

› Foundation Year – Curriculum

Semester 1

Module Title	Contents	hrs/wk
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› Field-related Subjects: Information Technologies and Telecommunication

Fundamentals of Mathematics 1	Sets of numbers, elementary functions, rearranging equations, solving linear equations, vectors and matrices, linear algebra, geometry, trigonometry, sequences and series, differential calculus, integral calculus, basics of statistics, complex numbers	4
Basics of Informatics	Architecture of computer systems, microprocessor, memory and storage, interfaces, information transfer and protocols, protocol principles, transmission principles, network principles, LAN-principles, operating systems, basic ideas and concepts, functions, implementation, user and application software integration	3
Fundamentals of Physics 1	Base units, derived units, distance and time measurements, mechanics, vibrations and waves, thermodynamics, electricity, optics, basics of atomic physics, nuclear physics and radioactivity	3
Practical Tasks	Lab assistance, excursions	2

› Field-related Subjects: Health Care and Nursing

Basics of Somatology and Pathology	Fundamentals of normal anatomy and physiology, reasons for illnesses and clinical pictures, cell and tissue damage, inflammations, swellings, death and autopsy, medical examination procedures, diagnosis procedures	4
Introduction into Health Care and Nursing	Basics of nursing, definition of health/illness, life activities, influence and interaction on life activity, care interventions in the framework of life activity, promoting a safe patient environment, ethics	3
Medical Terminology and Hygiene for Health Care Professions	Medical terminology for different purposes, basics of microbiology and infectious diseases, microorganisms and parasites, immunization and defense mechanisms, vaccination-schedule, hospital hygiene, nosocomial infections (hospital acquired infections)	3
Austrian Health Care	Visits and excursions to relevant health institutions mainly in Vienna, Lower Austria, Upper Austria and Burgenland	2

› Field-related Subjects: Civil Engineering and Construction Management

Fundamentals of Mathematics 1	Sets of numbers, elementary functions, rearranging equations, solving linear equations, vectors and matrices, linear algebra, geometry, trigonometry, sequences and series, differential calculus, integral calculus, basics of statistics, complex numbers	4
Descriptive Geometry 1	Basics & techniques, making sketches	2
Library of Construction Terminology 1	Building permission, tenders & public tenders, cost estimate, quotation, review of quotation, building process, handover of a facility, building life circle	1
Fundamentals of Physics 1	Base units, derived units, distance and time measurements, mechanics, vibrations and waves, thermodynamics, electricity, optics, basics of atomic physics, nuclear physics and radioactivity	3
Practical Tasks	Visiting current construction sites in Vienna, discussing various problems in groups, presenting solutions	2

› Intercultural Skills

Austrian Culture	History, politics, demographics, values and beliefs (including religion, gender relations, family structure, etc.), educational system, social system, arts, sports	2
Intercultural Training	Cultural differences and similarities, culture shock, different models of integration, stereotypes and stereotyping, describing, interpreting, judging	1

› Language Skills

English (target level: B1)	Cultural studies, different lifestyles, socializing, managing learning, telephone communication, professional E-mailing, comprehension training using authentic films, grammar, sentence structure, idiomatic phrases, Business English, communication and speaking skills	3
German (target level: A1)	Essential grammar and vocabulary needed for education and typical life situations, intercultural topics with a regional theme	3

› Additional Support

Start Workshop + Coaching	Group dynamic exercises, peer consulting, determination of goals, exploring the environment, mentoring, introducing and implementing teams, get to know the university and students, social activities, living and studying in Vienna, self-reflection, counselling, non-judgemental support	2
Study Skills + Time Management	Time and self-management techniques, learning styles and learning strategies, stress management, working in groups and teams, learning environment, reading and understanding the content of different texts, complex texts, scientific work (basics)	2

Semester 2

Module Title	Contents	hrs/wk
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> Field-related Subjects: Information Technologies and Telecommunication

Fundamentals of Mathematics 2	Sets of numbers, elementary functions, rearranging equations, solving linear equations, vectors and matrices, linear algebra, geometry, trigonometry, sequences and series, differential calculus, integral calculus, basics of statistics, complex numbers	5
Introduction to Programming	Analyzing problems, extracting logical contexts from tasks, structure flows, basic algorithms and methods in software design, functions and concepts of programming languages	3
Fundamentals of Physics 2	Base units, derived units, distance and time measurements, mechanics, vibrations and waves, thermodynamics, electricity, optics, basics of atomic physics, nuclear physics and radioactivity	4
Practical Tasks	Lab assistance, excursions	3

> Field-related Subjects: Health Care and Nursing

Introduction to Health Promotion and Prevention and Health Structures	Introduction to health concepts and theories, factors influencing health, health prevention, health promotion, Austrian health care system, professional positions, financing of health service in Austria and potential consequences for the nursing profession, demographic development of the Austrian populace	5
National and International Nursing History and Professional Development	Austrian and international history of nursing care from the 19th century to the current situation of professional nursing care, historical development of nursing diagnosis/processes, human rights and ethical thinking, international nursing history and development, influence of Florence Nightingale	3
Basics of Nursing Process and Theories	Definition of the nursing process, development of nursing science and theory, steps of the nursing process, aspects of conversations and documentation, terminology, examples of implemented care models in practice, use of nursing models, development of ritualized nursing action to evidence-based practice, principles of patient-centered communication	4
Communication in Special Situations	Communication with elderly people, symmetric versus asymmetric communication, autonomy versus care giving responsibilities, communication with care giving relatives, delivery of difficult messages, dying and death	3

> Field-related Subjects: Civil Engineering and Construction Management

Fundamentals of Mathematics 2	Sets of numbers, elementary functions, rearranging equations, solving linear equations, vectors and matrices, linear algebra, geometry, trigonometry, sequences and series, differential calculus, integral calculus, basics of statistics, complex numbers	5
Descriptive Geometry 2	Basics of design theory, techniques, drafting buildings	2
Library of Construction Terminology 2	Building permission, tenders & public tenders, cost estimate, quotation, review of quotation, building process, handover of a facility, building life circle	2
Fundamentals of Physics 2	Base units, derived units, distance and time measurements, mechanics, vibrations and waves, thermodynamics, electricity, optics, basics of atomic physics, nuclear physics and radioactivity	4
Practical Tasks	Visiting current construction sites in Vienna, discussing various problems in groups, presenting solutions	2

> Language Skills

English (target level: B2)	Presentation skills, project management, meetings, negotiations, technology today, sustainable energy sources	2
German (target level: A2)	Additional grammar and vocabulary, communication practice, intercultural topics with a regional theme	3
Writing Workshop	Academic writing skills: coherent text, summarizing, argumentation of content, structuring longer texts	2

> Additional Support

Coaching	Self-reflection, counselling, non-judgemental support	3
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Contact

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