

FACULTY OF ENGINEERING			
DEPARTMENT OF INDUSTRIAL ENGINEERING			
YEAR 3 (SIXTH SEMESTER)			
COURSE CODE AND NAME	INE 308 Forecasting Methods		
INSTRUCTOR	Asst. Prof. Türker Ertem - turker.ertem@toros.edu.tr		
EXPLANATIONS	In this course, we will provide an overview of forecasting methodologies. We aim to develop, design, and compare different forecasting methods. We discuss techniques for selecting the best method that fits specific decision-making requirements of an organization.		
METHOD OF THE COURSE	Toros University Distance Education Unit, dokuman.toros.edu.tr		
COURSE TOPICS AND WEEKLY PROGRAM		Date	Time
TOPICS	Time Series Forecasting Theory Types of Studies, Mathematical Structure Cross-Sectional Study vs Time Series Study Types of Analysis, Choosing the Best Model Components of a Time Series		
	Moving Average Weighted Moving Average Exponential Smoothing Forecasting Error		
	Different Time Series Processes White Noise AR Models, MA Models ARMA Models, ARIMA Models		
	Detecting AR, MA, ARMA, and ARIMA Models Autocorrelation and Partial Autocorrelation Functions Examples in R Programming		
	Correlation and Simple Linear Regression Correlation The Least-Squares Line Uncertainties in the Least-Squares Coefficients Checking Assumptions and Transforming Data		
	Multiple Regression The Multiple Regression Model Confounding and Collinearity Model Selection		
COURSE RESOURCES	Course presentations and complementary course videos (open access) to be uploaded/announced week by week.		
		Date	Time
ADVISOR HOURS	You can ask your questions via e-mail.		
OTHER EXPLANATIONS	This curriculum can be updated according to how the pandemic process continues.		
EXAMS	The midterm and final exam dates will be announced later.		

FACULTY OF ENGINEERING			
DEPARTMENT OF INDUSTRIAL ENGINEERING			
YEAR 3 (SIXTH SEMESTER)			
COURSE CODE AND NAME	INE 310 OPERATIONAL RESEARCH III		
INSTRUCTOR	ASSST. PROF. MELİK KOYUNCU - melihkoyuncu@yahoo.com		
EXPLANATIONS	The theoretical time of this course will be taken 3 hours weekly as distance education. Students will follow the courses from the slides.		
METHOD OF THE COURSE	Toros University Distance Education Unit, dokuman.toros.edu.tr		
COURSE TOPICS AND WEEKLY PROGRAM		Date	Time
TOPICS	Week9 - Queing systems examples and analytical solutions		
	Week10 - Nonexponential interarrival time and service time queing systems		
	Week11 - Approximate solutions in the queuing systems		
	Week12 - Analyzing serial queing networks		
	Week13 - Analyzing serial nonserial queing networks		
	Week14 - Simulation of queing systems		
COURSE RESOURCES	Related power point files, lecture notes and Hillier and Lieberman Introduction to Operations Research ,McGraw Hill (Chapter 15-16)		
		Date	Time
ADVISOR HOURS		Every Friday	10:00 - 11:00
OTHER EXPLANATIONS	For consultancy, you may send an e-mail to melihkoyuncu@yahoo.com or you may connect and ask your questions to melik.koyuncu1 via Skype at the consulting time.		
EXAMS	Course's midterm and final exams will be announced.		

FACULTY OF ENGINEERING			
DEPARTMENT OF INDUSTRIAL ENGINEERING			
YEAR 3 (SIXTH SEMESTER)			
COURSE CODE AND NAME	INE314 STOCK CONTROL		
INSTRUCTOR	ASSOC. PROF. DR. CENK ŞAHİN - sahin.cenk@gmail.com		
EXPLANATIONS	The theoretical time of this course will be taken 3 hours weekly as distance education. Students will follow the courses from the slides.		
METHOD OF THE COURSE	Toros University Distance Education Unit, dokuman.toros.edu.tr		
COURSE TOPICS AND WEEKLY PROGRAM		Date	Time
TOPICS	Week9 - Bacorders-ReordePoint (Pages 71-136)		
	Week10 - Models for Known Demand (Pages 137-168)		
	Week11 - CHARACTERISTICS OF INVENTORY SYSTEMS - Quantity Discounts, Barcod Systems (Pages 168-187)		
	Week12 - ABC Analysis,VED,SDE, FSN and SOS Classification (Pages 188-223)		
	Week13 - XYZ, GOLF,Min Max Tech,Canbans,Constraints on stock,Uncertainty in stocks (Pages 224-248)		
	Week14 - Uncertian Demand (Pages 249-301)		
COURSE RESOURCES	Related pdf files.		
		Date	Time
ADVISOR HOURS		Every Monday	09:00 - 12:00
OTHER EXPLANATIONS	For consultancy, you may send an e-mail to selin.sarac@toros.edu.tr		
EXAMS	Course's midterm and final exams will be announced.		

FACULTY OF ENGINEERING			
DEPARTMENT OF INDUSTRIAL ENGINEERING			
YEAR 3 (SIXTH SEMESTER)			
COURSE CODE AND NAME	INE316 Lean Manufacturing		
INSTRUCTOR	Asst.Prof. Ziya G. ALTUN - ziya.altun@toros.edu.tr		
EXPLANATIONS	In this course, students make presentations. Presentations are shared in https://yadi.sk/d/3mKV-FuUVt3Lvq link.		
METHOD OF THE COURSE	Toros University Distance Education Unit, dokuman.toros.edu.tr		
COURSE TOPICS AND WEEKLY PROGRAM		Date	Time
TOPICS	Week9 - Modelling and Analysis: Modelling for MSS, Static and dynamic models, Certainty, Uncertainty and Risk, MSS Modelling in Spreadsheets, Simulation, Optimization via Mathematical Programming		
	Week10 - Data Warehousing Data Warehousing definitions and concepts, Process Overview, architecture, development, administration and security issues		
	Week11 - Business Analytics and Data Visualization: Overview, Online Analytical Processing(OLAP), Data Visualization, GIS, Usage, Benefits and success		
	Week12 - Data Mining: Concepts and Applications, Tools and Techniques, Text Mining, Web Mining		
	Week13 - Neural Networks: Concept, ANN, Applications, development of Neural Network based system		
	Week14 - Knowledge Management: Introduction, activities, approaches, information technology, role of people, success		
COURSE RESOURCES	Related PDF files.		
		Date	Time
ADVISOR HOURS	Necessary questions and explanations will be given to students during the consultancy hour. Other questions will be explained by the instructor via e-mail.		
OTHER EXPLANATIONS			
EXAMS	Course's midterm and final exams will be announced.		

FACULTY OF ENGINEERING			
DEPARTMENT OF INDUSTRIAL ENGINEERING			
YEAR 3 (SIXTH SEMESTER)			
COURSE CODE AND NAME	INE322 PRODUCTION PLANNING II		
INSTRUCTOR	ASSOC.PROF. DR. CENK ŞAHİN - sahin.cenk@gmail.com		
EXPLANATIONS	The theoretical time of this course will be taken 3 hours weekly as distance education. Students will follow the courses from the slides.		
METHOD OF THE COURSE	Toros University Distance Education Unit, dokuman.toros.edu.tr		
COURSE TOPICS AND WEEKLY PROGRAM		Date	Time
TOPICS	Week9 - Lot Sizing (Power Point (Lecture 6- page 39-55) and pdf file (Material Requirement Planning))		
	Week10 - Lot Sizing Extra Examples (LoySizing Extra Examples)		
	Week11 - Introduction Production Scheduling (Power Point (Lecture 7) and pdf file (Production Scheduling))		
	Week12 - Machine Scheduling Algorithms (Power Point (Lecture 7) and pdf file (Production Scheduling))		
	Week13 - Dispatching Rules (Power Point (Lecture 7) and pdf file (Production Scheduling))		
	Week14 - Classes of Schedules (Power Point (Lecture 7) and pdf file (Production Scheduling))		
COURSE RESOURCES	Related PDF files.		
		Date	Time
ADVISOR HOURS		Every Monday	09:00 - 12:00
OTHER EXPLANATIONS	For consultancy, you may send an e-mail to sahin.cenk@gmail.com		
EXAMS	Course's midterm and final exams will be announced.		

FACULTY OF ENGINEERING			
DEPARTMENT OF INDUSTRIAL ENGINEERING			
YEAR 3 (SIXTH SEMESTER)			
COURSE CODE AND NAME	INE324 Manufacturing Support Systems		
INSTRUCTOR	Asst.Prof. Ziya Gökalp Altun - ziya.altun@toros.edu.tr		
EXPLANATIONS	This course can be viewed as asynchronous (previously recorded videos).		
METHOD OF THE COURSE	At the end of each chapter, a project related with the subject of presentation will be offered. Students will prepare project presentations/documents, and will send to instructor's mail. Toros University Distance Education Unit, dokuman.toros.edu.tr		
COURSE TOPICS AND WEEKLY PROGRAM			
			Date
			Hour
TOPICS	Week9 - An Introduction to Information Systems, Information Systems in Organizations, Hardware: Input, Processing, and Output Devices		
	Week10 - Software: Systems and Application Software, The Internet, Intranets, and Extranets		
	Week11 - Database Systems, Data Centers,Business Intelligence		
	Week12 - Electronic and Mobile Commerce and Enterprise Systems		
	Week13 - Information and Decision Support Systems		
	Week14 - Knowledge Management and Specialized Information Systems		
COURSE RESOURCES	Principles of Information Systems : A Managerial Approach 9th Edition, Ralph M. Stair		
	Decision Support Systems for Business Intelligence, 2nd Ed., Vicki L. Sauter		
	Information Technology for Management, 8th Ed., Turban & Volonino		
	Management Information Systems, 13th Ed., Laudon		
		Date	Hour
ADVISOR HOURS			
OTHER EXPLANATIONS	Students will prepare their homeworks/reports and send to instructors email.		
EXAMS	The midterm and final exam dates will be announced later.		

FACULTY OF ENGINEERING			
DEPARTMENT OF INDUSTRIAL ENGINEERING			
YEAR 3 (SIXTH SEMESTER)			
COURSE CODE AND NAME	INE332 FACILITIES PLANNING		
INSTRUCTOR	Asst.Prof. Fikri EGE - fikri.ege@toros.edu.tr		
EXPLANATIONS	The theoretical time of this course will be taken 3 hours weekly as distance education. Students will follow the courses from the slides.		
METHOD OF THE COURSE	Toros University Distance Education Unit, dokuman.toros.edu.tr		
COURSE TOPICS AND WEEKLY PROGRAM		Date	Time
TOPICS	Week9 - Layout planning models and design algorithms		
	Week10 - Agorithmic approaches		
	Week11 - Personnel requirements		
	Week12 - Material handling		
	Week13 - Warehouse operations		
	Week14 - Layout Examples		
COURSE RESOURCES	Facilities Planning, Tompkins, White, Bozer, Tanchoco, John Wiley and Sons, 3rd edition.		
		Date	Time
ADVISOR HOURS	Necessary questions and explanations will be given to students during the consultancy hour. Other questions will be explained by the instructor via e-mail.		
OTHER EXPLANATIONS			
EXAMS	Course's midterm and final exams will be announced.		

FACULTY OF ENGINEERING			
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YEAR 3 (SIXTH SEMESTER)			
COURSE CODE AND NAME	INE342 COST ANALYSIS		
INSTRUCTOR	Prof.Dr.Yusuf ZEREN - yusuf.zeren@toros.edu.tr		
EXPLANATIONS	The theoretical time of this course will be taken 3 hours weekly as distance education. Students will follow the courses from the slides.		
METHOD OF THE COURSE	Toros University Distance Education Unit, dokuman.toros.edu.tr		
COURSE TOPICS AND WEEKLY PROGRAM		Date	Time
TOPICS	Week9 - JOB COSTING, FULL PRODUCT COSTS: A BRIEF OVERVIEW (Pages 131-145)		
	Week10 - JOB COSTING, ACCOUNTING FOR MANUFACTURING OVERHEAD (Pages 147-162)		
	Week11 - PROCESS COSTING, OVERVIEW (Pages 194-207)		
	Week12 - PROCESS COSTING, PROCESS COSTING IN A SECOND PROCESSING DEPARTMENT (Pages 214-224)		
	Week13 - ACTIVITY BASED COSTING AND OTHER COST MANAGEMENT TOOLS, REFINED COST SYSTEMS (Pages 259-272)		
	Week14 - ACTIVITY-BASED COSTING, USING ABC FOR DECISION MAKING (Pages 273-288)		
COURSE RESOURCES	Related PDF files.		
		Date	Time
ADVISOR HOURS		Every Thursday	09:10 - 12:00
OTHER EXPLANATIONS	For consultancy, you may send an e-mail to yusuf.zeren@toros.edu.tr		
EXAMS	Course's midterm and final exams will be announced later.		