

Hochschule für Technik Stuttgart

DEPARTMENT A ARCHITECTURE & DESIGN

BACHELOR & MASTER PROGRAMME



EXCHANGE GUIDE

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COME CREATE ARCHITECTURE

Architecture is the science and art of thoughtful housebuilding, encompassing consideration of shape, spatial composition, function, framework, cladding, climatisation, economy, context and history. The spirit of architecture appears in smallest construction details and vast urban agglomerations likewise. From the beginning of mankind, architecture has always demanded for the most gifted and brightest minds in society.

Education in architecture, its theory and methods, has ever since been a major subject evolving from Vitruv's codex of basics to a complex curriculum of today.

Since 1832, our school has been developing its own specific mark in architectural tuition. The HFT Stuttgart Department of Architecture and Design strongly advocates a thorough polytechnical approach in teaching and training architecture in various programmes:

- > Architecture (Bachelor & Master)
- > Interior Design (Bachelor & Master)
- > Urban Planning (Master)
- > International Project Management (Master)
- > Climate Engineering (Bachelor)

ARCHITECTURE B.A. & M.A.

Architects transform intellectual concepts into buildings that last for decades. In doing so, they have to understand the laws of gravity, economy, climate, human behaviour, urban legislation, fire protection and aesthetics. Profound education can trigger this set of virtues in every talented student.

BACHELOR PROGRAMME

A coherent mix of lectures, tutorials and project teamwork will supply you with just the skills you need to start creating architecture right from the beginning. With all the knowledge you acquire in our basic subjects you will soon be able to evaluate concepts, develop solutions and apply them appropriately. Our decisive focus on practice-oriented planning and construction as well as our generalist approach on all competencies will enable you to pursue a manifold career after graduating at the HFT.

The programme graduates with a degree in Bachelor of Arts.

MASTER PROGRAMME

Creating architecture today means working interdisciplinary, building ad-hoc-teams for each new project and recruiting as much expertise as possible. With our department-wide range of courses from interior design to international project management we simulate real-life project work in each single design assignment. With this profound training in integral design and team-building you will successfully master your career as an architect.

The programme graduates with a degree in Master of Arts.

INTERIOR DESIGN

INTERIOR DESIGN

B.A. & M.A.

Interior design fills and enriches space created by architecture – by means of light, colour, texture and furniture; or, with trade fair construction and scenography, it creates temporary realms within bigger background structures. Compared to architecture, interior design changes its look in shorter waves, granting trends and zeitgeist more room and relevance.

BACHELOR PROGRAMME

A densely packed portfolio of courses enables you to design space using the appropriate techniques, tools and objects. Each semester challenges your readiness to grasp a project, develop the right concepts, defend, refine and present your idea to the audience. More often than in our architecture courses, you may want to realise your projects, especially furniture, in our highly professional workshop department.

The programme graduates with a degree in Bachelor of Arts.

MASTER PROGRAMME

In our International Master of Interior-Architectural Design (IMIAD) we take the course portfolio of our Bachelor programme to the next level, first of all by embedding it into an international cooperation with other schools worldwide. Working your way through complex interior design projects interdisciplinary and together with students from different countries will train your creativity and team-leading competencies. Proceeding from a Bachelor degree (B.A.), participants receive the qualification International Master of Arts (M.A.) in Interior-Architectural Design after the successful completion of four semesters. The IMIAD qualification is recognised by all partner institutions.

CLIMATE ENGINEERING

CLIMATE ENGINEERING

B.ENG.

Our new study programme Climate Engineering is the youngest member of HFT Stuttgart's Department A. Focusing on minimising resource consumption and optimizing comfort levels in architecture and urban planning, it is the answer to rising demands for experts in architecture-related technologies and building physics.

BACHELOR PROGRAMME

Equipped with profound knowledge about architectural, structural, energetic and thermodynamic correlations and their utilisation in terms of design and construction, predominantly you will exercise interdisciplinary cowork with architects and urban planners of our various department courses. Confronted with rising complexity you learn how to develop appropriate and visionary solutions using state-of-the-art simulation tools.

The course graduates with a degree in Bachelor of Engineering.

INTERNATIONAL PROJECT MANAGEMENT

INTERNATIONAL PROJECT MANAGEMENT M.ENG. & MBA

Greater building projects essentially demand for professional project management. With globalisation of competition and shifting markets, vast progress in information and design technology (BIM), emergence of new building techniques and rising ecological standards, the need for project management rises ever more, while its tools and strategies have to be revised and refined constantly.

MASTER PROGRAMME

Our course »International Building Project Management« (IBPM) provides you with the knowledge and tools to structure and manage complex projects: either self-employed, as project entrepreneur for an international consulting company or as a project-leading architect or engineer in a design firm.

In our course »International Infrastructure Technology & Management« (IITM) you will be equipped with fundamental technical and management skills enabling you to successfully develop and implement local and international infrastructure strategies for the future.

Both courses finish with a degree in Master of Engineering. An additional degree in Master of Business Administration may be obtained after absolving a guest semester at the Liverpool John Moores University.

URBAN PLANNING

URBAN PLANNING M.ENG.

Department A Urban Planning aims for qualifying team-minded urban planners by imparting fundamental knowledge in urban design, urban development and urban regeneration. Starting from these fundamentals, students may specialise in fields such as project development, energy efficiency or the design of urban space.

MASTER PROGRAMME

The special characteristics of the programme is its practice-oriented training with theoretical background. The accreditation report highlights the integrative study model as a unique innovative approach: during three semesters, theory is linked to hands-on urban planning concepts in study projects that focuses on urban development, urban design and urban regeneration. Results are presented to local stakeholders and documented in a comprehensive report.



BASIC COURSES

ORIENTATION WEEK SFA

OBJECTIVES

Situated at the beginning of the semester, our orientation week allows you to become acquainted with each other and with our school. During this week professors and assistants will review the study plans with you and counsel you for an ideal individual study plan for the exchange semester. Additionally, HFT students and exchange students will work together on a small design task which will be announced at the first day.

FORMAT

Tutorials & project work

COURSE LANGUAGE

English / German

CREDITS

3 CP

GERMAN CULTURE & SOCIETY

OBJECTIVES

Our international students are offered an overall picture of the German society, focussing on our differences of cultural values and resources. Important topics covered during the course include the following:

- > Educational system
- > Demographic transformation
- > Liberation of women
- > Minorities
- > Migrants and refugees
- > Social security system
- > Status quo of reunification
- > Political system
- > German economy

COURSE LANGUAGE

English / German (min. C1)

CREDITS

2 CP

For further information about this course please contact the International Student Office at the HFT.

BASIC COURSES

INTERCULTURAL COMMUNICATION

OBJECTIVES

- > What is »culture«?
- > Perception and ethnocentrism
- > Cultural standards and dimensions
- > Body language
- > What is »typically German«?
- > Existing value systems and ideals
- > Helpful techniques for coping with intercultural challenges

COURSE LANGUAGE

German (min. B1)

CREDITS

2 CP

For further information about this course please contact the International Student Office at the HFT.

ART & ARCHITECTURE HISTORY

OBJECTIVES

This course addresses Bachelor and Master students and focuses on architectural highlights in Stuttgart, e.g. Staatsgalerie, Weißenhofsiedlung, Kunstmuseum, Mercedes-Benz Museum.

Furthermore, we will explore the birthplace of the famous philosopher Friedrich Wilhelm Hegel in Stuttgart and the city of Tübingen where he used to study. We will also make an excursion to Marbach and visit the place where the dramatist Friedrich Schiller was born.

COURSE LANGUAGE

English

CREDITS

2 CP

For further information about this course please contact the International Student Office at the HFT.

BASIC COURSES

GERMAN AS FOREIGN LANGUAGE

International students enrolling for our degree programmes taught in German language are advised to prepare up to a German language course level of B1 or higher in order to be able to follow course lectures. The International Office (ISO) of the HFT Stuttgart offers both residential and online German courses for exchange students from our partner universities and for international degree students. Accreditation is based on mandatory attendance and successful completion of a final language test.

GERMAN A1 BEGINNERS BASIC

COURSE DURATION

4 weeks (80 hours)
including 20 days x 4 hours,
(4 x 45 minutes / day)

CREDITS

3 CP

FEES

100 Euro (books not included)

GERMAN A2 BEGINNERS BASIC

COURSE DURATION

44 weeks (80 hours)
including 20 days x 4 hours
(4 x 45 minutes / day)

CREDITS

3 CP

FEES

100 Euro (books not included)

For further information about our language courses please contact the International Student Office at the HFT.

BASIC COURSES

GERMAN A2 BEGINNERS BASIC

COURSE DURATION

10 weeks (40 hours) including
weekly lessons with 4 teaching hours
(4 x 45 minutes) per week

CREDITS

2 CP

FEES

Free after successful completion of course A1 (books not included)

GERMAN B1 INTERMEDIATE

COURSE DURATION

10 weeks (40 hours) including
weekly lessons with 4 teaching hours
(4 x 45 minutes) per week

CREDITS

2 CP

FEES

Free after successful completion of course A2 (books not included)

For further information about our language courses please contact the International Student Office at the HFT.

SELF LEARNING ONLINE COURSES

As exchange student you are eligible to take part in our online German courses organised by DUO DEUTSCH-UNI ONLINE. Take advantage of learning German from at home for up to 3 months prior to your arrival in Germany, allowing you the best preparation for your stay in Germany. Successful students can earn up to 3 credit points.

For further information about our language courses please contact the International Student Office at the HFT.



ERASMUS CURRICULUM B.A. ARCHITECTURE

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BACHELOR CURRICULUM

The Bachelor is the first part of our Bachelor/Master system and begins in summer and winter semester. The programme lasts six semesters, including the Bachelor thesis.

Our Bachelor programme is divided into modules. The curriculum focuses on technical, design and organisational skills, our Integrated Projects being the central topic. They allow you to work collaboratively and interdisciplinary which we consider as utterly crucial in the professional practice of today.

For our incoming exchange students we created an own study plan. This special curriculum is divided into basic courses, major courses and elective courses. All modules contain a variety of subjects reflecting on major competencies within our programme.

The basic courses offer several language courses to achieve a basic level of German and English and furthermore a course about general information about German society and culture. To improve the integration process with other students there will be a small design project at the beginning of the semester.

The major courses contain our Integrated Projects. In teams of two or three you will work on an architectural task including design, construction and HVAC technology. These main subjects will be tutored by a group of professors and assistants. Depending on the background knowledge it is possible to choose between projects. Before registering for these courses the background knowledge has to be checked during the orientation week. During this week you will compile your ideal schedule for the semester with support from the assistants.

In the elective courses we are offering workshops for various subjects. Their aim is to provide supplementary knowledge and skills in the field of their major subjects which you can apply to your projects. The contents of these courses comprise general topics of the cultural, social and technical everyday life of architects.

Please note that not all elective courses take place every semester.

**INTEGRATED
PROJECT 2**
WOOD CONSTRUCTION**OBJECTIVES**

- > Work on a wood construction project and discuss your proposal with tutors in design, building construction and structural design
- > Understand the forming and joining of wood and wood-based materials to elementary building components
- > Construct and design shear walls, load-bearing, space enclosing internal and external wooden building components
- > Familiarise with the principles of skeleton construction techniques based on a building made of wood
- > Recognise the interaction between structure, space enclosure, building technology and building physics based on different design techniques in wood construction
- > Be aware of the impact of multiple layer wall structures onto physics, statics, and design of a building

FORMAT

Lectures & tutorials, project team work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

8 CP + 5 CP

BI2 / BUILDING CONSTRUCTION**INTEGRATED PROJECT 2**

> BKE3 / Building Construction 3 8 CP

TI2 / TECHNICS**INTEGRATED PROJECT 2**

> TWL3 / Structural Design 3 3 CP
> KLB / Climate Adapted Architecture 2 CP

WORKLOAD

154 hours classroom attendance
236 hours private study

**INTEGRATED
PROJECT 3**
STEEL CONSTRUCTION**OBJECTIVES**

- > Work on a complex steel construction project and discuss your proposal with tutors in design, building construction, structural design and building services
- > Learn about steel construction and its specific features and options for load-bearing structures in the context of building physics and required constructional needs
- > Verify your design decisions with advanced simulation tools considering heat, climate, energy and light
- > Learn more about the material properties of steel in terms of manufacturing and processing, application fields, special material characteristics of linear structures made of steel
- > Understand the interaction between structures and its usage, the technical realisation process, the use of space and the appearance after completion
- > Acknowledge structure as means of design, learn about regulatory systems, building hull systems (facades etc.) and building physics (heat bridges etc.)
- > Use modern programming tools to objectify planning decisions

FORMAT

Lectures & tutorials, project team work

COURSE LANGUAGE

German (Lectures) / English (tutorials)

CREDITS

8 CP + 8 CP

BI3 BUILDING CONSTRUCTION**INTEGRATED PROJECT 3**

> BKE4 / Building Construction 4 8 CP

TI3 TECHNICS INTEGRATED PROJECT 3

> TWL4 / Structural Design 4 3 CP
> SWZ / Simulation Tools 2 CP
> GET3 / Building Services and HVAC 3 3 CP

WORKLOAD

224 hours classroom attendance
256 hours private study

URBAN PLANNING 2
STB2**OBJECTIVES**

- > Criteria and methods of urban planning with a focus on residential housing
- > Local baseline study (urban planning, traffic, environment, public space)
- > SWOT analysis (strength, weakness, opportunity, threat)
- > Development of planning objectives and planning programmes in consultation with the cooperating community
- > Main features of urban master planning, consideration of sectoral development concepts (use, public and green spaces, traffic, design)
- > Development of an urban planning concept
- > Development of an explanatory report and an urban planning calculation
- > Presentation of the whole concept

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

5 CP

WORKLOAD

56 hours classroom attendance

94 hours private study

**ARCHITECTURAL
VISUALISATION**
ADS**OBJECTIVES**

On the basis of a render assignment you will learn profound techniques of architecture visualisation. You will learn how to handle 3D-models, set up light rigs, compose real life textures and render the final images without losses in time and quality. The primarily applied programmes are Cinema 4D® with Arnold® Renderer and Adobe Photoshop®.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

4 CP

IMPORTANT NOTE

Qualifying test

DESIGNING 3
ETW3**OBJECTIVES**

- > Design with focus on concept development for extensive architectural tasks and complex building types
- > Concept, iteration and synthesis in the design process
- > Orientation, topography, site and urban scale as determining factors in architectural design
- > Balancing out architectural elements, typologies and tectonic systems in consideration of the design process

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

4 CP

ELECTIVE COURSES

CAAD CAD

OBJECTIVES

- > Digital Image Processing: basics, import of images and graphics, selections, colour corrections and histogram, layers, masks, alpha channels
- > CAD: basics, 2D drafting, 3D construction, layer management, editing, export
- > Graphics: Plan- and photomontage, layout, typography
- > Output: colour management, printing, PDF

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

4 CP

IMPORTANT NOTE

Pre-application required due to limited number of participants

CLIMATE ADAPTED ARCHITECTURE KLB

OBJECTIVES

- > Understanding of building design as an integrative process focussing on climate-adapted construction
- > Appropriate appliance of technology into the architectural design
- > Basics of active and passive use of solar energy and its influence onto building design
- > Daylight and artificial lighting in architecture
- > Basic ecological topics related to architecture
- > Utilising knowledge in planning processes

FORMAT

Lectures

COURSE LANGUAGE

German (min. B1)

CREDITS

2 CP

IMPORTANT NOTE

120 mins exam at the end of the semester

ELECTIVE COURSES

BUILDING SERVICES & HVAC 1 GET1

OBJECTIVES

- > Basics of domestic installation and integration into architecture
- > Basics of installation planning
- > Drinking hot & cold water supply
- > Basic knowledge in sewer lines

FORMAT

Lectures

COURSE LANGUAGE

German (min. B1)

CREDITS

2 CP

IMPORTANT NOTE

120 mins exam at the end of the semester

EXCURSION EXK

OBJECTIVES

You will visit a great deal of selected architectural projects in Europe under the guidance of your lecturer. Special excursions may also lead overseas. As a prerequisite, you will have to compile a programme for the visited region or city. Individual objects will be selected, analysed and documented via on-the-spot-presentations.

FORMAT

Travel & project work

COURSE LANGUAGE

German / English

CREDITS

1 CP

FEES

The fees will be 300–450 Euro approximately per person (payable at the beginning of the semester)

IMPORTANT NOTE

- > Only during the summer semester
- > Pre-application required due to limited number of participants

ELECTIVE COURSES

RESIDENTIAL HOUSING THEORY WBT

OBJECTIVES

- > Examination of various types of housing on the basis of selected projects: Social housing, luxury apartments, provisional housing, living of elderly and handicapped people, multi-generational housing, student housing etc.
- > Analysis of essential parameters of living, illustrated by selected aspects: location, urban context, social environment etc.
- > Understanding the relationship between types of living, types of housing and use of space
- > Ability to apply the theory of residential housing onto the design process

FORMAT

Lectures & project work

COURSE LANGUAGE

German

CREDITS

2 CP

ARCHITECTURE RECYCLING & TRANSFORMATION RVB

OBJECTIVES

- > Presentation of building projects in existing structures
- > Discussion of project-specific demands and solutions
- > Relating real-life projects to theoretic concepts of preservation, transformation and re-use
- > Evaluation of real-life-solutions in terms of cultural impact and appropriateness

FORMAT

Lecture series

COURSE LANGUAGE

German

CREDITS

2 CP

ELECTIVE COURSES

ARCHITECTURAL HISTORY 2 BGS2

OBJECTIVES

In a series of lectures about life and work of selected architects and engineers you will receive an overview of the architecture of the 20th century, its predecessors in the 19th century and their effect on current building practice. The main threads of modern architecture will be emphasised by presenting their main protagonists. Connections between life and work of an architect are made. In addition, you will train your ability to associate an architectural oeuvre with its biographical, temporal, socio-political and economic context.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

2 CP

ARCHITECTURAL HISTORY 3 BGS3

OBJECTIVES

- > Age of enlightenment and industrialisation
- > Evolution of modern architecture from classicism to the 20th century
- > Coherence and development in modern architecture
- > Overview of the determining factors and architectural theories of architectural modernism
- > Verification on the basis of real buildings analysis
- > Fundamentals of architectural history of the last 250 years as a basis for your own work and for a critical analysis
- > Complexity of epoch definitions
- > Awareness for the relation between theory and practice

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

3 CP

IMPORTANT NOTE

90 min. exam at the end of the semester

**ARCHITECTURE &
PLACE**
SFA**OBJECTIVES**

In order to understand the complex relationship between architecture and its urban setting we will visit places in and around Stuttgart and discuss examples and design concepts for various strategies of interaction. Lectures on the history of Stuttgart as well as on the history of municipal planning will provide a background for profound discussion.

FORMAT

Lectures & tutorials

COURSE LANGUAGE

English

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

**ARCHITECTURAL
PHOTOGRAPHY**
SFA**OBJECTIVES**

By shooting images of houses, interiors and urban scenes you learn to perceive architecture intensely. Deciding for the right perspective, the ideal light set and appropriate image composition creates a chance to reveal the very essence of architecture.

In this course, the basic principles of photographic techniques and image processing will be taught in lectures and exercises. You will create a portfolio consisting of self-composed images of Stuttgart architecture.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

**INTRODUCTION
TO PROJECT
MANAGEMENT**
EPM**OBJECTIVES**

This course provides a profound insight into building project management and its operational methods. Main topics are: tools of project management, facility management, related law and knowledge management.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

**BUILDING ANALYSIS &
CONSERVATION**
BDP**OBJECTIVES**

- > History, terms and methods of built heritage conservation
- > Building analysis methods: graphic building survey, photographic documentation, building description, surface and colour probe, dendrochronologic age measurement of building timber, archaeological and archive investigation
- > Analysis and visualisation of construction phases
- > Examination report
- > Recommendations for building reconstruction or sanitation

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

4 CP

IMPORTANT NOTE

Course takes place on irregular basis



§ 7 HOAI

(5) Sofern nicht bei Auftragserteilung etwas anderes schriftlich vereinbart worden ist, wird unwiderräglich vermutet, dass die jeweiligen Mindestsätze gemäß Absatz 1 vereinbart sind.

ELECTIVE COURSES

ARCHITECTURAL HISTORY & THEORY

GTA

OBJECTIVES

Learn more about the ideas behind building concepts, read and discuss historical and contemporary texts and statements from world-famous architectural theorists.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (min. Level C1)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ART & CULTURE HISTORY

KKG

OBJECTIVES

By drawing and building architects contribute to our cultural heritage. That implies a basic historical understanding and knowledge of the main ideas of philosophy, science and art. During this course you will learn to distinguish between important and exchangeable, between central and marginal elements of culture.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (min. B1)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ELECTIVE COURSES

LANDSCAPE PLANNING

FGP

OBJECTIVES

- > The elements of landscape architecture: floor covering, walls, hedges etc., their composition and spatial effect
- > Application and needs of various plants
- > Appropriate use of water, outdoor furniture and illumination
- > Various types of public space
- > Ecology, nature protection and landscape history
- > History of garden design, European and worldwide

You will develop your own landscape design, the lectures support the project of your choice. The level of detail should correspond with the project's complexity and group size.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

RESIDENTIAL HOUSING

SFA

OBJECTIVES

This course focuses on the meaning of dwelling in general and casts light on residential housing from different angles:

- > Housing requirements, space, architecture, sociology
- > Different design approaches: living space, spatial relations, movement, outdoor space
- > Typology: shape, accessibility, interior typology

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

4 CP

IMPORTANT NOTE

Course takes place on irregular basis

**EXPERIMENTAL
ARCHITECTURE**

SFA

OBJECTIVES

Experimenting with architecture means trying out spatial concepts that do not obey standards (of shape, texture, function, structure and so on) but eventually prove that other or new concepts work, too. We experiment with models, miniature prototypes made out of clay, gypsum, wire, paper etc., drawings, texts - whatever you like.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

4 CP

FEES

Approximately 15 Euro per person
(payable before the beginning of the semester)

IMPORTANT NOTE

- > Course takes place on irregular basis.
- > Pre-application required due to limited number of participants

**URBAN PLANNING IN
EXISTING STRUCTURES**

STB3

OBJECTIVES

- > Urban planning history
- > Urban renewal & conversion
- > Urban development measures
- > Advanced status-quo-analysis
- > Integrated urban design
- > Solving a real-life planning-task

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures, min. B1) / English (tutorials)

CREDITS

4 CP

IMPORTANT NOTE

- > Course takes place on irregular basis
- > Pre-application required due to limited number of participants

**BUILDING IN
EXISTING STRUCTURES**

BBS

OBJECTIVES

This course raises your awareness for planning and building within a historical environment and enables you to evaluate different approaches of building within existing structures. We provide you with information about:

- > Methods to analyse historical architecture
- > Reconstruction strategies
- > History and theory of historical heritage preservation
- > Current regional examples

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

BASICS OF DESIGN 2

GST2

OBJECTIVES

In this course we will deal with colour in architecture. Based on lectures on famous colour systems (Itten, Le Corbusier), you will understand the impact of colour by systematic examination and precise observation. In exercises you will mix your own colours, produce colour sets, compare, discuss and evaluate them. The experience you gain will help you utilising colour more audaciously.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

4 CP

IMPORTANT NOTE

Course takes place on irregular basis

ERASMUS CURRICULUM M.A. ARCHITECTURE

MASTER CURRICULUM

The main focus of the Master programme is set on designing and realising architecture. All the subjects are based on contemporary methodologies and on holistic design processes to solve interdisciplinary projects. According to this we support students to enlarge their knowledge in theoretical and practical design tasks to boost their competencies for planning and realisation processes.

Our integrative teaching methods comprise intensive studio work in small groups to successfully work on solutions for various architectural design tasks.

The main focus in the first semester is on construction-aware-design. Students will be sensitised for our interdisciplinary design philosophy. During the second semester we rely on regarding architects as creative generalists who can solve complex concepts by holistic methods.

ERASMUS CURRICULUM M.A. ARCHITECTURE

Based on the knowledge of the first and second semester students will learn how to develop own projects thoroughly and may prove that they are able to transfer theoretical concepts into detailed practical realisation. At the same time they can prepare themselves for future activities and positions of building realisation e.g. as a project leader who focuses on high quality architecture as well as on the realisation of projects.

The basic courses offer several subjects such as language courses to achieve a basic level of German and English and furthermore a course about general information on German society and culture.

The major courses contain our major Integrated Projects.

In a team you will work on an architectural task including design, construction and HVAC technologies. These main subjects will be tutored by a group of professors and assistants. Depending on your background knowledge it is possible to choose the different subjects. Before applying for these courses the background knowledge has to be proved during the orientation week. During this week you will compile your ideal schedule for the semester with support from the assistants.

The elective courses offer workshops for diverse themes. The aim of these subjects is to provide supplementary knowledge and skills to the students in the field of their major subjects which they can then apply to their projects. The contents of these courses always comprise general topics of the cultural, social and technical every day life of architects.

Please note some elective courses take place on irregular basis.

INTEGRATIVE DESIGN

P1

OBJECTIVES

In addition to working on a major design project you will learn how to integrate design concepts with appropriate engineering. The seminar focuses on the design process and realisation in consideration of context, function, structure, material, climate impacts and economy. The effect of these parameters on detailing and joining will be discussed and they will be checked for their adequacy and sustainability.

The seminar will allow attention to several aspects, e.g. facade design, energy consumption, demands on natural light, and to their influence on the detailed design process regarding design, construction, economy and ecology.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

11 CP + 4 CP

IE / INTEGRATIVE DESIGN P1

> EBK / Design and Building Construction 10 CP

> TIE / Theory Integrative Design 1 CP

TP / TECHNICS P1

> TRW / Structural Framework 2 CP

> GET / Building Services and HVAC 2 CP

WORKLOAD

126 hours classroom attendance

324 hours private study

STRUCTURAL DESIGN

P2

OBJECTIVES

Working on a structural design project you will acquire in-depth capability to develop a concept into a fully functional, structurally sufficient building design. You will be enabled to identify the aesthetic potential of a structure during the design and construction process. You learn to cooperate competently with the structural engineer considering the decision for specific load-bearing structures.

You will work on a design project under realistic conditions in order to provide solutions for a support structure framework with its technical and design aspects. Realisation is achieved as a whole and in detail. Qualified supervision is provided simultaneously by a lecturer of architecture and one of civil engineering.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

12 CP

KE / Structural Design P2

> KOE / Structural Design 10 CP

> TKE / Theory Structural Design 2 CP

WORKLOAD

98 hours classroom attendance

262 hours private study

**BASICS OF DESIGN &
PRESENTATION**

GD2

OBJECTIVES

- > You will train designing by concentrating on single aspects of more complex projects
- > Find, refine and enrich spatial concepts
- > Learn about design theories and try to apply them
- > Learn how to develop your design methodically: trial and error, refinement, simplification, rejection, iteration

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

7 CP

GD2 / BASICS OF DESIGN & PRESENTATION

- | | |
|--------------------------|------|
| > STE / Impromptu Design | 3 CP |
| > ETH / Design Theory | 1 CP |
| > EME / Design Methods | 3 CP |

**ARCHITECTURAL
PRESENTATION**

GD3

OBJECTIVES

- > The art of story-telling
- > Know your listener
- > Start from the beginning
- > Find strong images and analogies
- > Create mood-boards
- > Screen / visualise your project
- > Get acquainted to the stage

FORMAT

Lectures & tutorials

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

2 CP

**CLIMATE &
ARCHITECTURE**

KUA

OBJECTIVES

- > Traditional building strategies in different climate zones
- > Understanding the concept of vernacular architecture
- > Natural climate and room climate
- > Mudbrick building
- > Natural rainwater retrieval
- > Natural sanitation

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

3 CP

IMPORTANT NOTE

Pre-application required due to limited number of participants

**ENGLISH
FOR ARCHITECTS**

EFA

OBJECTIVES

- > Refreshment and reactivation of your English skills in reading, writing, listening comprehension and speaking
- > Ability to read technical literature
- > Ability to discuss any professional input that you have read
- > Communication with foreign colleagues
- > Communication by telephone, email
- > Presentation of your work

FORMAT

Lectures & tutorials

COURSE LANGUAGE

English

CREDITS

2 CP

IMPORTANT NOTE

60 mins exam at the end of the semester

URBAN PLANNING

STB 1

OBJECTIVES

- > Various approaches to urban design based on the contextual conditions of the place
- > City structures according to their date of origin and cultural background
- > Interdependency of housing typology, population density and social situation
- > Methods for analysing building and urban design projects
- > Profound comprehension of city and context

FORMAT

Lectures

COURSE LANGUAGE

German (min. B1)

CREDITS

3 CP

COST MANAGEMENT

KMA

OBJECTIVES

- > Cost classification according to DIN 276
- > Levels of cost calculation
- > Methods of cost planning and survey related to building components, submission units, parameters, utilisation
- > Cost-oriented design
- > Managing cost databases
- > Design of project-specific cost parameters
- > Change and addition management
- > Building related costs
- > Job description according to HOAI (honorarium code for architects and engineers)

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (min. B1)

CREDITS

2 CP

IMPORTANT NOTE

90 mins exam at the end of the semester

**PROJECT DEVELOPMENT**

PRE

OBJECTIVES

- > Characteristics and tools of real estate project development
- > Process & phases
- > Tools
- > Financing
- > Marketing
- > Facility Management
- > Redevelopment
- > Success criteria

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

3 CP

ARCHITECTURAL SPACE

GD1

OBJECTIVES

- During a three-day seminar in a monastery in Bronnbach you will work on a small design project:
- > Application of natural light
- > Design process, place, space definition
- > Conscious and unconscious perception
- > Design methods, extended repertoire of creative tools
- > Characteristics and features of architectural elements, design application, spatial specification

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

4 CP

FEES

The fees will be approximately 150 Euro per person (payable at the beginning of the semester)

IMPORTANT NOTE

Pre-application required due to limited number of participants

ELECTIVE COURSES

ARCHITECTURE & PLACE SFA

OBJECTIVES

To understand the complex relationship between architecture and its urban setting we will visit places in and around Stuttgart and discuss examples and design concepts for various strategies of interaction. Lectures on the history of Stuttgart as well as on the history of municipal planning will provide a background for profound discussion.

FORMAT

Lectures & tutorials

COURSE LANGUAGE

English

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

BUSINESS ECONOMICS FOR ARCHITECTS BWL

OBJECTIVES

- > Basics of business economics, e.g. cost effectiveness, productivity
- > Basics of business management, e.g. exchange of goods and services, accounting and finance
- > Basic information on business start-up and legal forms of organisation

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ELECTIVE COURSES

LANDSCAPE PLANNING FUG

OBJECTIVES

- > Basics of landscaping and appropriate design tools
- > Understanding and managing the interaction between building design and exterior space
- > Understanding building design and landscape planning as an aesthetic and functional unit

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures), English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ARCHITECTURE & FILM SWF

OBJECTIVES

This course covers the resemblance of architecture in film. Film and architecture work hand in hand, and every film narration performs in space, internal, external, in between. In the first part of the course you will hear lectures on the profession of set designers, film architects, basic terminology of film-making and cinematic concepts as well as architectural space and colour symbolism. In the second part you will work on a film production project, based on an excerpt of a short story.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures), English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ELECTIVE COURSES

SPECIAL TOPICS IN URBAN PLANNING SWF

OBJECTIVES

- > Complex problems in urban planning projects
- > Analysis methods, concepts

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German

CREDITS

2 CP

IMPORTANT NOTE

- > Course takes place on irregular basis
- > Pre-application required due to limited number of participants

BUILT HERITAGE CONSERVATION DMP

OBJECTIVES

Demolition, preservation, reconstruction, re-use: options like these most often need to be considered when planning in urban context. To give an overall idea of the architectural strategies available you will first of all take a close look at history. Mankind has always developed a specific attitude towards the old, mostly pragmatic, often ideologic, sometimes radical. Knowing about history, principles and tools of heritage conservation you will test your skills working on a small object and develop suitable ideas for its conservation and re-use.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ELECTIVE COURSES

PSYCHOLOGY PSY

OBJECTIVES

- > Parameters of human interaction behaviour
- > Perception and information processing
- > Communication patterns, consulting basics
- > Standards of leadership
- > Teamwork aspects
- > Basics of perceptual psychology

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures) / English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

IMPROMPTU DESIGN 2 STG

OBJECTIVES

- > Train creativity
- > Engage in small projects and details in short time
- > Produce, reshape, dismiss concepts
- > Present ideas, tell the story

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures), English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ELECTIVE COURSES

ARCHITECTURE & MATERIAL

MUA

OBJECTIVES

- > Material science
- > Physical, optic and haptic characteristics
- > Retrieval and production of materials
- > Joining and application
- > Advanced materials and technologies

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures), English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ARCHITECTURE & STRUCTURE

TUA

OBJECTIVES

- > Analyse buildings concerning structural framework and joining
- > Understand frameworks both aesthetically and technically
- > Identify structural quality
- > Know more about framework-inherent design rules
- > Know more about structural logic to better communicate with civil engineers

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (min. B1)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ELECTIVE COURSES

BUILDING IN EXISTING STRUCTURES

BIB

OBJECTIVES

This course raises your awareness for planning and building within a historical environment and enables you to evaluate different approaches of building within existing structures. We provide you with information about:

- > Methods to analyse historical architecture
- > Reconstruction strategies
- > History and theory of historical heritage preservation
- > Current regional examples

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures), English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

QUALITY MANAGEMENT FOR ARCHITECTS

AQU

OBJECTIVES

- > Basics and history of quality management
- > Transfer QM methods on building projects
- > Understand the concept of QM as an overall tool
- > Learn to identify, evaluate and compare qualities in architectural projects
- > Learn to spot and manage controllable topics systematically

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures), English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ELECTIVE COURSES

PROCESS OF BUILDING PRB

OBJECTIVES

- > We examine the whole range of a real-life building project's development from preparation to its completion by means of analyses, lectures and building site visits
- > We will set our focus according to the project's specifics
- > See how an architectural concept survives in reality

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures), English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ARCHITECTURE HISTORY & THEORY GTA

OBJECTIVES

Understand more about the ideas behind building concepts, read and discuss historical and contemporary texts and statements from famous architectural theorists.

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (min. Level C1)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

ELECTIVE COURSES

PROJECT ORGANISATION POR

OBJECTIVES

- > Identify project characteristics and aims
- > Understand the concept of organising and teamwork
- > Learn about various ways and tools of organisation
- > Learn how to apply various organisation tools

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German

CREDITS

2 CP

IMPORTANT NOTE

Course is taking place on irregular basis

ARCHITECTURE & COLOUR FUA

OBJECTIVES

- > Colour schemes in architecture and design
- > How architects, designers and artists use colour schemes
- > Develop your own colour scheme
- > How colour affects our perception of architecture
- > Learn to analyse and evaluate colour and material concepts

FORMAT

Lectures & tutorials, project work

COURSE LANGUAGE

German (lectures), English (tutorials)

CREDITS

2 CP

IMPORTANT NOTE

Course takes place on irregular basis

CAMPUS SITEMAP



BUILDING A
Department A
Architecture & Design

BUILDING 1
Cafeteria,
Administration,
Business Management

BUILDING 2
Library, Department C
Geomatics, Comp.
Science & Mathematics

BUILDING 3
Architecture
ClimateEngineering

BUILDING 4
Department B
Civil Engineering
and Building Physics

BUILDING 5
Interior Design
International
Project Management
Urban Planning

BUILDING 6
Interior Design

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VERSION

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