

MODULE HANDBOOK
ECONOMETRICS



BACHELOR DEGREE PROGRAM
DEPARTMENT OF STATISTICS
FACULTY OF SCIENCE AND DATA ANALYTICS
INSTITUT TEKNOLOGI SEPULUH NOPEMBER

ENDORSEMENT**PAGE****MODULE HANDBOOK
ECONOMETRICS
DEPARTMENT OF STATISTICS****INSTITUT TEKNOLOGI SEPULUH NOPEMBER**

Proses Process	Penanggung Jawab Person in Charge			Tanggal Date
	Nama Name	Jabatan Position	Tanda tangan Signature	
Perumus <i>Preparation</i>	Dr. Ir. Setiawan, M.S.	Dosen <i>Lecturer</i>		March 28, 2019
Pemeriksa dan Pengendali <i>Review and Control</i>	Dr. Ir. Setiawan, M.S. Dr. Drs. Agus Suharsono, M.S. M. Sjahid Akbar, S.Si, M.Si	Tim kurikulum <i>Curriculum team</i>		April 15, 2019
Persetujuan <i>Approval</i>	Dr. Ir. Setiawan, M.S.	Koordinator RMK <i>Course Cluster Coordinator</i>		July 17, 2019
Penetapan <i>Determination</i>	Dr. Dra. Kartika Fithriasari, M.Si	Kepala Departemen <i>Head of Department</i>		July 30, 2019

MODULE HANDBOOK


ECONOMETRICS

Module name	Econometrics
Module level	Undergraduate
Code	KS1841720
Course (if applicable)	Econometrics
Semester	Seventh Semester (Ganjil)
Person responsible for the module	Dr. Ir. Setiawan, M.S.
Lecturer	Dr. Ir. Setiawan, M.S. Dr. Drs. Agus Suharsono, M.S. M. Sjahid Akbar, S.Si, M.Si
Language	Bahasa Indonesia and English
Relation to curriculum	Undergraduate degree program, mandatory , 7 th semester.
Type of teaching, contact hours	Lectures, <50 students
Workload	<ol style="list-style-type: none"> 1. Lectures : 2 x 50 = 100 minutes per week. 2. Exercises and Assignments : 2 x 60 = 120 minutes (2 hours) per week. 3. Private learning : 2 x 60 = 120 minutes (2 hours) per week.
Credit points	2 credit points (sks)
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.


Mandatory prerequisites	<ul style="list-style-type: none"> • Regression Analysis • Introduction to Economy Theory 	
Learning outcomes and their corresponding to PLOs	<p>CLO.1 Master and apply econometric methodology in research, and can use the results of the analysis for decision making</p> <p>CLO.2 Formulate micro and macroeconomic phenomena / problems in an econometric model and select the appropriate (statistical) estimation method</p>	PLO.1
	<p>CLO.3 Able to apply econometric methodology in their field of work</p> <p>CLO.4 Able to formulate problems in their field of work into an econometric model with a single equation or a system of equations (SUR and simultaneous) to solve problems</p> <p>CLO.6 Have knowledge of current and future issues related to the field of econometrics so that they are able to make the right decisions based on the analysis of econometric models (micro and macro), and are able to communicate the results of the analysis both orally and in writing</p>	PLO.3
	<p>CLO.7 Able to communicate effectively and work together in interdisciplinary and multidisciplinary teams</p> <p>CLO.8 Have professional responsibilities and ethics</p> <p>CLO.9 Able to motivate yourself to think creatively and learn throughout life</p>	PLO.4
Content	<p>Econometrics is a course in the field of economic and financial statistics. The purpose of this course is to be able to apply statistical methods in the field of economics. In this course, students will learn about econometric methodology in research which includes making model specifications, estimating models, evaluating the results of model estimates, and evaluating forecasting power. The econometric models discussed include single equations, SUR, as well as both static and dynamic simultaneous equations with applications in micro and macro economics. In this lecture, case studies will also be presented to evaluate the results of other people's research, as well as econometric modeling so that they can be used as tools in</p>	

	decision making to solve problems in real cases.
Study and examination requirements and forms of examination	<ul style="list-style-type: none"> ● In-class exercises ● Mid-term examination ● Final examination
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.
Reading list	<ol style="list-style-type: none"> 1. Greene, William H. 2007. <i>Econometric Analysis</i>. 6th edition. Englewood Cliffs, N. J. : Prentice Hall. 2. Gujarati. 2008. <i>Basic Econometrics</i>. 4th edition. McGraw-Hill Companies. 3. Kmenta, J. 1986. <i>Elements of Econometrics</i>. 2d edition. New York : Macmillan. 4. Koutsoyiannis, A. <i>Theory of Econometrics</i>. 5. Setiawan dan Kusri DE. 2008. <i>Ekonometrika</i>.


RENCANA PEMBELAJARAN SEMESTER (RPS)
SEMESTER LEARNING PLAN

	Program Studi	Sarjana, Departemen Statistika, FSAD-ITS
	Mata Kuliah	Ekonometrika
	Kode Mata Kuliah	KS184720
	Semester/SKS	VII/2
	MK Prasyarat	Analisis Regresi, Pengantar Teori Ekonomi
RP-S1	Dosen Pengampu	Dr. Ir. Setiawan ; Dr. Drs. Agus Suharsono, MS ; Muhammad Sjahid Akbar, S.Si. M.Si

Bahan Kajian <i>Study Materials</i>	Dasar Sains, Teori Statistika, Pengumpulan Data, Deskripsi dan Eksplorasi, Komputasi dan Data Processing, Pemodelan, Industri dan Bisnis, Ekonomi dan Manajemen <i>Statistics Theory, Collecting Data, Description and Exploration, Computation and Data Processing, Modeling, Industrial and Business, Economic and Management</i>
CPL yang dibebankan MK <i>PLO</i>	CPL-1 Mampu menerapkan pengetahuan teori statistika, matematika, dan komputasi CPL-3 Mampu menganalisis data dengan metode statistika yang tepat dan menginterpretasikannya CPL-4 Mampu mengidentifikasi, memformulasi, dan menyelesaikan masalah statistika di berbagai bidang terapan <i>PLO.1 Able to apply knowledge of statistical theory, mathematics, and computation</i> <i>PLO.3 Able to analyze data with appropriate statistical methods and interpret them</i> <i>PLO.4 Able to identify, formulate, and solve statistical problems in various applied fields</i>


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CP-MK	<p>CPMK.1 Menguasai dan menerapkan metodologi ekonometrika dalam penelitian, serta dapat menggunakan hasil analisis untuk pengambilan keputusan</p> <p>CPMK.2 Memformulasikan fenomena/masalah ekonomi mikro dan makro dalam model ekonometrika dan memilih metode estimasi (statistik) yang sesuai</p> <p>CPMK.3 Mampu mengaplikasikan metodologi ekonometrika di bidang kerjanya</p> <p>CPMK.4 Mampu memformulasikan persoalan di bidang kerjanya ke dalam model ekonometrika dengan persamaan tunggal maupun sistem persamaan (SUR dan simultan) untuk menyelesaikan masalah</p> <p>CPMK.6 Memiliki pengetahuan tentang isu terkini dan mendatang yang berkaitan dengan bidang ekonometrika supaya mampu mengambil keputusan yang tepat berdasarkan analisis model ekonometrika (mikro dan makro) , serta mampu mengkomunikasikan hasil analisis baik secara lisan maupun tertulis</p> <p>CPMK.7 Mampu berkomunikasi secara efektif dan bekerjasama dalam tim yang interdisiplin dan multidisiplin</p> <p>CPMK.8 Memiliki tanggung jawab dan etika profesi</p> <p>CPMK.9 Mampu memotivasi diri untuk berpikir kreatif dan belajar sepanjang hayat</p> <p><i>CLO.1 Understand economic terms and provide an understanding of the basic understanding and concepts of economics</i></p>
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	<p><i>CLO.2 Able to explain economic theory (micro and macro) verbally, graphically, and mathematically</i></p> <p><i>CLO.3 Able to apply economics to analyze data in their field of work with appropriate statistical methods</i></p> <p><i>CLO.4 Able to identify and formulate problems in their field of work into an economic model to solve problems</i></p> <p><i>CLO.6 Have knowledge of current and future issues related to the economic sector (micro and macro)</i></p> <p><i>CLO.7 Able to communicate effectively and work together in interdisciplinary and multidisciplinary teams</i></p> <p><i>CLO.8 Having professional responsibility and ethics</i></p> <p><i>CLO.9 Able to motivate yourself to think creatively and learn throughout life</i></p>
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Pertemuan <i>Meeting</i>	Kemampuan Akhir Sub CP-MK <i>Final Ability</i>	Keluasan (materi pembelajaran) <i>Extent (learning material)</i>	Metode Pembelajaran an <i>Learning methods</i>	Estimasi Waktu <i>Duration</i>	Bentuk Evaluasi <i>Evaluation Type</i>	Kriteria dan Indikator Penilaian <i>Assessment Criteria and Indicators</i>	Bobot Penilaian <i>Scoring</i>
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1	<p>1. Mampu memahami definisi dan ruang lingkup ekonometrika</p> <p><i>1. Able to understand the definition and scope of econometrics</i></p>	<p>Pendahuluan :</p> <p>1. Pengertian model dan model ekonometrika</p> <p>2. Definisi dan ruang lingkup ekonometrika</p> <p><i>Preliminary :</i></p> <p><i>1. Understanding model and econometric model</i></p> <p><i>2. Definition and scope of econometrics</i></p>	<p>Ceramah dan Diskusi,</p> <p><i>Lectures and Discussions,</i></p>	<p>150 menit</p> <p><i>150 minutes</i></p>	<p>Keberanian mengungkapkan pendapat / Diskusi</p> <p><i>Courage to express opinions / discussion</i></p>	<p>1. Dapat menjelaskan pengertian model dan model ekonometrika</p> <p>2. Dapat menjelaskan definisi Ekonometrika</p> <p>3. Dapat menjelaskan ruang lingkup ekonometrika</p> <p><i>1. Can explain definition of models and econometric models</i></p> <p><i>2. Can explain the definition of Econometrics</i></p> <p><i>3. Can explain the scope of econometrics</i></p>	<p>7%/7%</p>
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2-3	<p>2. Dapat memahami tahapan-tahapan dalam penelitian ekonometrika</p> <p><i>2. Can understand the stages in econometric research</i></p>	<p>Tahapan dalam metodologi penelitian ekonometrika</p> <ol style="list-style-type: none"> 1. spesifikasi model 2. estimasi model 3. evaluasi interpretasi terhadap model yang dihasilkan <p><i>The stages in the econometric research methodology</i></p> <ol style="list-style-type: none"> 1. model specifications 	<p>Ceramah Diskusi, latihan soal</p> <p><i>Lectures, Discussions, Exercise</i></p>	<p>300 menit</p> <p><i>300 minutes</i></p>	<ol style="list-style-type: none"> 1. Tugas berupa membuat model, serta evaluasi model 2. Mempres entasikan hasil laporan <p><i>1. The task is making a model, and evaluating the model</i></p>	<ol style="list-style-type: none"> 1. Dapat menjelaskan cara membuat spesifikasi model 2. Dapat menjelaskan cara melakukan estimasi model 3. Dapat menjelaskan cara melakukan evaluasi terhadap model yang dihasilkan 4. Dapat menjelaskan cara melakukan evaluasi terhadap daya peramalan model <p><i>1. Can explain how to create model specifications</i></p> <p><i>2. Can explain how to estimate the model</i></p>	13%/20%
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		<i>2. model estimation</i> <i>3. evaluation interpretation of the model</i>			<i>2. Present the results of the report</i>	<i>3. Can explain how to evaluate the final a model</i> <i>4. Can explain how to evaluate the model's forecasting power</i>	
4	3. Dapat menerapkan analisis regresi di bidang ekonomi <i>3. Can apply regression analysis in economics</i>	Analisis Regresi <i>Regression Analysis</i>	Ceramah Diskusi dan latihan soal, praktikum <i>Lectures, Discussions, Exercise, and practice</i>	150 menit <i>150 minutes</i>	Tugas berupa Latihan menyelesaikan soal secara individu <i>Exercises to solve problems individually</i>	1. Dapat menerapkan analisis regresi pada pemodelan ekonometrika 2. Dapat menjelaskan asumsi–asumsi yang harus dipenuhi <i>1. Can apply regression analysis to econometric modeling</i>	8%/28%

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						2. Can explain the assumptions that must be fulfilled	
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5	<p>4. Memahami pengertian, konsekuensi, mendeteksi serta mengatasi multikolinearitas</p> <p><i>4. Understand the definition, consequences, detect and overcome multicollinearity</i></p>	<p>Multikolinearitas</p> <p><i>Multicollinearity</i></p>	<p>Ceramah Diskusi, tes</p> <p><i>Lectures, Discussions, Test</i></p>	<p>150 menit</p> <p><i>150 minutes</i></p>	<p>Tugas berupa Latihan menyelesaikan soal secara individu</p> <p><i>Exercises to solve problems individually</i></p>	<p>1. Dapat menjelaskan pengertian multikolinearitas</p> <p>2. Dapat menjelaskan konsekuensi jika terdapat multikolinearitas</p> <p>3. Dapat mendeteksi adanya multikolinearitas</p> <p>4. Dapat mengatasi bila terjadi multikolinearitas</p> <p><i>1. Can explain the definition of multicollinearity</i></p> <p><i>2. Can explain the consequences of multicollinearity</i></p>	7%/35%
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						<i>3. Can detect multicollinearity</i> <i>4. Can overcome the multicollinearity</i>	
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6	<p>5. Memahami pengertian, konsekuensi, mendeteksi serta mengatasi heteroskedastisitas dan otokorelasi</p> <p><i>5. Understand the definition, consequences, detect and overcome heteroscedasticity and autocorrelation</i></p>	<p>Heteroskedastisitas dan otokorelasi</p> <p><i>heteroscedasticity and autocorrelation</i></p>	<p>Ceramah Diskusi, latihan soal</p> <p><i>Lectures, Discussions, Exercise</i></p>	<p>150 menit</p> <p><i>150 minutes</i></p>	<p>Tugas berupa Latihan menyelesaikan soal secara individu</p> <p><i>Assignments to solve problems individually</i></p>	<ol style="list-style-type: none"> 1. Dapat menjelaskan pengertian heteroskedastisitas dan otokorelasi 2. Dapat menjelaskan konsekuensi jika terdapat heteroskedastisitas dan otokorelasi 3. Dapat mendeteksi adanya heteroskedastisitas dan otokorelasi 4. Dapat mengatasi bila terjadi heteroskedastisitas dan otokorelasi 	7%/42%
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						<p><i>1. Can explain the definition of heteroscedasticity and autocorrelation</i></p> <p><i>2. Can explain the consequences of heteroscedasticity and autocorrelation</i></p> <p><i>3. Can detect heteroscedasticity and autocorrelation</i></p> <p><i>4. Can overcome heteroscedasticity and autocorrelation</i></p>	
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7	<p>6. Dapat membuat model-model lain dan melakukan evaluasi model</p> <p><i>6. Can create other models and evaluate models</i></p>	<p>Regresi non-linear dan Model-model lain</p> <p><i>Non Linear Regression and other models</i></p>	<p>Ceramah Diskusi dan latihan soal serta diskusi tugas</p> <p><i>Lectures, Discussions, Exercise</i></p>	<p>150 menit</p> <p><i>150 minutes</i></p>	<p>Dapat melakukan evaluasi model hasil tulisan orang lain</p> <p><i>Can evaluate the other people's models</i></p>	<p>1. Dapat membuat model regresi non-linear</p> <p>2. Dapat membuat regresi dengan variabel dummy</p> <p>3. Dapat membuat model regresi dengan variabel respon kualitatif</p> <p>4. Dapat melakukan evaluasi model hasil tulisan orang lain.</p> <p><i>1. Can create non-linear regression models</i></p> <p><i>2. Can create regression with dummy variables</i></p> <p><i>3. Can create a regression model with a qualitative response variable</i></p>	8%/50%
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						4. <i>Can evaluate the other people's models.</i>	
8	ETS						
9	<p>7. Dapat membuat model otoregresif dan model distribusi lag</p> <p><i>7. Can create autoregressive models and lag distribution models</i></p>	<p>Model dinamis</p> <p><i>Dynamic model</i></p>	<p>Ceramah Diskusi, latihan soal</p> <p><i>Lectures, Discussions, Exercise</i></p>	<p>150 menit</p> <p><i>150 minutes</i></p>	<p>Latihan menyelesaikan soal secara individu</p> <p><i>Exercises to solve problems individually</i></p>	<p>1. Dapat membuat dan mengerti interpretasi model distribusi lag</p> <p>2. Dapat membuat dan mengerti interpretasi model otoregresif</p> <p><i>1. Can create and understand the interpretation of the lag distribution model</i></p> <p><i>2. Can make and understand the interpretation of autoregressive models</i></p>	8%/58%

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10	<p>8. Dapat membuat model regresi dengan data panel</p> <p><i>8. Can create regression models with panel data</i></p>	<p>Model Regresi dengan data panel</p> <p><i>Regression Models with panel data</i></p>	<p>Ceramah Diskusi, latihan soal, tes</p> <p><i>Lectures, Discussions, Exercise , test</i></p>	<p>150 menit</p> <p><i>150 minutes</i></p>	<p>Latihan menyelesaikan soal secara individu</p> <p><i>Exercises to solve problems individually</i></p>	<p>1. Dapat memahami pengertian data panel</p> <p>2. Dapat melakukan estimasi model regresi dengan data panel dengan pendekatan efek tetap dan efek random</p> <p><i>1. Can understand the meaning of panel data</i></p> <p><i>2. Can estimate regression models with panel data with fixed effects and random effects approaches</i></p>	15%/73%
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11-14	<p>9. Mampu memodelkan fenomena ekonomi dengan menggunakan pendekatan sistem persamaan SUR dan Simultan</p> <p><i>9. Able to make a model from economic phenomena using the equation system SUR approach and Simultaneous</i></p>	<p>Sistem Persamaan (SUR dan Simultan)</p> <p><i>Equation system (SUR and Simultaneous)</i></p>	<p>Ceramah Diskusi, latihan soal,</p> <p><i>Lectures, Discussions, Exercise</i></p>	<p>600 menit</p> <p><i>150 minutes</i></p>	<p>Latihan menyelesaikan soal secara individu</p> <p><i>Exercises to solve problems individually</i></p>	<p>1. Dapat memodelkan fenomena ekonomi dengan pendekatan SUR</p> <p>2. Dapat memodelkan fenomena ekonmoi dengan pendekatan Sistem Persamaan Simultan</p> <p><i>1. Can make a model from economic phenomena with the SUR approach</i></p> <p><i>2. Can make a model from economic phenomena with the Simultaneous Equation System approach</i></p>	20%/93%
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15	<p>10. Studi kasus</p> <p><i>10. Case study</i></p>	<p>Studi kasus</p> <p>Diskusi tugas presentasi makalah</p> <p><i>Case study</i></p> <p><i>Discussion of assignments</i></p> <p><i>presentation assignments</i></p>			<p>1. membuat laporan secara kelompok.</p> <p>2. Mempresentasikan hasil laporan</p> <p><i>1. Make a report as a group.</i></p> <p><i>2. Present the results of the report</i></p>	<p>1. Dapat menerapkan ekonometrika pada kasus real dan mengkomunikasikannya baik secara lisan maupun tulisan.</p> <p><i>1. Can apply econometrics to real cases and communicate them both orally and in writing.</i></p>	7%/100%
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	Program Studi	Sarjana, Departemen Statistika, FSAD-ITS
	Mata Kuliah	Ekonometrika
	Kode Mata Kuliah	KS184720
	Semester/SKS	VII/2
	MK Prasyarat	Analisis Regresi, Pengantar Teori Ekonomi
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