UNIVERSITÀ DEGLI STUDI DI BARI ALDO MORO

dipartimento di farmacia-scienze del farmaco

General information		
Academic subject	*Medical Statistic*	
Degree course	*Pharmacy*	
Year of study	*1°*	
European Credit Transfer and Accumulation System (ECTS)		6
Language	*Italian*	
Academic Year	*2021/2022*	
Academic calendar (starting and ending date)	*Annual (November 21 – May 2022)*	
Attendance		

Professor/ Lecturer Course A-L	
Name and Surname	Pietro Iaquinta
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Telephone	+39 335304504
Department and address	*Bari*
Virtual headquarters	*Cosenza*
Tutoring (time and day)	1 houer after lection

Professor/ Lecturer Course M-Z	
Name and Surname	Idem A-L
E-mail	
Telephone	
Department and address	
Virtual headquarters	
Tutoring (time and day)	

Syllabus	
Learning Objectives	*Achieve an ability to interpret the main basic statistic indicators*
Course prerequisites	*High school math*
Contents	*Introduction to statistics. Collective phenomena. Data collection. The sample surveys. Statistical distributions. Statistical variable. Mutable statistic. Distribution functions. Statistical reports. Relative, percentage, cumulative, retrocumulated frequencies. Variation essays. Relations of composition and coexistence. Index numbers. Graphic representations* • *Average values. Power averages. Exponential averages. Loose averages. Properties of averages.* • *Variability. Concepts of dispersion and inequality. Variation range and inter-quartile difference. Scraps from the average. Deviance and variance. Simple mean difference and mean square difference. Relative variability. Maximum variability. Concentration ratio.* • *Shapes of frequency curves. Asymmetry and dysnormality. Empirical distributions and continuous curves. Normal curve. Chebiceff's inequality. Measurement of the degree of asymmetry. Measurement of dysnormality.* • *Analytical representation. Fixed ordinate method. Least squares method. Sum method. Determination of the degree of matching.* • *Relation between two statistical variables. Addiction analysis. Concept of dependence and independence. Dependence on average. Regression lines. Regression lines. Regression variance. Analysis of interdependence. Correlation coefficient. Spurious correlation. Co-graduation indices. Partial and multiple*

	regression and correlation.
Books and bibliography	Iaquinta P. Viola D., Esercizi di Statistica Descrittiva, L'arco e la corte, Bari, 2018
Additional materials	Exemple of web-site demo.istat.it www.istat.it www.tuttitalia.it

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
150	42	18	90
ECTS			
6			
Teaching strategy			
Expected learning outcomes			
Knowledge and understanding on:	o Statistical tools o Indicators construction o Graphic representations o Analytical representations o Basic statistical models		
Applying knowledge and understanding on:	o Statistical tools o Indicators construction o Graphic representations o Analytical representations o Basic statistical models		

Soft skills	• *Making informed judgments and choices*
	  o Interpretation of statistics results
	• *Communicating knowledge and understanding*
	  o Explanation and autonomous representation of statistical results
	• *Capacities to continue learning*
	  o Based statistical methods.		

Assessment and feedback	
Methods of assessment	
Evaluation criteria	• *Knowledge and understanding* • Statistical tools • Indicators construction • Graphic representations • Analytical representations • Basic statistical models • *Applying knowledge and understanding* • Statistical tools • Indicators construction • Graphic representations • Analytical representations • Basic statistical models

	Autonomy of judgment - Statistical tools - Indicators construction - Graphic representations - Analytical representations - Basic statistical models *Communicating knowledge and understanding* - Statistical tools - Indicators construction - Graphic representations - Analytical representations - Basic statistical models *Communication skills* - Explantion and autonomous representation of statistical result *Capacities to continue learning* - Basic statistical methods
Criteria for assessment and attribution of the final mark	*Direct evaluation by carrying out exercises and solving statistical problems*
Additional information	