MYD YACHT DESIGN
FIRST-LEVEL SPECIALIZING MASTER AT THE POLITECNICO DI MILANO
XVIII EDITION 2019/2020

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Coordinator: Arch. Massimo Paperini
The Politecnico di Milano Design School offers this Specializing Master jointly with POLI.design, founded by Politecnico di Milano. The program was founded to meet the strong demand for training in the pleasure-craft segment. The yacht's market requires professionals with specialist post-university training.

AIMS
The program provides the tools required to handle the process of designing and building sailing and motor craft.

THE SAILING SECTOR
The sailing sector shows a strong professional vocation both on necessary competences for designing leisure boats and on capacities for managing the various phases of production planning.

MARKET
Looking at the past years data analysis on pleasure craft market trends, it can be observed that there was a contraction in product and sales volume that affected Italian craft market. However the mega-yacht sector, which is a sector where Italian shipbuilding preserves an important role at international level, is demonstrating of still holding strong. Another emerging factor is that design culture is well-established in the Italian context and benefits so much from international appreciation that the competences in design, organization and project management are now directed towards those geographical areas which are being more interested in growth and development factors from an industrial and market point of view.

ADMISSION REQUIREMENTS
The Master in Yacht design is intended for graduates in Architecture, Engineering and Industrial Design, and in related economic disciplines, and to applicants with equivalent qualifications. The maximum number of students admitted to the Specializing Master is 30.

GOALS
This Master’s degree program provides the skills needed to manage the design and construction process of a sailboat or a motoryacht.

DURATION
The Specializing Master has an overall duration of one year divided in frontal lesson and internship, which will allow students to reach a total of 60 CFU equivalent to 60 ECTS. The internship has a duration of approximately 3 months. The Specializing Master is scheduled to start in February 2019.
TEACHING PROGRAM
A boat, whether sailing or motor, is a complex product which integrates different systems ranging from that of propulsion to living accommodation, and other accessory functions. Every decision that touches on the technical setup (keel, fins, internal volume, motorization, plant engineering) affects all the other systems. A boat may be produced in series or as a one-off, using different technology and different materials. Interiors are influenced by trends and language, market competition tends to endow every product with a certain degree of innovation. The organization of the Specializing Master program takes this complexity into account and alternates class teaching – nine training modules from different disciplines – with design activities and visits to shipyards and companies within the sector, as well as institutes of applied research.

The principles of each discipline are given, together with the tools necessary for the practical application in the design activities of what has been learnt. The various skills and competences of the course participants will be integrated in the work groups, which will be required to develop a series of work-projects.

DIDACTIC UNITS
The course program consists of eight learning modules, plus a design workshop and the internship:
1) Yacht Design: principles, methods, tools and rules;
2) Design and representation;
3) Naval Architecture;
4) Shipbuilding;
5) On-board Systems and Propulsion Equipment;
6) Interior Design;
7) Production process and corporate organisation;
8) Empowerment.

PRACTICAL WORK
The Specializing Master integrates a variety of learning modules: metaproject analysis, defining the concept, and design exercises carried out in small groups as prerequisites to the planning workshops. The workshops offer a chance to try out the skills acquired during the learning modules, classroom exercises, and trips outside the classroom. The workshops are an essential part of the training process, which also includes visits to research organizations, production facilities, and professional studios.
Didactic activities in class are supported by the various occasions for putting in practice what students have learnt in theory.
An example can be seen in:
• the long list of company visits to manufacturing plants of naval sector and related businesses organized each year;
• the practice exercises of physical modelling to support design activities and to integrate 3D modelling;
• the practice exercises of small watercrafts construction applying the most recent techniques of industrial production;
• the opportunities for practising the study of group dynamics through experiences held on board.

SAILING CRUISE TEAMBUILDING
Teambuilding on board of a sailing cruise, allows student to live a new and engaging experience, taking subjects presented in class outside from the usual study environment.
The educational methodology activates a direct process of personal and group growth amplified by the need of “survival” on board.
Boating with classmates, allows students to learn the construction and management mechanism of a team, moreover it allows to acquire the skills needed to understand working dynamics of a working group. Self-perception becomes immediate in conjunction with themes such as trust, collaboration and effective communication. There are individual modalities aiming to create relationships and functional modalities apt to create support relations and trust to create professional and personal efficient relations.
It is about living teambuilding dynamics facing concrete problems that need to be solved in group with the aim of reaching a common goal, of structuring an effective team work, creating a fast and clear communication net and to understand which is the real power of action of a group that can reach goals of growing complexities only when it is cohesive and integrates resources and competences.
Following the sailing cruise, students will attend guided reflection and rationalization moments about the experience and will transfer what learned to the working reality.

PROFESSIONAL OUTCOMES
Students who complete the program will be ready to cover professional roles that differ from those for which they were prepared by their previous training. Roles covered in recent years by graduates from the Specializing Master include: design assistant in professional firms, shipyard production assistant, production manager, quality control manager.
**INTERNSHIP**
The internship is required, lasts three months, and is carried out at leading design studios and shipyards. It enables students to transfer skills acquired during the course to a real-life design or production context and to deal with the world of shipbuilding. The training project to be carried out during the internship is agreed upon by the Politecnico di Milano tutor and the company mentor.

**LOCATION**
The Specializing Master will be conducted at POLI.design, Politecnico di Milano, via Durando 38/A, Milano.

**ADMISSION PROCEDURE**
Admission to the Specializing Master in Yacht design is subject to selection based on an assessment of curriculum vitae and an individual interview.

Maximum number of participants: 30.

Those interested should send their curriculum vitae to formazione@polidesign.net

Candidates living abroad will be able to do a preliminary test on-line before the selection interview.
Design Studios

- A-LAB Marine
- A.Vicelli & C. - A.V.C
- Alberto Mancini Yacht Design
- Aldo Gatti Marine
- Architettura in movimento
- Barcelona Yacht Design, Spain
- BCA Demco Kit
- Biscontini Yacht Design
- Ceccharelli Yacht Design and Eng.
- Cristian Grande
- Design Studio Spadolini
- De Voogt Naval Architects
- Felci Yachts Design
- Francesco Paszkowski Design Srl
- Frers
- Galeazzi Design
- Giga Yacht Design
- Gloss Design
- Guido de Groot Design
- HotLab
- IT One Off
- Italprogetti - Fulvio De Simone
- Ivan Fredriksen Design
- Lazzarin e Pickering Architetti
- Lorenzo Argento
- LSD Architecture
- Luca Brenda Design Studio
- Luca Dini Design
- Massimo Franchini
- Max Design - Massimo Musio Sale
- Nauta Yachts
- Naval Design & consulting
- Nuvolari e Lenard
- Officina Italiana Design
- Omega Architecten B.V.
- Partner ship design, Germany
- Philippa Bränd Yacht
- Pro ship
- Progetti Marcello Vecchi
- Regola Studio di Giorgio Villa
- Ron Holland Design, Canada
- Schnaase Interior Design Consultancy
- Sirga h30
- Stand By Marijuana Radovic
- Studio Architetto Gentilini
- Studio dell'Arch. Matteo Picchio
- Studio Duck Design
- Studio PTD Picco Yacht
- Studio Starkel
- Studio Vafiadis
- Studio3: Plessis Associés, France
- Team for Design
- Timur Bocca Desin studio
- Teo Design di Marco Casali
- Umberto Tagliavini
- Van Oossanen Naval Architects b.v.
- Victory Design
- Yankee Delta Studio
- Zerbinati Design
- Zuccon International Projects

Shipyards (Sailing Boats)

- Adria Sail
- B-Yacht
- Cantieri alto Adriatico
- Cantieri del parco
- CNB France
- Dufur, France
- Gemini Yachts
- Gaff Yachts
- Hanse
- ICE Yacht
- Latini Marine
- Mattia & Cecco
- Maxi Dolphin
- Mylius
- Penini Navi Group
- Proteus Yacht
- Rimini Sails
- SLYDER catamarans
- Solaris Serig
- Southern Wind, South Africa
- Uggè Boattyard
- Vismara Marine
- Wally yacht, Montecarlo

Shipyards (Power Boats)

- Admiral - The Italian Sea Group
- Adria Yacht
- Airon Marine
- Alfa Marine
- Altman Marine, Spain
- Arcadia yachts
- Ares Shipyard, Turkey
- Azimut Yacht
- Baia
- Benetti
- Bertram, Miami (USA)
- C & B Prestige
- C.Boat Yacht Builder srl
- Cantieri Baglietto
- Cantieri di Sarnico
- Cantieri Navi Beconcini
- Cantieri Nord Est
- Cantieri Nord Ovest
- Cantieri Palumbo
- Cantieri Pelagos
- Carnevali Cantieri Nautici
- CNL
- Colombi
- CRN
- Dommaro
- Erre Yacht
- F.lli Rossi
- Feedship, The Netherlands
- Ferretti
- Fipa Group
- Heesen Yachts
- HG Yachts, Turkey
- Intermarine
- Lenci Marine
- Lurssen, Germany
- Maxi Dolphin
- Mondo Marine
- Montecarlo Yacht
- MSC Cruise
- Nuova Jolly Marine
- Palmer Johnson, Montecarlo
- Palmer Johnson, USA
- Pershing
- Riva
- Rodriguez Group, France
- Rossinavi
- Saci
- Sanlorenzo
- Sciallino Yacht
- Sessa Marine
- SNO Yacht
- Tullio Abbate
- Vismara Marine
- Wally - Magic Marine, Tunisia
- Wally yacht, Montecarlo
- Zeugna Yatçılık, Turkey

Service & Satellite Activities

- 3M Italia
- Agusta Westland S.p.A.
- Arredo Nautica
- ATR Group
- Cariboni
- Franchini Workshop
- Geometrie
- Harken
- Master Marine
- North Sails Italia
- Resin System
- Super Yacht International
- UCINA
STEEERING COMMITTEE
Director: Prof. Andrea Ratti
Assistant Director: Prof.ssa Silvia Piardi

FACULTY
The Specializing Master involves a group of figures operating in the academic field, in the applied research sector or who carry out their professional activity in the field of yacht design, or the production of boats and their components.

The list shown includes the names of all the professionals who in one way or another have taken part in the development of program activities. These figures have conducted teaching and training sessions in class; they have overseen practical design activities or work projects; they have held lessons or given reports in the update seminars, or have acted as tutors during internships undertaken at the end of the Master program.

Sergio Abrami Yacht Designer
Sergio Abrami Yacht Designer, SAYD studio
Davide Angeleddu Phd, Politecnico di Milano
Marco Arcuri Naval Engineer, AM Project Management
Lorenzo Argento Yacht Designer, studio LorenzoArgento
Andrea Avaldi Composite Structural Engineer, [AB]structures
Simone Bandini Buti Adjunct Professor, Politecnico di Milano
Giovanni Belgrano Composite Structural Engineer, Pure Design & Engineering

Carlo Bertorello Naval Architect and Researcher, Università di Napoli Federico II
Roberto Biscontini Yacht Designer, Biscontini Yacht design studio
Luca Brenta Yacht Designer, Luca Brentayacht design studio
Giovanni Cariboni Mechanical Engineer, Cariboni–Caritech
Guido Cavalazzi Sail Designer - North Sails Italia
Giovanni Ceccarelli Yacht Designer, Ceccarelli Yacht Design and Engineering
Beardo Cittadini Yacht Designer and Construction Manager
Matteo Costa Yacht designer, Costadesign
Marcello Costanzo Researcher and Engineer, CNR-INSEAN
Alfredo Cofano CEO, Tecnolabels
Arturo Dell’Acqua Bellavitis Professor, Politecnico di Milano
Fulvio De Simoni Yacht Designer, Italprojects S.r.l.
Luca Dini Yacht Designer, Lucadinesign
Umberto Felci Yacht Designer, Felci Yachts
Massimo Figari Adjunct Professor and Researcher, Università di Genova
Fabio Fossati Professor, Politecnico di Milano
Andrea Frabetti Vice President Ferrettigroup Engineering dep
Vittorio Garroni Carbonara Professor, Università di Genova
Aldo Gatti Yacht Designer and Marine Engineer, Studio Aldo Gatti
Alessandro Gherardi Mechanical and Marine Engineer, PowerPlast
Lorenzo Giovanazzi Yacht Designer, Felci Yachts
Massimo Gregori Gregi Yacht Designer and Naval Architect, Yankee Delta
Ron Holland Yacht Designer, Ronhollandsign
Pierpaolo Lazzarini Yacht Designer, Lazzarini design studio
Paolo Lodigiani Yacht Designer, BCA Demco
Enrico Lumini Yacht designer, Hotlab
Claudio Maletto Yacht Designer, Fontana Maletto
Giovanni Manni CEO, ETA Blades

Mauro Micheli Yacht Designer, Officina Italiana Design
Eugenio Moretti Ex-Technical Manager, Cantieri Navali Beconcini
Massimo Musio Sale Adjunct Professor, Università di Genova
Luca Olivari Naval Architect, Olivari Composites Engineering
Paolo Padova Ex-Director of Laboratorio Alllestimenti, Politecnico di Milano
Massimo Paperini Yacht Designer, Duck Design
Clara Pepe Adjunct Professor, Politecnico di Milano
Andrea Petragiani Giancarelli Lawyer, Shipping and Yachting Law
Silvia Piardi Professor, Politecnico di Milano
Lorenzo Pollicardo Marine market expert, Nautica Italiana
Ivana Porfiri Yacht Designer, Porfiri Studio
Alfio Quarteroni Professor, Politecnico di Milano
Mariana Radovich Yacht designer, M2Atelier
Andrea Ratti Professor, Politecnico di Milano
Giuseppe Sfondrini Manager OEM application, Brunwick Marine
Paolo Schito Professor, Politecnico di Milano
Giampaolo Spera CEO, Harken Yacht Equipment Italia
Roberto Starkel Yacht Designer, Studio STARKEL
Maurizio Testuzza Founder and CEO, Adria Yachts
Andrea Valicelli Professor, Università di Chieti
Antonio Vettese Journalist and head editor, Vela&Motore

Davide Zerbinati Yacht Designer and Naval Architect, Zerbinati Design
Gianni Zucchini Yacht Designer and Adjunct Professor, Università di Roma

Seminars conducted
• Additive Manufacturing in campo Navale e Nautico - May 17, 2017, Politecnico di Milano, Campus Bovisa
• Italian Yacht Design Conference - June 16, 2016, Politecnico di Milano
• MYD and POLIMI Sailing Team won the “PAOLO PADOVA Trophy” - September 17-20, 2015, Rimini, Club Nautico
• Seatec 2015 - February 4-6, 2015, Carrara
• The Foiling Week - July 8-10, 2014, Fraglia Vela Malcesine, TFW Forum
• On display projects by students of the XII edition of the Master - October 7 - 18, 2013, Politecnico di Milano, Campus Bovisa, Building 8
• Building a boat?... A cakewalk! - April 6-7, 2013, Politecnico di Milano, Campus Bovisa - Lab. Allestimenti Paolo Padova
• 10 Years of ideas for the Nautical - September 30, 2011, Politecnico di Milano, Campus Bovisa
• America’s Cup Design: Design loop in the planning of racing yachts - May 25, 2006, Politecnico di Milano, Campus Bovisa

Publications developed within the ambits of the Master program
• A. Ratti, “Progettazione e costruzione di imbarcazioni a vela ad alta tecnologia”, atti del corso di aggiornamento, Edispot, Milano, 1998
• F. Fossati, G. Diana, “Principi di funzionamento di una imbarcazione a vela”, Spiegel, Milano, 2000
• A. Ratti, “Materiali e tecniche innovative nel settore nautico”, atti del corso di aggiornamento, Simone Editore, Napoli, 2001
• S. Piardi, “Il design degli spazi abitativi”, Polidesign, Milano, 2002
• M. Musio Sale, “Il Design nautico, DDD, Disegno e design digitale”, POLI.design, Milano, anno 01, n. 3, lug/set 2002
• S. Piardi, A. Ratti, “Progettare e costruire imbarcazioni da di-
porto”, Clup, Milano, 2003


AWARDS

2017
- Winner Young Designer of the Year Award by Oceanco, Thibaud Le Merdy - MYD XV student

2016
- 3rd place Yacht Design Talent Award by Heesen, Thibaud Le Merdy - MYD XV student

2016
- 1st place Diporthesis, ALES by H.J. Choi, A. Ors, M. Schaefer e D. Agapitou - MYD XV students

2016
- 1st place Millennium Yacht Design Award, Guido Valtorta - MYD XII student

2016
- ADI Design Index 2016, Scarlina Merlüss by MYD XII edition

2015
- 2nd place Yacht Design Talent Award by Heesen, Banu Hunler - MYD XIV student

2014
- Winner Young Designer of the Year Award by Oceanco, Timur Bozca - MYD XII student

2014
- XXIII Compasso d’Oro ADI – Targa Giovani, El Niño skiff by Matteo Costa

2012
- 2nd place Lotus prize, Zero Gravity by Aldo Bruno and Angela Petitto
Politecnico di Milano is a scientific-technological university which trains engineers, architects and industrial designers. The University has always focused on the quality and innovation of its teaching and research, developing a fruitful relationship with business and productive world by means of experimental research and technological transfer.

The Design School of Politecnico di Milano is today the biggest international university, both for number of students and professors, for the education of product, communication, intern and fashion designers.

The laboratories – run by the Department of Design – cover an area of around 10,000 m² within the Milan Bovisa campus and, together with the huge network of engineering laboratories, constitute the largest international centre supporting research in the field of design in terms of size, available equipment, and the skills network. Politeca, an integrated documentation system for research in the field of design, is integrated into the laboratories.

POLI.design operates in the field of design acting as an interface between universities, companies, and professional organizations, institutions and bodies. It develops training programmes for young graduates and professionals, as well as training programmes for companies that are closely focussed on innovation. It operates from the perspective of internationalisation, establishing partnerships of purpose with universities, schools, bodies, institutions, enterprises, and companies on a case by case basis.

POLI.design, founded by Politecnico di Milano, has access to the deep reservoir of multidisciplinary skills in the first and most important technical university in Italy. Together with the School of Design and the Department of Design, it forms the Politecnico di Milano Design System, which is a pool of resources, skills, facilities, and laboratories that is among the most important in the world.

Relations with the professional sphere are endorsed by the presence of three of the most important associations of design professionals on the board of POLI.design:

- ADI Association for the Industrial Design
- AIPi Italian Association of Interior Designers
- AIAP Italian Association of Visual Communication Design

SUPPORTERS

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SUPPORTERS OF THE PREVIOUS EDITIONS:

AssoCompositi
Founded in 2005, ASSOCOMPOSITI is the Italian Industry Association for Composite Materials. Its mission is to promote knowledge and use of composite materials in Italy in every possible industrial application and to activate synergies and promote actions at the international level.

Ucina
Ucina is the Italian marine industry association (Unione Nazionale dei Cantieri e delle Industrie Nautiche e Affini) is a non-profit organization for the development and promotion of the boating sector, as well as encouraging knowledge about the sea and boating tourism.

As.Pro.Na.Di
Associazione Progettisti Nautica Diporto
the Association of the Planners of the Nautical one from Diporto, founded 30 years ago with the aim of promoting the profession in Italy, supporting information exchange among colleagues, encouraging education, research and innovation in the field of sailing and representing the category in front of authorities and institution that operate in related sectors.

FIV
The Italian Sailing Federation or Federazione Italiana Vela is an authority related to the sail discipline in Italy and part of the dell’ISAF (International Sailing Federation).
It also takes care of programs and federal activities dealing with promotion, in particular towards youngs; moreover through participation in sailing fairs and big events, FIV struggles to put in contact people with sailing. Another of the objectives of FIV is to educate, the sector of “diporto” and the oceanic activities.

Nautica Italiana
Association of nautical sector affiliated to Fondazione Altagamma

ATENA
Associazione Italiana di Tecnica Navale
CONTACTS

Training Office

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