



University of Zagreb

Faculty of Graphic Arts



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Faculty of Graphic Arts
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STUDY PROGRAM
UNDERGRADUATE PROGRAM
GRADUATE PROGRAM
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LOCATION

www.grf.hr

A WORD FROM THE DEAN

Dear future students,

The aim of studying at the Faculty of Graphic Arts is to enable graduating engineers to become actively involved in new trends of development of graphic technology and design. The passion for innovative communication in all forms and shapes is what drives studying, teaching and research. Graphic communication happens via different media, and students are taught to work on the modeling and design of graphic products, on the development of communicological criteria of graphic design, as well as on the research and optimization of graphic materials. Graphic technology prepares students for an expert and creative broadening of their knowledge, for scientific development and independent work in all domains of graphic art. Following up on this, students acquire skills necessary to run and manage any type of printing system, from the smallest to the medium large and largest, as well as to economize and manage quality within said systems. Our approach to studying and teaching is based on practical work and scientific research. I therefore invite you, dear (future) students, to enroll in the Faculty of Graphic Arts and become actively involved in our community.

*Dean
Diana Milčić, Ph.D., Professor*

FACULTY OF GRAPHIC ARTS

UNIVERSITY OF ZAGREB

The Faculty of Graphic Arts makes part of the group of technical faculties operating within the University of Zagreb. It was founded in 1990, having evolved from the post-secondary School of Graphic Arts, founded in 1958. The post-secondary School of Graphic Arts and the Faculty of Graphic Arts were the first institutions of higher education in the field of graphic technologies in this part of Europe.

The Faculty of Graphic Arts, like every other member of the University of Zagreb, has entirely adapted its new program to that of similar institutions in Europe and the rest of the world, implementing their programs and adapting them to the specificities of the Croatian market. The obligations taken on by the Republic of Croatia in accordance with the Bologna Declaration were completely fulfilled by the Faculty of Graphic Arts, taking into account the rationalization and organization of teaching, the inclusion of students in the teaching process, the teachers' approach and the use of instruments, equipment and other resources. The Bologna process as implemented by the Faculty of Graphic Arts offers variety and a larger selection of students, as well as an incentive to exchange between members of the academic community, not only in Croatia, but in Europe, as well.

STUDY PROGRAM

BASIC PRINCIPLES OF UNIVERSITY STUDIES
ACCORDING TO THE BOLOGNA PROCESS

The study program according to the Bologna process is based on the three-tiered concept of higher education:

UNDERGRADUATE
STUDY

UNDERGRADUATE STUDY OF GRAPHIC TECHNOLOGY
lasting 6 semesters - 180 ECTS credits (three years).
The academic degree received upon completion of the program is Bachelor of Science in Graphic Technology;

GRADUATE
STUDY

GRADUATE STUDY OF GRAPHIC TECHNOLOGY
lasting 4 semesters - 120 ECTS credits (two years).
The academic degree received upon completion of the program is Magister of Science in Graphic Technology;

POSTGRADUATE
DOCTORAL
STUDY

POSTGRADUATE DOCTORAL STUDY OF GRAPHIC ENGINEERING AND GRAPHIC PRODUCT MODELING
lasting *6 semesters - 180 ECTS credits. The academic degree received upon completion of the program is Doctor of Science in Graphic Technology.

The evaluation of acquired knowledge, skills and competencies is based on the continual monitoring of students' activities (attendance and participation in class, practical work, seminars as well as mid-term exams, on the basis of which a student may be exempt from sitting final exams).

*The full-time study program lasts 6 semesters, and the part-time program 10 semesters!

UNDERGRADUATE PROGRAM

COURSE: TECHNICAL-TECHNOLOGICAL

Students of technical and technology-oriented courses master the basics necessary to understand the technical and technological process of creating a graphic product through a series of basic and specific skills and competencies in mathematics, physics, chemistry and computer technology. Specific knowledge and skills are acquired through subjects that make up the core of the program: materials in graphic production, printing forms, reproduction photography, typography, printing, bookbinding, packaging, the organization of graphic production, multimedia communication, marketing and quality control.

COURSE: DESIGN OF PRINTED PRODUCTS

Beside mastering basic subjects mentioned above, students taking the course Graphic Product Design also acquire basic knowledge and skills in visual and graphic arts, the theory of shapes, visual arts practice, original graphics, photography, communicology and visual communication. This course enables students to solve design problems related to different types of graphic products. They acquire knowledge, competencies and skills needed to approach any communication problem via different design methods.

THE GRADING SYSTEM IS
COMPRISED OF FIVE GRADES:

- 5 – excellent
- 4 – very good
- 3 – good
- 2 – sufficient
- 1 – fail

The minimum passing grade is 2 – sufficient

SUBJECTS

UNDERGRADUATE PROGRAM COURSE: TECHNICAL-TECHNOLOGICAL

Mathematics 1
Physics 1
Chemistry 1
Engineering graphics
Informatics 1
Physical training and health protection 1
Visual graphic culture 1
Introduction into printing technology *
Technical mechanics*
Technical/professional English 1
Technical/professional German 1

1

Applied Physics
Applied Chemistry
Probability and statistics
Basis of computers and programming
Printing machines 1
Printing forms 1
Reproduction photography 1
Physical training and health protection 3
Multimedia communications 1
Communicology
Technical/professional English 3
Technical/professional German 3

3

Organization of printing production
Packaging 1
Main printing techniques
Industry and environment
Printing inks
Graphic programming languages
Handbinding of the book
Automata theory and printing machines maintenance.*
Sociology of design

5

Mathematics 2
Physics 2
Chemistry 2
Photographic processes
Technical presentable systems
Physical training and health protection 2
Technical/professional English 2
Technical/professional German 2
Digital multimedia 1
Theory of forms
Visual graphic culture 2
Informatics 2

2

Printing machines 2
Printing forms 2
Typography
Paper
Printing process 1
Reproduction photography 2
Physical training and health protection 4
Technical/professional English 4
Technical/professional German 4
Visual communications
Design of graphic media 1
Optoelectronic systems 1

4

Quality control
Other printing techniques
Marketing 1
Bookbinding 1
Professional practice and the final project *
Basics of microeconomics
Polymer materials
Qualitative research methods of colour reproduction
Composition
Application and investigation of printed materials
Offset printing management *
Handproduction of boxes*
Standardization of the printing forms *

6

UNDERGRADUATE PROGRAM COURSE: DESIGN OF PRINTED PRODUCTS

Mathematics 1
Physics 1
Chemistry 1
Engineering graphics
Visual graphic culture 1
Visual art practice 1
Informatics 1
Physical training and health protection 1
Technical mechanics*
Introduction into printing technology *
Technical/professional English 1
Technical/professional German 1

1

Visual art practice 3
Original graphics 1
Communicology
Printing machines 1
Printing forms 1
Reproduction photography 1
Physical training and health protection 3
Basis of computers and programming
Multimedia communications 1
Technical/professional English 3
Technical/professional German 3
Probability and statistics

3

Original graphics 3
Graphic design 1
Packaging 1
Main printing techniques
Sociology of design
Science of environment and design
Graphic programming languages
Organization of printing production
Printing inks
Automata theory and printing machines maintenance

5

Mathematics 2
Physics 2
Chemistry 2
Visual graphic culture 2
Photographic processes
Theory of forms
Visual art practice 2
Physical training and health protection 2
Technical/professional English 2
Technical/professional German 2
Technical presentable systems
Digital multimedia 1
Informatics 2

2

Visual art practice 4
Original graphics 2
Visual communications
Typography
Paper
Printing process 1
Physical training and health protection 4
Technical/professional English 4
Technical/professional German 4
Printing machines 2
Design of graphic media 1
Optoelectronic systems 1

4

Original graphics 4
Graphic design 2
Printing and design
Applied photography 1
Professional practice and the final project *
Quality control
Other printing techniques
Marketing 1
Bookbinding 1
Qualitative research methods of colour reproduction
Composition
Polymer materials
Application and investigation of printed materials

6

GRADUATE PROGRAM

Upon completion of the undergraduate program of graphic technology, students acquire the right to enroll in the graduate program of graphic technology at the Faculty of Graphic Arts. The conditions for enrollment in other study programs are determined by other institutions.

COURSE: TECHNICAL-TECHNOLOGICAL

The graduate program enables students to achieve expert and creative breadth, academic development and do independent work in all areas of graphical practice. In accordance with that, students are taught to run and manage every type of printing system, from the smallest to the medium, large and extra large, as well as to economize and manage quality within such systems.

TARGETING THROUGH THE FOLLOWING

GRAPHIC TECHNOLOGY,
MULTIMEDIA,
PUBLISHING,
PACKAGING,
GRAPHIC MANAGEMENT

MODULES:

COURSE: DESIGN OF PRINTED PRODUCTS

Students are educated in the modeling and design of graphic products, the development of communicological criteria in graphic design and the testing and optimization of graphic materials.

SUBJECTS

GRADUATE PROGRAM

1ST SEMESTER

Packaging 2
Packaging printing
Marketing 2
Computer typography
Reproduction of the image information
Application of the digital photography in the repro. media
Printing materials in conventional and digital printing processes
Bookbinding 2
Digital printing form
Selected chapters of quality management
Multimedia communications 2
Holography
Basis of the applied photography
Technical editing and run maintenance
WEB design 1
Communicology of graphic design
Applied photography 2
Graphic design 3

2ND SEMESTER

Wrapping
System for the environment management
Business and protective printing
Surface phenomena on printing forms
CTP technology
Computer graphics
Photosensitive copying layers
Ink in digital environment
Automata theory of bthw work flows
Restoration and preservation of paper
Design of printing products
Re-engineering in the printing production

Techniques of the digital photography records
Optical methods of the printing surface investigations
Digital multimedia 2
Mechanical simulations in computer animat.
Optoelectronic systems 2
Design of graphic media 2
Realizations of general solution 2
Packaging and technology 1
WEB design 2
Media communication
Art photography 1
Design and environment
Graphic design 4

3RD SEMESTER

Packaging and environment
Market communications
Business communicology
Graphics of the documents and securities
Digital basis of standards in printing
Introduction into the theory of experimental work
Organization of the scientific and professional work
Construction of the multimedia systems
Broadband network applications
Optimization of the printing system
Control and quality protection in printing production
Development of printing
Packaging and technology 2
Measurement science in printing
Motion graphics
Specific graphic object design
Art photography 2

POSTGRADUATE PROGRAM

Upon completion of their graduate studies and having acquired the degree of Master in Engineering, graphic technology, students wishing to broaden their knowledge or focus it on a specific area of graphic arts have the possibility to enroll in a postgraduate doctoral program.

The first semester is comprised of courses which are based on the teaching of disciplines needed in a scientific approach to the field of graphics. The courses taught at this point are indispensable, but they cannot be unequivocally categorized as belonging to either engineering or the modeling of graphic products.

COURSE: GRAPHIC ENGINEERING

The courses on offer depend on the interest and affinities demonstrated by the students. Emphasis can be placed on graphic materials, computer preparation, printing systems, packaging, bookbinding, multimedia or graphic communication, alongside the exploration of the ecological problems of modern society and the relations of science, society and technology in a graphic-technological context of European and Euro-Atlantic integration processes.

COURSE: GRAPHIC PRODUCT MODELING

This course deals with graphic media and their graphic structure, tolerance and success of single design solutions. It also deals with the theory and methodology of design, the problems of industrial design and the function of design as a medium of communication. It also approaches the modeling of graphic products from an etiological aspect, as well as a part of a media campaign. Special attention is given to the shaping of digital space and user interface.

SUBJECTS

POSTGRADUATE PROGRAM

1ST SEMESTER – SHARED SUBJECTS

Color management in digital printing
Human resources management
Nanotechnology and the environment
Packaging printing
New technologies and the environment
The interaction of electromagnetic radiation with printing surfaces
Modern statistical methods in natural science and technics
Market communications management
Advanced recording processes on printing forms
Information presentation
Quality management
Operational explorations
Qualitative methodology in graphic science
Multimedia systems
Computer typography
The methodology of scientific research work

2ND SEMESTER – GRAPHIC PRODUCT MODELING

Virtual men
The methodology of presenting graphic solutions
Graphic structures
Colorimetric methods in graphic reproduction
Design theory
User interface design
Typography theory
Digital space design
The communicology of graphic communications
The graphic design of media campaigns

3RD, 4TH, 5TH & 6TH SEMESTER RESEARCH + DOCTORAL THESIS

2ND SEMESTER – GRAPHIC ENGINEERING

Picture display models in different media
The aims of packaging
Bookbinding through time
Paper and ecology
The physical principles of non-destructive measurement methods in graphic reproduction
Selected chapters in corrosion and protection of materials
Printing form moistening
The physical and chemical properties of polymeric materials
Polymerization processes
Communications and data transfer
Digital printing forms protection
Packaging materials
Paper – physical testing
Non-destructive measurement methods in graphic technology
Methods for researching the interaction of materials in printing
Digital normization of graphic preparation
Graphic web technologies
The physical and chemical properties of dyeing agents
Society, science and technology
Multimedia web technologies
Electrochemical methods in graphic technology
Advanced printing systems
Multimedia communication
Multimedia broadband networks
Computer imaging

DEPARTMENTS

DEPARTMENTS ARE BASIC ORGANIZATIONAL UNITS OF
TEACHING AND SCIENTIFIC WORK AT THE FACULTY

- > DEPARTMENT OF MATHEMATICS
- > DEPARTMENT OF PHYSICS IN GRAPHIC TECHNOLOGY
- > DEPARTMENT OF CHEMISTRY IN GRAPHIC TECHNOLOGY
- > DEPARTMENT OF LIBERAL ARTS
- > DEPARTMENT OF ENVIRONMENTAL PROTECTION
- > DEPARTMENT OF GRAPHIC ENGINEERING AND MECHANICS
- > DEPARTMENT OF PRINT TYPE AND COMPUTERS
- > DEPARTMENT OF PHOTOGRAPHIC PROCESSE
- > DEPARTMENT OF REPRODUCTIVE PHOTOGRAPHY
- > DEPARTMENT OF PRINTING FORMS
- > DEPARTMENT OF MULTIMEDIA AND INFORMATION SYSTEM
- > DEPARTMENT OF PRINTING
- > DEPARTMENT OF PACKAGING, BOOKBINDING AND DESIGN
- > DEPARTMENT OF MATERIALS IN GRAPHIC TECHNOLOGY
- > DEPARTMENT OF ECONOMICS
- > DEPARTMENT OF GRAPHIC MACHINERY
- > DEPARTMENT OF VISUAL ARTS AND GRAPHIC DESIGN
- > DEPARTMENT OF COMMUNICOLOGY
- > DEPARTMENT OF APPLIED AND ART PHOTOGRAPHY

The aims and duties of a

- department are the following:
- + development of the undergraduate, graduate and doctoral programs in the field of graphic technology;
 - + outlining teaching curricula for courses taught within the department;
 - + organization of symposiums, meetings, seminars and presentations in the field of graphic technology;
 - + cooperation with similar institutions;
 - + realization of scientific and expert projects in the field of graphic technology.

The Faculty of Graphic Arts organizes the expert symposium “Blaž Baromić” and publishes the magazine Acta Graphica. These activities create opportunities for further education and for publishing academic works.

BLAŽ BAROMIĆ

The intention of the Conference is to present the newest achievements in the area of graphic technology, design and communication as well as in accompanied scientific areas by means of investigation, development and application. The aim is to stimulate the exchange of ideas, knowledge and experience in international frames, including contextually the scientific and professional problems connected to the mentioned areas. The scientific achievements which are connected with the investigation of the history of printing, scripts and books are presented at the Conference.

ACTA GRAPHICA

JOURNAL FOR PRINTING SCIENCE
AND GRAPHIC COMMUNICATIONS

ACTA GRAPHICA journal is published quarterly by Faculty of Graphic Arts, University of Zagreb, Croatia.

ACTA GRAPHICA is an international double blind peer-reviewed journal. ACTA GRAPHICA journal publishes scientific research papers, technical papers, reviews, short and preliminary communications, special features and other news from the field of graphical technology, printing and engineering, graphical communication and design, as well as from all basic and applied science fields relevant for graphic technology and arts. The principal intention of the journal is to keep up with recent research results in the entire area of printing science, graphic design and communications.

STUDENTS

THE STUDENT'S CENTER

The Student's Center of the University of Zagreb, <http://www.sczg.hr>, is located on Savska Street 25 and provides adequate lodgings, quality nourishment, various cultural, entertainment and sports activities, additional educational and IT-related learning opportunities, as well as temporary student employment.

STUDENT CARD "X"

The student card, the so-called X-card, is an identity card which serves to confirm student status. Only regular university students have the right to obtain an X-card. The X-card entitles students to a variety of rights and discounts (meals in student restaurants, discounts on public transportation within city limits, discounted access to cultural and economic institutions, etc.).

SPORTS ACTIVITIES

Sports activities are articulated through recreation and competitions. Fitness centers "Ante Starčević", "Cvjetno naselje" and "Stjepan Radić" are all part of the recreational activities group.

ACCOMMODATION IN STUDENT DORMITORIES

"Stjepan Radić", Jarunska 2
"Cvjetno naselje", Odranska 8
"Dr. Ante Starčević", Ljubljanska avenija 2
"Laščina", Laščinska 32
"Ivan Meštrović", Trg žrtava fašizma 11

<http://www.sczg.hr>

CULTURE

The Student's Center in Zagreb, especially the building complex in Savska Street 25, has maintained an important position on Zagreb's cultural scene for 50 years. Within the Center there operate the theater Teatar &TD, the Musical Salon, the Multimedia Center, the Student Center's Gallery, a cinema and the Student Center's Club with a cyber caffe.

On the premises of the student dormitory "Stjepan Radić" operates the cultural center SKUC with an auditorium, a cinema and a concert hall. Each of these spaces offers a rich variety of quality cultural and educational events in which the students can participate. The program "Student Center Culture" features annual projects such as the No Jazz Festival, the ZgEtno Festival of etno culture, the Žedno uho music festival and the Culture Fair.

In October 2007 the Internet radio station Radio SC was launched, which broadcasts a daily program created entirely by students.

All these projects have allowed the Student's Center to become a platform of sorts for the artistic and cultural expression of all interested students. Everything of interest can be found on the web portal of the Student's Center <http://www.sczg.hr>.

PUBLIC TRANSPORTATION - CITY OF ZAGREB

regular students are entitled to free* transportation!

*By the decision of the City Administration, regular students attending faculties, academies, colleges and vocational schools, as well as other institutions of higher education in the City of Zagreb, are entitled to free transportation, provided that they carry a valid annual pass issued by ZET (public transportation service).



INTERNATIONAL COOPERATION

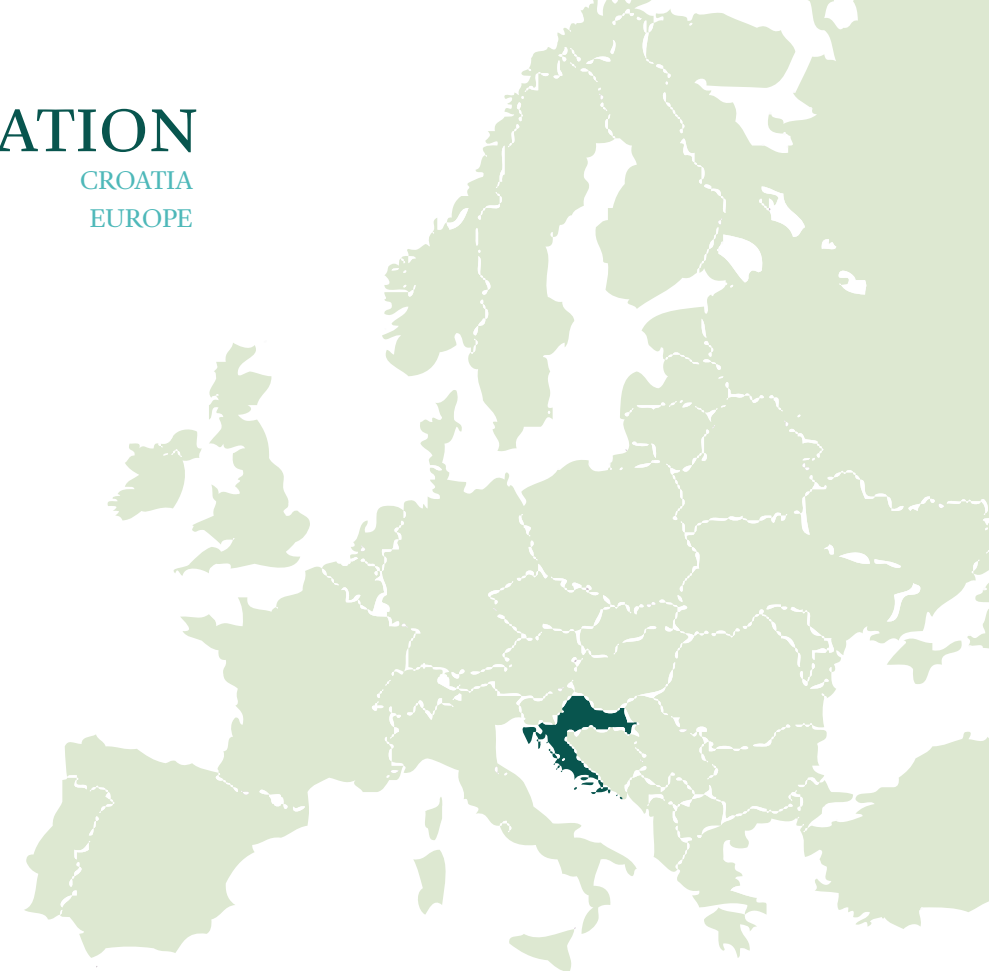
Cooperation with similar institutions of higher education and related institutes through international projects, participation of faculty staff in European projects (FP6, FP7, COST, ex-Marie Curie Project, etc.), teaching and research staff and student exchange programs, research cooperation, faculty staff work visits to foreign institutions, cooperation in the preparation of international conferences and seminars, expert and scientific lectures of invited foreign lecturers, etc.

International cooperation at the Faculty is articulated through the work of the Coordinator of International Cooperation, and of the Expert Consultant on International Cooperation. Beside the before mentioned activities, they keep up regular communication with the Office for International Cooperation of the University of Zagreb, and their colleagues working at other Faculties, disseminate information pertaining to international cooperation, scholarships and study grants to the teaching staff and students of the Faculty, help produce documentation for international projects, help in applying to mobility programs as well as international scientific and expert scholarships.

It is also important to mention the international activities of the students of the Faculty of Graphic Arts, who participate in international student conferences and seminars with scientific paper presentations and lectures, as well as in photographic exhibitions (Printing Future Days, PDP Convention, NONSTOP Student Seminar, CREATE...), not to forget active participation in the work of international student associations, such as IAESTE and BEST.

LOCATION

CROATIA
EUROPE

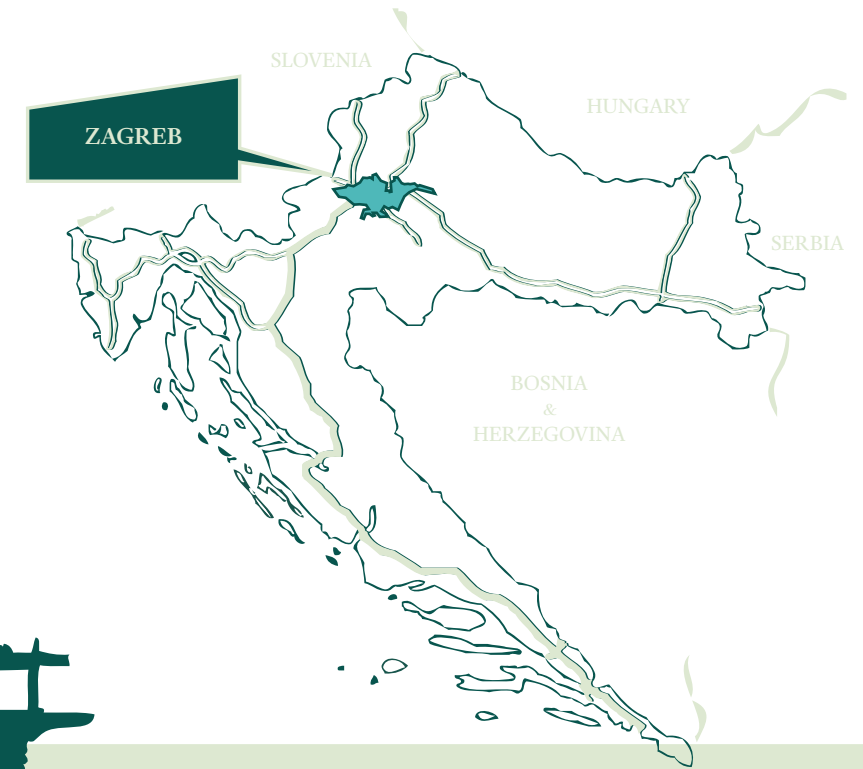


Croatia is located between South-Central Europe and Middle Europe, at the crossroads of the Pannonian Plain, the Balkans, and the Mediterranean Sea. Its shape resembles that of a crescent or a horseshoe, which flanks its neighbours Serbia, Bosnia and Herzegovina and Montenegro. To the north lie Slovenia and Hungary; Italy lies across the Adriatic Sea. Its mainland territory is split in two non-contiguous parts by the short coastline of Bosnia and Herzegovina around Neum. Its capital (and largest city) is Zagreb.

ZAGREB

Zagreb is an old Central European city. It is situated on the intersection of important traffic routes between the Adriatic coast and Central Europe. It is also a business and university center, a city of culture, art and entertainment. Zagreb offers its guests the Baroque atmosphere of the Old City, picturesque open markets, squares and delicious local cuisine. Zagreb is a city of green parks and walkways, with numerous weekend resorts in its beautiful surroundings. Despite the rapid growth of industry and traffic, it has maintained its particular beauty and relaxed atmosphere, making it a true city on a man's scale.

Zagreb is the capital city of the Republic of Croatia and the largest city in Croatia in terms of population numbers. Historically, the city grew out of two towns, Gradec and Kaptol, overlooking each other on two neighboring hills, which make up the historical center of today's Zagreb.



ESSENTIAL INFORMATIONS

NOTES

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GRAPHIC ARTS

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Student administration

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University of Zagreb

Faculty of Graphic Arts

