of elements in three dimensions, perspective and its kinds, its means; freehand sketching, technical drawing of different structural elements and project drawings rules; works on cooling projects, Application projects and drawings. | | | | | | | | |
| 19 | Contribution of the Course to Professional Development: | | | | | | | | | |
| 20 | Learning Outcomes: | | | | | | | | | |
| | | 1 | Refrigeration and air conditioning symbols and the ability to draw diagrams To Understand the perspective | | | | | | | |
| | | 2 | To draw three view and perspective drawings. | | | | | | | |
| | | 3 | To perform the half and full section views drawing. | | | | | | | |
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| 21 | Course Content: | | | | | | | | | |
| | | ourse Content: | | | | | | | | |
| Week | Theoretical | | Practice | | | | | | | |
| 1 | Importance of Technical drawing, drate tools and their usage. | | Introduction to technical drawing tools and materials | | | | | | | |
| 2 | Writing standards, the drawing rules and line standards | | Sample drawings and drawings control homeworks | | | | | | | |
| 3 | Paper folding, text fields, scale stand | dards | Applications about the subject | | | | | | | |

| 4 | Basic geometric drawings, drawings polygons practices | of | Drawing of geometric shapes and regular polygons | | | | | | | |
|------------------|--|-------------|---|--------------------|-----------------------------|-----------------------------------|--|--|--|--|
| 5 | | practices | Drawing of geometric shapes and regular polygons | | | | | | | |
| 6 | Projection, projection types, basic prorules | ojection | Applications about the subject | | | | | | | |
| 7 | The completion of the missing appea | rance | Air Conditioning symbols (pre-and post heaters, coolers, fans and hoods, filters, grilles, dampers, water fittings, air conditioning ducts) | | | | | | | |
| 8 | Course review and mid-term exam | | symbols of electrical circuit elements in the cooling units | | | | | | | |
| 9 | Scaling, the scaling methods, the scarules | aling | application of dimensioning | | | | | | | |
| 10 | Scales of magnification and reduction | า | applications in reduction and enlargement scales | | | | | | | |
| 11 | Three views drawings | | Three-View drawing applications | | | | | | | |
| 12 | Cross-section types and rules, obtain the appearances | ment of | application of sectioning | | | | | | | |
| 13 | Perspective drawing | | Connection diagrams for cooling units | | | | | | | |
| 14 | Drawings of different elements and p drawings rules | roject | Cooling symbols. Main components (compressor, condenser, evaporator, expansion device, symbols), the auxiliary elements (filter-drier Drayer, valve, coil, sensorbulb, measuring and control and safety element symbols, the heat exchanger-heat exchangers, storage tanks and symbols) | | | | | | | |
| 22 | Textbooks, References and/or Other | | 1)Soğ | utma ve iklimlendi | rme meslek resmi. | Bulgurcu,H. | | | | |
| Activit | IMaterials: es | | | a 2001. mber | Duration (hour) | Total Work Load (hour) | | | | |
| Theore | tical | | 4 Ken | nal Türkdemir, Tek | ฒิเผ ® esim 1, ISBN: | 9278 50 9 3471-1-3, | | | | |
| Practic | als/Labs | | 14 | 0004 B" 01 | 2.00 | 28.00 | | | | |
| Self stu | dy and preperation | | 934471 | -1-3, Mayıs 2001, | Bilan Ofset, Denizli | 42.00 | | | | |
| Homew | | | 10 | | 3.00 | 30.00 | | | | |
| | FARNING ACTIVITIES | NUMBE | IMEICI | JT. | 0.00 | 0.00 | | | | |
| Field S | | | 0 | | 0.00 | 0.00 | | | | |
| Midtern | n Exams | 1 | 30100 | | 10.00 | 10.00 | | | | |
| Others | | | 0 | | 0.00 | 0.00 | | | | |
| Hionane E | warksproject | 10 | 0.00 | | 12.00 | 12.00 | | | | |
| Total W | /ork Load | | | | | 150.00 | | | | |
| Total w | ork load/ 30 hr | 12 | 100.0 | 0 | | 5.00 | | | | |
| | Credit of the Course | | | | | 5.00 | | | | |
| Success Grade | | | | | | | | | | |
| Contrib | ution of Final Exam to Success Grade | | 50.00 | | | | | | | |
| Total | | | 100.0 | 0 | | | | | | |
| Measur Course | rement and Evaluation Techniques Us | sed in the | | | | | | | | |
| 24 | ECTS / WORK LOAD TABLE | | | | | | | | | |
| 25 | 25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS | | | | | | | | | |

PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1

| ÖK2 | 4 | 0 | 5 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|-------|---|----------|---|---|--------|---|---|-------------|---|---|---|---|
| ÖK3 4 0 5 3 0 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | |
| Contrib 1 very low ution Level: | | | 2 | 2 low | | 3 Medium | | | 4 High | | | 5 Very High | | | | |