**ESOGU AERONAUTICAL ENGINEERING DEPARTMENT**

**COURSE INFORMATION FORM**

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| **Course Name** | **Course Code** |
| Production Planing |  |

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| **Semester** | **Number of Course Hours per Week** | | **ECTS** |
| **Theory** | **Practice** |
| 4 | 3 | 0 | 3 |

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| **Course Category (Credit)** | | | | |
| **Basic Sciences** | **Engineering Sciences** | **Design** | **General Education** | **Social** |
|  |  |  |  | X |

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| **Course Language** | **Course Level** | **Course Type** |
| English | Undergraduate | Elective |

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| **Prerequisite(s) if any** | No |
| **Objectives of the Course** | Demand forecasting, Aggregate Production Planning, Material Requirement Planning, Stock Control, Project Management |
| **Short Course Content** | Aeronautical engineer a contemporary and knowledge sharing to reach the ball to forward the importance of today's information age, given that the locomotive of this course the student technologies based on the most  current information in a matter of professional training contribute very valuable. |

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| **Learning Outcomes of the Course** | | **Contributed PO(s)** | **Teaching Methods \*** | **Measuring Methods \*\*** |
| **1** | Defines production and production management. | All | 1,7 | A, D |
| **2** | Knows and classifies the activities of production planning, programming and production management. | All | 1, 7 | A,D |
| **3** | Knows and classifies the functions of production management. | All | 1,7 | A, D |
| **4** | Classifies production systems, makes production decisions. | All | 1, 7 | A,D |
| **5** | Knows demand forecasting and demand forecasting methods. | All | 1,7 | A, D |
| **6** | Learns the concept of stock, determines the most appropriate stock amount. | All | 1,7 | A, D |
| **7** |  |  |  |  |
| **8** |  |  |  |  |

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| **Main Textbook** | Lecture Notes, Composite Materials for Aircraft Applications (Deo R.B.), A dan Z ye Dünya Uçakları ve Helikopterleri (Kuşhan M.C.) |
| **Supporting References** |  |
| **Necessary Course Material** |  |

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| **Course Schedule** | |
| **1** | Production and Production Management Definition |
| **2** | Historical Background and Approach to Production Management Systems |
| **3** | Production Management Activities |
| **4** | Production Management Functional Structure |
| **5** | Plastics as Defense Technology Materials |
| **6** | Factors Affecting Product Design and product design |
| **7** | The Importance of Demand Forecasts |
| **8** | Mid-Term Exam |
| **9** | Enterprise Resource Planning |
| **10** | Enterprise Resource Planning |
| **11** | Application of Demand Forecasts |
| **12** | Stock Concept and Business Economy |
| **13** | Stock Control Methods |
| **14** | Inventory Control Models |
| **15** | Inventory Control Models |
| **16,17** | Final Exam |

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| **Calculation of Course Workload** | | | |
| **Activities** | **Number** | **Time (Hour)** | **Total Workload (Hour)** |
| Course Time (number of course hours per week) | 3 | 1,75 | 1,5 |
| Classroom Studying Time (review, reinforcing, prestudy,….) | --- | --- | --- |
| Homework | 2 | 140 | 77 |
| Quiz Exam | --- | --- | --- |
| Studying for Quiz Exam | --- | --- | --- |
| Oral exam | 1 | 0,25 | 0,25 |
| Studying for Oral Exam | --- | --- | --- |
| Report (Preparation and presentation time included) | 1 | 15 | 15 |
| Project (Preparation and presentation time included) | --- | --- | --- |
| Presentation (Preparation time included) | 1 | 0,25 | 0,25 |
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|  |  |  |  |
| Mid-Term Exam | 1 | 0,75 | 0,75 |
| Studying for Mid-Term Exam | --- | --- | --- |
| Final Exam | 1 | 1 | 1 |
| Studying for Final Exam | --- | --- | --- |
|  | **Total workload** | | **95,75** |
|  | **Total workload / 30** | | **3,29** |
|  | **Course ECTS Credit** | | **3** |

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| **Evaluation** | |
| **Activity Type** | **%** |
| Mid-term | 10 |
| Homework | 60 |
| Bir öğe seçin. |  |
| Bir öğe seçin. |  |
| Bir öğe seçin. |  |
| **Final Exam** | 30 |
| **Total** | 100 |

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| **RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO)** (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low) | | |
| **NO** | **PROGRAM OUTCOME** | **Contribution** |
| **1** | Sufficient knowledge of mathematics, science and engineering; Ability to apply theoretical and applied knowledge in these fields to model and solve engineering problems | 5 |
| **2** | Ability to identify, define, formulate and solve complex engineering problems in engineering and related fields by selecting and applying appropriate analysis and modeling methods. | 5 |
| **3** | The ability to design a complex system, device or product in line with a determined goal, under realistic constraints and conditions, by applying modern design methods. | 5 |
| **4** | Ability to develop, select and use modern techniques and tools necessary for engineering applications and to effectively benefit from information technologies. | 5 |
| **5** | Ability to design experiments, conduct experiments, collect data, analyze and interpret results for the study of engineering problems. | 5 |
| **6** | Ability to work individually, within and across disciplines as a team | 5 |
| **7** | Ability to communicate effectively in Turkish verbally and in writing and the ability to use/improve foreign language knowledge. | 5 |
| **8** | Awareness of the necessity of lifelong learning; the ability to access information, follow developments in science and technology and constantly renew oneself | 5 |
| **9** | Awareness of professional and ethical responsibility | 5 |
| **10** | Knowledge of project management and business practices such as risk management and change management; awareness about entrepreneurship, innovation and sustainable development | 5 |
| **11** | Information about the effects of engineering practices on health, environment and safety at universal and social dimensions; Awareness of national and international legal regulations and standards and the legal consequences of engineering solutions | 5 |
| **12** |  |  |

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| **LECTUTER(S)** | | | | |
| **Prepared by** | Prof. Melih Cemal Kushan (PhD) |  |  |  |
| **Signature(s)** |  |  |  |  |

**Date:** 06.06.2024