



MINISTERUL EDUCAȚIEI  
**UNIVERSITATEA MARITIMĂ DIN CONSTANȚA**

CONSTANȚA, str. Mircea cel Bătrân, nr. 104, ROMÂNIA, 900663  
Tel: +40 241 664740, Fax: +40 241 617260,  
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**Information regarding the organization of the competition for the position of  
University Professor  
Department of Navigation, Position 25  
Faculty of Navigation and Naval Transport  
Constanta Maritime University**

**a.) Description of position**

The position occupies the 25th position in the position of the Department of Navigation, within the Faculty of Navigation and Naval Transport of the Maritime University of Constanta.

*Academic Subjects in the curricula:*

- Modern Systems for Navigation – ECDIS
- Dynamic positioning
- Project Management
- ECDIS

**b) Tasks / Activities associated with the role**

*Teaching Load: Related duties /activities*

Nr.	Type of Activity	Nr.of conventional hours
1.	Teaching Activities	6 h /week
2.	Supervision of Seminar, Labs, and Projects	5 h /week
3.	Guidance for the elaboration of the Bachelor thesis	4 h /week
4.	Guidance for the elaboration of the Master thesis	2 h /week
5.	Guidance for the elaboration of PhD thesis	—
6.	Research and Scholarly Activities enlisted in the Curricula	2 h /week
7.	Management of educational-artistic or sports activities	—
8.	Assessment Activities	2 h /week
9.	Tutoring, counseling, guidance of students' scientific groups, of students within the European Credit Transfer and Accumulation System	2 h/week
10.	Participation in councils and commissions in the interest of education, including admission and completion of studies committees	2 h/week
11.	Self-Study	5 h /week



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**Research Load**

Nr.	Type of Activity	Nr. ore conventional e
1.	Research Activities	10 h /week

**c.) Minimum wage for classification**

**Professor**

No.	Position*)	Study level	Years of academic experience	Base wase - lei -	Wage Grid for teaching didactic personnel <b>01.06.2023</b>				
					Gradation 0	Gradation 1	Gradation 2	Gradation 3	Gradation 4
1	Professor	S	peste 25 de ani	<b>14,038</b>	15,091	15,846	16,639	17,055	17,482
		S	20-25 de ani	<b>12,115</b>	13,024	13,676	12,357	14,719	15,087
		S	15-20 de ani	<b>10,175</b>	10,939	11,486	10,135	12,363	12,673
		S	10-15 ani	<b>8,650</b>	9,299	9,764	8,594	10,510	10,773
		S	5-10 ani	<b>8,300</b>	8,923	9,370	8,209	10,085	10,338

**d.) Calendar of the job application contest**

- The Application period will run 45 days after the Announcement publication date in the Official Monitor No. 395/28.11.2024, Part III (November 28<sup>th</sup> 2024 to January 13<sup>th</sup> 2025)
- The contest takes place in no more than 45 days after the application period. (from January 29<sup>th</sup> 2024 to February 2<sup>nd</sup> 2025).
- The Higher Education Institution announces on its website the contest date, time and place at least **5 working days** before the test

**e). Detailed syllabus and tutorial**

**Modern Systems for Navigation – ECDIS**

Nr.	Content
1	Modern navigation systems. ECDIS performance standards. Back-up system
2	Basic navigation functions. How to display information on the display
3	Electronic charts. The status of each chart. How to distribute navigation charts
4	Presentation of ECDIS data. Selecting a suitable chart area and display category. Auto Submission Rules
5	Route planning and editing: graphic and numerical
6	Use of the great circle during the crossing. Checking the created route
7	Automatic monitoring. Setting safety parameters
8	ECDIS interconnection with other navigation equipment
9	Using the radar overlay function
10	Updating and managing charts. Production and distribution of updates. Update methods – manual, semi-automatic and automatic

**References**

No.	Title
1	Norris, A. 2010. ECDIS and Positioning, London: The Nautical Institute
2	North of England P&I Association, 2011. ECDIS: the risk of over-reliance, UK: North



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	of England P&I Association.
3	Weintrit, A. Operational considerations for Electronic Chart Display and Information System,
4	Weintrit, A. 2008. Operational Requirements for Electronic Chart Display and Information Systems (ECDIS). Procedural and Organizational Considerations
5	Journal Transport Problems, 3(2). Weintrit, A. 2009. The Electronic Chart Display and Information System (ECDIS).
6	ECDIS Passage Planning, Witherby Publishing house (eBook), ISBN: ISBN 13: 978-1-85609-670-6, ISBN 10: 1-85609-670-X
7	ECDIS PROCEDURES GUIDE, Witherby Publishing house (eBook), ISBN: ISBN 13: 978-1-85609-535-8, ISBN 10: 1-85609-535-5
8	Gale, H. 2009. From Paper Charts to ECDIS – a practical voyage plan, London, The Nautical Institute.
9	IMO Model Course 1.27, 2012. The Manila Amendments to the STCW Convention and Code, London: International Maritime Organization

### Dynamic positioning

Nr.	Content
1	Principles of dynamic positioning DP
2	Workside Approach
3	DP control systems and redundancy arrangements
4	Thrusters and propulsion systems
5	UTM coordinate system
6	Environment, heading and motion reference systems <ul style="list-style-type: none"> <li>• Laser positioning system, Microwave position reference systems.</li> <li>• Taut Wire PRS</li> <li>• Hydro-acoustic position reference system</li> </ul>
7	Follow target, diving and ROV operations
8	Pipe-lying, trenching, rock dumping and dredging

### References

No.	Title
1	Rules for classification of ships, det norske veritas, newbuildings special equipment and systems additional class, part 6 chapter 7, dynamic positioning systems. January 2011.
2	Karl-Petter W. Lindegaard, Acceleration Feedback in Dynamic Positioning, PhD Dissertation, Report 2003:4-W, Department of Engineering Cybernetics, Norwegian University of Science and Technology, NO-7491 Trondheim, NORWAY, September 2003
3	DP Operations Guidance – Marine Technology Society – 2010
4	Dynamic Positioning Advanced (Simulator) Course Operator Manual – The Dynamic Positioning Centre – 2009
5	Dynamic Positioning Systems – Operation Guidance - Recommended Practice DNV-RP-E307 – Det Norske Veritas – 2011
6	Guidelines for developing and conducting annual DP trials programmes for DP vessels (IMCA M 190) – IMCA – 2011
7	Guidelines for Vessels with Dynamic Positioning Systems (IMO MSC/Circ. 645) – IMO – 1994
8	Rules for Classification and Construction – Ship Technology – Seagoing Ships – Dynamic Positioning Systems - Germanischer Lloyd - 2010

### Managementul proiectelor



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Nr.	Content
1	Structural organization of project management (pyramidal and matrix) <ul style="list-style-type: none"> <li>The advantages and disadvantages of each</li> <li>The role of the Project Manager</li> <li>The influence of the organization's culture and the life cycle of projects.</li> <li>Project phases and their interaction. Integrated project management</li> </ul>
2	Use of project planning tools. <ul style="list-style-type: none"> <li>Gantt diagram method;</li> <li>PERT (Program Evaluation and Review Technique) method;</li> <li>CPM method (Critical Path Method);</li> <li>Logical Framework method.</li> </ul>
3	Resource management for project implementation. <ul style="list-style-type: none"> <li>Success criteria related to the development of the project: compliance with time limits; respecting the budget; efficient exploitation of all other resources (people, information, equipment, premises); the perception created around the project.</li> <li>Project control and monitoring.</li> <li>Resource optimization techniques.</li> </ul>
4	Financial management. <ul style="list-style-type: none"> <li>Time planning of expenses and income; establishing solutions to avoid potential financial crises; approval by the company;</li> <li>Establishing procedures for permanent supervision during the implementation, of expenses compared to the budget.</li> </ul>
5	Project quality management. <ul style="list-style-type: none"> <li>Planning, tracking and controlling.</li> <li>The quality plan of the project.</li> <li>Audit elements.</li> </ul>
6	Risk management. <ul style="list-style-type: none"> <li>Types of strategies suitable for responding to risks.</li> <li>Effective methods for identifying and prioritizing risks</li> </ul>
7	Communication management. <ul style="list-style-type: none"> <li>The communication plan,</li> <li>Communication channels and the RASCI matrix</li> </ul>

**References**

No.	Title
1	The Prince2 Training Manual, by Frank Turley, 2010
2	A guide to the Project Management Body of Knowledge, PMBOK Guide, Fifth Edition, Project Management Institute, ISBN 978-1-935589-67-9
3	Project management, A System Approach to Planning, Scheduling, and Controlling, Eleventh Edition, Harold R. Kerzner, Published by John Wiley & Sons, Inc., Hoboken, New Jersey
4	Project Management, Tenth Edition, Dennis Lock, ISBN: 978-1-4094-5419-9, Gower Publishing Limited
5	Project Management in Practice, Fourth Edition, S.J. Mantel, J.R. Meredith, S.M. Shafer, M.M. Sutton, JOHN WILEY & SONS, INC., ISBN-13 9780470533017



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**ECDIS**

Nr.	Content
1	Legal framework for ECDIS. - ECDIS concept - Abbreviation used with ECDIS
2	Electronic Navigational Chart - Classification of charts - RNC – Raster Charts - ENC (S-57) – Electronic Navigational Chart - differences between Vector and Raster Charts - Electronic Chart Systems
3	ECDIS Data - Data used with ECDIS - Display orientation - Modes for displaying data with ECDIS
4	Navigational Functions - Settings for navigation parameters ECDIS - Route planning - ECDIS Sensors - Voyage monitoring
5	Charts corrections - Types of updates - Keeping updates records - ECDIS errors
6	Alarms and warnings - Types of alarms and indications - Scenarios of Alarms/Indication
7	Position reference systems - GPS. DGPS Position reference systems, Global satellite navigation systems GNSS - Activation of the back-up system
8	Limitations of global satellite navigation systems - The main causes of positioning errors - Errors in ships position with GPS positioning system using satellites
9	Methods for verification of ship position - Methods of verification the position - Applicationn of ship position verification methods
10	Configuration of the ECDIS sensors - Configuration of ECDIS sensors - Configuration safety parameters - Configuration the parameters of the active route
11	Test ECDIS equipment - Technical errors that may occur during the use of ECDIS - Carrying out tests on board the ship
12	Types of ECDIS equipment - Types of ECDIS equipment - Advantages and disadvantages of different types of ECDIS equipment

**References**

Nr.	Title
1	Applied Research International, 2009. Electronic Chart Display & Information



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	System, New Delhi: Compiled by ARI Faculty
2	ECDIS Passage Planning, Witherby Publishing house (eBook), ISBN: ISBN 13: 978-1-85609-670-6, ISBN 10: 1-85609-670-X
3	ECDIS PROCEDURES GUIDE, Witherby Publishing house (eBook), ISBN: ISBN 13: 978-1-85609-535-8, ISBN 10: 1-85609-535-5
4	Gale, H. 2009. From Paper Charts to ECDIS – a practical voyage plan, London, The Nautical Institute
5	IMO Model Course 1.27, 2012. The Manila Amendments to the STCW Convention and Code, London: International Maritime Organization
6	IMO Resolution A817(19), Performance Standards for ECDIS, London: International Maritime Organization
7	IMO Resolution MSC. 86(70), annex 3, Performance standards for integrated Navigation systems, London: International Maritime Organization.
8	IMO Resolution MSC. 86 (70), Adoption of new and amended performance standards for navigational equipment. London: International Maritime Organization
9	IMO Resolution MSC. 64 (67), Recommendations on new and amended performance standards. London: International Maritime Organization
10	IMO Resolution SN/ Circ. 207, Difference between RCDS and ECDIS. London: International Maritime Organization.
11	IMO Vega database, International Maritime Organization, DNV, 2013.

#### 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:

##### I. DOCUMENT MAP (file cover Annex 1)

1. Application to take part in the competition, registered by the closing date, signed and dated by the candidate, including a sworn statement (in original) concerning the accuracy of the information provided in the application file (in original) -Annex 2. The application is accompanied by the consent to the processing of personal data - Annex 2.1

2. A proposal for the development of the candidate's academic career in terms of both teaching and scientific research activities (maximum 10 pages). This document is one of the main selection criteria;

3. Curriculum vitae of the candidate (in original, signed on each page). and in ELECTRONIC PDF format, WITHOUT SIGN- under Personal data to include name, surname and e-mail address. Annex 3 (Europass model) Curriculum vitae includes: a) information on studies and diplomas obtained; b) information on professional experience and relevant jobs; c) information on research and development projects that the applicant has led as project director or has been a member of, indicating for each source of funding, the volume of funding and the main publications or patents resulting; d) information on awards or other recognition of the applicant's scientific work.

4. Verification sheet on the fulfillment of the specific standards of the post, completed by the candidate (in original, signed on each page). The application form in ELECTRONIC PDF format, WITHOUT SIGNATURE. The candidate assumes responsibility that the letter and electronic formats contain the same information- Annex 4.1, 4.2. For the posts of lecturer and university professor the completed form according to the specific requirements of OMENCȘ 6129 of 2016 on the minimum standards for conferring teaching titles



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5. Candidate's list of papers (in original, signed on each page) and in ELECTRONIC PDF format, WITHOUT MARKS. The applicant assumes responsibility that the letter and electronic formats contain the same information - Annex 5. The candidate's complete list of papers will be structured as follows: (a) a list of the maximum of 10 works considered by the candidate to be the most relevant to his/her own professional achievements in the field of the disciplines of the post for which he/she is applying and which are included in electronic format in the file and may be found in the other categories of works; (b) doctoral thesis(s); (c) patents and other industrial property titles; (d) books and chapters in books; (e) full-length articles/studies published in journals of the main international scientific journals; (f) full-length publications in proceedings of the main international conferences of specialized journals; (g) other scientific papers and contributions
6. Documents relating to the possession of the doctor's degree: a certified copy of the original doctor's degree or, if the original doctor's degree is not recognized in Romania, the certificate of its recognition or equivalence, in certified copy
7. The abstract of the doctoral thesis - in Romanian and in an international language
8. Simple copies of other diplomas certifying the candidate's studies (baccalaureate, bachelor's, master's, master's / advanced studies and their transcripts / supplements) or, if the original diplomas are not recognized in Romania, the certificates of recognition or equivalence; copies of other diplomas certifying the candidate's studies. Copies must be signed by the candidate to certify that they are 'true copies'
9. Copy of the identity card or, if the candidate does not have an identity card, of the passport or another identity document issued for an equivalent purpose to the identity card or passport.
- 10 If the candidate has changed his/her name, copy of the document proving the change of name - marriage certificate or proof of change of name.
- 11 Affidavit of the candidate indicating the situations of incompatibility provided for by the Law on Higher Education no. 199/2023, as amended, in which he/she would be in if he/she won the competition or the absence of such situations of incompatibility; [Annex 6];
- 12 For all teaching positions: -copy of the original employment record or certificate of length of service (only in the case of persons who do not have an individual employment contract with the Maritime University of Constanta); -certificate of criminal record -certificate of behavioral integrity regulated by Law no. 118/2019 on the National Automated Register on persons who have committed sexual crimes, crimes of exploitation of persons or on minors, as well as for the completion of Law no. 76/2008 on the organization and functioning of the National System of Judicial Genetic Data, as amended; -medical certificate-occupational medicine issued on a specific form adopted by joint order of the Minister of Education and Minister of Health published in M.O.R.286 -psychiatric opinion and medical letter for the exercise of the teaching profession, issued in accordance with the provisions of the joint order of the Minister of Education and the Minister of Health, published in M.O.R.286/02/04/2024 (Annex 1); - psychiatric opinion and medical letter for the exercise of the teaching profession, issued in accordance with the provisions of the joint order of the Minister of Education and the Minister of Health, published in M.O.R.286/02/04/2024 (Annexes 2, 3). All copies shall be certified "true copies"
- 13 List of referees with their contact details - only in the case of the competition for the posts of university lecturer, scientific researcher grade II, university professor, scientific researcher grade I and at least 3 letters of recommendation.
- 14 Only for candidates for the posts of university professor: copy of the habilitation certificate or copy of the ministerial order conferring the quality of doctoral supervisor.



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## II WORK MAP (file cover Annex 1)

A maximum of 10 publications, patents or other works of the candidate, in printed and electronic format, selected by the candidate and considered to be the most relevant to his/her professional achievements; if one or more publications are not available in electronic format, the candidate will submit with the application a copy of the book/monograph of which he/she is the author, the website of the conference where the paper was presented, ISSN, Proceeding etc, or scanned copies in pdf format;

*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;
- 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. 199/2023 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.



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m) other documents attesting relevant academic competences required for the academic title of university professor (eg habilitation, etc.)

**h.) The application for the competition will be submitted to the address enclosed in the header.**

**DEAN:**

**Assoc. Prof. Nicoleta Acomi, PhD**



**HEAD OF DEPARTMENT:**

**Assoc. Prof. Anastasia Dușe, PhD**

