

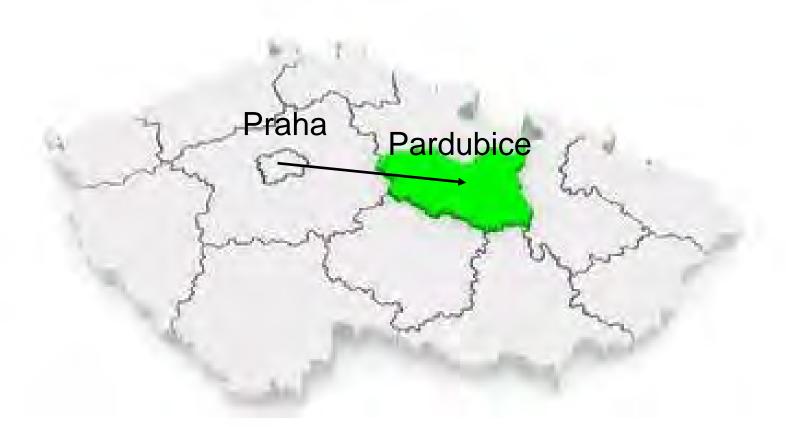
Upper Secondary School of Chemistry Pardubice





Where are we at?

- Around 90.000 inhabitants
- Industries: Chemistry, Electric Engineering and Mechanical engineering
- Deep sport and cultural traditions
- Railway and Airport









famous

- Perník City of Gingerbread
- The famous **Velká pardubická** (Great Pardubice) steeplechase
- Golden Helmet of Pardubice (since 1929) motorcycle speedway
- Ice hockey club Dynamo Pardubice





SPSCH Pardubice

Who are we?

- State VET school with more than 70 years of tradition
- Around 1050 students, 159 staff (122 teachers)
- Some fields are unique not only in the region, but also on a national scale
- Lifelong Learning Center, VET Erasmus+ Charter (2018), VET Accreditation (2020)
- Internationalisation since 1997











CHEMISTRY



HAIRDRESSING

FIRE PROTECTION



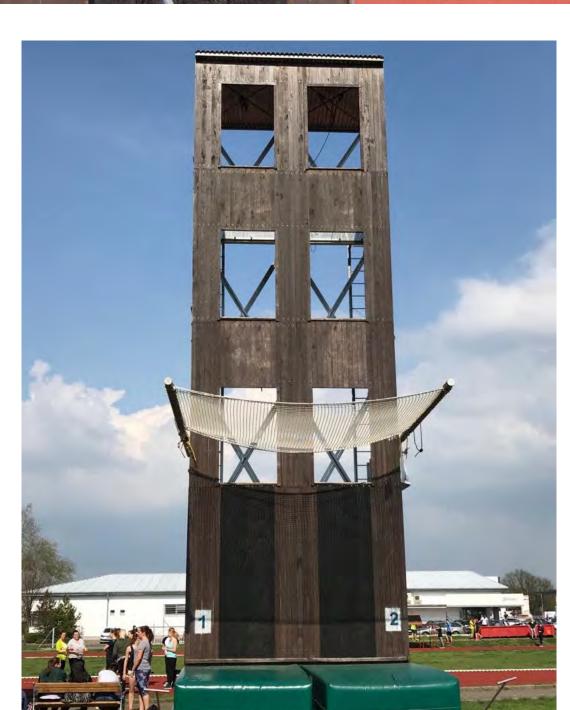
SECURITY AND LAW







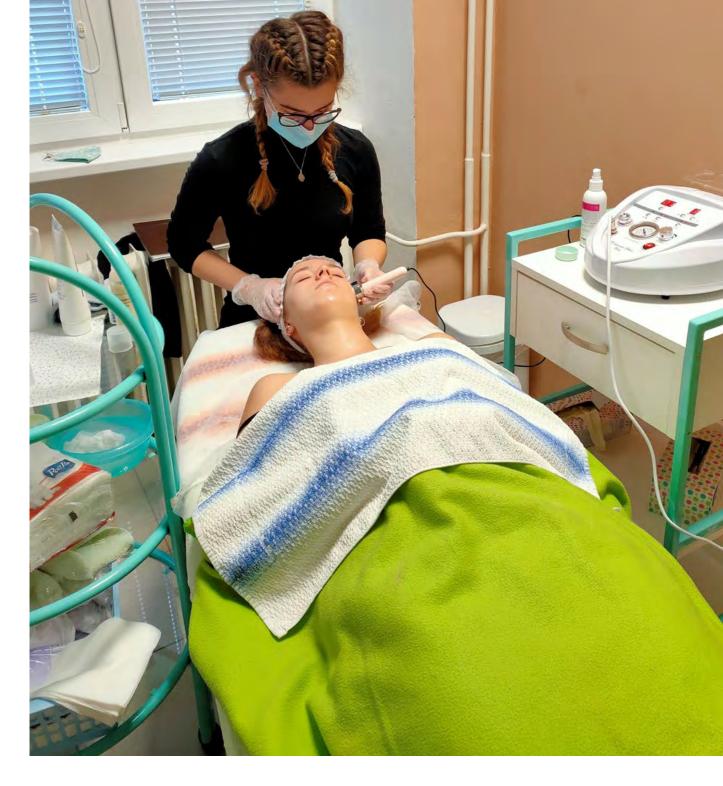
















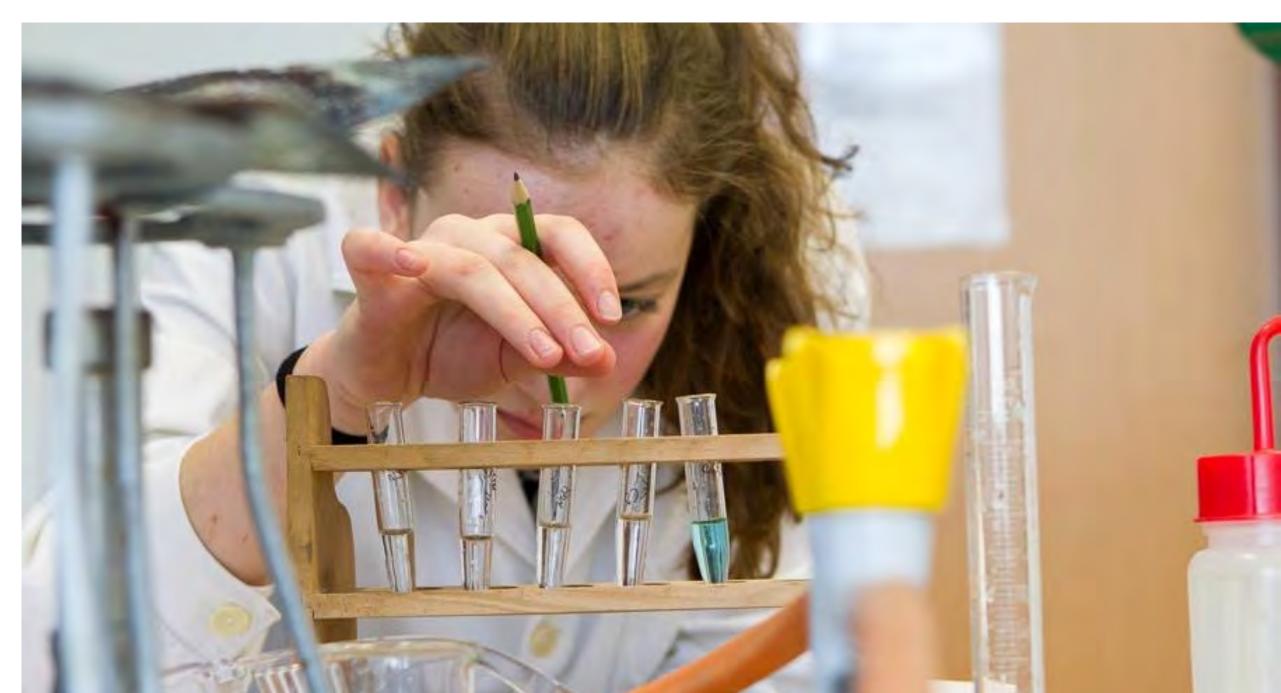












Let's review more in details: Chemistry

Following information is giving more details about Chemistry related study specialisations

Applied Chemistry (4 years)

Specialisations:

- Analytical Chemistry
- Chemical-Pharmaceutical Production
- Analysis of Chemical and Biological materials
- Forensic Techniques and Expertise





Applied Chemistry (4 years study)

Vocational subjects:

1st year: General and inorganic chemistry

2nd year: Organic chemistry, Analytical chemistry I, Chemical

technology

3rd year: Analytical chemistry II, Biochemistry, Microbiology, Chemical technology, Chemical engineering, Physical chemistry I 4th year: Instrumental analysis, Chemical engineering II, Chemical technology, Physical chemistry II,

Practical vocational skills:

All theoretical classes are accompanied with particular laboratory exercises. Altogether up to 12 hours per week, 1 month of vocational practice in chemical companies in 3rd year of study.

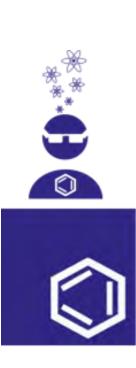




Applied Chemistry (4 years)

Examples of laboratory work:

- 1st year: basic laboratory operations destilation, crystalization, filtration, precipitation, preparation of basic inorganic compounds such as FeSO4.7H2O, etc..
- 2nd year: qualitative analytical chemistry : (cations, anions);
 quantitative : gravimetry (Fe, Ni, glucosis), volumetry (acid-base titration); organic chemistry : preparation of organic substances (dimethylsulfone, halogenderivates, acetylsalicylic acid, pharmaceuticals, etc..
- 3rd year: analytical chemistry: advanced volumetry (precipitation, complexometry, redox), instrumental analysis I; microbiology: microscope work, preparing of microbiology matrices, inoculation, determination of microorganisms, etc.; physical chemistry: determination of physical constants: viscosity, density, surface tension, calorimetry, cryoscopy, etc.; chemical engineering: dilatation, danaida, heat transfer, drilling and sieve analysis, rectification, diferencial distilation, etc.



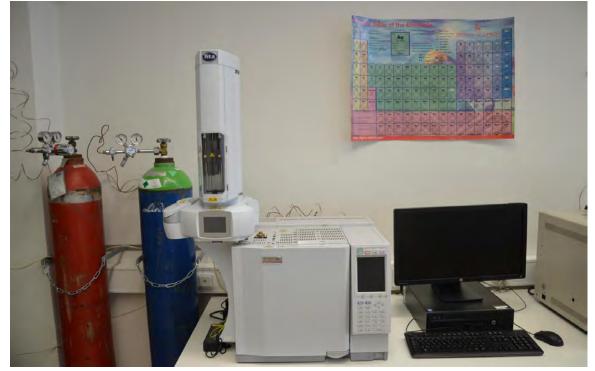


Applied Chemistry (4 years)

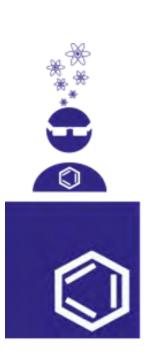
Examples of laboratory work:

• 4th year: Instrumental analysis : Determination of Pb in soil by FAAS, Raman spektrometry – creating of library, spectra overaly, XRF elemental analysis of minerals, GC of volatile alcohols in spirits, HPLC of food conservants, CE of cations in wine, UV-VIS spectrometry of different polutants, electrogravimetry, potenciometry of nitrates in vegetable, conductometry, etc..

Chemical engineering and physiscal chemistry II: advanced laboratory exercises



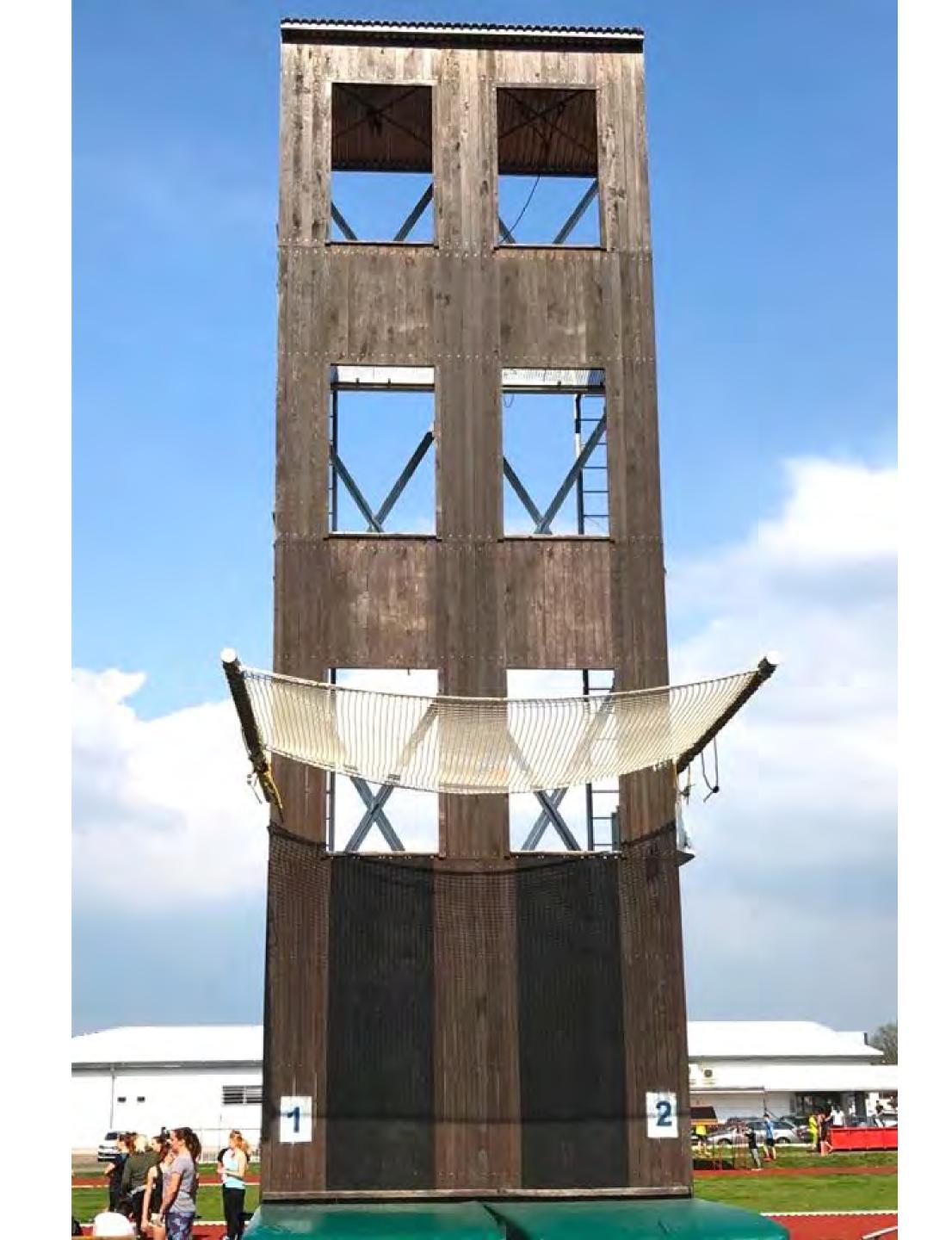






School Facilities

- Modern classrooms
- Modern chemical laboratories
- Advanced instrumental analysers and chemical equipment
- Library
- Gym
- Fitness gym
- School playground
- Canteen
- Laser shooting range and criminology lab
- Fire training tower
- 2 hairdressing and beauty salons
- EdTechLab Pardubice





- Strong connection with the region and nationally as well
- Various fields and initiatives
- We look for partnership in:
 - Teachers' job shadowing placements
 - Learners' training opportunities
 - International competitions

We are open to discuss various cooperation forms.















































PREL





Pardubický kraj **Spolana**























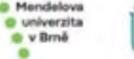
















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Ethanol Energy





















































International projects

This academic year







Green Chemistry







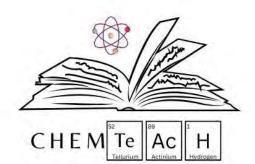






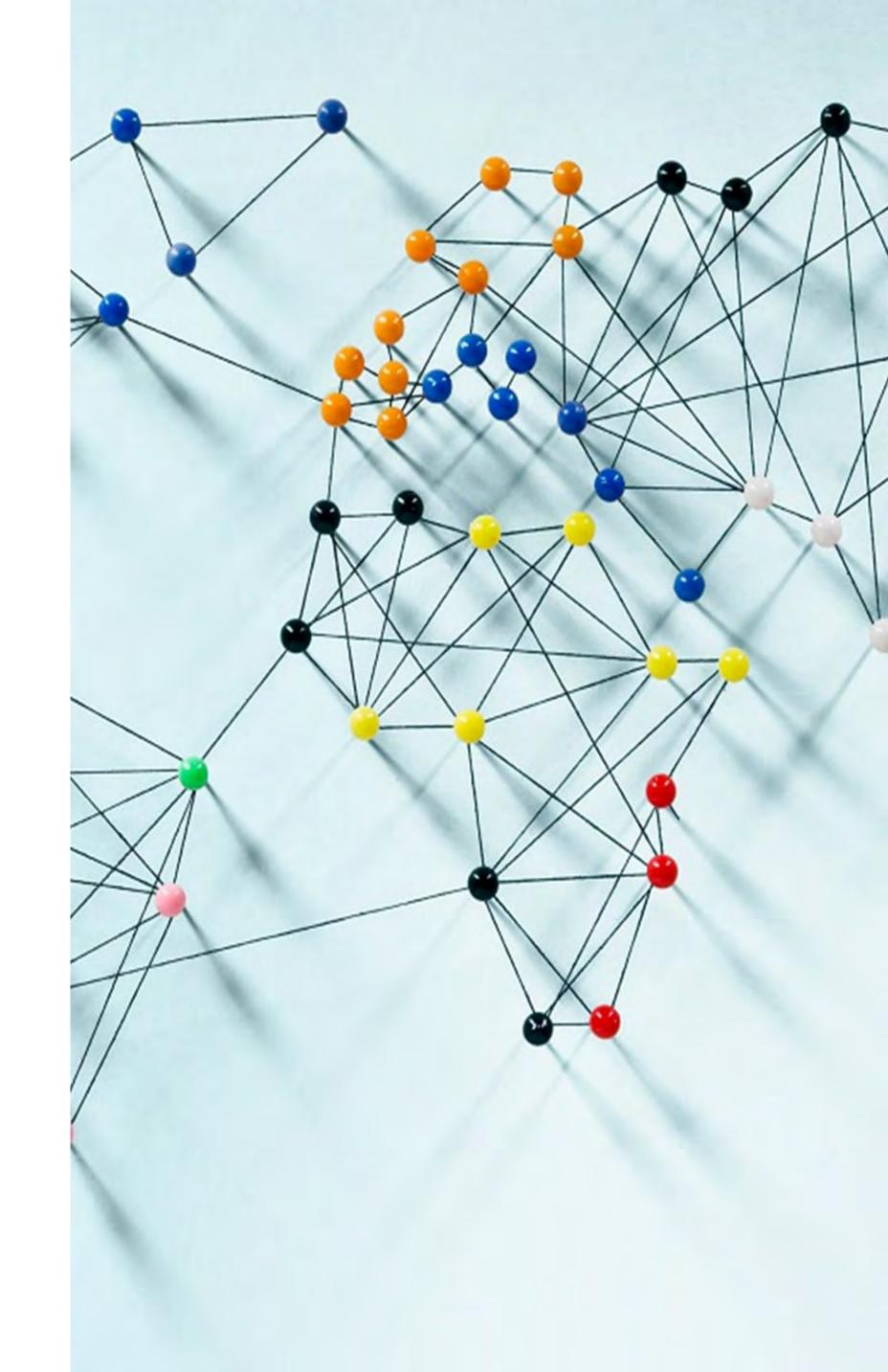
Funded by the

European Union







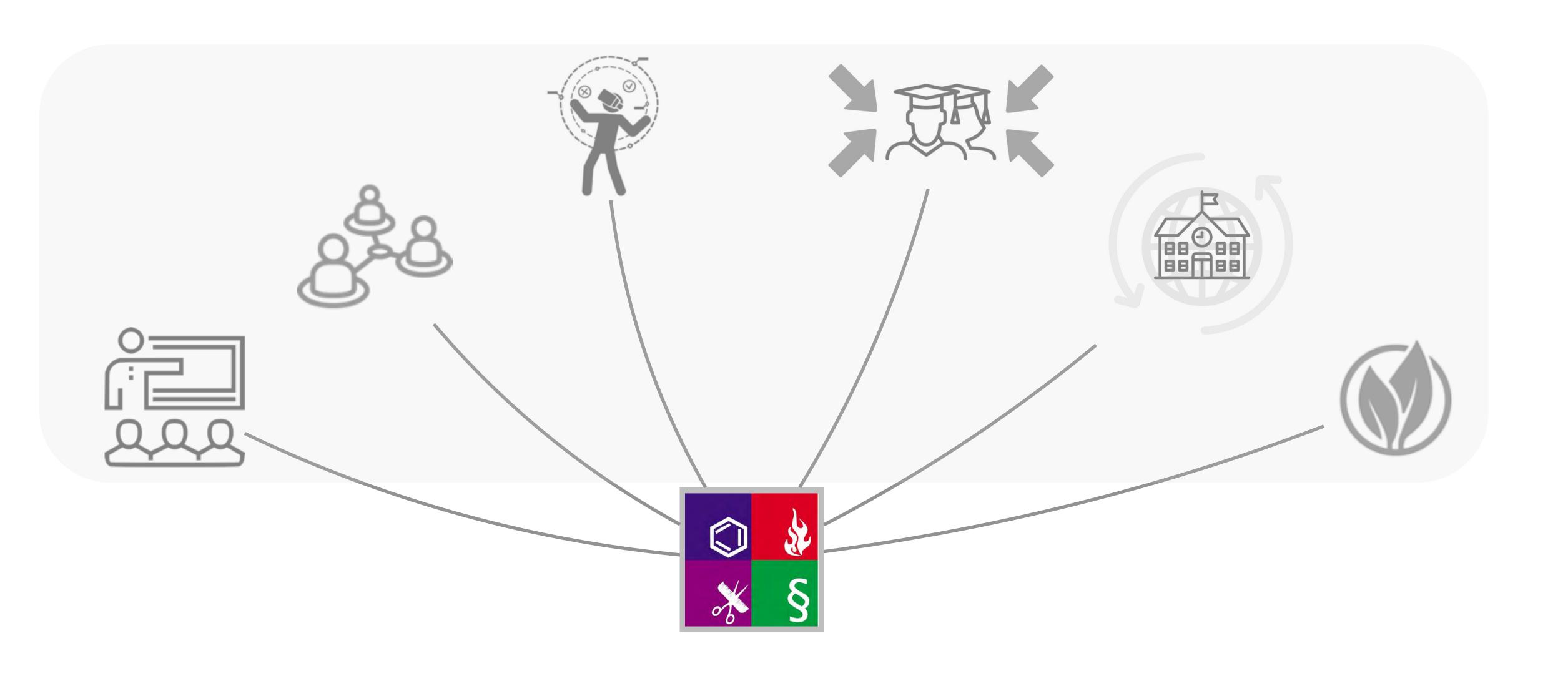


School life, after school activities

- Excursions
- Winter and summer outdoor courses
- Open doors
- Road shows for primary schools
- Exhibitions and science festivals
- Competitions and Olympics
- Various student clubs: criminalistic, biology, chemistry, critical thinking, basketball, volleyball



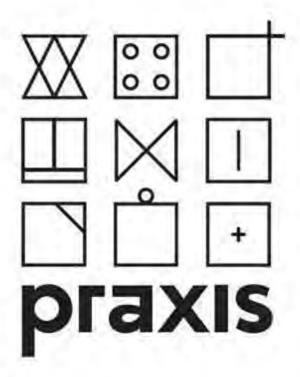
Future



Networks

- The European Credit system for Vocational Education and Training (ECVET)
- European Chemistry Thematic Network Association (ECTN)
- The European Forum of Technical and Vocational Education and Training (EfVET)

- National Qualifications Framework (NQF)
- Praxis Network
- Is part of the Sectoral Agreement in Chemistry in CZ
- XR Effect Foundation



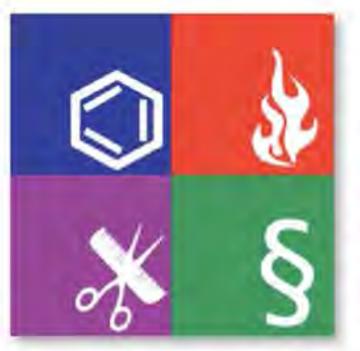












Upper Secondary School of Chemistry Pardubice

school with tradition since 1946



spsch-pardubice-international





www.spsch.cz

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