















# PROSPECTUS FOR FOREIGN STUDENTS DEPARTEMENT OF NAVAL ARCHITECTURE FACULTY OF ENGINEERING UNIVERSITAS MUHAMMADIYAH SURABAYA 2023/2024

**Accreditation Status: B** 

"Transforming into an outstanding academic program in the field of Naval Engineering, grounded in the development of ship production management based on intellectuality, morality, and entrepreneurial spirit."

VISIC



- 1. Conducting education and learning in Naval Engineering that excels in innovation and entrepreneurial spirit.
- 2. Organizing research and publications that contribute to science, technology, and innovation in the field of Naval Engineering and Maritime Industry.
- 3. Providing community service based on research and innovation in Naval Engineering and Maritime Industry.
- 4. Nurturing and developing the academic community of Naval Engineering based on the values of Al Islam and Kemuhammadiyahan.
- 5. Establishing collaboration and governance based on the principles of good governance.

# **Graduate Profile**

PROFILE	PROFILE DESCRIPTION		
Technopreneur	Entrepreneurs providing services in the fields of planning, supervision,		
	and execution of construction, or entrepreneurs engaged in buying and		
	selling activities or services in the maritime sector, such as coating		
	services, blasting, and the like.		
Surveyor	Expert in the field of ship surveying, encompassing routine surveys and		
Boat	vessel damage assessments. Conducts testing of equipment and ship		
	provisions related to ship class certifications, both hull and machinery,		
	which are essential for purposes of vessel chartering, buying and		
	selling, as well as ship insurance.		
Engineer	Expert project implementer for ship construction responsible for		
	coordinating the construction according to predetermined specifications.		
	Proficient in ship design, possessing knowledge in ship design and		
	construction, and creating ship designs according to the owner's desired		
	specifications with considerations for technical, economic, and maritime		
	safety aspects.		
Researcher	A young scientist who is interested in advancing the field of naval		
	architecture and is prepared to participate in a Master's level educational		
	program.		

# LIST OF COURSES 2023 DEPARTMENT OF NAVAL ARCHITECTURE FACULTY OF ENGINEERING UNIVERSITAS MUHAMMADIYAH SURABAYA

# First Year Semester I

Course	Code	SKS
Mathematics 1	20WP2713G14	3
Basic Physics 1	20WP2713G15	3
Fundamentals of Computers &		
Programming	20WP2713G16	2
Theory of Ship Structures 1	20WP2713G17	2
Technical Drawing	20WP2713G18	2
Introduction to Maritime Technology	20WP2713G19	2
Pancasila Education	20WU2713G02	2
Indonesian Language Education	20WU2713G04	3
Total Credit	19	

# Semester 2

Course	Code	SKS
Islam and Muhammadiyah 1 (AIK 1)	20WI2713G05	2
English Language	20WI2713G10	2
Material Technology and Mechanics	20WP2713G20	2
Engineering Mechanics	20WP2713G21	2
Line Plan Assignment	20WP2713G22	2
Ship Structure Theory 2	20WP2713G24	2
Mathematics 2	20WP2713G25	3
Basic Physics 2	20WP2713G26	3
Civic Education	20WU2713G03	2
Total Credit	20	

# Semester 3

Course	Code	SKS
Islam and Kemuhammadiyahan 2		
(AIK 2)	20WI2713G06	2
Life Sciences	20WP2713G63	2
Mathematics 3	20WP2713G27	3
Ship Design	20WP2713G28	2
Chemistry	20WP2713G29	3
Statistics	20WP2713G30	2
Ship Construction and Strength 1	20WP2713G31	2
Ship Equipment	20WP2713G32	2
Welding Technology	20WP2713G33	2
Ship Machinery	20WP2713G66	2
Total Cred	lits	22

# Semester 4

Course	Code	SKS
Islamic and Kemuhammadiyahan 3		
(AIK 3)	20WI2713G07	2
Marine System	20WP2713G35	2
Ship Resistance and Propulsion	20WP2713G36	2
Theory and Application of		
Optimization	20WP2713G37	2
Mathematics 4	20WP2713G38	3
Computer-Aided Design (CAD)	20WP2713G40	2
Ship Dynamics	20WP2713G50	2
Ship Construction and Strength 2	20WP2713G42	2
Welding Practicum	20WP2713G43	1
Marine Business	20WP2713G56	2
Total Cred	20	

# **Semester 5**

Course	Code	SKS
Islam and Kemuhammadiyahan 4		
(AIK 4)	20WI2713G08	2
Theory and Application of Finite		
Elements	20WP2713G44	2
Ship Production Technology 1	20WP2713G45	2
Ship Production with Computers	20WP2713G46	2
Safety Management	20WP2713G47	2
Ship Production Management	20WP2713G48	2
Quality Management	20WP2713G64	2
Risk Management	20WP2713G50	2
Capstone Project I - Design Task 1	20WP2713G51	3
Ship Production Practicum with		
Computers	20WP2713G52	1
Total Cred	20	

# Semester 6

Course	Code	SKS
Cooperative Work Program for		
Business and Management	20WI2713G12	4
Practical Work	20WP2713G53	2
Research Methodology	20WP2713G54	2
Ship Production Technology 2	20WP2713G55	2
Logistics Management	20WP2713G65	2
Welding Inspection	20WP2713G57	2
Inspection Practicum	20WP2713G58	1
Capstone II Design Task 2	20WP2713G59	3
Elective Course 1		2

Elective Course 2	2
Total Credits	22

#### Semester 7

Course	Code	SKS
Arabic	20WI2713G09	2
Basic Entrepreneurship	20WI2713G11	2
Project management	20WP2713G64	2
Ship Production Tasks	20WP2713G61	2
Design Task 3	20WP2713G62	3
Elective course 4		2
Elective course 5		2
Total Credits		15

#### **Semester 8**

Course	Code	SKS
Thesis	20WI2713G14	6
Elective courses 7		2
Elective courses 8		2
Total Credits		10

#### FINAL PROJECT PROCESS

The execution of the final assignment commences in the 7th semester, subject to the prerequisite of having completed the Research Methodology course. The potential topics that can be pursued for the final assignment encompass Ship Production Management and Technology, Ship Machinery, Inspection and Welding, Ship Design and Planning, Eco Vessel, as well as other topics pertinent to the field of maritime engineering.

#### **Learning Facilities**

The facilities and infrastructure within the Bachelor's Degree Program in Naval Engineering are integral components of Muhammadiyah's own charitable endeavor, overseen and developed by the University of Muhammadiyah Surabaya. These include: highly representative lecture halls, each equipped with teaching aids (LCD, AC, White Board, Wifi, E-learning), with an average seating capacity of 60 students per class. The program offers comprehensive laboratory facilities equipped with tools tailored to students' competencies and ratios. Abundant

faculty members and additional amenities such as a library, office spaces, and a student center



are also available.

**Outdoor Discussion Room** 

#### **EXCELLENT AND SUPERIOR PROGRAM**

The Bachelor's Degree Program in Naval Architecture Engineering offers a distinguished program, namely the Welding and Inspection competency, in collaboration with PT. Kampuh Welding Indonesia and The Welding Institute, for the implementation of competency certification related to welding and inspection.





# LABORATORIES DEPARTMENT OF NAVAL ARCHITECTURE FACULTY OF ENGINEERING UNIVERSITAS MUHAMMADIYAH SURABAYA

# **Laboratory Learning Support Facilities**

Laboratory of Inspection and Welding Laboratory of Ship Design & Engineering

Computational Laboratory Ship Production Laboratory Basic Physics Laboratory Internal Combustion Engine Laboratory

# PARTNER FOREIGN UNIVERSITIES

Asia University University Teknologi Petronas University Tun Husein Onn The Welding Institute

#### PARTNER INDUSTRY WHERE PRACTICE

PT.PAL Indonesia

PT. Adiluhung Sarana Segara Indonesia

PT. Ouneer Indonesia Group

PT.Surabaya Marine

PT.Dok & Perkapalan Surabaya

# STUDENT EXCELLENCE ACHIEVEMENTS

National Unmanned Speedboat Contest 2019	National Unmanned Speedboat Contest	
National FERC Finalist	2019 National FERC Finalist	
2020 National Unmanned Speedboat Contest	2020 National Unmanned Speedboat	
3rd Place in Hospital Ship Design	Contest 3rd Place in Hospital Ship	
	Design	
Unmanned speed boat contest 2021 FERC	Unmanned speed boat contest 2021	
National Finalist	FERC National Finalist	
Indonesian Innovation Talents TA Funding	Indonesian Innovation Talents TA	
Grants	Funding Grants	
best graduate of engineering faculty best	best graduate of engineering faculty best	
graduate of FT	graduate of FT	
Singapore from your home Passed Selection	Singapore from your home Passed	
	Selection	

# **FEES**

No	Items	Amount / Period	Information
1	Tuition Fee	\$ 350 / semester	Not Covered by
			University
2	Development Fee	\$ 450 / study	Not Covered by
	_	-	University
3	Laboratory and site visit	\$ 350 / semester	Not Covered by
			University
4	Bahasa Indonesia Course for	\$ 375 / 3 months	Covered by
	Foreigners		University
5	Judicium and Graduation	\$ 100 / study	Covered by
			University
6	Registration Form	\$ 75 / study	Covered by
			University
7	Visa and non-permanent residential	\$ 375 / study	Not covered by
	Permit	-	University
8	University Jacket, Id, Laboratory	\$ 75 / study	Covered by
	Suit		University
9	Housing	\$ 100 / month	Not Covered by
			University
10	OSCE and Clinic/hospital	\$ 570 / study	Not Covered by
	practicum		University
11	Journal access, library, and books	\$ 120 / semester	Covered by
			University
12	Seminar and Final Report	\$ 150 / study	Covered by
			University
13	Community Service	\$ 140 / study	Covered by
			University
14	English and Computer Laboratory	\$ 50 / Semester	Covered by
			University

#### **TOTAL**

Amount Covered by UMSurabaya: \$ 1,935 Amount Covered by Students: \$ 9,195

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# Alumni workplace distribution

PT.Pal Indonesia PT.Adiluhung Sarana Segara Indonesia Biro Klasifikasi Indonesia PT.Gapura Surabaya Dlyoid Register PT. Dok Perkapalan Lamongan

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