

## Informatics syllabus

Information society needs human resources that have applicable knowledge in the field of informatics and computer science. The Informatics Programme offers needed skills in information and communication technologies, infrastructure and associated services.

The Informatics Programme is a short-cycle, practically oriented higher education programme lasting 2 years. It is a 120 credit point programme according to the European Credit Transfer System (ECTS), reaching level 5B in International Standard Classification of Education (ISCED). The completion of course requirements, practical training requirements, and defence of a diploma thesis lead to an engineering diploma and title.

Higher Vocational College of School Centre Nova Gorica offers excellent study conditions and modern equipment in school lecture rooms and laboratories, as well as in the registered companies providing on-the-job training. Lectures, practical classes (seminars and laboratory exercises) and on-the-job training are divided in equal parts, so less than one third of classes are held in lecture rooms.

Our graduates are trained for immediate work in different companies and other institutions that are in any way connected with the field of informatics and computer science. They are able to adapt to the most diverse needs and demands of the information society.

### Admission Requirements

Anyone who has completed upper-secondary school education (i.e. ISCED level 3A or 3B) can enrol in a Higher Vocational College programme.

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MODULE/course/other	Compulsory/ Elective	Year	Number of hours				Total student load	CP
			L	S	LE	Total hours		
COMMUNICATIONS IN ENGINEERING	Compulsory	1	120	72	48	240	600	20
English terminology for information science	Compulsory	1	48	36	-	84	180	6

Business communications and management	Compulsory	1	48	36	-	84	180	6
Computer and information science	Compulsory	1	24	-	48	72	150	5
Practical training – Communications in engineering	Compulsory	1	-	-	-	-	90	3
<b>NETWORK SETUP AND CONFIGURATION</b>	<b>Compulsory</b>	<b>1</b>	<b>120</b>	<b>-</b>	<b>72</b>	<b>192</b>	<b>660</b>	<b>22</b>
Operating systems I	Compulsory	1	24	-	24	48	120	4
Basics of computer system structure and operation	Compulsory	1	48	-	24	72	180	6
Computer communications and networks I	Compulsory	1	48	-	24	72	180	6
Practical training – Setup and configuration of networks	Compulsory	1	-	-	-	-	190	6
<b>PROGRAM CODING</b>	<b>Compulsory</b>	<b>1</b>	<b>72</b>	<b>-</b>	<b>96</b>	<b>168</b>	<b>540</b>	<b>18</b>
Programming I	Compulsory	1	36	-	48	84	210	7
Databases I	Compulsory	1	36	-	48	84	210	7
Practical training – Program coding	Compulsory	1	-	-	-	-	120	4

MODULE/course/other	Compulsory/ Elective	Year	Number of hours				Total student load	CP
			L	S	LE	Total hours		
ECONOMICS BASICS	Compulsory	2	48	24	24	96	235	8
Company economics	Compulsory	2	48	24	24	96	180	6
Practical training – Economics Basics	Compulsory	2	-	-	-	-	55	2
SYSTEM ADMINISTRATION	Elective	2	48	-	96	144	415	15
Maintenance of computer software systems	Elective	2	24	-	48	84	150	5
Operating systems II	Elective	2	24	-	48	84	150	5
Practical training – System administration	Elective	2	-	-	-	-	115	4
DATA-NETWORK MANAGEMENT	Elective	2	72	-	72	144	415	14
Computer communications and networks II	Elective	2	36	-	36	72	150	5
Security and protection	Elective	2	36	-	36	72	150	5
Practical training – Data network management	Elective	2	-	-	-	-	115	4
DEVELOPMENT OF APPLICATION PROGRAMS	Elective	2	60	-	48	144	415	14

Programming II	Elective	2	36	-	48	48	180	6
Development of application programs	Elective	2	24	-	36	60	120	4
Practical training – Development of application programs	Elective	2	-	-	-	-	115	4

MODULE/course/other	Compulsory/ Elective	Year	Number of hours				Total student load	CP
			L	S	LE	Total		
PLANNING AND DEVELOPMENT OF INFORMATION SYSTEMS	Elective	2	72	-	72	144	415	14
Databases II	Elective	2	36	-	48	84	180	6
Information systems	Elective	2	36	-	24	60	120	4
Practical training – Planning and development of information systems	Elective	2	-	-	-	-	115	4
DEVELOPMENT AND MAINTENANCE OF WEB PRESENTATIONS	Elective	2	60	-	84	144	415	14
Designing web pages	Elective	2	24	-	48	72	150	5
Electronic business	Elective	2	36	-	36	72	150	5
Practical training – Development and maintenance of web presentations	Elective	2	-	-	-	-	115	4

DATA NETWORKS	Elective	2	72	-	72	144	415	14
Communication technologies and services	Elective	2	24	-	48	72	150	5
Computerized processes	Elective	2	36	-	36	72	150	5
Practical training – Database networks	Elective	2	-	-	-		115	4
MULTIMEDIA	Elective	2	36	-	36	72	150	
ONE ELECTIVE	Elective	2	-	-	-	72	150	5
DIPLOMA THESIS	Elective	2	-	-	-	-	170	5*
CREDIT POINT TOTAL	Elective							120

Notes:

\* - 5 additional credit points are acquired within Practical Training

Abbreviations:

LC – lectures

S – seminars

LE – laboratory exercises

CP – European Credit Transfer System (ECTS) credit points