

SUMMARY OF THE MODULE (DISCIPLINE)

1. Name of the module (discipline) "Econometrics"
2. A symbol (code) in curricula (B3.V7)
3. Direction (specialty) (OOP) 09.03.03 Applied informatics
4. A preparation profile (specialization, the program) Applied informatics in economy
5. Qualification (degree) bachelor
6. The providing division department of information systems YuTI TPU
7. Teacher Korchuganova M. A. ph. (38451) 77764 of E-mail of kormar@tpu.ru
9. Results of development of the module (discipline)

RD1. Use of skills of modern mathematical tools for the solution of economic tasks

RD2. To analyze interrelations of economic events and processes by means of theoretical and econometric models

RD3. Practical application modern software for econometric calculations of regression and correlation tasks, temporary ranks, trends

As a result of studying of discipline the student shall:

Nobility: bases of the mathematical analysis, linear algebra, probability theory and mathematical statistics necessary for the solution of economic tasks; methods of creation of econometric models of objects, phenomena and processes; bases of creation, calculation and the analysis of modern system of the indicators characterizing activities of accounting entities on micro and macrolevel.

To be able: to perform the choice of tools for handling of economic data according to an objective; to apply methods of the mathematical analysis and modeling, theoretical and pilot study to the solution of economic tasks; to analyze in interrelation economic events, processes and institutes on micro and macrolevel.

To own: modern technique of creation of econometric models; skills of use of modern mathematical tools for the solution of economic tasks; by methods and acceptances of the analysis of economic events and processes by means of standard theoretical and econometric models. 10. Maintenance of the module (discipline)

(list of the main subjects (sections)) Section 1. Standardization bases in the field of informatization. Organization of interaction inter-and intranet.

Section 2. World information networks.

Section 3. Principles of creation and software of the Internet servers.

Section 4. Communication and information exchange between systems.

10. Content of the module (discipline) (list of primary subjects (sections) Section

1. Pair regression and correlation

1.1 Economic system as object of management

1.2 Essence of the regression analysis. Model of pair linear regression

1.3 Quality check of the equation of regression

Section 2. Multiple regression

2.1 The generalized linear model of multiple regression

2.2. Inclusion and an exception of variables in models.

Section 3. Temporary ranks and concepts of statistics

Section 4. Systems of the simultaneous equations

11. Rate __ 4 _____ semester _____ 7 ____ quantity of the credits __ 2 ____

12. Prerekvizita: "Probability theory and mathematical statistics" (B2.B2),
"Operations research and optimization methods" B2.V1.

13. Korekvizita B3.V6 "Statistics".

14. Certification type (examination, offsetting) examination, 7th semester

Author Korchuganova M. A.