



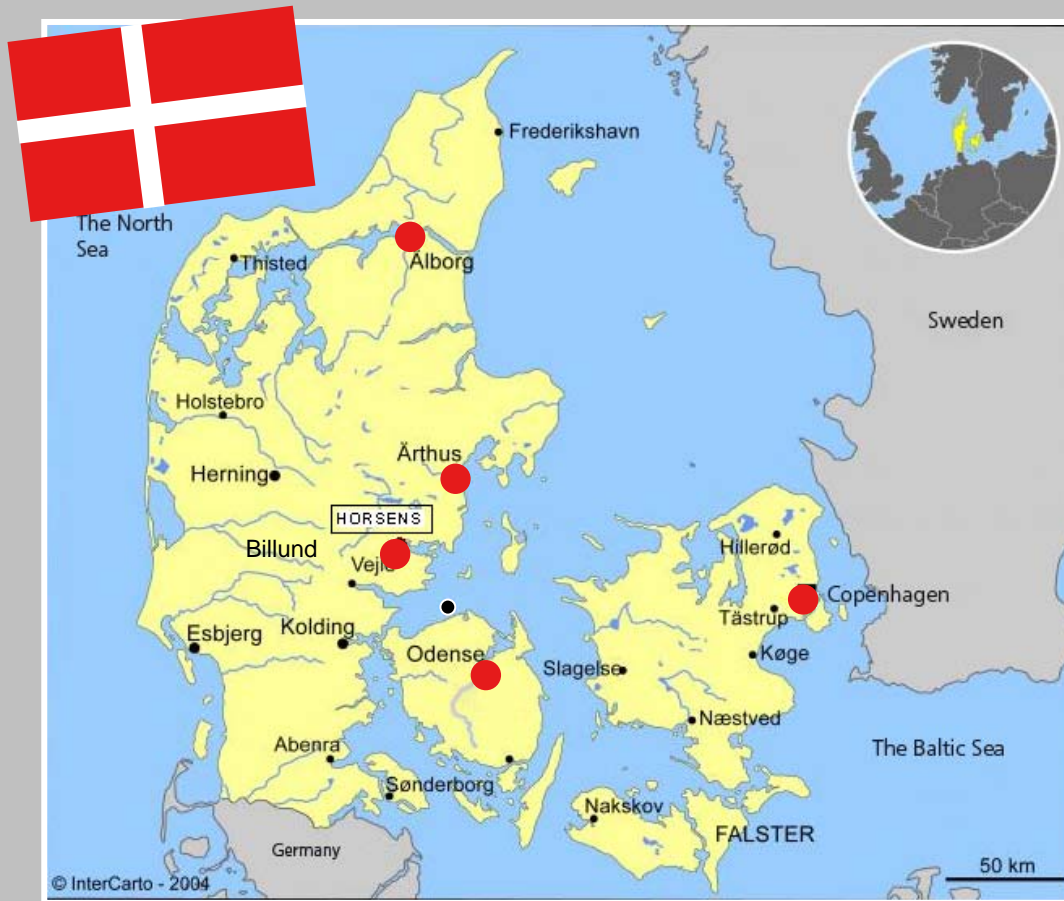
Faculty of Technology & Business

www.viauc.dk

Lecture contents:

- Denmark
- Entrance criteria & education level
- Danish education system
- Learning environment
- ECTS credits
- Mandatory and elective subjects
- Core subjects
- CA Competences
- Examination & assessment
- CA employment
- International aspects
- Final project examples

Five universities that offer the Constructing Architect degree



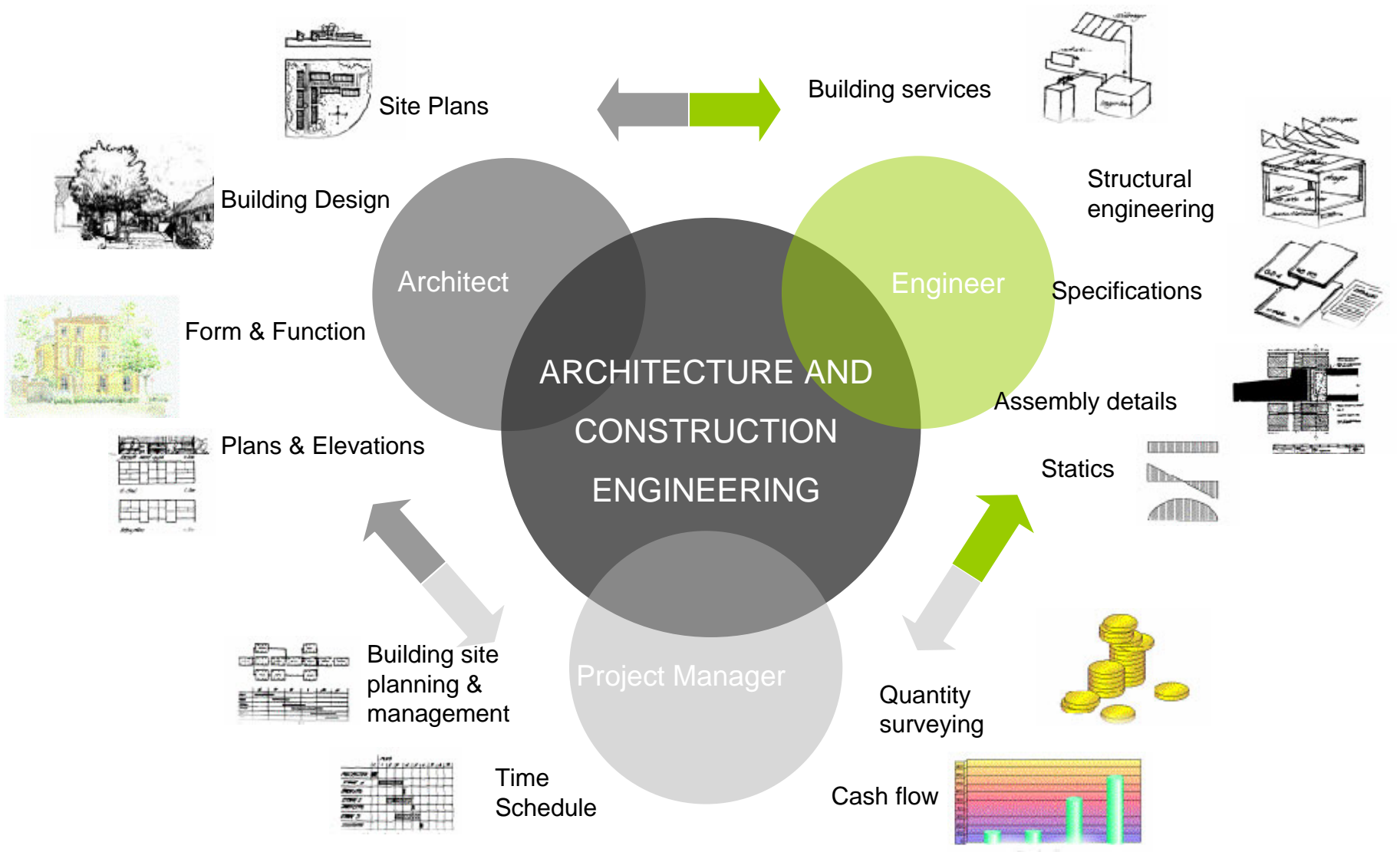
- Ålborg
- Aarhus
- Horsens
- Odense
- Copenhagen

The Danish Constructing Architect Education

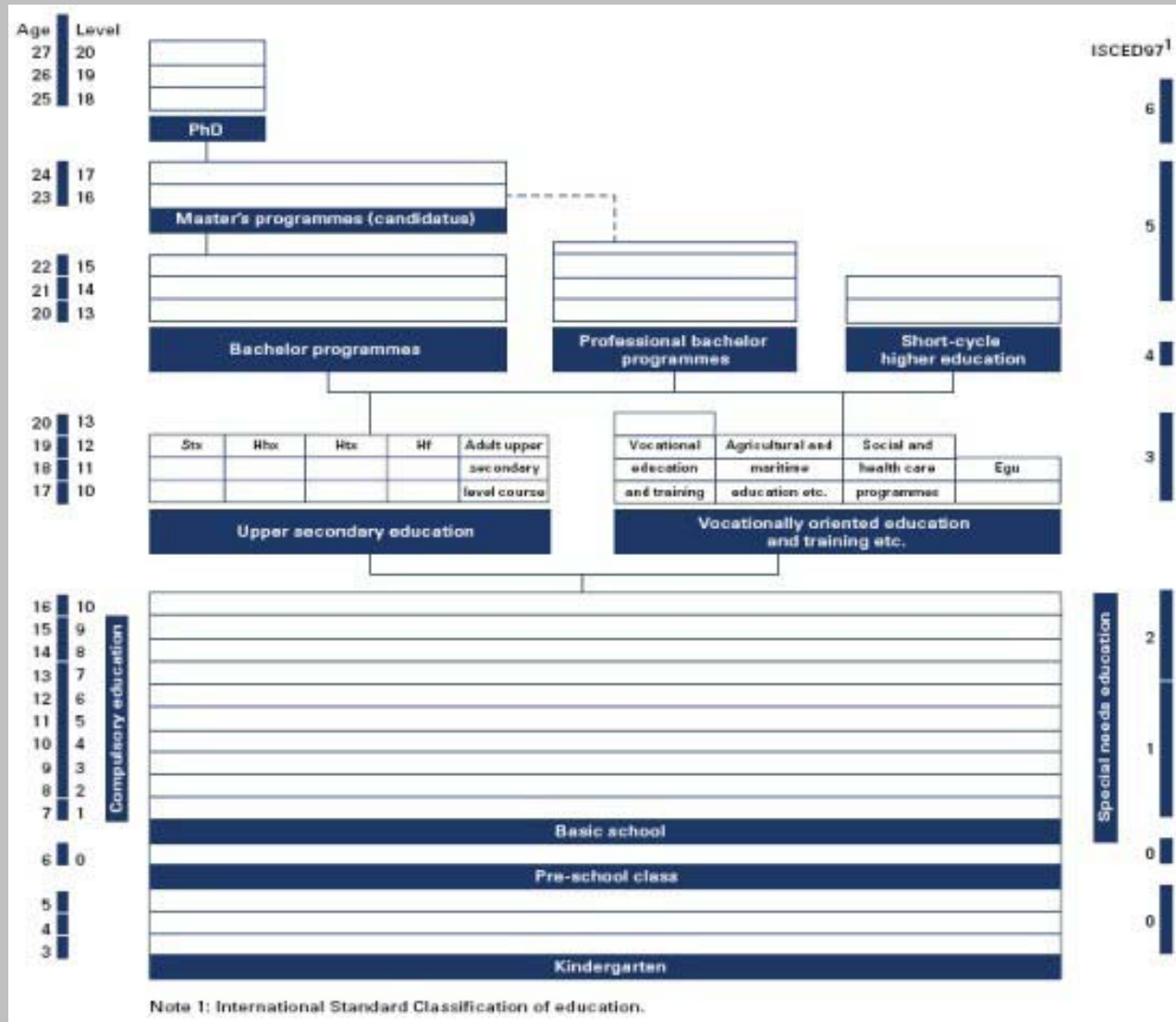


- The Constructing Architect education (Bygningskonstruktør) in Denmark was originally initiated 60 years ago to give a pathway, for building professionals, craftsmen etc, to obtain a higher education in the building and construction sectors.

Field of education



The Danish education system



Entrance requirements

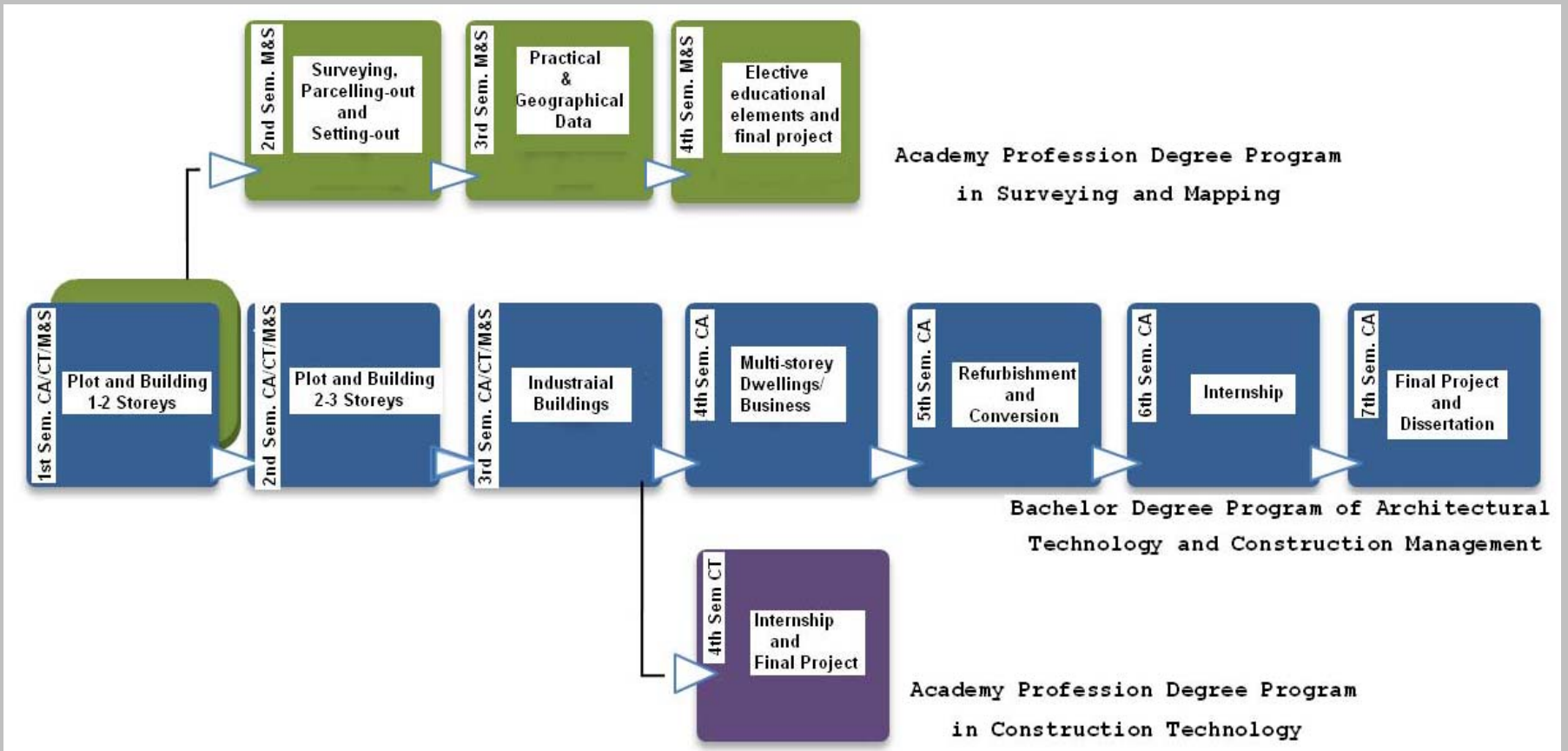
Successful completion of the following apprenticeships/education provides admission:

- 3 year academically orientated high school (HTX, STX. HHX, HF)
- Electrician, joiner, bricklayer, plumber, heating & ventilation, road builder etc.
- Technical designer
- Engineering educations
- Adult experience with in the building & civil engineering sectors
- Quotas: 65% vocational & 35% high school

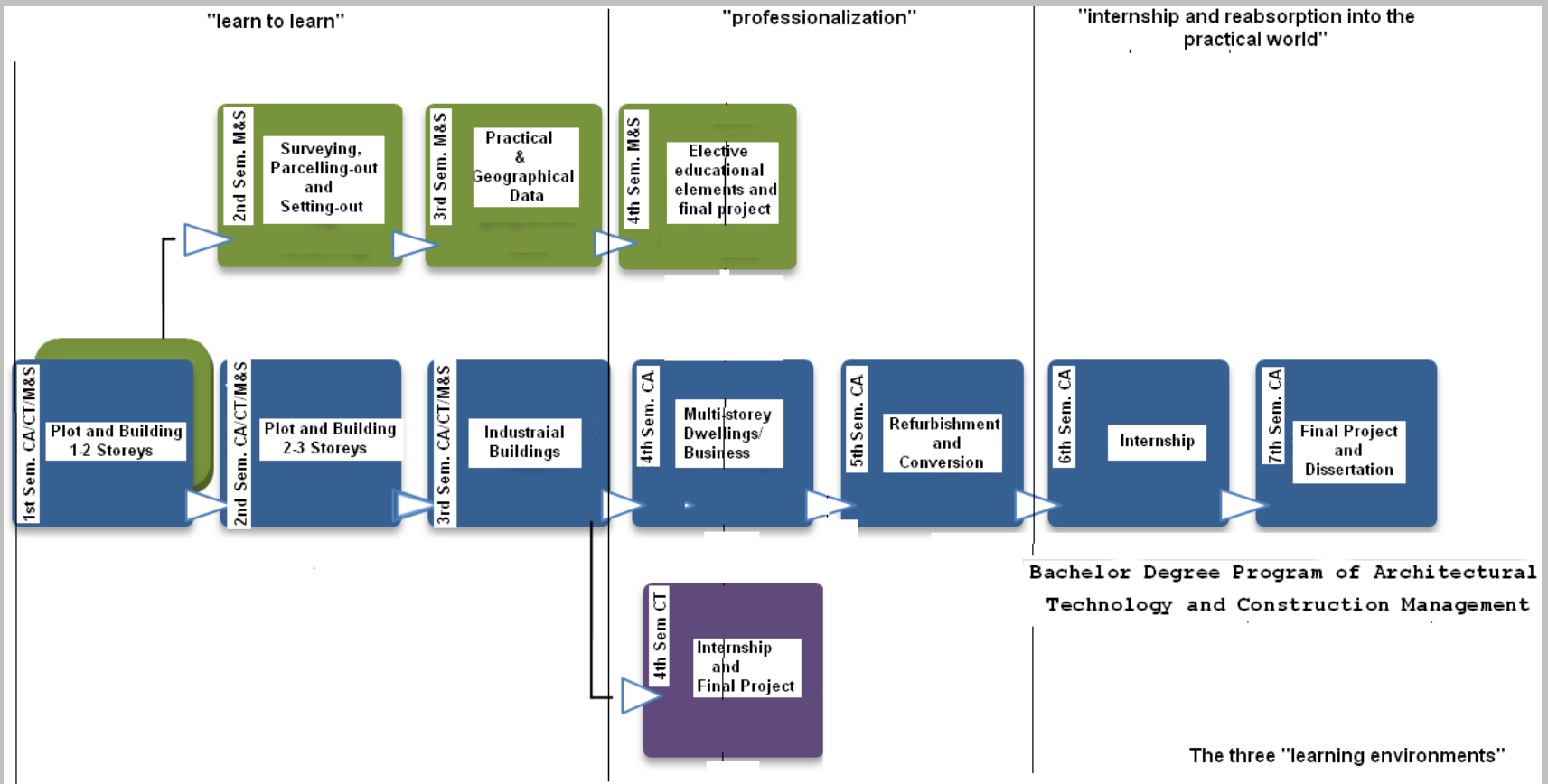
Education Level

- The Constructing Architect education can be compared with a British Bachelor Honours degree in Architectural Technology & Construction Management.
- The constructing architect degree is a 3½ year professional bachelor degree (210 ECTS credits) with 7 semesters

The Constructing Architect education consists of 2 phases:
 A 2 year (4 semester) Academic profession diploma plus
 1½ year (3 semester) bachelor degree



Learning environments



Constructing Architect and ECTS

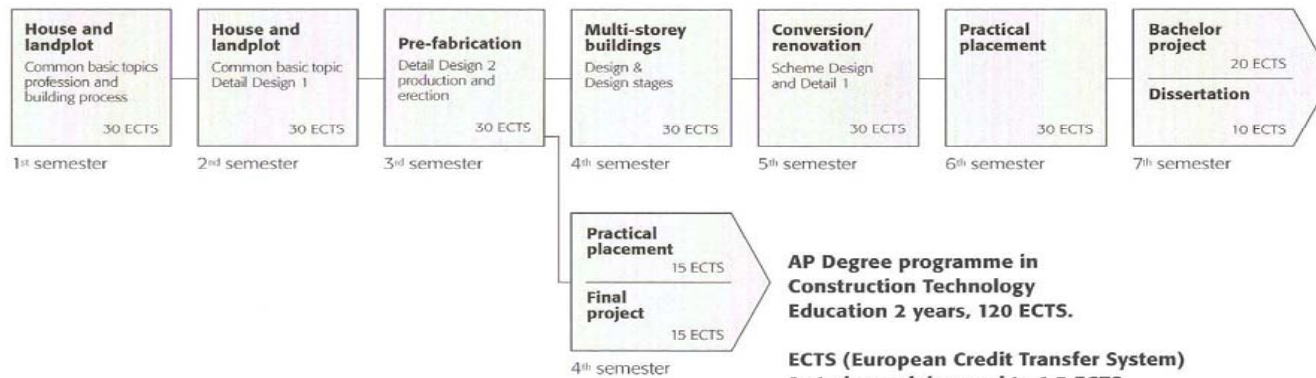
ENTRANCE CRITERIA AND COURSE PLAN

LANGUAGE OF TUITION

ENGLISH or
 DANISH

Bachelor of Architectural Technology and Construction Management 3½ year, 210 ECTS

High School graduates
Craftsmen or Building professionals



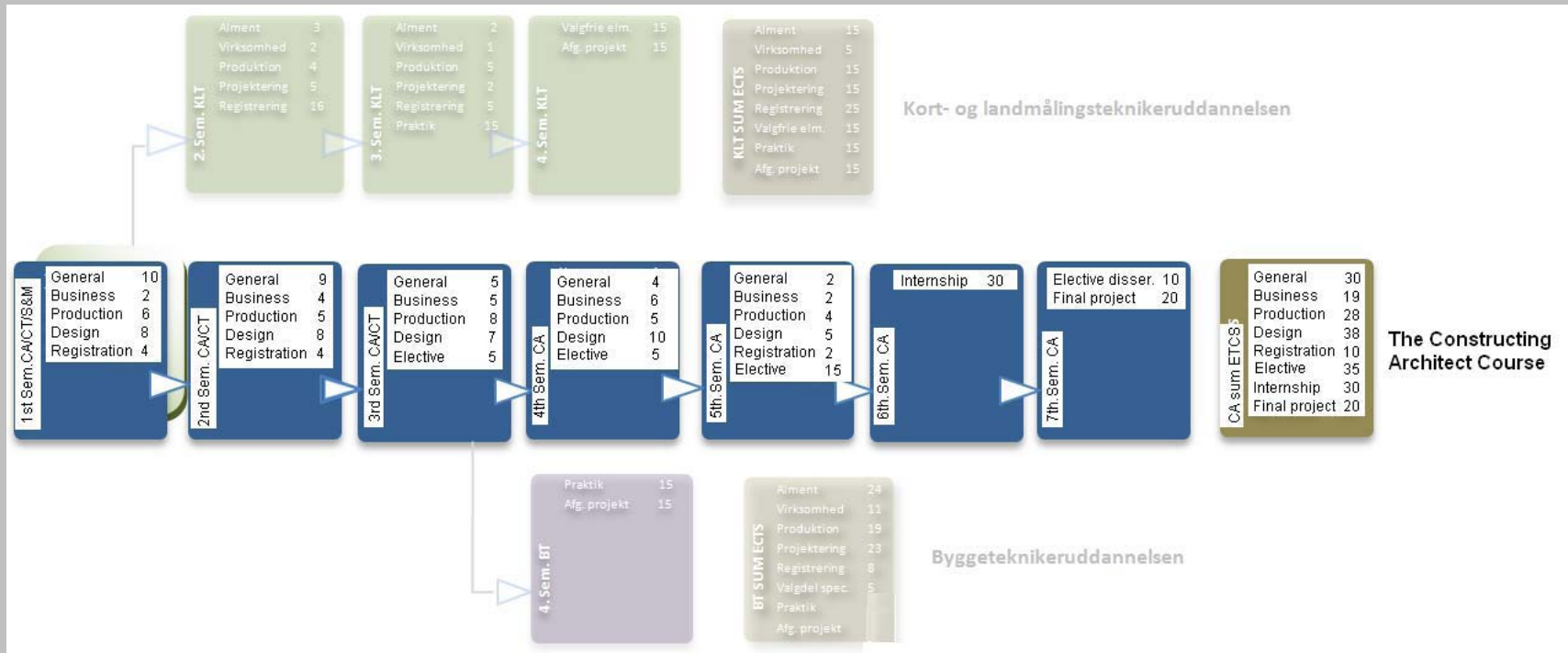
- 1 ECTS credit is equivalent to 27-28 hours student workload
- 30 ECTS credits is equivalent to one semester
- 7 semesters is the equivalent of 210 ECTS credits

- One week of study is equivalent to approx. 41 hours of student workload.
- 1 semester is equivalent to 20 weeks and 825 hours of student workload (theory project work & examinations)

Mandatory course components

- **General: 30 ECTS**
- communication, work methodology, organization, IT technology, innovation, applied maths & physics
- **Business: 19 ECTS**
administration, legislation and jurisprudence
- **Production: 28 ECTS**
construction, civil engineering, production & project management
- **Design: 38 ECTS**
construction: design & project management
- **Registration: 10 ECTS**
surveying and setting out of buildings and structures

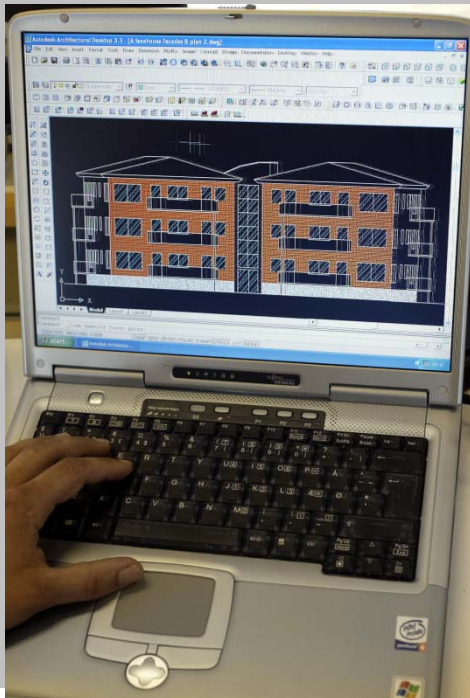
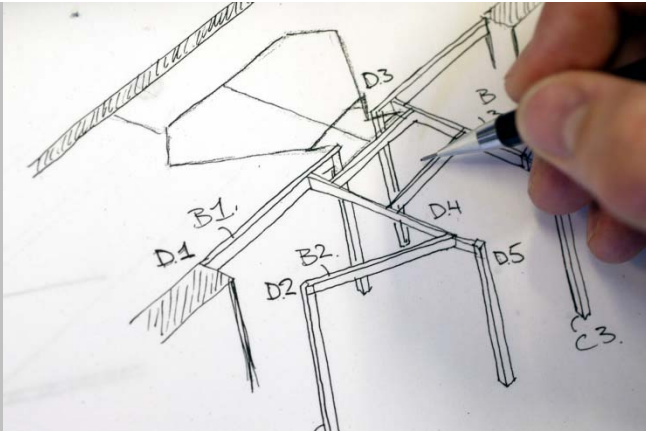
ECTS break down per semester



Elective subjects

- From the 5th semester onwards students can focus on one of two main themes:
- Building design or construction management elective subjects amount to 35 ECTS credits:
 - 3rd semester 5 ECTS credits
 - 4th semester 5 ECTS credits
 - 5th semester 15 ECTS credits
 - 7th semester 10 ECTS credits

Semesters core subjects



- Architectural design
- Project management
- Construction design
- Contract management
- Civil Engineering
- Sustainability
- Planning & Management
- Building Services
- Environmental building technology
- Facility management

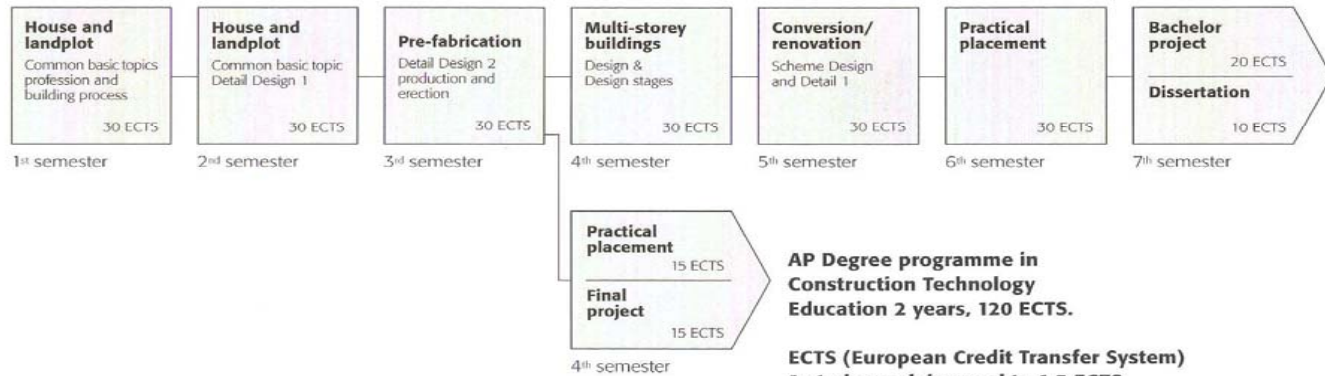
Each semester a specialised topic

ENTRANCE CRITERIA AND COURSE PLAN

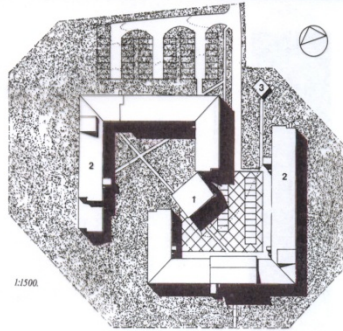
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4th semester – Multi-storey house



1:1500

1, fælleshus, 2, boliger, 3, materialegrnd. ■ 1, common house, 2, flats, 3, storage yard.

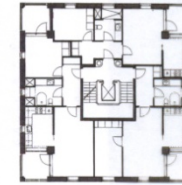


drager også det tilsyneladende spinkle tag af stålprofilplader, og de små, tynde »kaptitler« af stålror, der afslutter søjlerne.

Huset i midten, der rummer fællesrum og ungdomsboliger, har fået sig et ultramoderne, skævt og buet tag af blanke stålprofilplader, et materiale, der går igen i cykelskjurene. I det hele taget er bebyggelsens udtryk overvejende modernistisk, selv om der er rester af nyrationalismens tyngde og stregthed i facaderne.

Der er 83 almindelige boliger og 20 ungdomsboliger i bebyggelsen.

Beboerne er gennemgående tilfredse, men det har været diskussioner og kritik, fordi de små lejligheder er nærmest umulige at møblere, hvis man kommer med hele det traditionelle udstyr af polstrede sofabluffer og renaissance-spisestuer. De store typer ser derimod ud til at fungere godt. Loggiaen anvendes yderst forskelligt, hvilket jo også var hensigten. Nogle bruger den som arbejdsværelse, andre som allmuligrum med



1:300

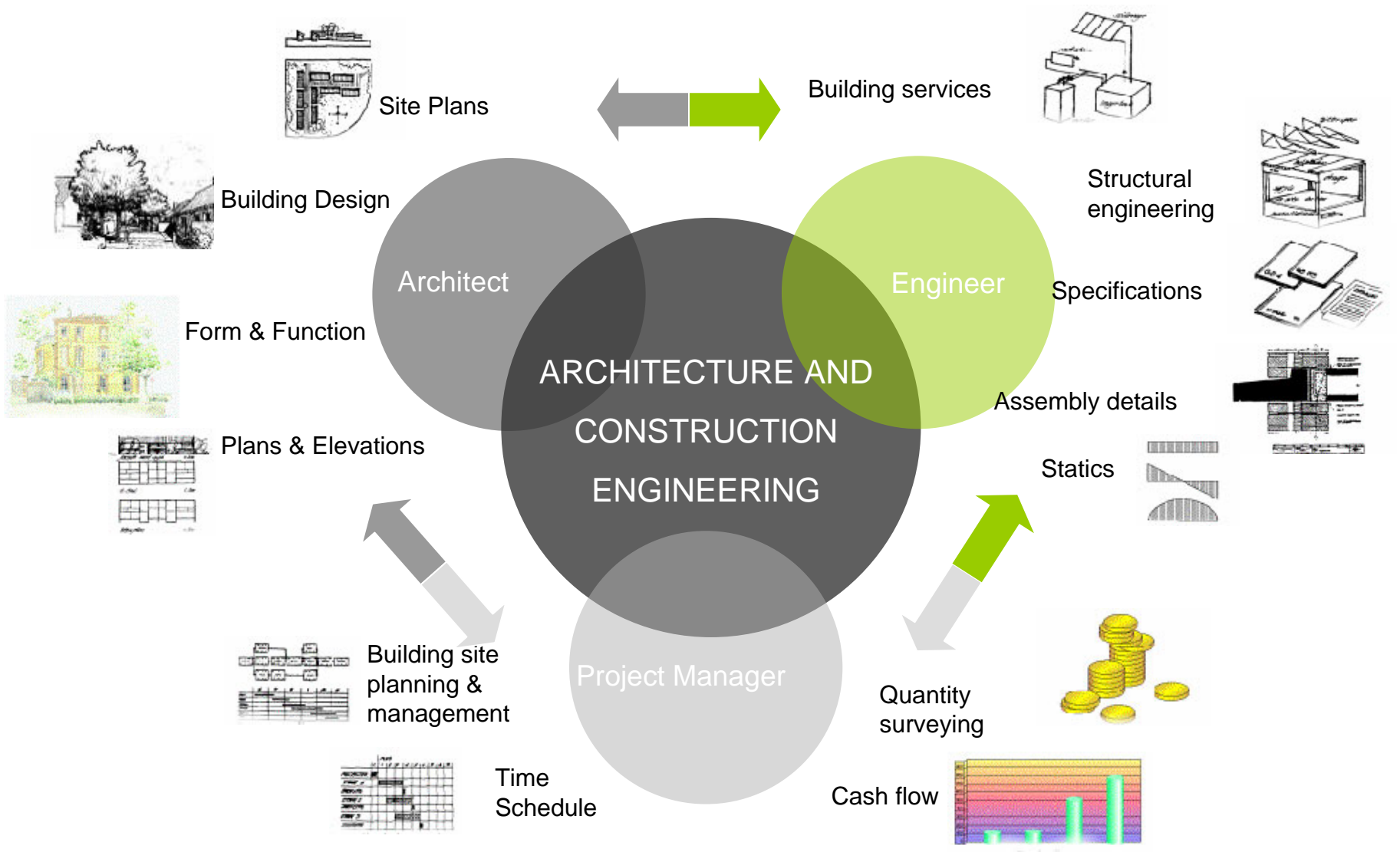
Krier inspired scheme with a highly formal plan. The final plan has a distinct separation between the large white buildings and the »urban villas« on the periphery of the scheme. The white buildings and the Business school constitute a unity, and relate to the blocks on the other side of the railway.

The urban villas generate the transition to the large Frederiksberg villas on the other edges of the scheme. The entire plan is controlled by two perpendicular axes that intersect in a small plaza in front of the main entrance to the Business School. Parking is located on the edges of the scheme with the exception of several special handicap places on the courtyards. In principle, the entire complex is free of automobile traffic, including the main central path and the plaza. However it has been difficult to persuade the tenants to abide by these ordinances.

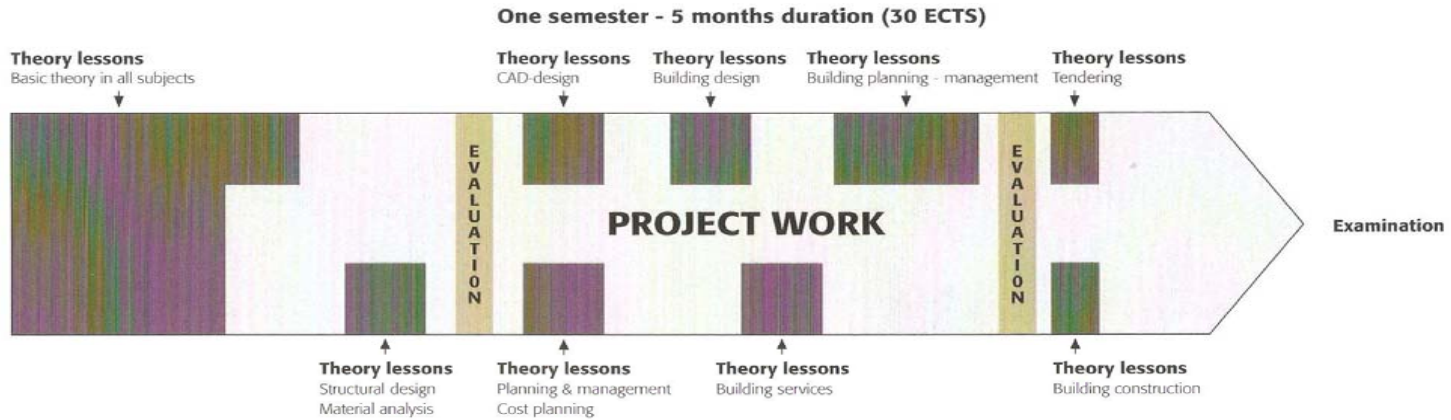
Seen on a broader social level, the scheme represents a step backwards in terms of housing context: The flats are traditional

with free standing cabinets that do not necessarily create harmonious spaces. The outdoor spaces are nicely planned but do not encourage social intercourse. The buildings are extremely traditional in type: walk-ups or balcony corridor blocks. One can compare them with other housing schemes in this issue, where great efforts were made to give extra quality to these areas: Stairways, common spaces and housing types. In this sense, Dalgas Have is a striking break with the long tradition in Danish housing, a tradition that places a deciding weight on the functional and social qualities of the housing unit and the surrounding areas, with an architectural expression that is informal and every day in character. Dalgas Have strives at something else: It is a festively dressed and elegant scheme, in which it would be a serious and sudden breach in style to appear in earth shoes and baggy jeans. In this way it is extremely characteristic of the period and in keeping with the spirit of the late eighties.

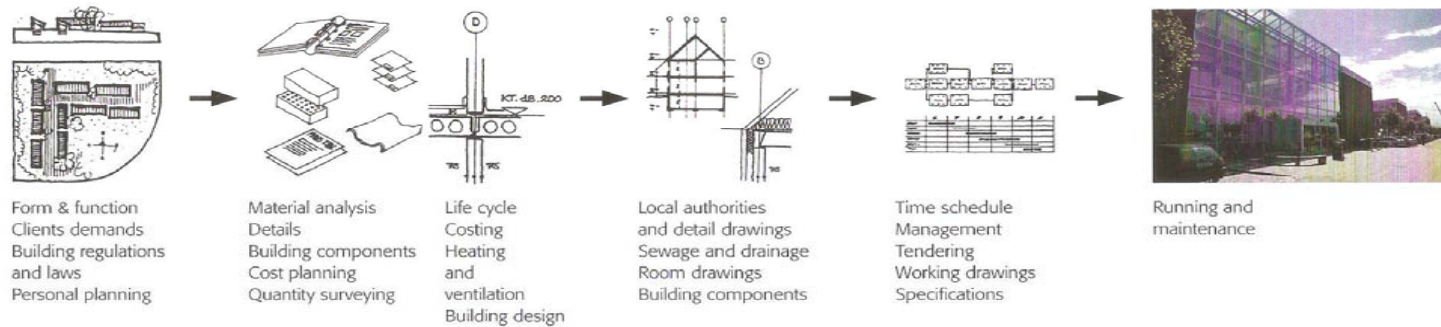
Course delivery



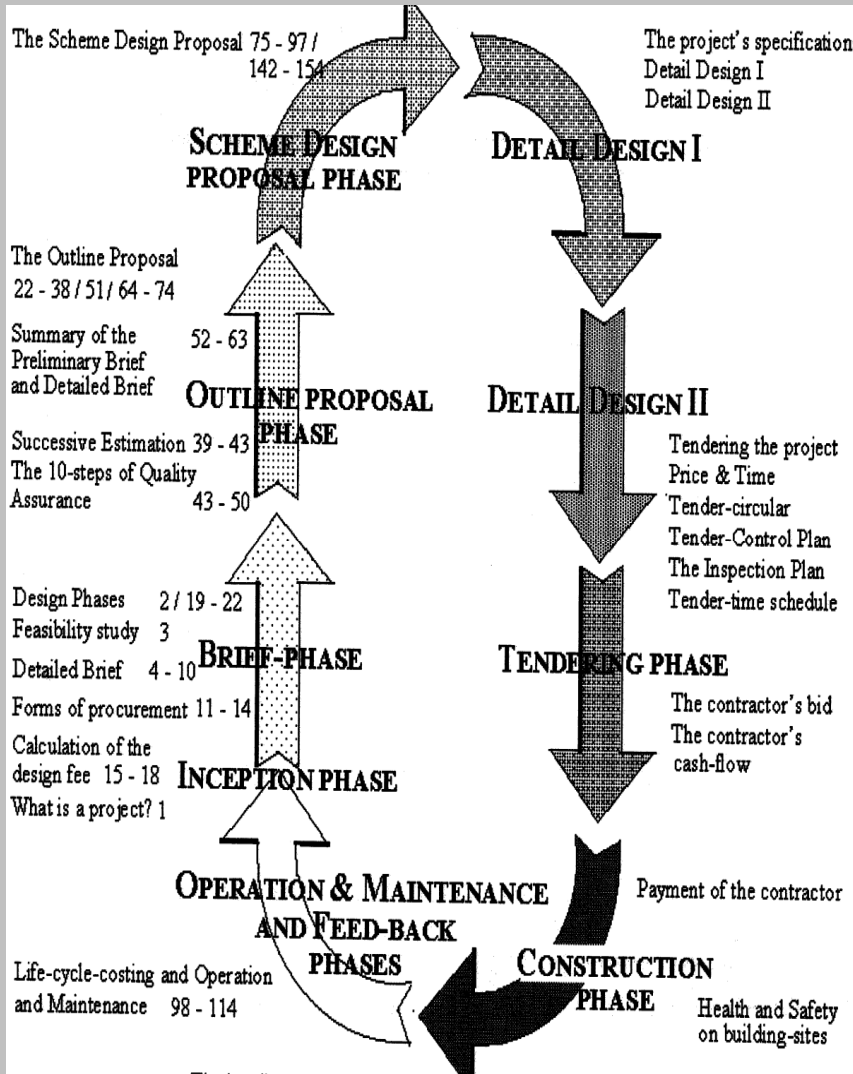
PROJECT BASED TEACHING



The working process



BPM & Project Work

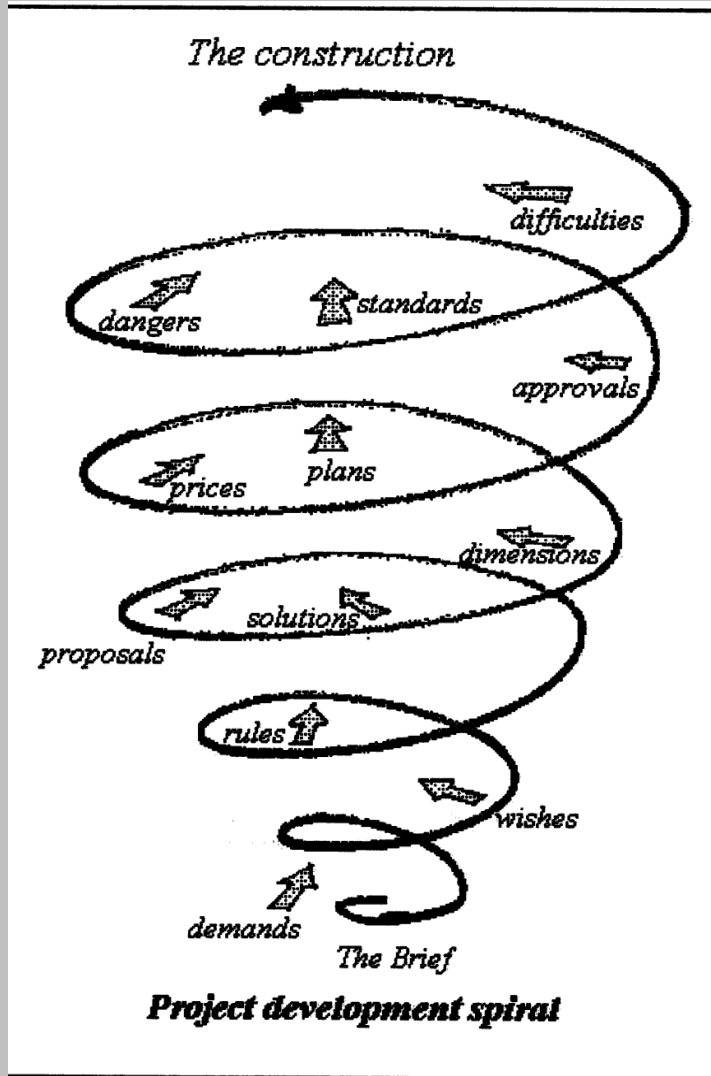


- The building, planning and management phases are used as template for each semesters project work

The active learning process:

- Critical thinking
- Problem solving
- Teamwork
- Negotiation skills
- Reaching consensus
- Taking responsibility for own learning
- Social participation

Learning and problem solving



- Student teams learn to cope with the spiraling problems that must be solved in semester long multi-disciplinary project.

Constructing Architect graduates competences

- Manage, design, plan and execute complex construction & Civil engineering tasks independently and in collaboration with other professionals.
- Manage administrative tasks and project management.
- Manage social and technological aspects in the design and implementation of construction projects
- Evaluate, combine and integrate research knowledge in solving complex technical construction issues.

Examination & assessment



- In all semesters, team and individually project work is assessed orally by lectures & professionals
- Digital presentation is now compulsory

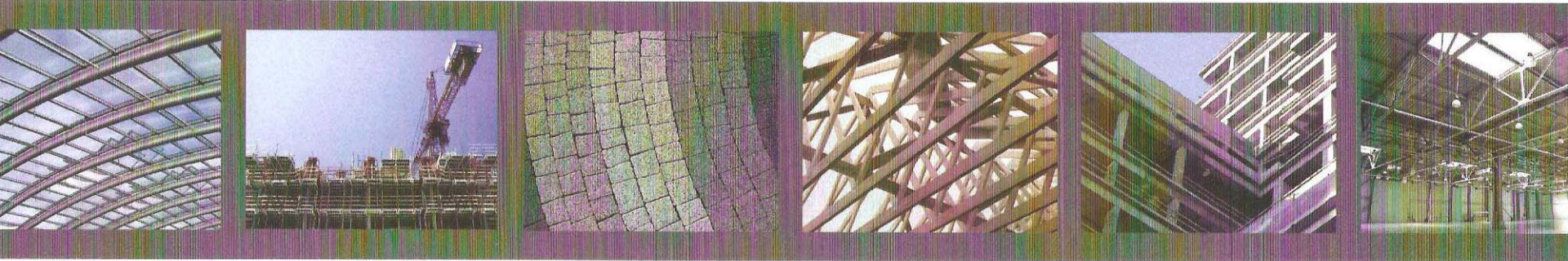
Danish Grading System

7-point grading scale

Grade	Description	ECTS	Old scale (00-13)
12	For an excellent performance displaying a high level of command of all aspects of the relevant material, with no or only a few minor weaknesses.	A	13 11
10	For a very good performance displaying a high level of command of most aspects of the relevant material, with only minor weaknesses.	B	10
7	For a good performance displaying good command of the relevant material but also some weaknesses.	C	9 8
4	For a fair performance displaying some command of the relevant material but also some major weaknesses.	D	7
02	For a performance meeting only the minimum requirements for acceptance.	E	6
00	For a performance which does not meet the minimum requirements for acceptance.	Fx	5 03
-3	For a performance which is unacceptable in all respects.	F	00

FIELD OF EMPLOYMENT

You are able to undertake many different functions and fulfil widely varying roles in the building and construction sector.



Banks and insurance companies

Banking
Housing societies
Insurance

Self employed

Consultant
Building companies
Estate agents

Public authorities

Local authorities
County council
Government departments
Civil defence

Contracting firms

Timber construction
Steel construction
Bricklaying and masonry
Concrete and earthworks
Drainage and sewage

BACHELOR OF ARCHITECTURAL TECHNOLOGY AND CONSTRUCTION MANAGEMENT

Building suppliers

Joinery and timber
Steel building components and fittings
Prefabricated concrete components
Sales representative

International organizations

Danida
Norad
Sida
Emergency relief work
British council
UNESCO

Miscellaneous

Housing co-operatives
Professional organizations
Education

Consultant/adviser companies

Architect
Landscape architect
Structural engineer
Service engineer
Management and planning

AN INTERNATIONAL EDUCATION

Within the building and civil engineering sectors



Architecture and Construction Management

- Project management
- Construction design
- Contract management
- Civil engineering
- Planning and management
- Conversion and renovation
- Architect design and technology
- Facility management
- Environmental technology

Denmark

- Denmark may be a small country (5 mill. people) but it has a big international reputation - not least in the quality of its educational policies and practice.
- The Danish government actively supports international links by welcoming students from all over the World. www.denmark.dk

Student exchange

- You have the possibility to study abroad for 3-9 months as exchange student i.e. in Europe, Australia, New Zealand, China.
- VIA has a very active study environment. You will meet exchange students from many countries.
- Study exchange to European institutions can be financially supported.

Entry requirements

- Certified craftsman with national craft certificate, City and Guilds or equivalent.
- Or documented work experience from the building or civil engineering sectors.
- A-level standard
- Students from Europe have the same status as Danish nationals, and are entitled to free education while studying in Denmark.
- The education is recognized by the Danish Ministry of Education. In most cases financial support/ study grants can be transferred while studying in Denmark.

International environment

- VIA hosts students from Scandinavia, France, Spain, England, Poland, USA, Australia and many more countries.
- You will meet many cultures and co-operate with students from many walks of life and different backgrounds.

INTERNATIONAL EXCHANGES AT VIA SCHOOL OF TECHNOLOGY

LANGUAGE OF TUITION

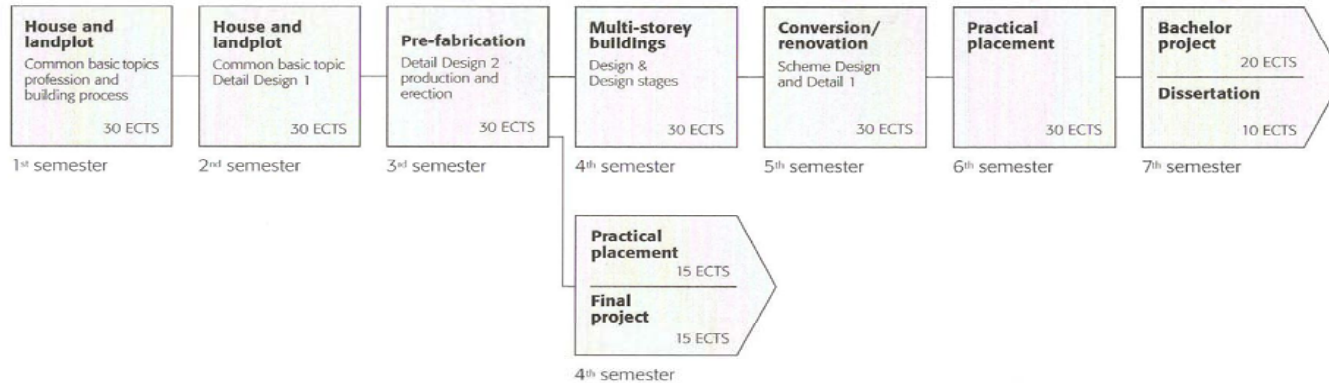
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WHILE STUDYING AT VIA YOU HAVE THE POSSIBILITY TO ATTEND EXCHANGE PROGRAMMES ABROAD IN 3., 4., 5., 6. AND 7. SEMESTERS

EXCHANGE POSSIBILITIES

High School graduates
Craftsmen or Building professionals



Employment or continue studies on a Masters Degree in DK or abroad

From the 5th semester onwards you can focus your studies on one of the two main themes: Building design or construction management.

While studying at VIA or abroad you will have the pleasure of studying, working together and socializing with students from many different countries for example:

- USA
- UK
- FRANCE
- ICELAND
- RUSSIA
- ITALY
- NEW ZEALAND
- HUNGARY
- FINLAND
- ICELAND
- RUSSIA
- ITALY
- SPAIN
- IRELAND
- POLAND
- UGANDA
- KENYA
- CHINA
- GERMANY
- AUSTRALIA
- NORWAY
- SWEDEN
- LITHUANIA
- LATVIA
- AUSTRIA
- DENMARK
- AND MANY MORE

More than 100 international co-operative partners

Australia	6 Universities	Latvia	1 University
Austria	2 Universities	Lithuania	3 Universities
Bulgaria	2 Universities	New Zealand	4 Universities
China	3 Universities	Norway	9 Colleges
Czech Republic	2 Universities	Poland	8 Universities
England	4 Universities	Portugal	1 University
Estonia	2 Universities	Romania	3 Universities
Finland	5 Polytechnics	Russia	3 Universities
France	12 Universities	Singapore	1 Polytechnic
Germany	6 Colleges	Spain	13 Universities
Greece	2 Colleges	Sweden	3 Universities
Holland	4 Universities		
Hungary	3 Universities		
Iceland	1 University		
Italy	5 Universities		

Make international
Networks for life



