



Information about the job application contest for the position of

„Associate Professor”

Department of Engineering Sciences in the Electrical Field,
Position no. 3 in the job title list
Naval Electromechanics Faculty
Constanta Maritime University

a.) Description of the role

The job is a full-time position in the Engineering Sciences in the Electrical Field Department, Naval Electromechanics Faculty, Constanta Maritime University

Academic Discipline in the curricula: High voltage technique; Systems theory and automatic adjustment, Electric drive systems, Electric drive systems - project.

b) Tasks / Activities associated with the role

Teaching Load: Related duties /activities

Nr.	Type of Activity	Nr.of conventional hours
1.	Teaching Activities	4 h /week
2.	Supervision of Seminar, Labs, and Projects	4 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	8 h /week

Research Load

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

c.) Minimum wage for classification

Nr.	Years of academic labor	Minimum wage for classification
1	0-3 years	-
2	3-5 years	4,485
3	5-10 years	4,620
4	10-15 years	4,973
5	15-20 years	5,338
6	20-25 years	5,956
7	25-30 years	6,561
8	30-35 years	6,636
9	35-40 years	6,783
10	Peste 40 years	6,830

d.) Calendar of the job application contest

- The Application period will run 45 days after the publication date in the Official Monitor
- The contest takes place in no more than 45 days after the application period.
- The Higher Education Institution announces on its website the contest date, time and place at least 5 working days before the contest

CALENDAR OF THE JOB APPLICATION CONTEST FOR OCCUPYING DIDACTIC VACANCIES 1st SEMESTER, ACADEMIC YEAR 2020/2021

VACANCIES WERE PUBLISHED IN ROMANIA'S OFFICIAL MONITOR No. 782 on the 24th of November 2020, THIRD PART



Presenting the contest files	The 24 th of November 2020 – the 8 th of January 2021
Contest/Lecture presentation and communication of results	The 24 th of January 2021– the 31 th of January 2021
Solving litigations	The 4 th of February2021
Faculty Council Session for approving contest reports	The 5 th of February2021
Senate Session for validating the contest	The 5 th of February2021

e.) Job Application Contest Procedures

In order to enter the competition for a teaching and research position, the candidate prepares a dossier containing at least the following documents:

- a) Application form, signed by the candidate, including an affidavit about the veracity of the information presented in the file;
- b) Proposal to develop the candidate's academic career in terms of teaching, in case of teaching positions and also in terms of scientific research; the proposal shall be made by the candidate, it includes more than 10 pages and is one of the main criteria of selecting candidates..
- c) Curriculum vitae of the candidate, printed and electronically
- d) List of candidate's works, printed and electronically;
- e) A sheet verifying the fulfillment of university standards of presentation in the competition, whose standard format is required by its own methodology. The verified sheet is completed and signed by the candidate;
- f) Documents which relate to the degree of doctor: copy of the diploma of doctor and, if the original doctor's degree is not recognized in Romania, certificate of recognition or equivalence thereof;
- g) Summary of the thesis in Romanian and a foreign language, or, where applicable, habilitation thesis on no more than one page for each language;
- h) The candidate's affidavit indicating incompatibility situations stipulated by Law no. 1/2011 as they are for winning the competition or lack of such situations of incompatibility;
- i) Copies of other diplomas demonstrating the candidate's studies
- j) Copy of identity card or, if the candidate does not have an identity card, passport or other identity document issued in an equivalent identity purpose;
- k) If the candidate has changed his name, copies of documents certifying the name change - marriage certificate or proof of name change;
- l) Maximum 10 publications, patents and other papers of the candidate, in electronic format, selected by him and considered to be most relevant for their professional achievements.
- m) Minimum 3 letters of recommendation regarding professional competences of the candidate's, issued by personalities in position disciplines domain, from national universities and research centers, including their name and contact address.

Curriculum vitae of the candidate must include:

- a) information about the studies and diplomas obtained;
- b) information on professional experience and relevant jobs;



- c) information about research and development projects which he led as project manager and grants obtained, if there are such projects or grants, indicating for each funding source, funding amount and the main resulting publications and patents;
- d) information about the awards or other recognition of scientific contributions of the candidate.

Full list of papers of the candidate will be as follows:

- a) List of more than 10 papers of the candidate to be most relevant for his professional achievements, which are included in the electronical file and can be found in other types of works under this article. For the post of professor, works list will specify which of the papers presented are carried out after obtaining the certificate of entitlement;
- b) The doctoral thesis or theses;
- c) Patents and other industrial property titles;
- d) Books and chapters in books;
- e) Articles/studies extensively published in international scientific journals in the main stream;
- f) In extenso publication, the main works published in international specialized conferences;
- g) other works and scientific contributions, as appropriate, in the field of artistic creation.

Candidate's professional competence is assessed by the competition commission based on the record of the competition and, additionally, by one or more samples of the competition, including lectures, courses or other similar support under this methodology:

- a) for all posts for indefinite period, a test is represented by a public lecture at least 45 minutes in which the candidate has the most significant previous professional and academic career development plan.
- b) for all teaching positions, candidates who do not come from higher education, the evaluation of the quality of the teaching activity is mandatory based on a specialized lecture (course) in front of the representatives of the competition commission. The competition commission may also request such a course in the case of tenured or associated teachers, working in the UMC or in another university, if it deems it necessary.
- c) The Higher Education Institution announces on its website the contest date, time and place at least 5 working days before the test.

Stages of the contest:

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: In the public lecture, the candidate has to deliver in at least 45 minutes, before the competition commission and the department members, his/her most significant professional results as well as plans for the development of his /her academic/scientific career.

Stage III (if applicable) - specialized lectures (course) in front of the representatives of the competition commission.



f.) The candidate dossier must contain at least the following documents:

- a) Application form, signed by the candidate, including an affidavit about the veracity of the information presented in the file;
- b) Proposal to develop the candidate's academic career in terms of teaching, in case of teaching positions and also in terms of scientific research; the proposal shall be made by the candidate, it includes more than 10 pages and is one of the main criteria of selecting candidates..
- c) Curriculum vitae of the candidate, printed and electronically
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- j) Copy of identity card or, if the candidate does not have an identity card, passport or other identity document issued in an equivalent identity purpose;
- k) If the candidate has changed his name, copies of documents certifying the name change - marriage certificate or proof of name change;
- l) Maximum 10 publications, patents and other papers of the candidate, in electronic format, selected by him and considered to be most relevant for their professional achievements.
- m) Minimum 3 letters of recommendation regarding professional competences of the candidate's, issued by personalities in position disciplines domain, from national universities and research centers, including their name and contact address.

g.) Contest Themes

No.	Content
1	Power plants. Schematic diagrams. Characteristic elements for the installations of the electrical part of the power plants.
2	Wiring diagrams for power stations. Criteria for choosing electrical appliances and equipment
3	Calculation of short-circuit currents and measures to limit them
4	Secondary circuits and relay protection
5	Electric drive of anchoring-mooring installations
6	Electric drive of loading-unloading installations
7	Electric drive of the steering gear
8	Electric drive of auxiliary mechanisms

9	Selection and verification of the electric drive motor for the loading-unloading, anchoring-mooring, steering system
10	Introduction to automation: definitions, automatic system structures (SA), classification
11	Functional and structural characterization of SA: differential equations, transfer functions, frequency characteristics, status variables;
12	Linear and continuous SA performance: definition of performance, calculation of performance, resolution of the system of state equations; Linear SA stability: Hurwitz criterion, Nyquist criterion.
13	Multivariable automatic systems: transfer matrix, synthesis elements, controllability and observability
14	Automatic non-linear systems: phase plan method, description function method, non-linear SA stability

Bibliography

No.	Authors	Title
1	Freidzon I.R.	<i>Acțiunea electrică a mecanismelor navale</i> , Editura Tehnică, București, 1979.
2	Fransua Al.	<i>Mașini și sisteme de acționări electrice</i> , Editura Tehnică, București, 1978.
3	Gheorghiu S., Panait C.	<i>Mașini și sisteme de acționări electrice navale</i> , Editura Academiei Romane, Bucuresti 2004.
4	Scripcariu M., Costinaș ,Comanescu G.	<i>Prelegeri de partea electrică a centralelor și stațiilor electrice</i> , Editura Politehnica Press, București, 2010
5	Scripcariu M.	<i>Echipamente de distribuție a energiei electrice</i> , Editura Politehnica Press, București, 2008
6	Preda L., Heinrich I., Buhuș P.	<i>Stații și posturi electrice de transformare</i> , Editura Tehnică, București, 2008
7	Conecini I., Tomescu I. Ionescu A.	<i>Cartea electricianului din stații și posturi de transformare</i> , Editura Tehnică, București, 1986
8	Dumitrache I. s.a.,	<i>Electronic automation</i> , Technical Publishing House, Bucharest, 1993.
9	Ionescu V., Belea C.	<i>Systems Theory Vol1-2 Linear Systems, Nonlinear Systems</i> , Didactic and Pedagogical Publishing, 1985



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

Dean,
Assoc. Prof. STAN Liviu, PhD

Head of Department,
Lecturer. DORDESCU Marian, PhD