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Facultatea de
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Topics and bibliography for the contest – Professor, position 6, Department of Economics and business, Faculty of Economic Sciences, University of Oradea

Disciplines in the curricula: Economic statistics, Economic modelling, Economic statistics

Topics:

1. The parameters of the unidimensional distributions.
2. Parametrical and non-parametrical methods for the analysis of the correlation between statistical variables.
3. Time series – indicators, components, smoothing.
4. The statistical observation.
5. The statistical errors.
6. Statistical surveys.
7. The simple linear regression model.
8. Testing the econometrical modes.
9. Modelling economic processes through forecasting techniques – Brown model for exponential smoothing.
10. Modelling competitive situations. Decision making under risk and uncertainty.

References:

1. Andrei, T., Statistică şi Econometrie, Editura Economică, Bucureşti, 2004
2. Anghelache, C. Anghel, M. G, Iacob, S., Statistica teoretica si economica, Editura economica, Bucuresti, 2020
3. Anghelache, C., Anghel M. G., Statistica economica generala, Editura economica, Bucuresti, 2023
4. Greene, W. Econometric analysis, seventh edition, Pearson education ltd, Essex, 2012
5. Gollier, C. (ed.), The economics of risk and uncertainty, Edward Elgar Publishing, 2018.
6. Gutman, A. J., Goldmeier, J., Becoming a Data Head: How to Think, Speak, and Understand Data Science, Statistics, and Machine Learning. John Wiley and Sons Inc. 2021
7. Ratiu Suciu, Camelia, Luban Florica, Hincu, Daniela, Ciocoiu, Nadia, Modelare economica, Editura ASE, 2009
8. Simion, Dalia Mirela, Modelarea si simularea proceselor economice, Ed. Universitaria Craiova, 2003

9. Spiegelhalter, D., The art of statistics. How to learn from data. Penguin books, Pelikan Books series, London, 2020
10. Wheelan, C. Naked statistics. Stripping the dream from the data. W.W. Norton & Company, 2014.
11. Ruiz Estrada, Mario. (2011). Economic Modelling: Definition, Evaluation and Trends. Journal of Policy Modeling. 10.2139/ssrn.1930227.
12. Bojanc, Rok & Jerman, Borka. (2008). An economic modelling approach to information security risk management. International Journal of Information Management. 28. 413-422. 10.1016/j.ijinfomgt.2008.02.002.
13. Rishabh Shakya, Prashant Chauhan· (2019). Modelling of Risk Analysis in Production System, IOP Conference Series: Materials Science and Engineering, 691.IOP Publishing, 012087
14. Hansun, Seng. (2016). A New Approach of Brown's Double Exponential Smoothing Method in Time Series Analysis. Balkan Journal of Electrical and Computer Engineering. 4. 10.17694/bajece.14351.
15. Brown, R.G., Meyer, R.F., D"Esopo D.A. (1961). The fundamental theorem of exponential soothing. Operations Research, vol. 9, no. 5, pp 673 – 687.

Head of department
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