

Hes·so  VALAIS  
WALLIS

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# STUDY IN VALAIS AND GET TO THE THE TOP



Bachelor's Degrees

ENGRAVED ON MY HEART

# The HES-SO Valais-Wallis: a university at the crossroads between research, learning and innovation

**W**ith its nine degree programmes and six research institutes, the HES-SO Valais-Wallis is a leading hub of skills and innovation, preparing students for the world of work with courses that place the emphasis on the practical. The HES-SO Valais-Wallis has over 2,000 students and is made up of four schools.



**The School of Management & Tourism offers three degree programmes:**

**Business Information Technology**, which trains professionals whose task will be to analyse and use an ever-growing body of information.

**Business Administration**, which trains specialists in the modern economy.

**Tourism**, a course with over 30 years' experience offering studies in French, English and German.



**The School of Engineering also offers three degree programmes:**

**Systems Engineering**, which concentrates on mechanical engineering, materials, design, electricity, electronics and IT.

**Life Technologies**, which specialises in food technology, biotechnology and analytical chemistry.

**Energy and Environmental Engineering**, a degree programme divided between the canton of Vaud and Valais, where students concentrate on renewable energies and smart grids (the production, transport and distribution of electric current).



**The School of Health Sciences offers two degree programmes:**

**Nursing Science**, taught in French at Sion and in German at Visp.

**Physiotherapy**, a bilingual course based in Leukerbad, which trains rehabilitation professionals and results in a bilingual diploma.



**The School of Social Work**

The school trains professionals responsible for and committed to social justice, self-determination for vulnerable people and the development of community links.

**Mandates and partners of the HES-SO Valais-Wallis**

- Ecole cantonale d'art du Valais with its Fine Arts degree programme
- PET college degree programmes for Child Education and Agogical Workshop Supervision
- Complementary modules
- Specialised baccalaureate in Health

# Σ Bachelor of Science HES-SO in Business Information Technology

*A profession connected to the future*

The Business Information Technology degree programme is aimed at training professionals whose task is to analyse and use an ever-growing body of information over increasingly short periods, to respond to the challenges faced in such varied fields as energy, health, administration and service provision.

The Business Information Technology degree programme may be followed full-time in German or French (six semesters), or part-time in French only (eight semesters). Students may obtain a double Bachelor's degree by following the last two semesters of their course at a partner university abroad - an international experience that is very enriching!



**Gilles Meynet**

Founder and Director of IDEXEN, Monthey

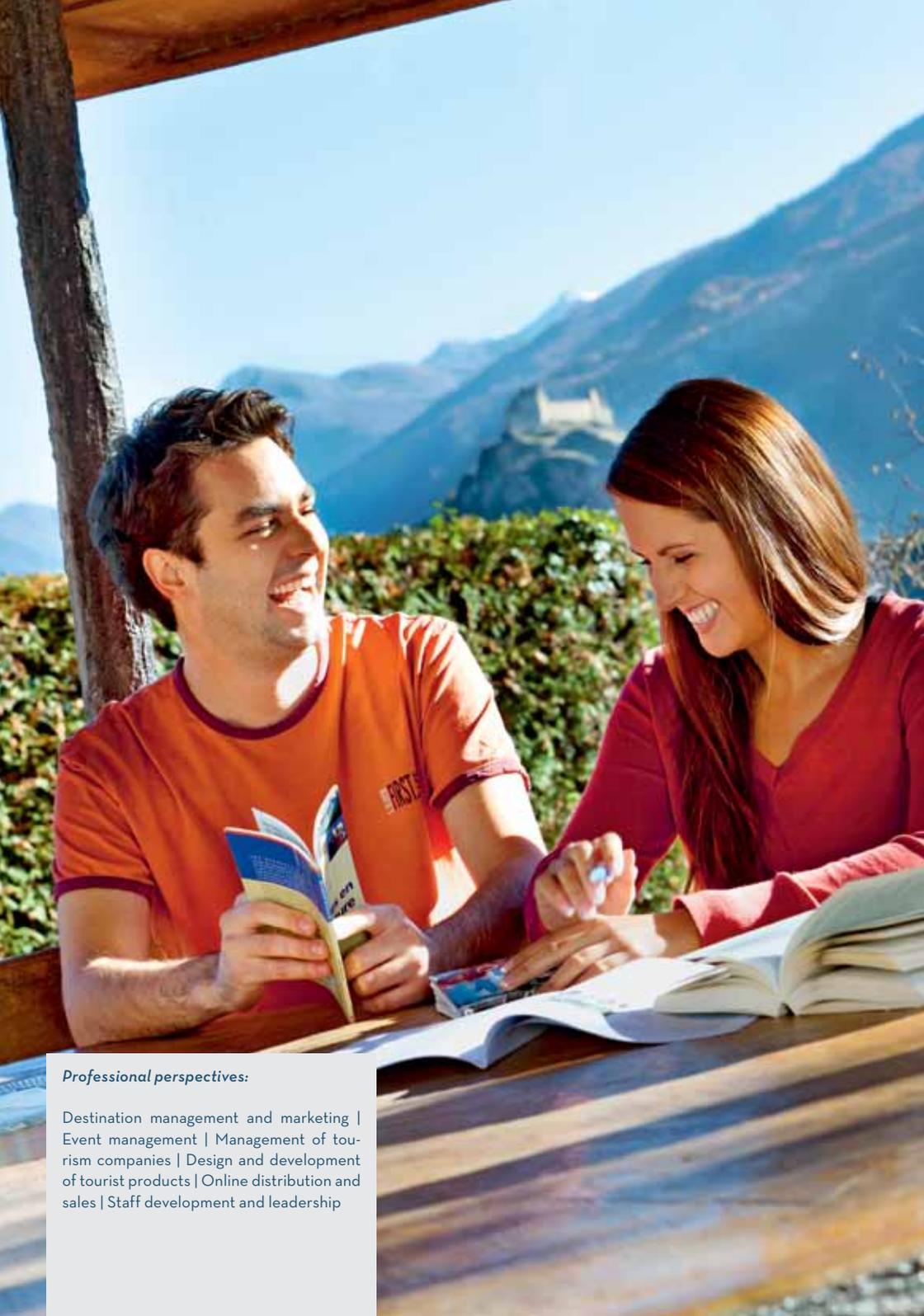
**Profession:** I spend every day seeking to develop my company's activities while being a driving force for my colleagues. My activities include R&D, technological intelligence and customer relations.

**Strong points of the course:** Sound underlying knowledge is gained. In addition to theoretical education it offers practical experience through group work, projects with real clients and a variety of innovative practical projects.



*Professional perspectives:*

SAP consultant | Information systems architect | Ergonomist | User experience professional | Project manager | Database auditor | Integrator | Application developer | Business analyst



*Professional perspectives:*

Destination management and marketing |  
Event management | Management of tourism companies | Design and development of tourist products | Online distribution and sales | Staff development and leadership

# Σ Bachelor of Science HES-SO in Tourism

*A window on the world*

With more than 30 years' experience, the Tourism degree programme offers the Bachelor of Science HES-SO in Tourism as a full-time course in German, French or English. Located in the heart of a tourist region, Tourism is the only trilingual degree programme in its field in Switzerland. It is possible to follow part of the course (acquisition of 60 to 89 ECTS) in one or more languages, and to gain a bilingual diploma.

The internship with a company and the Bachelor's thesis produced in the 6th semester represent double added value – both for the students themselves, who develop their skills in direct contact with the professional world, and for the businesses who benefit from the students' knowledge and the results of the written work of their intern. The Tourism degree programme works closely with the Institute of Tourism, which manages the assignments and research projects in which students are regularly involved.



## **Virginie Baeriswyl**

Switzerland Convention & Incentive Bureau,  
Switzerland Tourism, New York

**Profession:** Our clients, based in the United States or Canada, work for multinationals, associations and event organisers. If they are looking for a destination or venue in Switzerland I help them with their procedures and coordinate their travel arrangements.

**Strong points of the course:** The mix of theoretical semesters and internships with companies offers students the basic tools that enable them to follow a career with various organisations in tourism.

# Bachelor of Science HES-SO in Business Administration

*Managers and entrepreneurs with a wide range of professional skills*

**T**aught in a cutting-edge bilingual environment, the Business Administration degree programme has 25 years' experience of offering a Bachelor of Science HES-SO course that ensures optimum access to a variety of careers.

During their studies, students are able to undertake a semester abroad at one of our partner universities.



**Roger Haupt**

Senior Manager Communication Services  
RUAG Defence, Aigle

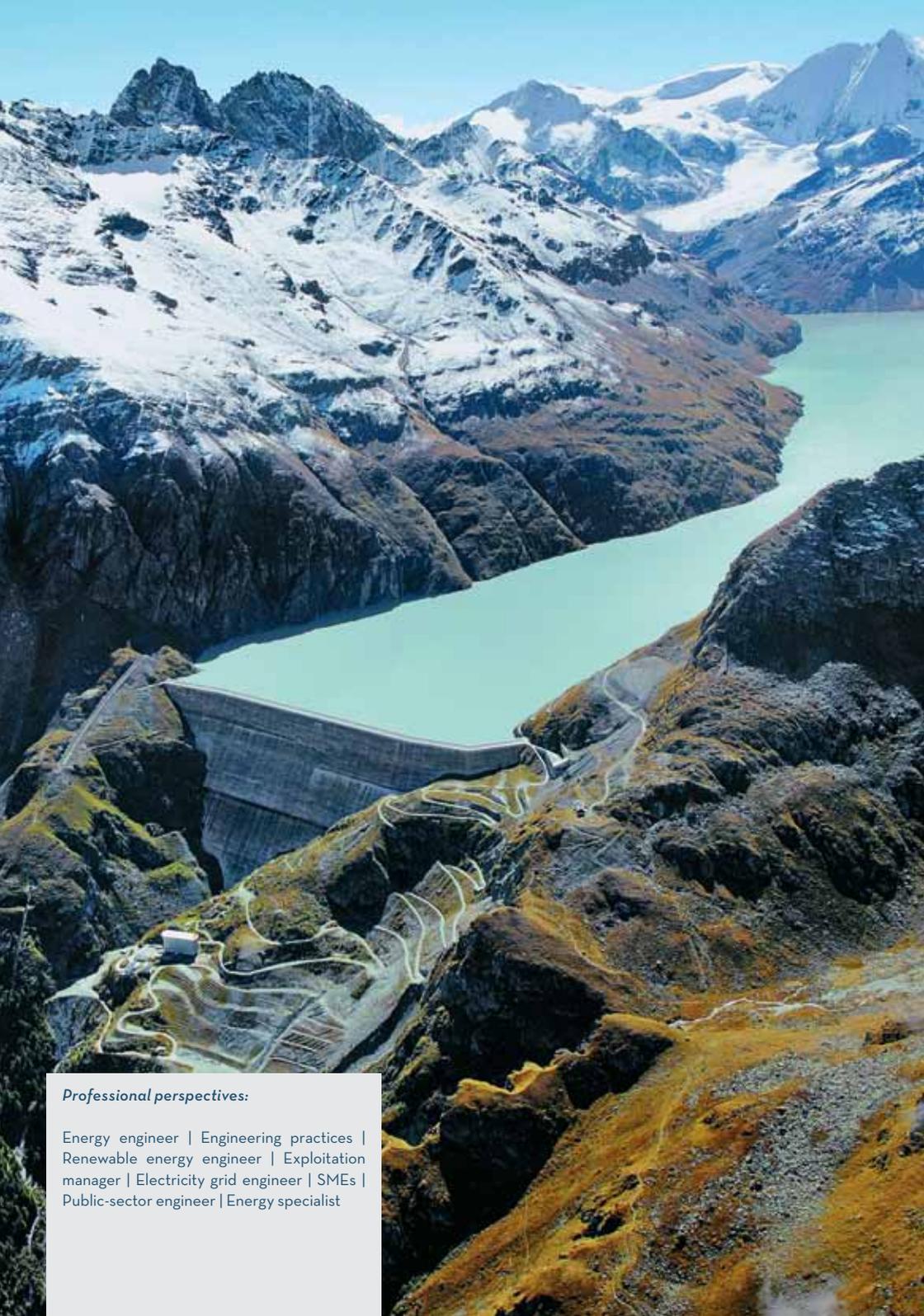
**Profession:** Having obtained a technical background I wanted to extend my range of skills. I am now responsible for a profit centre for telecommunications systems, and manage around 85 employees.

**Strong points of the course:** The Business eXperience option, with the possibility of creating a real start-up.



*Professional perspectives:*

Public sector | Consulting | Entrepreneurship | Finance | Tourism | Product management | Marketing | Administration | Accounting | Human resources | Private sector | Auditing



*Professional perspectives:*

Energy engineer | Engineering practices |  
Renewable energy engineer | Exploitation  
manager | Electricity grid engineer | SMEs |  
Public-sector engineer | Energy specialist

# Bachelor of Science HES-SO in Energy and Environmental Engineering

*A response to the energy challenges of the future*

**T**ackling energy challenges requires, first and foremost, engineers who have developed in-depth skills in fields relating to energy and the environment. The Energy and Environmental Engineering degree programme enables students to gain the necessary technical knowledge and skills to handle

a project, work effectively with models and employ the methods appropriate for the subject area of energy, drawing on environmentally-friendly technologies. The degree programme has five majors, two of which are taught in Valais: Renewable Energies and Smart Grid.



**Line Barras**

**Profession:** Working on the development of photovoltaic solar energy production installations, I integrate the electronic equipment used to ensure the conversion of electricity, safety and feeding into the electricity grid. Working with renewable energies enables me to make a modest contribution to environmental protection.

**Strong points of the course:** A practical approach involving all aspects of renewable energies: solar panels, hydroelectric dams, smart grids, etc., in close contact with the market. The benefit of following a course that offers substantial prospects for the future, as energy is essential to our modern society.

# Bachelor of Science HES-SO in Life Technologies

*Development, procedures and analysis for quality products*

The Life Technologies degree programme offers an attractive course guided by a vision of the profession that emphasizes integration into the world of work. Taught in a quality environment with laboratories equipped with modern,

high-technology facilities, it offers university-level teaching over six full-time semesters in food technology, biotechnology and analytical chemistry.



### **Caroline Emery**

Researcher at the Swiss Laboratory for Doping Analyses (LAD), a division of the University Centre of Legal Medicine (CURML), University Hospital of Lausanne, Epalinges (canton of Vaud).

**Profession:** I wanted to work in a field that involves precision work, and also one which is intellectually stimulating. After two years' study at the EPFL, the Life Technologies degree programme was ultimately the one that best satisfied my expectations.

**Strong points of the course:** The teaching staff are all of university standard and most of them also have substantial industrial experience. The course is targeted to the requirements of the employment market. It is also mainly practically-oriented, which is a distinct advantage!



*Professional perspectives:*

Biotechnology engineering | Biotechnological process engineering | Microbiology  
Molecular biology | Biochemistry | Bioanalysis | Enzymology | Downstream processing

Food technology engineering | Food technology | Food process engineering  
Food microbiology | Food safety | Food characterisation

Analytical chemical engineering | Analytical chemistry | Instrumental analysis  
Environmental analysis | Food analysis  
Phytoanalysis | Bioanalysis | Sampling techniques | Process monitoring



*Professional perspectives:*

Infotonics engineer | Major national or international companies | Power and control engineer | Research institutes | Design and materials engineer | SMEs | Research

# Bachelor of Science HES-SO in Systems Engineering

*The craft workers of the third millennium at the crossroads of technology*

The objects, equipment and machinery that surround us are increasingly complex, integrating ideas of design and materials, strength and energy, information and intelligence. The engineers who design them must be versatile, au fait with analytical methods and design techniques within the various technologies (mechanics, materials, design, electricity, electro-

tics, computers, etc.), able to communicate in a multidisciplinary environment and ready to accept responsibility for their work and for others. The Systems Engineering degree programme offers a full-time course of six semesters, with specialisations in Infotronics, Power & Control and Design & Materials.



**Jean-Pierre Gehrig**

Head Developer at Edeltech Sàrl and Artistic Director at Cinetis SA, Martigny

**Profession:** In my everyday work I manage all stages of the development of a product by an SME, from design to production. My systems skills enable me to liaise with other developers, who may be located anywhere in the world - good knowledge of three languages is therefore an advantage in this context.

**Strong points of the course:** Learning to tackle the complexity of a problem before resolving it, imagining a number of solutions then choosing the best one in terms of cost, available resources and timeframe. A specific, real-world course.

# ≈ Bachelor of Science HES-SO in Physiotherapy

*Experts in movement, rehabilitation professionals*

**A** manual and technical profession, physiotherapy centres on the body and thus places considerable importance on human contact. On a daily level, physiotherapists establish links with patients, their environment and other health professionals in order to ensure the most effective treatment possible. They contribute to the socioprofessional rehabilitation of people who have limited physical capacity and

social functioning by means of treatments and preventive measures, health education, re-education and rehabilitation. They help these persons to recover their mobility and independence, and also advise healthy people such as athletes. The course, which alternates between the theoretical and the practical, is bilingual and is taught over six full-time semesters.



## **Christoph Baur**

A physiotherapist at the Valais Hospital, in Martigny, and physiotherapist to the Swiss under-20s football team

**Profession:** I've always loved contact with people, and liked the idea of making them feel better during the difficult period following accident or illness. Every three months we have a rota that enables us to work in different hospital departments: orthopaedics, medicine, neurology, etc.

**Strong points of the course:** Highly-qualified teaching staff who are passionate about their profession and pass on their knowledge wonderfully. The course is practically-oriented.



*Professional perspectives:*

Sports environments | Private practice | Education and training | Rehabilitation centres | Supervision | Hospitals | Research | International organisations



*Professional perspectives:*

Emergency care | Paediatrics | Geriatrics |  
Oncology | Health and safety at work |  
Anaesthesia | Humanitarian aid | Intensive  
care | Community health | Ongoing care |  
Psychiatry | Health in schools | Prison envi-  
ronments | Social rehabilitation | Manage-  
ment in health establishments

# ≈ Bachelor of Science HES-SO in Nursing Science

## *Health and the challenge of caring*

The range of careers offered by the health-related degree programmes is wide and offers a great variety of professions and professional perspectives. At the heart of the “caring professions”, the Nursing Science degree programme prepares students for a life dedicated to the prevention of ill health and the maintenance or restoration of health.

On a daily level, nurses work with individuals of all ages, offer care to help them maintain and continue their lives

and ensure the comfort of those who are suffering reduced capacity as a result of illness or accident. One of their roles is to determine the care needs and respond to them appropriately.

The course may be followed in German or French, full-time (six semesters) or part-time (eight semesters), and numerous specialisation projects may be undertaken after achieving the diploma.



### **Cindy Ravasio**

Nurse in the surgical department of the Siere Hospital

**Profession:** This profession enables us to develop continuously, given the number of existing specialisations and departments, and also because of the team work and the fact that it is a varied career which requires you to adapt on a daily basis.

**Strong points of the course:** The diversity of the subjects taught. Working in small groups. The possibility for real exchanges and debates with the teaching staff. The friendly atmosphere.



# Bachelor of Arts in Social Work

*Expertise used to ensure social inclusion in a profession dedicated to creating a fairer world*

Today's social workers are ceaselessly confronted with new challenges. The profession needs graduates who are able to propose modern, innovative solutions. The Social Work degree programme therefore aims to train social workers who are able to promote and ensure social integration, to participate in social change and to contribute to the necessary socio-political adaptations.

The course is taught over six full-time semesters. After a joint foundation course students choose a major:

- Social work
- Social pedagogy
- Community development



**Aureore De Gaspari**

Social pedagogue, interdisciplinary Master's in children's rights, locum at the FOVAHM foundation, Saxony

**Profession:** There is no routine in the field of social pedagogy. Every day we meet different individuals, which means that we need to examine our practices on an ongoing basis.

**Strong points of the course:** The alternation between periods of theoretical education and internships is a significant benefit, enabling students to acquire the tools they need and at the same time to test them in a real environment. My diploma opened the doors to university and the possibility of taking a Master's degree.



*Professional perspectives:*

Workers' universities | Community development worker | Day centres | Social worker | Community centres | Reception centres | Social pedagogue | Cultural centres



*Professional perspectives:*

Contemporary artist | Cultural mediator |  
Curator | Cultural administration

# Bachelor of Arts HES-SO in Fine Arts

## *Practising contemporary art*

The Fine Arts degree programme offered by the Ecole cantonale d'art du Valais is aimed at candidates whose ambition is to develop their artistic explorations and who are keen to position their art in a sociocultural and political context. The outlying location of the School and its small size favour a laboratory situation – a space for research and trials – and offer students an ideal place in which to concentrate. In addition, regular visits by external

practitioners give the students' experiments a national and international perspective.

The course is taught in French, but many of the teaching staff are bilingual (workshops and Master's thesis).



### **Barbara Cardinale**

Visual artist

**Profession:** I am always seeking to extend my artistic reflections a little further, in the same way as a piece of fabric is woven from individual threads. One idea is added to another, one image leads to the next, one series is combined with an earlier sequence.

**Strong points of the course:** The space for students to express their own artistic language, personalised supervision and enriching external projects.



**School of Management & Tourism**

**Business Administration, Tourism, Business Information Technology**

Case postale 80  
Route de la Plaine 2  
CH-3960 Sierre

**Ecole cantonale d'art du Valais**

Rue Bonne-Eau 16  
CH-3960 Sierre



**School of Engineering**

**Systems Engineering, Energy and Environmental Engineering, Life Technologies**

Case postale 2134  
Route du Rawyl 47  
CH-1950 Sion 2



**School of Health Sciences**

**Physiotherapy**

Rathausstrasse 8  
CH-3954 Leukerbad

**Nursing Science (German)**

Pflanzettastrasse 6  
CH-3930 Visp

**Nursing Science (French)**

Chemin de l'Agasse 5  
CH-1950 Sion



**School of Social Work**

Case postale 80  
Route de la Plaine 2  
CH-3960 Sierre



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