FIŞA DISCIPLINEI

1. Date despre program

1.1 Instituţia de învăţământ superior	**Babeş-Bolyai University Cluj-Napoca**
1.2 Facultatea	**Faculty of Mathematics and Informatics**
1.3 Departamentul	**Mathematics**
1.4 Domeniul de studii	**Mathematics**
1.5 Ciclul de studii	**Master**
1.6 Programul de studiu / Calificarea	**Applied Mathematics**

2. Date despre disciplină

2.1 Denumirea disciplinei	**Econometry**						
2.2 Titularul activităţilor de curs	**CHIOREAN Ioana Rodica**						
2.3 Titularul activităţilor de seminar							
2.4 Anul de studiu	**2**	2.5 Semestrul	**4**	2.6. Tipul de evaluare	**exam**	2.7 Regimul disciplinei	Specialitate **optional**

3. Timpul total estimat (ore pe semestru al activităţilor didactice)

3.1 Număr de ore pe săptămână	4	Din care: 3.2 curs	2	3.3 seminar/proiect	1sem/1 project
3.4 Total ore din planul de învăţământ	56	Din care: 3.5 curs	28	3.6 seminar	14/ 14
Distribuţia fondului de timp:					ore
Studiul după manual, suport de curs, bibliografie şi notiţe					20
Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate şi pe teren					15
Pregătire seminarii/laboratoare, teme, referate, portofolii şi eseuri					10
Tutoriat					5
Examinări					10
Alte activităţi:					

3.7 Total ore studiu individual	60
3.8 Total ore pe semestru	110
3.9 Numărul de credite	**7**

4. Precondiţii (acolo unde este cazul)

4.1 de curriculum	• Analysis , Probabilities Statistics
4.2 de competenţe	• Abilities in Statistical calculus

5. Condiţii (acolo unde este cazul)

5.1 De desfăşurare a cursului	
5.2 De desfăşurare a seminarului/laboratorului	

6. Competenţele specifice acumulate

Competenţe profesionale	• Abilities in Mathematical Modelation of some real problems • Abilities in Statistical calculus
Competenţe transversale	• Understanding of Economical and Financial languages

7. Obiectivele disciplinei (reieşind din grila competenţelor acumulate)

7.1 Obiectivul general al disciplinei	• Getting aquainted with some basic notions of Economical quantitative analysis
7.2 Obiectivele specifice	• Getting aquainted with Mathematical and Economical languages

8. Conţinuturi

8.1 Curs	Metode de predare	Observaţii
1. Introduction in Econometry	Exposure, examples	
2. Econometry and its interdependences	Exposure, examples	
3. Econometry and Statistical methods	Exposure, examples	
4. Unisectorial econometric models	Exposure, examples	
5. Parameter estimation models for linear and nonlinear models	Exposure, examples	
6. Checking the results through statistical tests	Exposure, examples	
7. Economic variables and the assumptions of estimation method	Exposure, examples	
8. Residual variable and the assumptions of estimation method	Exposure, examples	
9. Qualitative variables in Economy	Exposure, examples	
10. Demand for goods and consumption function	Exposure, examples	
11. Production of goods and its functions	Exposure, examples	
12. The financial and banking relationships in econometric representations	Exposure, examples	
13. Labor resources and demographic representations	Exposure, examples	
14. Time series models	Exposure, examples	
Bibliografy 1. Blaga, P., Muresan,S.A., Lupas, A., Matematici financiare si actuariale, Ed.Constant,2001 2. Pecican.E., Econometrie, Ed.All, Bucuresti, 1994		
8.2 Seminar	Metode de predare	Observaţii

1. Understanding the connection between Mathematics and Economics	Dialog, discussions	
2. Econometric models with one equation	Dialog, discussions	
3. Parameter estimation for linear model	Dialog, discussions	
4. Parameter estimation for nonlinear model	Dialog, discussions	
5. Verifying the results by Statistical tests	Dialog, discussions	
6. Econometric variables and hypothesis of estimation method	Dialog, discussions	
7. Residual variable and hypothesis of estimation method	Dialog, discussions	

Bibliografy

1.Mihoc, Gh., s.a., Teoria matematica a operatiunilor financiare, Inst.de Statistica si actuariat, Bucuresti, 1959
2.Pecican.E., Econometrie, Ed.All, Bucuresti, 1994

8.3 Project	Metode de predare	Observaţii
1. Understanding the connection between Mathematics and Economics	Explanation, individual work	
2. Econometric models with one equation	Explanation, individual work	
3. Parameter estimation for linear model	Explanation, individual work	
4. Parameter estimation for nonlinear model	Explanation, individual work	
5. Verifying the results by Statistical tests	Explanation, individual work	
6. Econometric variables and hypothesis of estimation method	Explanation, individual work	
7. Residual variable and hypothesis of estimation method	Explanation, individual work	

Bibliografy

1.Mihoc, Gh., s.a., Teoria matematica a operatiunilor financiare, Inst.de Statistica si actuariat, Bucuresti, 1959
2.Pecican.E., Econometrie, Ed.All, Bucuresti, 1994

9. Coroborarea conţinuturilor disciplinei cu aşteptările reprezentanţilor comunităţii epistemice, asociaţiilor profesionale şi angajatori reprezentativi din domeniul aferent programului

- This program of Econometry covers basic knowledge needed in this area
- Meets national requirements, in concordance with the programs of other universities

10. Evaluation

Typ of activitaty	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Percentage in the final grade
10.4 Curse	1.Understanding the notions of Econometry	Written exam	70%
10.5 Seminar/project	Solving the specific problems of Econometry	Checking	30%
10.6 Standard of minimum performance			
• Making all projects (compulsory) and at least 5 grade in the written exam			

Data Signature of course holder Signature of seminar holder

1 mai 2015 conf.dr.Ioana Chiorean .conf.dr.Ioana Chiorean

Data avizării în departament Semnătura directorului de departament