



MINISTERUL EDUCAȚIEI

UNIVERSITATEA MARITIMĂ DIN CONSTANȚA

CONSTANȚA, str. Mircea cel Bătrân, nr. 104, ROMÂNIA, 900663

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E-mail: info@cmu-edu.eu Web: www.cmu-edu.eu

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**Information regarding the organization of the competition for the position of
University Professor
Department of Navigation, Position 27
Faculty of Navigation and Naval Transport
Maritime University of Constanta**

a.) Description of position

The position occupies the 27th position in the position of the Department of Navigation, within the Faculty of Navigation and Naval Transport of the Maritime University of Constanta.

Disciplines

- E-Shipping
- Information systems in logistics
- Cyber Security Fundamentals
- Mobile device cybersecurity and IoT risks

b.) Tasks / Activities associated with the role

Teaching load

No.	Type of activity	No. of conventional hours
1.	Teaching activities	6 hours /week
2.	Seminar activities, laboratory for guiding projects for the year;	5 hours /week
3.	Guidance for the elaboration of Bachelor Thesis	4 hours /week
4.	Master's Dissertation elaboration guidance	2 hours /week
5.	Guidance for the elaboration of PhD theses	—
6.	Other didactic, practical and research activities included in the curricula	2 hours /week
7.	Management of didactic-artistic or sports activities	—
8.	Assessment activities	2 hours /week
9.	Tutoring, consultations, guidance of student circles, students within the transferable credit system	2 hours /week
10.	Participation in councils and commissions in the interest of education	2 hours /week
11.	Self-study	5 hours /week



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Research norm

No.	Type of activity	No. of conventional hours
1.	Research Activities	10 hours/week

c.) Minimum wage

Professor

Item No.	Function*)	Level of education	Length of service in education	Basic salary	Grid 01.06.2023					
				-Lei-	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	
				Grade 0						
			01.06.2023							
1	Professor	S	over 25 years old	12,180	13,094	13,749	14,437	14,798	15,168	
		S	20-25 years	10,425	11,207	11,768	12,357	12,666	12,983	
		S	15-20 years	8,550	9,192	9,652	10,135	10,389	10,649	
		S	10-15 years	7,250	7,794	8,184	8,594	8,809	9,030	
		S	5-10 years	6,925	7,445	7,818	8,209	8,415	8,626	

d.) Contest's calendar

- The registration period will last 45 days after the publication of the post in the Official Gazette no. 438 / 29.11.2023 (November 29, 2023 – January 12, 2024)
- The competition for the teaching position will take place no later than 45 days after the registration period (January 29 – February 5, 2024)
- The time and place of the mandatory competition test represented by the public lecture will be announced on the competition website at least **5 working days** before the test.

e.) Contest theme

• E-Shipping

No.	Content
1.	Evolution and development of electronic systems in the business environment. Systems integration concepts in transport. Evolutionary models and integration of capabilities.
2.	Information systems used in business. The transition from classical systems with a supporting role to integrated systems. Decision-making systems in transport. Digital transformation.
3.	Virtualization of economic activities in the field of transport. Stages of transition. Methods of virtualization of the natural business environment.
4.	E-goverment systems. Digitalisation of decision-making systems. Embedded systems, blockchain, and AI support.
5.	Design of integrated systems in transport. Development of functional concepts. Virtual worlds. Virtual business and intangible market elements.
6.	Business in the virtual environment. Extended boundaries and social impact. Designing a virtual transport business.
7.	Development of contactless interaction systems, cryptocurrencies and AI support. The limits of incorporeality in human society.



Bibliography

No.	Authors	Title
1.	Garson, D.G.	Public Information Technology and E-Governance. Sudbury, MA: Jones and Bartlett Publishers
2.	Transportation Research	Digital transport platforms: reality and prospects
3.	Rossel, Pierre, and Matthias Finger.	Conceptualizing e-Governance
4.	Deloitte, CISCO	Digital transport reference model. Taking an outside-in approach that starts at the edge
5.	Miller, W&Walling, J.	Government in the twenty-first century: New Avenues of Study, Taking Sides. New York, NY: McGraw Hill
6.	Bertot, Jaegar	Citizen Centered E-Government Services: Benefits, Costs, and Research Needs
7.	Fang, Zhiyuan	E-government in Digital Era: Concept, Development, and Practice
8.	Bloomberg, Jason	Digitization, Digitalization, And Digital Transformation: Confuse Them At Your Peril
9.	Antonio Loffredo, Marco Tufo	Digital work in the transport sector: in search of the employer
10.	Varian, Hal R.	Computer Mediated Transactions, American Economic Review. 100 (2): 1–10.
11.	World Economic Forum	The dark side of the digital revolution – and how to fix it,
12.	Heinbach, C., Beinke, J., et. all	Data-driven forwarding: a typology of digital platforms for freight transport management
13.	Schmarzo, B.	What is Digital Transformation

• Information systems in logistics

No.	Content
1.	Heterogeneous computer systems. Distributed information systems applications.
2.	Advanced operation within the supply chain. Operational variants within the logistics chain.
3.	Autonomous systems operating within the supply chain. Autonomous operation in industry and supply chains.
4.	Integration of information systems as subsystems within the logistics chain. Integration of heterogeneous systems.
5.	The concept of system of systems, advantages, vulnerabilities. Interconnections and dependencies in system of systems.
6.	Operationalization of information systems in logistics. Stages of operationalization of logistics systems in transport.
7.	Cybersecurity of IT systems in transport. Elements of cyber security and resilience in logistics

Bibliography

No.	Authors	Title
1.	Waters D.	Logistics: An Introduction to Supply Chain Management, Palgrave Macmillan
2.	Anderson, Ross	Security engineering : a guide to building dependable distributed systems (Third ed.). Indianapolis, IN. ISBN 978-1-119-64281-7. OCLC 1224516855
3.	John T. Phelan, Jr. P.E.	Supply & Demand Chain Executive. Enom, Inc. Lambert D., Stock J., Ellram L., Fundamentals of Logistics, McGraw-Hill
4.	Security Week	Knowing Value of Data Assets is Crucial to Cybersecurity Risk Management
5.	Verizon	Verizon Data Breach Investigations Reports
6.	IBM	Cyber Security Intelligence Index



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• **Cyber Security Fundaments**

Nr.	Conținut
1.	General information security concepts.
2.	Information security in heterogeneous environments
3.	Resilient network architectures Resilience of data networks
4.	Network environments
5.	Wireless networks and security models
6.	Internet network architecture
7.	Distributed systems and general security concepts
8.	Security of isolated systems
9.	General cryptography
10.	Vulnerabilities. Identifying them
11.	Pentesting.
12.	Cyber security incident response
13.	Risk management.
14.	Policies and standards

Bibliography

Nr.	Autori	Titlu
1.	Dinu S., Raicu G., Zăgan, R.	Metode moderne de analiză multicriterială în managementul securității cibernetice, Ed Nautica, Constanța, 314 pagini, format A4, ISBN 978-606-681-178-1, 2023
2.		Information Security Management System, ISO 27001.
3.		Risk Management Guide for Information Technology Systems, NIST SP 800-30.
4.	Schatz, Daniel; Bashroush, Rabih; Wall	"Towards a More Representative Definition of Cyber Security". Journal of Digital Forensics, Security and Law. 12 (2). ISSN 1558-7215, , Julie (2017).
5.		"Reliance spells end of road for ICT amateurs", 7 May 2013, The Australian
6.	Stevens, Tim (2018-06-11).	"Global Cybersecurity: New Directions in Theory and Methods". Politics and Governance. 6 (2): 1–4. doi:10.17645/pag.v6i2.1569
7.		"Computer Security and Mobile Security Challenges". researchgate.net. 3 December 2015. Archived from the original on 12 October 2016. Retrieved 4 August 2016
8.	Brandt, Jaclyn (2018-06-18).	"D.C. distributed energy proposal draws concerns of increased cybersecurity risks". Daily Energy Insider. Retrieved 2018-07-04.

• **Mobile device cybersecurity and IoT risks**

No.	Content
1.	IoT operating principles. Platforms and architectures. IoT architectures compared functionalities.
2.	IoT-related cybersecurity risks. OS-related versus architectural risks.
3.	Security of programming techniques.
4.	Long-term configuration and protection for IoT. IoT configuration in local and extended networks.
5.	Advanced integration of IoT devices into large-scale systems – distributed vulnerabilities. Multiplatform systems integration.
6.	Risks of operating heterogeneous platforms. IoT/OT operation in heterogeneous environments.
7.	IoT design. The concept of "secure by design". General OT/IoT security concepts.



Bibliography

No.	Authors	Title
1.	Haney, M., Zhu, Q., Ray, J.	Industrial Control Systems Security and Resiliency
2.	Boyle, Randall; Panko, Raymond	Corporate Computer Security
3.	Knapp Eric D.	Industrial Network Security: Securing Critical Infrastructure Networks for Smart Grid, Scada, and Other Industrial Control Systems
4.	Colbert, E., Kott, A.	Cyber-Security of Scada and Other Industrial Control Systems
5.	Midford, P.	Cybersecurity for Industrial Control Systems
6.	Ackerman, P.	Industrial Cybersecurity
7.	Altaaihan, E.	Cybersecurity Threats, Countermeasures and Mitigation Techniques on the IoT: Future Research Directions
8.	Mattord, W.	Management of Information Security
9.	Salayma, M.	Risk and Threat Mitigation Techniques in Internet of Things (IoT) Environments
10.	EC Council	IoT Security: Safeguarding Critical Networks Against Digital Assaults

f.) Description of the competition procedure

In order to register for the competition for a teaching and research position, the candidate draws up a file containing, at least, the following documents:

a) application for registration in the contest, signed by the candidate, which includes a declaration on own responsibility regarding the veracity of the information presented in the file;

b) a proposal for the development of the candidate's academic career both from the didactic point of view, in the case of teaching positions, and from the point of view of scientific research activities; The proposal is drafted by the candidate, comprises a maximum of 10 pages and is one of the main criteria for distinguishing candidates.

c) curriculum vitae of the candidate in printed and electronic format;

d) list of works of the candidate in printed and electronic format;

e) the verification sheet of the fulfillment of the university's standards for submission to the competition completed and signed by the candidate;

f) documents regarding the possession of the doctoral diploma: certified copy of the doctoral diploma and, if the original doctoral diploma is not recognized in Romania, the certificate of its recognition or equivalence;

g) summary, in Romanian language and in a language of international circulation, of the doctoral thesis or, as the case may be, of the habilitation thesis, on maximum one page for each language;

h) declaration on the candidate's own responsibility indicating the situations of incompatibility provided by Law no. 1/2011 in which they would find themselves in case of winning the contest or the absence of these situations of incompatibility;

i) copies of other diplomas attesting to the candidate's studies;

j) copy of the identity card or, if the candidate does not have an identity card, of the passport or other identity document drawn up for a purpose equivalent to the identity card or passport;

k) if the candidate has changed his/her name, copies of documents certifying the change of name - marriage certificate or proof of name change;

l) maximum 10 publications, patents or other works of the candidate, in electronic format, selected by him and considered to be the most relevant for his own professional achievements;

m) If the candidate has changed his name, copies of documents attesting to the name change - marriage certificate or proof of name change;

n) Maximum 10 publications, patents or other works of the candidate, in electronic format, selected by him and considered to be the most relevant for his own professional achievements; if one or more publications are not available in electronic format, the candidate will submit a copy of the



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book/monograph of which he is the author, the website of the conference where the paper was presented, ISSN, Proceeding, etc., or copies scanned in pdf format;

o) at least three letters of recommendation on the candidate's professional qualities, written by personalities in the fields of the job's disciplines, from education and research institutions in the country or abroad, including their contact address.

Once submitted by the candidate, the file cannot be subject to additions, modifications or corrections.

The candidate's curriculum vitae must include:

- a) information about the studies completed and the diplomas obtained;
- b) information about professional experience and relevant jobs;
- c) information about the research and development projects he has led as project manager and the grants obtained, if any, indicating for each source of funding, the amount of funding and the main publications or patents resulted;
- d) information about prizes or other elements of recognition of the candidate's scientific contributions.

The complete list of works of the candidate will be structured as follows:

- a) the list of maximum 10 works considered by the candidate to be the most relevant for his/her own professional achievements, which are included in electronic format in the file and which may also be found in the other categories of works provided by this article;
- b) doctoral thesis or theses;
- c) patents and other industrial property titles;
- d) books and chapters in books;
- e) articles/studies in extenso, published in journals from the main international scientific stream;
- f) publications in extenso, published in papers of the main international specialized conferences;
- g) other scientific works and contributions or, as the case may be, in the field of artistic creation

The candidate's professional skills are evaluated by the competition committee based on the competition file and, additionally, through one or more competition tests, including lectures, courses or the like, according to its own methodology. For all positions for an indefinite period, at least one competition test is mandatory represented by a public lecture of at least 45 minutes in which the candidate presents the most significant previous professional results and the university career development plan. This test must also include a question session from the committee and the public. The University announces on the website of the competition the day, time and place of this test, at least 5 working days before the test.

Stages of the competition:

Stage I - the assessment of the candidate's application file (evaluation of the documents in accordance with Methodology for occupying vacant didactic and research positions.

Stage II - Holding a public lecture of minimum 45 minutes where the candidate has to deliver in at least 45 minutes a presentation of his/her most significant professional results as well as plans for the development of his /her academic/scientific career.

g.) Full list of documents that candidates must include in the competition file

a) application for registration in the contest, signed by the candidate, which includes a declaration on own responsibility regarding the veracity of the information presented in the file;

b) a proposal for the development of the candidate's academic career from the didactic point of view and scientific research activities; The proposal is drafted by the candidate, comprises a maximum of 10 pages and is one of the main criteria for distinguishing candidates.

c) curriculum vitae of the candidate in printed and electronic format;



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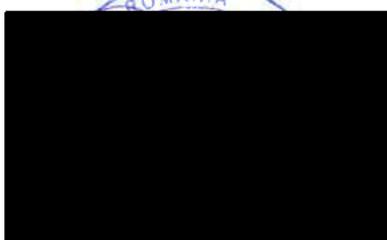


- d) list of works of the candidate in printed and electronic format;
- e) the verification sheet of the fulfillment of the university's standards for submission to the competition completed and signed by the candidate;
- f) documents regarding the possession of the doctoral diploma: certified copy of the doctoral diploma and, if the original doctoral diploma is not recognized in Romania, the certificate of its recognition or equivalence;
- g) summary, in Romanian language and in a language of international circulation, of the doctoral thesis or, as the case may be, of the habilitation thesis, on maximum one page for each language;
- h) declaration on the candidate's own responsibility indicating the situations of incompatibility provided by Law no. 1/2011 in which they would find themselves in case of winning the contest or the absence of these situations of incompatibility;
- i) copies of other diplomas attesting to the candidate's studies;
- j) copy of the identity card or, if the candidate does not have an identity card, of the passport or other identity document drawn up for a purpose equivalent to the identity card or passport;
- k) if the candidate has changed his/her name, copies of documents certifying the change of name - marriage certificate or proof of name change;
- l) maximum 10 publications, patents or other works of the candidate, in electronic format, selected by him and considered to be the most relevant for his own professional achievements.
- m) other documents attesting relevant academic competences required for the academic title of university professor (eg habilitation, etc.)

h.) The address to which the competition file must be sent – the one on the header.

DEAN:

Conf.univ.dr.ing. Nicoleta ACOMI



HEAD OF DEPARTMENT:

Assoc. Prof. Anastasia Dușe, PhD

