ESOGÜ Mathematics and Computer Sciences Department
COURSE INFORMATION FORM

SEMESTER	Spring

COURSE CODE	821614004	**COURSE NAME**	Probabilty and Statistics

SEMESTER	**WEEKLY COURSE PERIOD**			**COURSE OF**			
	Theory	**Practice**	**Labratory**	**Credit**	**ECTS**	**TYPE**	**LANGUAGE**
4	3	0	0	3	5	COMPULSORY (X) ELECTIVE ( )	Turkish

COURSE CATAGORY				
Mathematics	**Computer**			**Social Science**
x				

ASSESSMENT CRITERIA			
	Evaluation Type	**Quantity**	**%**
MID-TERM	1st Mid-Term	1	40
	2nd Mid-Term		
	Quiz		
	Homework		
	Project		
	Report		
	Others (………)		
FINAL EXAM		1	60

PREREQUIEITE(S)	None
COURSE DESCRIPTION	Probability calculation, probability calculation with repeated trials, probability functions, cumulative distributions, expected value, arithmetic mean, variance,moment,discrete distributions, continuous distributions. Basic concepts and properties of statistics, sampling, statistical interpretation and inference, importent statistical means, sampling distributions, papulation parameter
COURSE OBJECTIVES	To give basic concepts and properties of probability. To determine probability problems,analyse them and find the solition methods. To give basic concepts and properties of statiatics. To determine statistical problems,analyse them and find the solition methods.
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION	Students should be able to determine problems solveable with probabilitical and statistical calculation, analyse them and find the solution methods.
COURSE OUTCOMES	Gain sufficient knowledge of Probabilty and Statistical , related with science and own branch; an ability to apply theoretical and practical knowledge on solving and modeling of problems.
TEXTBOOK	Lecture Notes
OTHER REFERENCES	• Olasılık ve İstatistik, *Lisans Tamamlama Programı*, 1991 • Olasılık, İ. Kara, *Bilim Teknik Yayınları*, 2000. • Temel İstatistik, N. Çömlekçi, *Bilim Teknik Yayınları*, 2005. • Olasılık ve İstatistik , F. Akdeniz, *Baki Kitapevi Yayınları*, 2002 • Matematiksel İstatistik I Ders Notları , V. Yılmaz, H. E. Çelik. • Matematiksel İstatistik II Ders Notları , V. Yılmaz, H. E. Çelik • Olasılık, H. K. Özgün, *Nobel Yayın Dağıtım*.
TOOLS AND EQUIPMENTS REQUIRED	None

WEEK	TOPICS
	COURSE SYLLABUS
WEEK	TOPICS
1	Some fundamental concept and properties of probabilty
2	Probability of special event
3	Rassal variant
4	Probability functions
5	Distrubition function
6	Expected value
7	Arithmetic avarage,varians
8	Mid-term
9	Discrete distrubition
10	Continues distrubition
11	Solving Problem
12	Samples
13	Importent Distrubition
14	Distubitions of sample
15	Solving Problem
16,17	Final

NO	PROGRAM OUTCOMES	3	2	1
1	The ability to apply knowledges of Mathematics and Computer Sciences,	X		
2	To have sufficient theoretical and practical knowledge of Mathematics at international level,		X	
3	The ability of describing, modelling and solving of mathematical problems at Mathematics and related subjects,		X	
4	The skill to solve and design a problem process in accordance with a defined target,	X		
5	Skills to analyze data, interpret and apply to other datum and using these data on computer,		X	
6	The skill to use the modern techniques and computational tools needed for mathematical applications,	X		
7	The skill to make team work within the discipline and interdisciplinary,	X		
8	The ability to improve oneself by following the developments on other modern, scientific and technological subjects as well as Mathematics and Computer Sciences,		X	
9	The skill to communicate orally and in written way, in a clear and concise manner by having individual work skills and ability to independently decide and analytical thinking,		X	
10	The skill to have professional and ethical responsibility,		X	
11	The skill to have consciousness for quality issues and scientific research,		X	
12	The skill to be sensitive to environmental issues related with problems and development of living area and consistent in the social relations,		X	
13	Ability to solve problems in the working life faced to find an appropriate algoritms via mathematical modeling and to write computer programs,		X	
14	The skill to developed design of software systems at different complex levels,			X
15	The credence of necessity of life-long learning and ability to apply the formation long-life learning.	X		
1:None. **2**:Partially contribution. **3**: Completely contribution.				

Instructor(s): Prof.Dr.Münevver Özcan

Signature: **Date:**