Course	ESSENTIAL MATHEMATICS FOR POLITICAL SCIENCE				
	Туре	Semester	ECTS	Code	
	(E)	IV	4		
Course instructor					
Course assistant					
Course tutor					
Goals and objectives	Mathematics for Political Science is of both disciplines, Mathematics a curricula with the UBT reflects ou developing and applying social know approach, and present a review of a analysis in the social sciences. After a and combinations, culminating with limits and continuity, as well as an We will continue with probability theo functions. We culminate this cours stochastic processes. All in all, a succ to take a course in statistical method We apply every single mathematica from sociology, political science, a geography. Many of our examples a goal is not only to teach students to the way that social science research the needed relevance.	and Political Science. Its is in growing awareness of vledge. Therefore, we will the basic mathematical cor an analytic geometry, we will matric algebra. Then we we introduction to differentia ry and its applications, inclu e with a mathematical dis ressful completion of this cou- dds for social sciences. I case in real social setting nthropology, psychology, re built on real data from K apply mathematic principles	introduction in the Po the role of quantitative try to take a somehow incepts that underlie mo I continue with algebra, will discuss scalar calce al calculus and later v ding random variables cussion of multivariate urse will make way easing s with a total of 83 ex- public policy, commu- tosovo, the region and s and practices, but als	Vitical Science ve methods in more informa ost quantitative reviewing sets ulus, including ector calculus and probability e functions and ier for students xamples driver unications and the world. The so to introduce	
Learning outcomes	<ol> <li>Upon successful completion of this</li> <li>Students will be able to have undergraduate course in statistics at theory.</li> <li>Students would be inspired and er modelling.</li> <li>Students will be able to follow up of 4. Students will be inspired and ena research related to political big da 5. Students will be able to apply mail 6. Students will be able to apply son 7. Students will appropriate a strop PHILOSOPHY.</li> </ol>	the sufficient skills to s s well as graduate courses habled to write diploma thes graduate studies with metho- bles to undertake future st ata. thematical methods to resp he simple forms of mathem	in econometrics, statistics is with mathematical a bodologically quantitative udies in data-oriented ond social queries; atical modelling in soci	stics and game nd/or statistical departments. disciplines and al settings;	
	Weekly plan			Week	
	Week 1. The basics: Essential a specific mathematical use of terms, fu equation of a line; factorial funct logarithms and exponents; applic	inctions and equations, app ions, modulo functions,	lying functions an the	1	

**Week 2.** Analytic geometry: Radial measurement and polar coordinate trigonometry; radian measures for trigonometric functions; conic sections and som analytical geometry; applications.

2

3

7

Turn in homework 1

Content

**Week 3.**Linear algebra: Working with vectors; vector norms; matrixes, simple an special; controlling the matrix; matrix transportation; special matrix form vectorization of matrixes; applications.

• Turn in homework 2

**Week 4.**Linear algebra continued: Matrix structure; space and time; the trace an 4 determinants of matrix; matrix rank; matrix norms; matrix inversion; linear systems equations; eigen-analysis of matrices; quadratics forms and description applications.

• Turn in homework 3

Week 5.Elementary scalar calculus: limits and lines; understanding rates, change 5 and derivatives; derivative rules for common functions; basic algebraic rules f derivatives; derivatives of logarithms and exponents; L'Hospital's rule; application Rolle's theorem and mean value theorem;

• Turn in homework 4

Week 6. Understanding areas, slices and integrals; rienamm integrals; th 6 fundamental theorem of calculus; integration polynomials with antiderivative indefinite integrals; integrals involving logarithms and exponents; integration by part

Turn in homework 5

**Week 7.** Calculus of trigonometric functions; derivatives of trigonometric function integrals of trigonometric functions; applications. Midterm exam

**Week 8.** Additional topics in scalar and vector calculus: partial derivatives 8 derivatives and partial derivatives of higher order; maxima, minima and root finding evacuating zero-derivative points; root finding with Newton-Raphson.

• Turn in homework 6

PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD; <ul> <li>Turn in homework 10</li> <li>Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.</li> <li>Course Summary: Reflection, Review,</li> <li>Final exam</li> <li>Evaluation methods</li> </ul> 13 <ul> <li>Final exam</li> <li>Problem-based learning</li> <li>Midterm exam</li> <li>Timal exam</li> <li>Teaching methods</li> </ul> <ul> <li>Final exam</li> <li>Town in the exam</li> <li>Teaching breakdown</li> <li>Number</li> <li>Week</li> <li>Weight (%)</li> <li>Midterm exam</li> <li>Timal exam</li> <li>Town in the ex</li></ul>	PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD; <ul> <li>Turn in homework 10</li> <li>Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.</li> <li>Course Summary: Reflection, Review,</li> <li>Final exam</li> </ul> 13 <ul> <li>Final exam</li> <li>Lectures</li> <li>Seminars</li> <li>Seminars</li> <li>Problem-based learning</li> <li>Midterm exam</li> <li>Midterm exam</li> <li>Midterm exam</li> <li>Midterm exam</li> <li>Time exam</li> </ul> <ul> <li>Veek</li> <li>Veek</li> <li>Veek</li> <li>Veek</li> <li>Veek</li> </ul> <ul> <li>Prinal exam</li> <li>Teaching methods</li> <li>Seminars</li> <li>Seminars</li> <li>Seminars</li> <li>Seminars</li> <li>Seminars</li> <li>Yeroblem-based learning</li> <li>Y</li></ul>	PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD;         • Turn in homework 10         Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.       13         Course Summary: Reflection, Review,       14         • Final exam       15         Methods       9. Lectures       20%         10. Seminars       20%         11. Lab work       20%         12. Problem-based learning       40%         • Midterm exam       1       7       25%         • Final exam       1       14       25%	PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD; <ul> <li>Turn in homework 10</li> <li>Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.</li> <li>Course Summary: Reflection, Review,</li> <li>Final exam</li> </ul> 13 <ul> <li>Final exam</li> <li>Lectures</li> <li>Seminars</li> <li>Seminars</li> <li>Problem-based learning</li> <li>Midterm exam</li> <li>Midterm exam</li> <li>Midterm exam</li> <li>Midterm exam</li> <li>Time exam</li> </ul> <ul> <li>Final exam</li> <li>Teaching methods</li> <li>Seminars</li> <li>Seminar</li> <li>Seminar</li> <li>Seminar</li></ul>	PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD; <ul> <li>Turn in homework 10</li> <li>Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.</li> <li>Course Summary: Reflection, Review,</li> <li>Final exam</li> </ul> 13 <ul> <li>Final exam</li> <li>Lectures</li> <li>Seminars</li> <li>Seminars</li> <li>Seminars</li> <li>Problem-based learning</li> </ul> Yuesh (%) <ul> <li>Midterm exam</li> <li>Midterm exam</li> <li>Tiderm exam</li> <li>Midterm exam</li> <li>Ten Midterm exam</li> <li>Midterm exam</li> <li>Ten Midterm exam</li> <li>Midterm exam</li> <li>Ten Midterm exam</li></ul>	<ul> <li>Turn in homework 8</li> <li>Week 11.Random variables: levels of measurement; distribution functions; 11 randomness of variables; probability mass functions; Bernoulli Trials; Binomial experiments; Poisson counts; the culminative distribution function, discrete and continuous;</li> </ul>		Week 1		ctions: exponential and	aamma PDEs: normal	12
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PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD; <ul> <li>Turn in homework 10</li> <li>Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.</li> <li>Course Summary: Reflection, Review,</li> <li>Final exam</li> <li>Seminars</li> <li>Seminars</li> <li>Seminars</li> <li>Seminars</li> <li>Problem-based learning</li> <li>Midterm exam</li> <li>Midterm exam</li> <li>Timal exam</li> </ul> <ul> <li>Veek</li> <li>Weight (%)</li> <li>Midterm exam</li> <li>Midterm exam</li> <li>Teach in a exam</li> </ul>	PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD; <ul> <li>Turn in homework 10</li> <li>Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.</li> <li>Course Summary: Reflection, Review,</li> <li>Final exam</li> </ul> 13 <ul> <li>Final exam</li> <li>Lectures</li> <li>Seminars</li> <li>Seminars</li> <li>Seminars</li> <li>Problem-based learning</li> </ul> Yeek	PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD;         • Turn in homework 10         Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.       13         Course Summary: Reflection, Review,       14         • Final exam       15         Teaching methods       9. Lectures       20%         10. Seminars       20%         11. Lab work       20%         12. Problem-based learning       40%         • Midterm exam       1       7         • Midterm exam       1       7         • Final exam       1       14	PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD;         • Turn in homework 10         Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.       13         Course Summary: Reflection, Review,       14         • Final exam       15         Teaching methods       9. Lectures       20%         10. Seminars       20%         11. Lab work       20%         12. Problem-based learning       40%         • Midterm exam       1       7         • Midterm exam       1       7         • Final exam       1       14	PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD; <ul> <li>Turn in homework 10</li> <li>Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.</li> <li>Course Summary: Reflection, Review,</li> <li>Final exam</li> </ul> 13 <ul> <li>Final exam</li> <li>Lectures</li> <li>Lectures</li> <li>Seminars</li> <li>Seminars</li> <li>Problem-based learning</li> </ul> Yeek	<b>Week 11.</b> Random variables: levels of measurement; distribution functions; 11 randomness of variables; probability mass functions; Bernoulli Trials; Binomial experiments; Poisson counts; the culminative distribution function, discrete and continuous;		Mool: 4	2 Drobability danaity from	ational avacantial and		40
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Lab work       20%       20%         12. Problem-based learning       14         Midterm exam       1       7         20%       1. Advort       20%         20%       1. Advort       20%         20%       1. Advort       20% <td>calculations with probabilities; conditional probability and Bayes Law; Simpson's paradox; independence; odds; applications.       Image: independence; odds; applications.         .       Turn in homework 8       Week 11.Random variables: levels of measurement; distribution functions; randomness of variables; probability mass functions; Bernoulli Trials; Binomial experiments; Poisson counts; the culminative distribution function, discrete and continuous;       11         .       Turn in homework 9       Week 12. Probability density functions; exponential and gamma PDFs; normal PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD;       12         .       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Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.       13         Course Summary: Reflection, Review,       14       14         • Final exam       15         Teaching methods       Grading breakdown       Number       Week         • Midterm exam       1       7       25%         • Midterm exam       1       7       25%         • Final exam       1       7       25%         • Midterm exam       1       7       25%         • Midterm exam       1       7       25%	theorem and Pascal's Triangle; sets and operations on sets; general characteristics of sets; the empty set; operations on sets; the probability function; calculations with probabilities; conditional probability and Bayes Law; Simpson's paradox; independence; odds; applications.       11         • Turn in homework 8       Week 11.Random variables: levels of measurement; distribution functions; randomness of variables; probability mass functions; Bernoulli Trials; Binomial experiments; Poisson counts; the culminative distribution function, discrete and continuous;       11         • Turn in homework 9       Week 12. 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Probability density functions; exponential and gamma PDFs; normal PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD;       12         • Turn in homework 10       Week 13. Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.       13         Course Summary: Reflection, Review.       14       15         Teaching methods       9. Lectures       20%         10. Seminars       20%       20%         11. Lab work       20%       20%         12. Problem-based learning       1       7         Evaluation methods       1       7       25%	theorem and Pascal's Triangle; sets and operations on sets; general characteristics of sets; the empty set; operations on sets; the probability function; calculations with probabilities; conditional probability and Bayes Law; Simpson's paradox; independence; odds; applications.       11         • Turn in homework 8       Week 11.Random variables: levels of measurement; distribution functions; randomness of variables; probability mass functions; Bernoulli Trials; Binomial experiments; Poisson counts; the culminative distribution function, discrete and continuous;       11         • Turn in homework 9       Week 12. 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Correlation and covariance; expected value; some handy properties and rules; inequalities based on expected values; moments of distribution; applications.         13           Course Summary: Reflection, Review,         14         14           • Final exam         15           Meaching methods         9. Lectures 10. Seminars 12. Problem-based learning         20% 10. Seminars 12. Problem-based learning         20% 12. Problem-based learning         40%           Final exam         1         7         25% 15. 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Week 10. Probability theory: counting rules and permutations; the binomial theorem and Pascal's Triangle; sets and operations on sets; general characteristics of sets; the empty set; operations on sets; the probability function; calculations with probabilities; conditional probability and Bayes Law; Simpson's paradox; independence; odds; applications.       10         • Turn in homework 8       • Turn in homework 8       11         Week 11. Random variables: levels of measurement; distribution function; randomness of variables; probability mass functions; Bernoulti Trials; Binomial experiments; Poisson counts; the culminative distribution function, discrete and continuous;       11         • Turn in homework 9       12         Week 12. Probability density functions; exponential and gamma PDFs; normal node; measures of dispersion, variance, standard deviation and MAD;       12         • Turn in homework 10       Week 13. 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Problem-based learning 40% 5 Evaluation methods Evaluation methods	Turn in homework 7 Week 10.Probability theory: counting rules and permutations; the binomial theorem and Pascal's Triangle; sets and operations on sets; general characteristics of sets; the empty set; operations on sets; the probability function; calculations with probability conditional probability and Bayes Law; Simpson's paradox; independence; odds; applications.     Turn in homework 8 Week 11.Random variables; levels of measurement; distribution functions; randomness of variables; probability mass functions; Bernoulli Trials; Binomial experiments; Poisson counts; the culminative distribution function, discrete and continuous;     Turn in homework 9 Week 12. Probability density functions; exponential and gamma PDFs; normal PDF; the uniform distribution; measures of central tendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD;     Turn in homework 10 Week 13. 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Problem-based learning 40% 5 Evaluation methods Evaluation methods	Turn in homework 7 Week 10.Probability theory: counting rules and permutations; the binomial theorem and Pascal's Triangle; sets and operations on sets; general characteristics of sets; the empty set; operations on sets; the probability function; calculations with probability conditional probability and Bayes Law; Simpson's paradox; independence; odds; applications.     Turn in homework 8 Week 11.Random variables; levels of measurement; distribution functions; randomness of variables; probability mass functions; Bernoulli Trials; Binomial experiments; Poisson counts; the culminative distribution function, discrete and continuous;     Turn in homework 9 Week 12. Probability density functions; exponential and gamma PDFs; normal PDF; the uniform distribution; measures of central lendency, mean, median and mode; measures of dispersion, variance, standard deviation and MAD;     Turn in homework 10 Week 13. 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Sources and	- Laboratory		1
concretization	- Moodle		
means	- Software MATLAB		
	- Projector		
	Type of activity	Week hours	Total weight
	13. Lectures	2	30
	14. Seminars	1	15
Load and activities	15. Lab work		
	16. Independent study		30
	17. Exams		
	18. Homework		25
Literature/references	Jeff Gill. 2006. <i>Essential Mathematics for Pol</i> University Press.	itical and Social Research. Cam	bridge: Cambridge
Contact			