



	<ul style="list-style-type: none"> <li>- frequency tables and graphs</li> <li>- statistical measures of central tendency, variability, asymmetry, inequality</li> <li>- simple and composite index numbers</li> <li>- multi-way tables; conditioned distributions and indexes</li> <li>b) Probability theory: discrete and continuous random variables</li> <li>c) Statistical inference <ul style="list-style-type: none"> <li>- point and interval estimation</li> <li>- tests of hypothesis</li> </ul> </li> <li>d) Bivariate and multivariate analysis <ul style="list-style-type: none"> <li>- Association and independence test</li> <li>- Mean dependence and ANOVA</li> <li>- Simple and multiple linear regression model</li> </ul> </li> </ul>	McCS 10 (no 10.5),12.1-12.4, 12.11-12.12
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## References

### **Computer science**

(F) Fox R., Information Technology: An Introduction for Today's Digital World (2nd ed.), Taylor&Francis, 2021. ISBN: 978-03-678-2021-3.

(DCBE) De Pra M., Clerici A., Ballerini M., Excel for students in economics and finance, Egea, 2020. ISBN: 978-88-238-2293-1.

Any updated textbook on introductory information technology includes the required topics. Online resources are available for example at [https://en.wikiversity.org/wiki/IT\\_Fundamentals](https://en.wikiversity.org/wiki/IT_Fundamentals)

Any updated textbook on advanced Excel includes the required subjects. Online resources are available for example at <https://en.wikiversity.org/wiki/IC3/Spreadsheets>

### **Mathematics**

(McCS) McClave J.T., Sincich T.T., Statistics (13th ed.), Pearson, 2017. ISBN: 978-01-34-08021-5.

(SB) Simon C., Blume L. Mathematics for Economists, W. W. Norton & Company, 2010. ISBN: 978-03-9311-752-3.

In case of unavailability of the mathematics textbooks listed above, you can refer to online resources, available for example at:

<https://www.my-mooc.com/en/categorie/calculus>

<https://openstax.org/details/books/calculus-volume-1>

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[https://math.libretexts.org/Courses/Monroe\\_Community\\_College/MTH\\_210\\_Calculus\\_I\\_\(Seeburger\)](https://math.libretexts.org/Courses/Monroe_Community_College/MTH_210_Calculus_I_(Seeburger))

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### **Statistics**

(CDM-E) Cicchitelli G., D'Urso P., Minozzo M., Statistics: principles and methods, Pearson, 2021. ISBN: 978-8891911032

In case of unavailability of the Statistics textbooks listed above, you can refer to online resources, available for example at:

<https://openstax.org/details/books/introductory-statistics>

[https://onlinestatbook.com/Online\\_Statistics\\_Education.pdf](https://onlinestatbook.com/Online_Statistics_Education.pdf)