

ROMÂNIA

MINISTERUL APĂRĂRII NAȚIONALE

ACADEMIA NAVALĂ „MIRCEA CEL BĂTRÂN”

Anexa la Cererea nr.

din

Europass
Curriculum Vitae**Personal information**

Surname(s) / First name(s) **Andra-Teodora NEDELCU**

Address(es) 37th, Plaiului street, 907300, Valu lui Traian, Constanța, Romania

Telephone(s) +40 724 929 776

E-mail andra.nedelcu@anmb.ro

Nationality Romanian

Date of birth 29 January 1990

Gender Female

Work experience

Dates August 2024 - present

Occupation or position held **Vice-dean/ Lecturer eng./ Faculty of Navigation and Naval Management/ Department of Navigation and Naval Transport / „ Mircea cel Bătrân” Naval Academy**

Main activities and responsibilities Supporting the Dean in leading the academic vision, strategy, and operational aspects of the faculty

Name and address of employer „ Mircea cel Bătrân” Naval Academy, Fulgerului Street, no.1, 900218, Constanta

Type of business or sector Romanian Navy

Dates July 2021 - August 2024

Occupation or position held **Lecturer eng./ Faculty of Navigation and Naval Management/ Department of Navigation and Naval Transport / „ Mircea cel Bătrân” Naval Academy**

Main activities and responsibilities	Meteorology and Oceanography, Estimated and coastal navigation
Name and address of employer	„ Mircea cel Bătrân” Naval Academy, Fulgerului Street, no.1, 900218, Constanta
Type of business or sector	Romanian Navy
Dates	August 2017- July 2021
Occupation or position held	Military instructor/ Faculty of Navigation and Naval Management/ Department of Navigation and Naval Transport / „ Mircea cel Bătrân” Naval Academy
Main activities and responsibilities	Estimated and coastal navigation. Radar navigation and radioelectronic navigation.
Name and address of employer	„ Mircea cel Bătrân” Naval Academy, Fulgerului Street, no.1, 900218, Constanta
Type of business or sector	Romanian Navy
Dates	June 2016- August 2017
Occupation or position held	Specialist Officer in Office for Education and Quality Management / Naval Academy "Mircea cel Batran"
Main activities and responsibilities	Management of study papers; performing the internal annual audit; class checking.
Name and address of employer	„ Mircea cel Bătrân” Naval Academy, Fulgerului Street, no.1, 900218, Constanta
Type of business or sector	Romanian Navy
Dates	March 2014 – June 2016
Occupation or position held	Antisubmarine Warfare Officer/ Operations Warfare/ ” Mărășești” Frigate
Main activities and responsibilities	Coordination of activities within the Antisubmarin Warfare Group
Name and address of employer	Military Harbour, Constanța
Type of business or sector	Romanian Navy
Education and training	
Dates	September 2017 - 2021
Title of qualification awarded	PhD Mechanical Engineering
Name and type of organisation providing education and training	Constanța Maritime University
Dates	January 2018- July 2018
Title of qualification awarded	Level II Psycho-pedagogical
Principal subjects/occupational skills covered	Psychopedagogy of children, adolescents, young people. Sociology. Classroom management.

Name and type of organisation providing education and training	Ministry of Education, Research, Youth and Sports
Dates	March 2018- April 2018
Title of qualification awarded	Advanced course for naval officers
Principal subjects/occupational skills covered	NATO standards, Leadership.
Name and type of organisation providing education and training	Navy Training School
Dates	2013 - 2017
Title of qualification awarded	Master of Engineering and Management of Ship Systems and Equipment
Principal subjects/occupational skills covered	Computerized Analysis of Naval and Port Structures, Structural Architectural Safety of Ship Corps, Naval Systems and Equipment Optimization Techniques, Modern Port Technology
Name and type of organisation providing education and training	"Ovidius" University, Constanta, Faculty of Mechanical, Industrial and Marine Engineering
Dates	September 2013 - March 2014
Title of qualification awarded	Basic training course for naval officers
Principal subjects/occupational skills covered	Training for first workplace
Name and type of organisation providing education and training	Navy Training School
Dates	2009 – 2013
Title of qualification awarded	Bachelor in Navigation, Hydrology and Navigation Equipment Engineering
Principal subjects/occupational skills covered	Special Mathematics, Estimated Coastal Navigation, Astronomical Navigation, Radar Navigation, Ship Manoeuvrage and COLREG
Name and type of organisation providing education and training	„Mircea cel Bătrân” Naval Academy
Dates	2013
Title of qualification awarded	Level I Psycho-pedagogical
Principal subjects/occupational skills covered	Psychopedagogy of children, adolescents, young people. Sociology. Classroom management.
Name and type of organisation providing education and training	Ministry of Education, Research, Youth and Sports

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	Self-assessment	Self-assessment	Self-assessment	Self-assessment	
English					
French	Self-assessment	Self-assessment	Self-assessment	Self-assessment	Self-assessment
	Self-assessment	Self-assessment	Self-assessment	Self-assessment	Self-assessment

Communication skills

- The ability to communicate as part of the learning process using the right means (intonation, gesture, mimics, etc.)
- Paying attention to students' questions, concerns, and feedback.
- Preparing clear lecture notes, emails, assessments, and feedback that students can easily understand.

Organisational / managerial
skills

- Planning lectures, grading assignments, meeting deadlines, and balancing teaching, research, and administrative duties efficiently.
- Guiding students, coordinating group activities, mentoring learners, and sometimes leading academic teams or projects.
- Organizing academic projects, research activities, seminars, and course schedules effectively.

Computer skills and competences

- Competent with most Microsoft Office programmes
- Experience with Ansys SoftWare

Other skills and competences

- Ability to allocate time to the learner;
- Autonomy, discipline, perseverance in the learning process;
- Short- and long-term concentration capacity;

Driving licence

B, AM, B1;

**Additional information
Publication**

- Scientific Research and Development Project nr. 129/2019 „Studiu și măsurători privind influența curenților costieri asupra litoralului românesc de la Capul Midia la Mangalia”
- Scientific Research and Development Project nr. 90/2023 nr. 131/2019 „Studiu privind dezvoltarea unui laborator de Oceanografie fizică. Hidrografie marină”
- Scientific Research and Development Project nr. 90/2023 ” Realizarea de cercetări hidrografice prin utilizarea magnetometrului în zona Lacului Siutghiol”
- Project ”Stagii de practica inovativa pentru dobandirea de competente in sectoarele economice cu potential competitiv, **Cod proiect 133383**”, 01.11.2020-30.08.2022 – membru;
- Controlul și stabilizarea vehiculului subacvatic autonom destinat cercetării submarine”, Editura Academiei Navale, 2021, ISBN 978-606-642-214-7;
- ” Meteorologie și oceanografie- îndrumar de laborator”, Editura Academiei Navale, 2022, ISBN 978-606-642-241-3;
- **A.T. Nedelcu**, F.V. Panaitescu, M. Panaitescu, M-C. Niță, C. Faităr, *Study on the development of offshore wind farms on the Black Sea coast*, VIRTUAL SPEAKER at SGEM Vienna GREEN 2025 “Green Science for Green Life”, Extended Scientific Sessions of the XXVth SGEM2025 GeoConference on Earth & Planetary Sciences
- A. Pohontu, **A. -T. Nedelcu**, N. -S. Popa and C. Vertan, "Predicting Detection Range of Maritime Sensors: a Meteorological Data-Driven Approach," *2024 16th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)*, Iasi, Romania, 2024, pp. 1-6, doi: 10.1109/ECAI61503.2024.10607396
- **A.-T. Nedelcu**; C. Faităr; I. Voicu; M. Panaitescu. *Floating Photovoltaic Systems—Energy Performance and Environmental Challenges in Sustainable Development*. Sustainability 2026, 18, 2588.
- **A.T Nedelcu**, D. Atodiresei, N. Buzbuchi, *Oceanographic Research and Recordings Made on the North-West Coast of the Black Sea* .International Journal of Conservation Science, Volume 11, Issue 2, 2020, pp. 615-624 ISSN: 2067-533X, Publication date: **June 15, 2020**, IJCS is indexed in: **Web of Science – ESCI & SCOPUS**, <http://ijcs.ro/volume-11-2020/#issue2>
- Dinu Atodiresei, Clim Ovidiu, **A-T Nedelcu**, Daniel Georgescu, Alecu Toma, Romeo Bosneagu, Rita Avram. ”*Study on the field steps necessary for the execution of the hydrographic works related to the navigable canals from Constanta harbour in support of the safety of navigation*”, SBNA, ISSN: 2392-8956; ISSN-L: 1454-864X
- R. Bosneagu, D. Cosofret, R. Avram, D. Atodiresei, G. Li, C. Wang, M. Zhu, A. Atodiresei, **A. Nedelcu**, A. Bautu, D. Corduneanu, *Application of Smart Technologies in Oceanography and Batimetry*, Scientific Bulletin of Naval Academy, Vol. XXVI 2023, pg. 49-55.
- **A.T. Nedelcu**, R. Bosneagu, D. Atodiresei, R. Avram, A. Pocora, P.S. Serban, S. Lupu, A. Bautu, A. Atodiresei, D. Corduneanu, D. E. Popescu , M. Butnaru and S. Diaconu, *Modelling of Navigation and Hydrometeorological Conditions in the Costal and Harbour Area Constanta-Agigea*, Scientific Bulletin of Naval Academy, Vol. XXVI 2023, pg. 49-56.
- **A.T Nedelcu**, S. Lupu, A. Toma, C. Clinci, *Ship Maneuvering Prediction based Pivot Point Estimation*, Journal Scientific Bulletin" Mircea cel Batran" Naval Academy, vol. 21, no. 2, pg. 1-7, Naval Academy Publishing House, DOI: 10.21279/1454-864X-18-I2-007, Constanța 2018
- Popa C., Toma A., **A.T Nedelcu**, *Diversity Management, Perceptions, Attitudes and Experiences of Seafarer Women, Book of Leadership and Management of the Differences in the Seafaring Profession*, ISSN: 978-619-7428-39-1; Mentoress Volume XXI, 2019, pp. 42-48, Varna, Bulgaria.

Publications	▪ O. Tărăbuță, C. Clinci, G. Ichimoaei, A.T Nedelcu,” IOP Conf. Series: Earth and Environmental Science, 172 (2018) 012029, 2018 ▪ A.T Nedelcu, A.Toma, <i>Calculation of drag force of type 22 Frigate using PTC Mathcad Program</i>, “Mircea cel Batran” Naval Academy Scientific Bulletin, Volume XIX – 2016 – Issue 2 Published by “Mircea cel Batran” Naval Academy Press, Constanta, Romania, ISSN 1454-864X; ▪ A.T Nedelcu, A. Toma, D. Atodiresei, <i>Assessment of the marine wave energy for the north-western area of the Black Sea</i>, “Mircea cel Batran” Naval Academy Scientific Bulletin, Volume XX – 2017 – Issue 1 Published by “Mircea cel Batran” Naval Academy Press, Constanta, Romania, ISSN 1454-864X;
International missions	▪ A.T Nedelcu, A. Toma, D. Atodiresei, <i>Optimization of training ship “Mircea” underway on route Constanta to New York</i>, “Mircea cel Batran” Naval Academy Scientific Bulletin, Volume XX – 2017 – Issue 1 Published by “Mircea cel Batran” Naval Academy Press, Constanta, Romania, ISSN 1454-864X; ▪ D. Atodiresei , A.T Nedelcu, A. Toma , S. Lupu, M. R. Apetroaei, A. Aptula, „<i>Optimization the navigation route from Singapore to Santos by using the ship’s software and processing the hydrometeorological parameters received in real time</i>”, Journal of Physics: Conference Series , Volume 1297, September 2019, https://iopscience.iop.org/article/10.1088/1742-6596/1297/1/012027 ▪ A.T Nedelcu, C. Făitar, M. Dumitrache , <i>CFD Analysis For a Remotely Operated Vehicle in Horizontal Plan</i> , Mechanical Testing and Diagnosis ISSN 2247 – 9635, 2018 (VIII), Volume 1, pp. 5-10; http://www.mtd.ugal.ro/download/2018-1/1_MTD_Volume%201_2018_Nedelcu%20negru%20final.pdf ▪ A.T Nedelcu, C. Făitar, N. Buzbuchi, <i>The Analysis of Immersion Movement of Remotely Operated Vehicle</i>, Mechanical Testing and Diagnosis ISSN 2247 – 9635, 2017 (VII), Volume 4, pp. 5-8;
Distinction	• Antisubmarine Warfare Officer, “Mărășești” Frigate, Sea Breeze 2015, period 15.11-17.11.2014; • Antisubmarine Warfare Officer, “Mărășești” Frigate, Sea Shield 2016, period 18.07-22.07.2015; • Antisubmarine Warfare Officer, “Mărășești” Frigate, Sea Breeze 2017, period 25.07-29.07.2016; • Diploma of Merit Merit Emblem, 2nd Class, SPD-28, 25.07.2013 • Diploma of Excellence for outstanding results achieved on the bachelor's degree studies with the title of head of the Military Navy Faculty and the program Naval Naval Academy "Mircea cel Batran", 27th of July 2013; • Merit Diploma for the Promotion Chief 2013 "Aurel Vlaicu", specializing in Navigation, Hydrology and Navigation Equipment, ANMBALUMNI ANMB graduates. • Diploma of Merit at graduation of "Aurel Vlaicu-100" promotion, Military Navy Officers League, July 27, 2013; • Excellency diploma for the scientific excellence of the paper held at the Student Scientific Session, Constanta, 06-08.05.2010; • Diploma of Excellency and the prize of the General Stefan Gusa Foundation, 27.07.2013, series: 56072013; • Spadino d'Onore dell' Italian naval academy on brillanti consecutive nell' Anno Accademico 2013, at the Italian Military Marine

19.05.2026

Courses

- K-Sim Spirit Operator 1 Course, Naval Academy "Mircea cel Bătrân", Constanța, 2023;
- Certificate Common Module on CSDP "The Maritime Dimension of the International Humanitarian Law in Armed Conflicts" - Livorno, Italy, 2013.
- Course of. English Languages "Navy Topics", Naval Academy "Mircea cel Bătrân", Constanța, 2016.
- Course of. English Languages Level Pre-Intermediary / 4 enterprises, Naval Academy "Mircea cel Bătrân", Constanța, 2017

