

The 3st International Statistics Olympiad
August 7-8, 2016
Statistics Coordinator:
Professor A. Parsian

**The Olympiad of Mathematics, Chemistry and Statistics is going to be held inin
Iran.**

Date	Subject	Time
Sunday August 7	Theoretical Statistics	8-12
Sunday August 7	Mathematics	14 -17
Monday August 8	Applied Statistics	8-12

Statistics Olympiad

Participants in Statistics Olympiad will sit for the exams on the following subjects:

- 1 – Mathematics:
 - a) Calculus,
 - b) Real Analysis,
 - c) Matrix Theory and Linear Algebra.

- 2 – Theoretical Statistical:
 - a) Probability and Distribution Theory,
 - b) Mathematical Statistics.

- 3 – Applied Statistics:
 - a) Regression Analysis,
 - b) Design of Experiment,
 - c) Multivariate Statistical Analysis (continuous & Discrete),
 - d) Time Series Analysis.

Statistics Olympiad Test References:

a) Mathematics:

- 1) Stewart, J. (2012), Calculus. 7th Ed, Brooks /Cole. Cengage Learning, Belmont, CA.
- 2) Rudin, W. (1976), Principles of Mathematical Analysis, 3rd Ed, McGraw-Hill Book Company, New York.
- 3) Graybill, F. A. (1983), Matrices with Application in Statistics, 2nd Ed, Wadsworth International Group, Belmont, CA.

b) Theoretical Statistics:

- 1) Ross, S. (2001), A first course in Probability, 8th Ed, Pearson Education Inc.
- 2) Rohatgi, V. K. and Saleh, A. K. Md. E. (2001), An Introduction to Probability and Statistics, 2ndEd, John Wiley & Sons Inc., New York.

c) Applied Statistics:

- 1) Montgomery, D. C., Peck, E. A. and Vining, G. G. (2001), Introduction to linear Regression Analysis, 3rd Ed, Wiley.
- 2) Montgomery, D.C. (2012), Design and Analysis of Experiment, 3rd Ed, Wiley.
- 3) Johnson, R. A. and Wichern, D. W.(2007), Applied Multivariate Statistical Analysis, 6th Ed, Prentice Hall.
- 4) Agrestic, A. (2007), Introduction to Categorical Data Analysis, 2nd Ed, Wiley.
- 5) Box, G. E. P., Jenkins, J. M. and Reinsel, G. C. (2008), Time Series Analysis: Forecasting and Control, 4th Ed, John Wiley & Sons.