

Course title	Introduction to Accounting and Biostatistics				
Course code	STAT108				
Course type	Theoretical				
Level	Diploma				
Year / Semester	1st Year / 2nd Semester				
Teacher's name	Dr. Kyriakou Sophia				
ECTS	4	Lectures / week	2	Laboratories / week	0
Course purpose and objectives	The objectives of the course "Introduction to Accounting and Biostatistics" are to introduce students to the basic principles of accounting, its use and its various applications whilst providing students with the fundamental principles and basic parameters of statistics. Furthermore, the course emphasise on the importance and application of the statistical processing of research results as well as the basic principles of Biostatistics, which are necessary for the study of health-related problems.				
Learning outcomes	<p>Upon the completion of the course, students are expected to:</p> <p>Knowledge</p> <ol style="list-style-type: none"> 1. Know the basic statistical tests (methods) for checking the statistical significance of research results and know the basic principles of their application. 2. Recognise the value and role of Biostatistics in research data analysis 3. Interpret the statistical results of a scientific analysis 4. Interpret financial statements with predetermined profit. <p>Skills</p> <ol style="list-style-type: none"> 5. Prepare financial statements with predetermined profit. 6. Apply accounting equity to accounting transactions. 7. Carry out commercial transactions, balance sheet preparation and opening accounting accounts 8. Perform accounting entries and calculate the cost of purchases. <p>Competences</p> <ol style="list-style-type: none"> 9. Manage and supervise procedures within the scope of the duties of their profession 				
Prerequisites	-	Required	-		
Course content	<p>Introduction to Accounting:</p> <ul style="list-style-type: none"> • Financial accounting, types of businesses, sole proprietorships, general partnerships, limited partnerships, limited liability companies. <ul style="list-style-type: none"> ▪ - LLC - S.A. companies 				

	<ul style="list-style-type: none"> Accounting control - accounting rules, limit conversions, measurement conversions, assets/ownership, resources and liabilities. Accounting reports, the concept of double bookkeeping, measurement and reporting of financial position, income-expense report Calculation of profit - loss, real example, balance sheet, the form of the balance sheet. <p>Introduction to Biostatistics</p> <ul style="list-style-type: none"> Basic concepts of statistics The role of statistics in life sciences – Basic concepts Statistical analysis option - Elements of medical research design. Population and sample - Sampling methods and sampling error - Types of variables. Collection and presentation of statistical material (tables, figures). The concept of probability. Contingencies, random variables, distributions and parameters. The main discrete/continuous one-dimensional distributions. Case checks, applications. Parametric and Non-parametric statistics (X² – goodness of fit, X² – Test of independence X² – Test of homogeneity – Applications). The SPSS statistical software package.
<p>Teaching methodology</p>	<p>Course instruction will be delivered with the use of: Power Point presentations, guided discussions with active student participation, individual and team work by students and the use of a variety of audio-visual media and other teaching tools as required to deliver each module. In addition, there will be case studies and teaching through role playing.</p>
<p>Bibliography</p>	<p>Greek Bibliography</p> <ul style="list-style-type: none"> Καλαμαράς, Νικόλαος Διον. (2013), Γενική λογιστική [<i>General Accounting</i>], Εκδόσεις Αθ. Σταμούλης, ISBN: 9789603519218. Λιάπης, Κ., Ι., και Φίλος, Γ. Λ. (2017). <i>Λογιστική και οικονομική των επιχειρήσεων : Accounting and Business Economics</i>. Μπένου Ε. ISBN 978-960-359-135-1. Παπαγεωργίου, Έ. (2017). <i>Βιοστατιστική και εφαρμογές [Biostatistics and applications]</i>, Εκδόσεις Νέων Τεχνολογιών, ISBN: 978-960-578-027-2. Petrie, A. (2016). <i>Ιατρική Στατιστική με μια ματιά [Medical Statistics at a Glance]</i>. Παρισιάνου Α.Ε., ISBN: 978-960-583-082-3. <p>English Bibliography</p> <ul style="list-style-type: none"> Daniel, W. W. (2019). <i>Biostatistics- A Foundation for Analysis in the Health Sciences</i>, Wiley. 978-1119588825 Astbury, S. (2016). <i>LCCI Bookkeeping and Accounting</i>. Volume I. Pearson. ISBN: 9781784476649 Robinson, S. (2016). <i>LCCI Bookkeeping</i>. Volume I. Pearson. ISBN: 9781784476632 Hannigan, S. (2016). <i>LCCI Accounting. Volume III</i>. Pearson. ISBN: 9781784491307
<p>Assessment</p>	<ul style="list-style-type: none"> Attendance and participation 10% Tests 20% Intermediary written examination 20% Final written examination 50%

	<p><i>Written examination has two parts that are examined as part of one exam paper. The first part includes closed-ended questions, such as multiple choice questions, true or false, matching exercises, complete the gaps exercises, etc. The first part is usually worth 40% - 50% of the total marks of the exam paper. The second part includes open-ended questions that are meant to assess the students' abilities to analyse, reflect, explain, recall etc. The second part is usually worth 50% - 60%. The total marks of the exam paper are 100.</i></p>
Language	Greek or English