

AQUARIUM PULA AND
MARINE EDUCATIONAL CENTER

Fort Verudela
Verudela bb, 52 100 Pula
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The educational program offer in the Aquarium

Contents

- Preschool and school programs p. 2
- Program descriptions and prices for preschool and school children until 5th grade p.3
- Program descriptions and prices for school children after 6th grade p.5
- Gastronomic offer for preschool and school children p.8
- Reservations and helpful information p. 9

Note:

Each year from November 1st till April 1st we offer a 20% discount for all preschool and school programs.

The theatre play is only performed between November 1st and May 1st.

Ticket prices are subject to changes during the season.

1 Preschool and school programs
(refers to preschool and school programs from Croatia)

Extracurricular programs have been conducted since 2003.

INFRASTRUCTURE

At the first floor of fort Verudela there are two rooms size 45 m² which have turned into chemical-biological practicum with flowing sea water, with capacity for around 30 students. They have been additionally equipped with a projector, screen, Internet-ready computer, blackboard, fire extinguisher and a fridge. Near the practicum there is a sanitary grid. For lectures and film projections there is a room with 50 seats and a large projecting screen size 280x210cm. Field work is performed on the boat, which is located in a little sea port called "Bunarina", which is a ten minutes' walk from the Aquarium. Various simple meals are being offered on the summer terrace "Ribnjak" and/or on the first floor of the fort in the winter "K.u.K." canteen.

THE AQUARIUM EDUCATIONAL GROUP

Dr. hab. Milena Mičić, oceanologist

Karin Gobić Medica, dipl. ing. biol.

Aleksandra Marija Bel, mag. farm.

Merima Salihović, Igor Cukon, and Alen Krejović, guides

Students from the "Juraj Dobrila" university in Pula, Education of teachers and pedagogues division

1.1 Program descriptions and prices for preschool and school children up to the 5th grade

1.1.1 Basic contents description

Contents

| | | |
|---|---|--|
| Touring the aquarium with expert guidance | The organisms have been placed in around fifty pools with flowing sea water with between 200 and 40 000 liters. The entire installation contains some 80 kinds of fish and 100 kinds of non-vertebrea organisms. The ground floor of the fort has a display of the representatives of North-Adriatic plant and animal life. On the first floor there is the Sea turtle recuperation center, South-Adriatic organisms, and fresh- and salt-water tropical fish. With the aid of specialized guidance, visitors are given insight into the main characteristics of each organism, their behaviour patterns, relationships, and many other interesting facts regarding their multiplication and habitats. If supervised by a guide, it is possible to touch a starfish, sea cucumber, crab, uncover the fish which are hidden in the sandy bottom, and spot the virtually invisible mimicrobial animals. | |
| Playroom (in the open air) | There are various sea-related educational games: - Memory (excellent for recognizing and naming animals) - Puzzle (motorics and animal recognition exercises) - Maze (animals are connected with their relatives) - High and low tides (getting to know the habitat during the tides) | |
| Sea in a theater play (a play) | <p>Sea Horse Romance The secret of falling in love and multiplication of protected and rare kinds of fish.</p> <p>The Adventures of Sea Inhabitants (kindergarten children only) <u>Žarnjak the Annemone,</u> <u>Mekušac the Cuttlefish,</u> <u>Člankonožac the Hermit Crab</u> and <u>Bodljikaš the Starfish</u> introduce you to their family members.</p> | <p><u>Hermit Crab Pagi and Adamsija the Annemone</u> Even though they belong to entirely different species, they live together, ie., in symbiosis. Instead of arguing of fighting for power, they help each other in surviving.</p> <p>Give Me One Reason Why I Shouldn't Eat You? Through laughter and a interactive show, the children are able to see the characteristics and differences between teleost and cartilage fish.</p> |
| Biological-chemical workshop | The basic purpose of the workshops is to introduce some basic chemical and biological parameters, such as salinity, temperature and pH value, micro- and macro-constituents, as well as determining various sea organisms from a sample collected in the habitat belonging to seagrasses, with emphasis on the food chain. | |

1.1.2

Prices for basic contents

| BASIC CONTENTS | PROGRAM DURATION | PRICE - KINDERGARTEN | PRICE - SCHOOL |
|------------------------------|------------------|----------------------|----------------|
| touring the aquarium | 1 h | 20 kn | 30 kn |
| theatre play | 30-40 min | 15 kn | 15 kn |
| biological-chemical workshop | 45 min | 15 kn | 20 kn |
| boat (12 person maximum) | 45min-1h | N/A | 40 kn |
| playroom | 20 min | 5 kn | 5 kn |

Note:

1. Ticket or program price includes VAT, insurance and boarding on and off the boat.
2. For groups of more than 20 visitors we allow an optional discount of 20% for touring the aquarium (expert guide not included).

1.1.3

Prices for the programs in the aquarium

| AQUARIUM PROGRAM | CONTENTS | PROGRAM DURATION | PRICE KINDERGARTEN | PRICE SCHOOL |
|------------------|--------------------------------|---------------------------------|--------------------|----------------|
| PROGRAM A | - touring the aquarium | 1 h | 20 kn | 30 kn |
| | - biological-chemical workshop | 45 min 1:45 hrs | 15 kn 40 kn | 20 kn 50 kn |
| PROGRAM B | - touring the aquarium | 1h | 20 kn | 30 kn |
| | - theater play | 30-40 min 1:40 hrs | 15 kn 35 kn | 15 kn 45 kn |
| PROGRAM C | - touring the aquarium | 1h | | 30 kn |
| | - biological-chemical workshop | 45 min 30-40 min 2:30 hrs | | 20 kn 40 kn |
| | - boat (12 person maximum) | | | 95 kn |

1.2 Program descriptions and prices for school children 6th to 8th grades and high school students

1.2.1 Basic contents descriptions

Contents

| | |
|--|--|
| <p>Touring the aquarium with expert guidance</p> | <p>The organisms have been placed in around fifty pools with flowing sea water with between 200 and 40 000 liters. The entire installation contains some 80 kinds of fish and 100 kinds of non-vertebrae organisms. The ground floor of the fort has a display of the representatives of North-Adriatic plant and animal life. On the first floor there is the Sea turtle recuperation center, South-Adriatic organisms, and fresh- and salt-water tropical fish. With the aid of specialized guidance, visitors are given insight into the main characteristics of each organism, their behaviour patterns, relationships, and many other interesting facts regarding their multiplication and habitats. If supervised by a guide, it is possible to touch a starfish, sea cucumber, crab, uncover the fish which are hidden in the sandy bottom, and spot the virtually invisible mimirious animals.</p> |
| <p>Lectures</p> | <ul style="list-style-type: none"> - Introducing sea environment - Non-vertebrae organisms: systematics and adjustments - The fish and their adjustments - Dangerous and poisonous sea animals - Man's natural influence on the processes and ecological relationships in the Adriatic sea |
| <p>Boat ride into the open sea</p> | <p>The boat leads to an area which is rich in biological materials. Chemical and physical parameters (temperature, salinity, pH of the sea, sea transparency) are determined during the trip. The direction of wave movement, currents, and the wind are determined. Program attendants are acquainted with the basics of fishing. Samples are collected by raising the fishing nets, or plankton nets, and/or by breath-diving. The organisms are then determined and analyzed in terms of their biology.</p> <p>Note: maximum boat capacity is 12 persons. The announcement of the field program suggests that it is good to check out the weather forecast for the Pula aquatorium. (http://meteo.hr/)</p> |

1.2.1.1 Suggestion of subjects for choosing in the biological or chemical and physical workshops

| | | |
|-------------|---|--|
| 6th grade | <p>Biological workshop</p> <ul style="list-style-type: none"> - sea habitats (low and high tide areas, sea bottom, open sea) with the emphasis on the adjustments made by the sea animals | <p>Physical and chemical workshop</p> <ul style="list-style-type: none"> - measuring the basic parameters of sea water (salinity, temperature, pH) - getting to know the basic units and concepts of physical chemistry (weighing, solutions, surface tension) |
| 7th grade | <ul style="list-style-type: none"> - biological characteristics of various non-vertebrae groups - dissectioning and comparative analysis of teleost and cartilage fish | <ul style="list-style-type: none"> - determining density, salinity and temperature of sea water with regards to sea currents - sea water composition with emphasis on chemical elements and compounds such as oxygen, nitrogen, chlorine, and phosphates - introducing the concepts of force, pressure, and energy, followed by their application in the sea |
| high school | <ul style="list-style-type: none"> - dissectioning biological materials (from sponges to fish) - analyzing the anatomy of sea organisms in terms of their biological distinctive features, way of feeding, and multiplication - taking blood samples from the fish and colouring the blood cells - sampling the sediments and materials collected in the meadow habitat of seagrasses | <p>Introducing the sea chemistry</p> <ul style="list-style-type: none"> - basic chemical parameters with characteristic diagrams and their determination in sea water - micro- and macro-constituents, their determination and time of staying in the sea - nitrogen, carbon, and phosphorus cycle - adjustments of sea organisms to a salty environment |

1.2.2 Basic contents prices

| BASIC CONTENTS | PROGRAM DURATION | PRICE |
|---|------------------|-------|
| touring the aquarium | 1 h | 30 kn |
| biological and/or physical and chemical workshops | 45 min | 20 kn |
| boat (12 person maximum) | 45 min | 40 kn |
| lectures | 40 min | 15 kn |

Note:

1. The ticket or program price includes VAT, insurance and boarding on and off the boat.
2. For groups of more than 20 visitors we allow an optional discount of 20% for touring the aquarium (expert guide not included).

1.2.3 Prices of programs in the aquarium

| PROGRAMS IN THE AQUARIUM | CONTENTS | PROGRAM DURATION | PRICE |
|--------------------------|---|------------------|--------|
| PROGRAM A | - touring the aquarium | 1h | 30 kn |
| | - biological or physical and chemical workshops | 45 min | 20 kn |
| | | 1:45 hrs | 50 kn |
| PROGRAM B | - touring the aquarium | 1 h | 30 kn |
| | - lectures | 30-40 min | 15 kn |
| | | 1:40 hrs | 45 kn |
| PROGRAM C | - touring the aquarium | 1 h | 30 kn |
| | - biological or physical and chemical workshops | 45 min | 20 kn |
| | - boat (12 person maximum) | 1h | 40 kn |
| | | 45 min | 15 kn |
| | - lectures | 3:30 hrs | 105 kn |

1.3. Gastronomic offer for preschool and school groups

ARRANGED MENUS FOR ORGANIZED GROUPS

| | |
|---|-------------------|
| MEAT MENU I Grilled chicken Grilled vegetables or French fries | 40 kn per serving |
| MEAT MENU II Kebab French fries | 45 kn per serving |
| FISH MENU I Grilled blue fish Grilled vegetables or mangel | 50 kn per serving |
| FISH MENU II II class fish Grilled vegetables | 50 kn per serving |
| DAILY MEAT MENU Minced meat French fries or grilled vegetables Salad | 60 kn per serving |
| DAILY FISH MENU II class fish Grilled vegetables or mangel Salad | 60 kn per serving |

Note:

- Maximum terrace and/or canteen capacity is 50 persons
- Group guides are obligated to bear the cost of their food and drinks on their own
- There are no individual orders; it is only possible to choose one to two menus per group

2 Reservations and helpful information

WORK HOURS

May: 10:00 am - 6:00 pm

June - August: 9:00 am - 10:00 pm

September: 10:00 am - 6:00 pm

October - April: 10:00 am - 4:00 pm

Closed: December 25th and January 1st

Note: Group programs are held independent of our work hours from Monday to Saturday.

HOW TO MAKE A RESERVATION

Phone numbers:

00385/52 381 402

00385/52 381 403

00385/91 1381 415

Fax:

00385/52 381 404

e-mail: infos@aquarium.hr, milena.micic@aquarium.hr

In order to make a reservation, you need to prepare the following:

1. name of program or subject on offer
2. time and date of arrival
3. payment plan
4. your information, ie., e-mail address, phone and fax numbers

PAYMENT

Payments can be made in cash, by tender or receipt, or on giro account:

AQUARIUM PULA, (Zagrebačka banka d.d. 2360000-1101162470)

Note: if you are not paying in cash or if you require an R1 receipt, please provide us with the following information: name of legal subject or business, address and registration number

HOW TO CANCEL A VISIT OR COOPERATION

Please cancel your agreement and reservation as soon as possible via phone or e-mail

ACCOMPANYING

Preschool and school groups must be accompanied. Group guides are obligated to take care of their students during the tour of the aquarium or the duration of our programs. Guides are entitled to free admittance into the aquarium.