

Višja strokovna šola Šolski center Nova Gorica – Higher Vocational College of School Centre Nova Gorica

Who are we and what do we do?

Higher Vocational College of School Centre Nova Gorica means:

- short-cycle, **practically (vocationally) oriented** higher education programmes lasting **2 years**,
- **120 credit point programmes** (in total) according to the European Credit Transfer System (ECTS), reaching **level 5B** in International Standard Classification of Education (ISCED),
- **excellent study conditions** and **modern equipment** in school lecture rooms and laboratories, as well as in the registered companies providing on-the-job training,
- **usefully-driven study**; 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,
- **updated and useful engineering skills and knowledge**,
- completion of course requirements, practical training requirements, and defence of a diploma thesis, lead to **an engineering diploma and title**,
- assessment is carried out by written exams, oral exams, partial exams, written seminar work and project work,
- **significantly enhanced employability of graduates** due to the close interaction between study processes at school and in-company training.

Our programmes:

Informatics – the information power

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.

Informatics syllabus

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
NETWORK SETUP AND CONFIGURATION	Compulsory	1	120	-	72	192	660	22
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
PROGRAM CODING	Compulsory	1	72	-	96	168	540	18
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 used: LC – lectures, S – seminars, LE – laboratory exercises, CP – European Credit Transfer System (ECTS) credit points.

Mechatronics – the synergy of techniques

Companies need engineers with knowledge of **designing, elaboration** and **maintenance** of different **automated systems**, in which elements of informatics, mechanics, mechanical engineering and electronics are included. Mechatronics Programme with the interdisciplinary study of electronics, mechanical engineering and computer science ensures that **knowledge from different technical fields and its practical application are pooled**.

Mechatronics syllabus

MODULE/COURSE/other	Compulsory/ Elective	Year	Number of hours				Total student load	CP
			L	S	LE	Total		
Communications in engineering	Compulsory	1.	120	72	48	90	570	20
English terminology for Mechatronics	Compulsory	1.	48	36	-	84	180	6
Business communication and management	Compulsory	1.	48	36	-	84	180	6
Computing and informatics	Compulsory	1.	24	-	48	72	120	5
Practical training – communications in engineering	Compulsory	1.	-	-	-	90	90	3
Mechatronics basics	Compulsory	1.	120	12	48	114	540	20
Basics of mechanical engineering	Compulsory	1.	42	-	24	66	150	6
Basics of electrical engineering	Compulsory	1.	42	-	24	66	150	6
Sustainable development	Compulsory	1.	36	12	-	48	120	4
Practical training- mechatronics basics	Compulsory	1.	-	-	-	120	120	4
Mechatronics 1	Compulsory	1.	84	-	96	180	546	20
Mechatronics systems 1	Compulsory	1.	42	-	48	90	178	7
Measurements	Compulsory	1.	42	-	48	90	178	7
Practical training -	Compulsory	1.	-	-	-	190	190	6

MODULE/COURSE/other	Compulsory/ Elective	Year	Number of hours				Total student load	CP
			L	S	LE	Total		
Mechatronics 1								
Economics basics	Compulsory	2.	48	12	24	84	240	8
Business economics	Compulsory	2.	48	12	24	84	180	6
Practical training – economics basics	Compulsory	2.	-	-	-	60	60	2

MODULE/COURSE/other	Compulsory /Elective	Year	Number of hours				Total student load	CP
			L	S	LE	Total		
Mechatronics 2	Compulsory	2.	108	24	96	228	604	21
Mechatronics systems 2	Compulsory	2.	36	-	48	84	156	6
Technical regulations and design	Compulsory	2.	36	24	12	72	144	5
Communication technologies and services	Compulsory	2.	36	-	36	72	144	5
Practical training - Mechatronics 2	Compulsory	2.	-	-	-	160	160	5
Automation	Compulsory	2.	72	-	72	144	468	16
Programming in automation	Elective	2.	36	-	36	72	144	5
Technological processes	Elective	2.	36	-	36	72	144	5
Practical training – Automation	Elective	2.	-	-	-	180	180	6
Robotics	Elective	2.	72	-	72	144	468	16
Robotic systems 1	Elective	2.	36	-	36	72	144	5
Technological processes	Elective	2.	36	-	36	72	144	5
Practical training - Robotics	Elective	2.	-	-	-	180	180	6

MODULE/COURSE/other	Compulsory /Elective	Year	Number of hours				Total student load	CP
			L	S	LE	Total		
Production systems	Elective	2.	72	-	72	144	468	16
Computer aided technology	Elective	2.	36	-	36	72	144	5
Technological processes	Elective	2.	36	-	36	72	144	5
Practical training – Production systems	Elective	2.	-	-	-	180	180	6
Programming in automation	Elective	2.	36	-	36	72	144	5
Robotic systems 1	Elective	2.	36	-	36	72	144	5
Computer aided technology	Elective	2.	36	-	36	72	144	5
Development of application programs	Elective	2.	36	-	36	72	144	5
Electronics in mechatronics	Elective	2.	36	-	36	72	144	5
Multimedia	Elective	2.	36	-	36	72	144	5
Drives and mechanisms	Elective	2.	36	-	36	72	144	5

MODULE/COURSE/other	Compulsory /Elective	Year	Number of hours				Total student load	CP
			L	S	LE	Total		
Logistics mechatronics systems	Elective	2.	36	-	36	72	144	5
Risk management in engineering	Elective	2.	36	-	36	72	144	5
One elective	Elective	2.					150	5
Diploma thesis	Compulsory							5*

Notes

* - 5 additional credit points are acquired within Practical Training

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Countryside and Landscape Management - sustainable rural development

In addition to livestock farming, wine production, agriculture and other **classical activities in the countryside**, we need also **additional activities for the existence, development and well-being**. Tourism and ecology can be part of those activities. All of this is subjected to **business opportunities**. In the Countryside and Landscape Management Programme we provide studies in all the previously mentioned areas.

Countryside and Landscape Management syllabus

MODULE/course/other	Compulsory /Elective	Year	Number of hours			Total hours	CP
			L	S	LE		
Business and Management	Compulsory	1					12
Business Communication and Management	Compulsory	1	42	6	24	72	6
Economics and Business Management	Compulsory	1	42	6	24	72	6
COMMUNICATION AND INFORMATICS	Compulsory	1					9
English Terminology for Agriculture	Compulsory	1	30	0	30	60	5
Informatics and Statistics	Compulsory	1	18	6	24	48	4
BUSINESS ORGANIZATION AND MANAGEMENT	Compulsory	2					15
Entrepreneurship and Marketing	Compulsory	2	48	6	48	102	7
Business Organization and Management	Compulsory	2	60	6	48	114	8
PLANT PRODUCTION MANAGEMENT	Elective	1 / 2					15
Farming and Gardening Management	Elective	1 / 2	60	6	48	114	8
Fruit-Cultivation and Wine-Production Management	Elective	1 / 2	64	6	42	102	7
PLANT PROTECTION	Elective	1 / 2					15
Phytopharmaceutical Plant Protection	Elective	1 / 2	60	6	48	114	8
Cultivation and Application of Useful Organisms	Elective	1 / 2	54	6	42	102	7

MODULE/course/other	Compulsory /Elective	Year	Number of hours			Total hours	CP
			L	S	LE		
ANIMAL PRODUCTION MANAGEMENT	Elective	1 / 2					15
Livestock Production Management	Elective	1 / 2	60	6	48	114	8
Domestic Animal Health Care	Elective	1 / 2	54	6	42	102	7
COUNTRYSIDE TOURISM AND SPORTS	Elective	1 / 2					15
Countryside Tourism and Recreation	Elective	1 / 2	60	6	48	114	8
Training Horses and Horse-Riding	Elective	1 / 2	54	6	42	102	7
Sustainable Development with Selected Chapters of Biology	Compulsory	1	12	0	36	48	4
Rural Development and Legislation	Compulsory	2	36	6	30	72	5
Plant Cultivation and Animal Raising	Compulsory	1	42	0	42	84	7
Recreation and Sports Area Management	Elective	2	176	12	124	312	22
Ecological Food Production	Elective	1 / 2	54	0	42	96	7
Logistics and Mechanization in Agriculture	Elective	1 / 2	54	0	42	96	7
Therapeutic and Social Activities in the Countryside	Elective	1 / 2	54	0	42	96	7
Protection of Natural Treasures and Biodiversity	Elective	1 / 2	54	0	42	96	7
Wine Production	Elective	1 / 2	96	24	96	216	15
Practical Training	Compulsory	1				400	13
Practical Training	Compulsory	2				400	13
one elective	Elective	1 / 2				72	5
Diploma Thesis	Compulsory	2					5*
Credit Point Total							120

Notes:

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

Abbreviations used: LC — lectures, S — seminars, LE — laboratory exercises, CP — European Credit Transfer System (ECTS) credit points.

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.

About education system in Slovenia

- [Eurydice Slovenia: Education system of Slovenia](#)