

Field name	Description
University	"Constantin Brâncuși" University of Târgu -Jiu
Faculty	Faculty of Medical and Behaviour Sciences
Department	Health and Motricity
Faculty position	13
Rank	Associate professor
Disciplines	<ul style="list-style-type: none"> ➤ Elements of statistics applied in Physical education and sport ➤ Medical informatics. Biostatistics ➤ Mathematics and Medical Informatics ➤ Medical Statistics
Scientific field	CYBERNETICS AND STATISTICS
The description of the academic position	<p>Post Associate Professor position 13, Department "Health and Motricity"/ Faculty of Medical and Behavioral Sciences</p> <p>All the disciplines in the job structure are found in the curricula of the undergraduate study programs within the faculty.</p> <p>The position also includes, in addition to teaching activities and consultation activities in the disciplines included in the structure of the position put up for competition.</p> <p>Given the standards of the A.R.A.C.I.S. on the ratio of students / teachers, the achievement of the objectives of the development plan of the faculty, as well as the scientific value of the tenured teachers of the institution in the total number of teachers in the teaching staff positions, it is necessary to compete for the position of associate professor, position 13 .</p> <p>Also, the disciplines in the structure of the mentioned position are fundamental disciplines for the career training of future graduates of undergraduate and master's degree programs, this being another reason why it is necessary that the teaching and practical activities be carried out by a tenured teacher. of the institution, well prepared, both from the didactic point of view and of the scientific research.</p> <p>The position for the promotion exam in the teaching career is a tenure track position.</p>
Academic duties	<p>Didactic norm (job disciplines):</p> <p>Elements of statistics applied in PES- 2 hours of course; 2 hours of seminar.</p> <p>Medical informatics. Biostatistics - 1 hour of course; 4 hours of seminar.</p> <p>Mathematics and Medical Informatics - 2 hours of course; 1 hour of seminar.</p> <p>Medical Statistics - 1 hour course; 1 hour of seminar.</p> <p>Evaluation activities - 2 hours;</p> <p>Consultations - 2 hours;</p> <p>Guidance of undergraduate work - 0.5 hours.</p>

	Research activities - according to the Education Law no. 1/2011, with subsequent amendments and completions and the job description, which will be prepared as an annex to the employment contract.
Wage	6481 lei
Date of publishing the announcement in the official gazette	06.05.2021
Starting and final dates of the registration	06.05.2021– 05.09.2021
Date, day of week, time support of the lecture	21.09.2021, Tuesday, 8 o'clock.
Place supporting of the lecture	Faculty of Medical and Behaviour Sciences, no.4, Str. Tineretului, Târgu-Jiu
Date of exam results communication	21.09.2021
Starting and final dates for appealing the exam results	22.09.2021 – 24.09.2021
Theme samples contest	<p><i>Discipline:</i></p> <p>I. Elements of statistics applied in PES</p> <p>TOPICS</p> <ol style="list-style-type: none"> 1. <i>Methods. Results Presentation of results. Statistical processing of results. Interpretation of results.</i> 2. <i>Variational and covariate methods. ANOVA method.</i> 3. <i>Theoretical aspects of the practical statistical tool.</i> 4. <i>How statistical reasoning is practically applied.</i> 5. <i>Characterization of the results by the usual statistical parameters.</i> 6. <i>Statistical parameters of synthesis.</i> 7. <i>Checking the normality of data distribution.</i> 8. <i>Statistical parameters of analysis.</i> 9. <i>The "Chi square" test (χ^2). Student Test ("t")</i> 10. <i>Statistical correlation. Regression.</i> <p>BIBLIOGRAPHY</p> <ol style="list-style-type: none"> 1. <i>Gagea, A., Methodology of scientific research in physical education and sports, Publishing House of the "Romania of Tomorrow" Foundation, Bucharest, 1999.</i> 2. <i>Gagea, A., Computerized Statistics in Physical Education and Sports, Ecological Publishing House, Bucharest, 2000.</i> 3. <i>Howitt, D., Introduction to SPSS for psychology, Polirom Publishing House, 2006.</i> 4. <i>Raynald Levesque and SPSS Inc. - Programming and Data Management for SPSS 16.0, A Guide for SPSS and SAS® Users, 2008</i> <p><i>Discipline:</i></p> <p>II. Medical informatics. Biostatistics</p> <p>TOPIC</p> <ol style="list-style-type: none"> 1. <i>Informatics-generalities. Medical informatics. The objectives of medical informatics. Data, information, knowledge. The amount of information. Commonly used computer terms.</i> 2. <i>Data collection and processing. Collection mode, collection types (representative sample type, exposed-nonexposed type, case-control</i>

- type). Database management systems. Microsoft Access application.*
3. *Creating the structure of a database. Data collection and presentation: MS Access, MS Excel.*
 4. *Presentation of the first results. Analysis and interpretation of results. Elements of biostatistics.*
 5. *Elements of descriptive statistics. Discrete and continuous distributions. Binomial distribution. Normal distribution. Distributions χ^2 , Fisher, Student. Types of variables (qualitative, quantitative, survival). Random variables, mean and dispersion.*
 6. *Statistical methods used by types of clinical trials. Risk factors.*
 7. *Tests on binomial distribution, χ^2 test, RxC tables, homogeneity testing.*

BIBLIOGRAPHY

1. *Bland, M., An Introduction to Medical Statistics, Oxford, University Press, 2015, ISBN: 9780199589920.*
2. *Panaiteșcu, E., Linear regression models with applications in biostatistics, University of Bucharest Publishing House, 2007.*
3. *Vertan, C., Image Processing and Analysis ”, Ed. Printech, Bucharest, 1999, (http://alpha.imag.pub.ro/ro/cursuri/archive/carte_pai.pdf).*
4. *Vertan C., Ciuc, M., Fundamental techniques for image processing and analysis, Ed. MatrixROM, Bucharest, 2007.*
5. *Iliuta, L., Rac-Albu, M., Poenaru, E., Panaiteșcu, E., Medical informatics for students, “Carol Davila” University Publishing House, 2013.*
6. *Panaiteșcu, E., Iliuta, L., Rac-Albu, M., Poenaru, E., Biostatistics for students, “Carol Davila” University Publishing House, 2013.*
7. *Tigan, St., Achimas, A., Drugan, T., Course in Computer Science and Medical Statistics, Srima Publishing House, 2001.*

III. Mathematics and Medical Informatics

TOPIC

1. *Introductory notions about functions. Monotonous, even, odd, surjective, bijective functions. Module function, grade II function. Mathematical induction. Progress.*
2. *Strings. Limits of functions. Continuous functions. Derivable functions. Vertical and horizontal asymptotes.*
3. *Primitives. Differential equations. Hyperbole. Applications of elementary functions. Linear function. The affine function. Linear interpolation.*
4. *Polynomial functions. Polynomial interpolation. Radical function of order n. Rational functions. Simple and general homographic functions and their graphs.*
5. *Exponential functions. Exponential monomials. Logarithmic functions. Approximate calculation, generalities, rules. Graphic calculation, generalities.*
6. *Operating systems, their basic functions, basic elements, files, directories. Microsoft Windows. Operating elements in Windows. Windows Explorer.*
7. *Spreadsheet programs. MS Excel*

BIBLIOGRAPHY

1. *Năstășescu, C., Niță, C., Stănescu, I., Maths. Elements of higher algebra, 11th grade textbook, Didactic and Pedagogical Publishing House, Bucharest, 1993.*

	<ol style="list-style-type: none"> 2. <i>Velea, Șt., Nomographic calculation in medical and pharmaceutical practice, Medical Publishing House, Bucharest, 1966.</i> 3. <i>Vernic, C.V., Interpretive mathematics - course, Eurobit Publishing House, Timișoara, 2003.</i> 4. <i>Udriște, C., Tomuleanu V., Analytical Geometry, Textbook for the 11th grade, Didactic and Pedagogical Publishing House, Bucharest, 1985.</i> 5. <i>Aramă, O., Applications of mathematics in pharmacy and medicine I, Dacia Publishing House, Cluj-Napoca, 1987.</i> <p>IV. Medical Statistics TOPIC</p> <ol style="list-style-type: none"> 1. <i>Introduction to medical statistics: basic concepts of biostatistics, variables. Statistical parameters: Central trend indicators. Dispersion indicators.</i> 2. <i>Means of power: Moments. Centered moments. Asymmetry. The excess. Distributions: Distribution function. Usual distribution functions. Distribution function. Normalized Gaussian distribution.</i> 3. <i>Statistical estimation: Notion of estimator, estimation of the average population for large and small samples, estimation of percentages, estimation of differences, calculation of sample size. Statistical tests: statistically significant and insignificant differences.</i> 4. <i>Statistical hypotheses: zero hypothesis, alternative hypotheses, significance threshold, confidence level. Stages of applying the statistical test. Erori.</i> 5. <i>Characteristics of statistical tests: confidence level, test strength. Parametric and non-parametric tests. Classification of statistical tests.</i> 6. <i>Usual tests in statistics: t test, Mann-Whitney, ANOVA type, Fischer-Snedecor test, Pearson.</i> 7. <i>Correlation and regression: dependence relation, linear correlation. Significance of the correlation coefficient. Regression line.</i> <p>BIBLIOGRAPHY</p> <ol style="list-style-type: none"> 1. <i>Machinery, D., Campbell, M.J., Walters, S.J., Medical Statistics, Fourth Edition, John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex PO19 8SQ, England, 2007.</i> 2. <i>Drugan, T., Achimaș, A., Țigan, Ș., Biostatistics, SRIMA Cluj-Napoca, 2005.</i> 3. <i>Baccalaureate, V., Sabău, M., Mărușteri, M., Baccalaureate A., Methodology of medical scientific research, Univ. Press, Tg. Mureș, 2009.</i> <ol style="list-style-type: none"> 1. <i>Mărușteri, Șt.M., Fundamental notions of biostatistics: course notes, Târgu-Mureș: University Press, 2006.</i>
<p>Description of the competition procedure</p>	<p>The competition is conducted in accordance with the Competition Framework Methodology for filling vacant teaching and research positions in higher education approved by H.G. no. 457 competition from 04.05.2011, with subsequent amendments and completions, National Education Law no. 1/2011, as subsequently amended and supplemented, H.G. no. 883/2018 and the</p>

	<p>Methodology for filling teaching and research positions, approved in the meeting of the Senate of the “Constantin Brâncuși” University of Târgu-Jiu from 26.11.2020 and of the Specialized Commissions of the Senate of the “Constantin Brâncuși” University of Târgu-Jiu reunited in the meeting on of 13.11.2020.</p>
<p>Documents List</p>	<p>In order to enroll in the Competition for Employment of a Teaching Post, the candidate shall draw up a file containing the following documents:</p> <p>A1. The application for a competition, signed by the candidate, which includes a statement on its own responsibility for the veracity of the information presented in the file.</p> <p>A2. Proposal for the development of the candidate's career.</p> <p>I. Candidates for teaching positions will consider both the didactic side and the scientific research activities.</p> <p>The proposal is drafted by the candidate, comprises up to 10 pages and is one of the main criteria for the Candidates.</p> <p>A.3. Candidate's Curriculum Vitae, in original signed by the candidate on each page, which must include:</p> <ul style="list-style-type: none"> a) information about studies and diplomas obtained; b) information on professional experience and relevant jobs; c) information on the research and development projects that it has led as a project director or in which he has worked as a member, indicating for each source of funding; d) information about prizes or other elements of recognition of the candidate's scientific contributions; e) other relevant information. <p>A4. The list of works of the candidate in printed format (in original, signed on each page) that will be structured as follows:</p> <p>I. For didactic posts:</p> <ul style="list-style-type: none"> a) the list of the maximum 10 works considered as a candidate to be the most relevant for their own professional achievements, which are also included in the dossier and can be found in the other categories of papers provided for in this Article; b) thesis or doctoral thesis; c) books and chapters in books; d) articles / studies, published in magazines from the main international scientific flow; e) publications in extenso, appeared in the works of the main international conferences; f) contract / development-innovation projects based on a contract / grant that it has led as a project director or in which he worked as a member, indicating for each source of funding; g) patents and other industrial property titles; h) other scientific works and contributions or, as the case may be, in the field of artistic creation / sports performance. <p>A5. Verification Sheet of the Post-specific standards, completed and signed by the candidate, in printed format (in original, signed on each page).</p>

Verification sheets for associate professor / scientific researcher and university professor / scientific researcher and, are drawn up by each candidate according to the standards provided for in the Minister's Order according to art. 219 paragraph (1), lit. a), from Law no. 1/2011 - National Education Act, as subsequently amended and supplemented for each area, plus the additional standards established by the Council of each faculty.

A6. Documents regarding the holding of the doctor's diploma.

a) for all teaching and research posts, except for the research assistant for an indefinite period: the legalized copy of the doctor's diploma and, if the original doctor's diploma is not recognized in Romania, the certificate of recognition or equivalence of It, in a certified copy, or copy after the Minister Order confirming the granting of the doctor.

A7. Summary of the doctoral thesis in Romanian and in an international language (maximum one page for each language).

A8. Other diplomas attesting candidate studies:

a) For all teaching positions: copies of other diplomas attesting candidate studies (baccalaureate diploma, license, master / in-depth studies, certificate attesting psycho-pedagogical training) or, if the original diplomas are not recognized in Romania, the certificates of recognition or their equivalence; Children after other diplomas attesting candidate studies. Copies are signed by Candidate for Certification, "according to the original";

A9. Matriced sheets, diploma supplements or school situations issued for each study cycle;

A10. Copy of identity card;

A11. Copies of documents attesting the change of name, if applicable (marriage certificate or proof of the change of name);

A12. Declaration on the candidate's own responsibility that he is not in any incompatibility situation provided for in Law 1/2011, the National Education Law, with subsequent amendments and completions and the framework methodology issued at national level;

A13. Medical certificate showing that it is able to carry out didactic activity;

A14. List of referrals with their contact details:

a) for university lecturer or scientific researcher grade II:

- at least 3 names and contact addresses of certain personalities in the field, from the country or abroad, external to the higher education institution whose post is removed in the contest, which have agreed to draw up recommendation letters regarding the candidate's professional qualities;

b). For university professor posts or scientific researcher Grade I:

- at least 3 names and contact addresses of certain personalities from the field abroad, from higher education institutions and who have agreed to draw letters of recommendation regarding the candidate's professional qualities.

A15. -

	<p>A16.The account of the assumption of liability, in the original (UNOGRAF) signed by the candidate, for all competition positions: the statement must state the correctness of the files in the file and the fact that they refer to their own activities and achievements, otherwise the candidate to support the consequences of statements in false, in accordance with the legislation in force.</p> <p>A17.The folder comprising a maximum of ten of the works considered the most significant of candidate, in scanned electronic form (CD / DVD), and books and chapters from books will be physically deposited. In addition, the electronic support will also include the list of working of CF candidate A.4 in Word format.</p> <p>A18.Document of payment of the enrollment fee; The folder will include a cover page and a schedule page. At the contest file, a CD / DVD or other electronic format is attached, with its entire scanned content, including the folder with the 10 significant papers, for the purpose of transmitting to the competition commission.</p>
Address where the competition file will be sent	„Constantin Brâncuși” University of Târgu-Jiu, no. 36, Unirii Street, Târgu-Jiu, Gorj
Commission	The examination commission is made up of 5 members, including its president, specialists in the field of the position or in related fields. The examination commission includes at least 2 alternate members. The appeals commission is established through the same procedure as in the case of the examination commission.
Methodology	Upload files with doc, docx or PDF extension. The maximum supported file size is 10MB.

Dean,

Professor PhD. Monica Delia Bică

Head of department,

Lecturer PhD. Daniel Iacob Chivu