## Course of Study Energy and Environmental Engineering (Study Cohort.w15)

Sample course plan - Bachelor Energy and Environmental Engineering (EUTBS)

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

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|--|----|--|--|------------|--------------------------------------|------------|-------------------------------------|------------|-------------------------------------|-------------|------------------------------------|------------|
| Page-sero Michaeline   V.   2   Page-sero Michaeline   V.      | LP | Semester 1 FormHrs                         | /wk Semester 2   | FormHrs/wk | Semester 3                           | FormHrs/wk | Semester 4                          | FormHrs/wk | Semester 5                          | FormHrs/wk  | Semester 6                         | FormHrs/wk |
| Part   | 1  | Engineering Mechanics I                    | Engineering Mechanics II   |            | Mechanical Engineering: Design (part | 1)         | Fundamentals of Fluid Mechanics     |            | Heat and Mass Transfer              |             | Thermal Separation Processes (part | 12)        |
| Part   |    |  |  |            |                                      |            | Fundamentals of Fluid Mechanics     |            | Heat and Mass Transfer              | VL 2        | Separation Processes               | PR 1       |
| Patient   Pati   | 2  | Engineering Mechanics I UE 2               | Engineering Mechanics II   | UE 2       | Mechanical Design Project I          | TT 3       |                                     | HÜ 2       | Heat and Mass Transfer              | UE 1        | Environmental Technology (part 2)  |            |
| State   Stat   |    |  |  |            |                                      |            | Engineering                         |            |                                     |             |                                    | PR 1       |
| Authors   Control   Cont   |    |  |  |            |                                      |            |                                     |            |                                     |             | Technology                         |            |
| Second    | 3  |  |  |            |                                      |            |                                     |            |                                     |             |                                    |            |
| Section   Sect   | 4  |  |  |            | Basics of Electrical Engineering     |            |                                     |            |                                     |             | •,                                 |            |
| Secretary   Secr   | 5  |  |  |            | Basics of Electrical Engineering     | VL 3       |                                     |            |                                     |             |                                    |            |
| Purpose   Purp   | 6  |  |  |            | Basics of Electrical Engineering     | UE 2       |                                     |            |                                     |             |                                    |            |
|  |    | Mathematica                                | For demonstrate of Manhanitan Francisco  |            |                                      |            | Floring Months                      |            | The second Comment of Business (con |             |                                    |            |
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|  | 8  |  |  | VL 2       |                                      |            |                                     |            | · ·                                 |             |                                    |            |
| Nanlysis   U   2   | 9  |  | Engineering Design   |            |                                      |            |                                     |            | ·                                   |             |                                    | cess       |
| 11   | 10 | Analysis I VL 2                            | Fundamentals of Mechanical   | HÜ 2       | Technical Thermodynamics II          |            |                                     |            |                                     |             |                                    |            |
| Analysis   HU  | 11 | Analysis I UE 1                            | Engineering Design   |            | Technical Thermodynamics II          | VL 2       |                                     |            |                                     |             | •,                                 |            |
| Technical Thermodynamics I VL 2 Technical Thermodynamics I VL  |    | . Analysis I HÜ 1                          |  |            | Technical Thermodynamics II          | HÜ 1       |                                     |            | a 10: B B: :                        |             |                                    |            |
| Secretary intermedical intermedynamics   VL   2   Technical Thermodynamics   VL   2   Technical Ther   |    |  |  |            | Technical Thermodynamics II          | UE 1       |                                     |            |                                     | \/I 2       | Tarticle reclinology i             | 111 2      |
| Introduction to Energy and Environmental Engineering   Population   Engineering   Population     | 13 |  | <u> </u>   |            |                                      |            |                                     |            |                                     |             |                                    |            |
| 15   Central and Introgranic Chemistry   V   L   Analysis   II   V   L   Ana   | 14 |  | The state of the s |            |                                      |            | ŭ .                                 |            | das and steam i swell lane          |             |                                    |            |
| Fundamentals in Inorganic Chemistry VL 4   Fundamentals in Inorganic Chemistry VL 2   Analysis III VL 2    | 15 | General and Inorganic Chemistry            | *  |            |                                      |            | Project Entrepreneurship            | POL 2      |                                     |             | Environmental Technology           |            |
| Fundamentals in lnorganic Chemistry   PR   3   | 16 | Fundamentals in Inorganic Chemistry VL 4   | _ recimical memodynamics i   | OL I       | Mathematics III                      |            |                                     |            |                                     |             | Environmental Assessment           | VL 2       |
| Analysis II  |    | Fundamentals in Inorganic Chemistry PR 3   |  |            |                                      | VL 2       |                                     |            |                                     |             | Environmental Assessment           | UE 1       |
| Mathematics     Mathematics  | _  |  |  |            | · ·                                  |            |                                     |            |                                     |             |                                    |            |
| Process Engineers   Control Systems   Control    | 18 |  |  |            | Analysis III                         | HÜ 1       |                                     |            |                                     |             | Bachelor Thesis                    |            |
| Differential Equations   VL   2   Introduction into Energy and Environmental Engineering   Post   Linear Algebra   I   UE   1   Linear Algebra   I   UE   Linear Algebra   I   UE   1   Linear Algebra   I   UE   Linear Algebra   I   UE   Linear Algebra   I   UE   Linear Algebra   UE   UE   Uniomatics for Process Engineers   UE   2   Linear Algebra   UE   UE   Uniomatics for Process Engineers   UE   2   Linear Algebra   UE    | 19 |  | Mathematics II   |            | · ·                                  |            | Informatics for Process Engineers   |            | •                                   |             |                                    |            |
| Introduction into Energy and Environmental Engineering   Linear Algebra II   | 20 |  |  |            | · ·                                  |            |                                     |            | Introduction to Control Systems     | UE 2        |                                    |            |
| Engineering Introduction to Energy and POL 4 Environmental Engineering 24 Physics-Lab for VT/ BVT/ EUT PR 2  Physics-Lab for VT/ BVT/ EUT PR 2  Physics-Lab for VT/ BVT/ EUT PR 2  Physical and Chemical Basics of WL 2 Physical and Chemical Basics of WL 2 Materials Science Physical and Chemical Basics of WL 2 Materials Science Physical and Chemical Basics of WL 2 Materials Science WL 2 Materials Science (part 1)  Ciganic Chemistry Organic Chem | 21 | Introduction into Energy and Environmental | · ·  |            | Differential Equations 1             | HU 1       |                                     |            |                                     |             |                                    |            |
| Introduction to Energy and Environmental Engineering  24 Physics-Lab for VT/ BVT/ EUT PR 2  25 Physics-Lab for VT/ BVT/ EUT PR 2  26 Physics-Lab for VT/ BVT/ EUT PR 2  27 Physical and Chemistry  28 Proganic Chemistry  29 Organic Chemistry  29 Proganic Chemistry  29 Proganic Chemistry  29 Proganic Chemistry  29 Proganic Chemistry  20 Process Engineers  20 Process Engineers  20 Process Engineers  21 Prodamentals of Materials Science (part 1)  20 Process Engineers  21 Prodamentals of Materials Science (part 2)  21 Prodamentals of Materials Science (part 2)  22 Proganic Chemistry  23 Process Engineers  24 Process Engineers  25 Mechanical Design Project II TT 3  26 Mechanical Design Project II TT 3  27 Mechanical Design Project II TT 3  28 Process Engineers  29 Process Engineers  20 Materials Science (part 2)  20 Fundamentals of Materials Science (part 2)  21 Fundamentals of Materials Science (part 2)  22 Fundamentals of Materials Science (part 2)  23 Process Engineers  25 Mechanical Design Project II TT 3  26 Mechanical and Process Engineers  27 Mechanical and Process Engineers  28 Practical Course: Measurement and PR 2  29 Process Engineers  20 Mechanical and Process Engineers  20 Mechanical Science (part 2)  21 Prodamentals of Materials Science (part 2)  22 Process Engineers  23 Process Engineers  25 Mechanical and Process Engineers  26 Mechanical and Process Engineers  27 Process Engineers  28 Practical Course: Measurement and PR 2  29 Process Engineers  20 Process Engineers  21 Process Engineers  22 Process Engineers  23 Process Engineers  24 Process Engineers  25 Process Engineers  26 Process Engineers  27 Process Engineers  28 Process Engineers  29 Process Engineers  20 Process Engineers  20 Process Engineers  20 Process Engineers  20 Process Engineers  21 Process Engineers  22 Process Engineers  23 Process Engineers  24 Process Engineers  25 Process Engineers  26 Process Engineers  27 Process Engineers  28 Process Engineers  29 Process Engineers  20 Process Engineers  20 Process Engineers  21 Process Enginee | _  |  | · ·  |            |                                      |            | Informatics for Process Engineers   | UE 2       |                                     |             |                                    |            |
| Environmental Engineering Physics-Lab for VT/ BVT/ EUT PR 2 Analysis II UE 1 Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of VL 2 Materials Science  Organic Chemistry  Organ | _  | Introduction to Energy and POL 4           |  |            |                                      |            |                                     |            |                                     |             |                                    |            |
| Process Engineers  25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20   | 23 |  |  |            |                                      |            |                                     |            |                                     |             |                                    |            |
| Physical and Chemical Basics of Materials Science  Physical and Chemical Basics of Materials Science  Mechanical Engineering: Design (part 2)  Team Project Design Methodology POL 2 Mechanical and Process Engineers  Measurement Technology for VL 2 Mechanical and Process Engineers  Measurement Technology for HÜ 1  Measurement Technology for HÜ 1  Mechanical and Process Engineers  Measurement Technology for HÜ 1  Mechanical and Process Engineers  Practical Course: Measurement and PR 2  Control Systems  Environmental Technology (part 1)  Environmental Technology (part 1)  | 24 | Physics-Lab for VT/ BVT/ EUT PR 2          |  |            |                                      | <u> </u>   |                                     |            |                                     | nanical and |                                    |            |
| Team Project Design Methodology POL 2 Mechanical Design Project II TT 3 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Measurement Technology for HÜ 1 Mechanical and Process Engineers Mechanical and Proce | 25 |  |  |            |                                      |            | Mechanical Engineering: Design (pa  | art 2)     |                                     | \/I 0       |                                    |            |
| Mechanical Design Project II   | 26 |  |  |            |                                      | VL 2       |                                     |            | <del></del>                         |             |                                    |            |
| Organic Chemistry Organic Chemistry  PR 3  Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2  Fundamentals of Materials Science II VL 2  Environmental Technology (part 1)  Environmental Technology (part 1)   | 27 |  | Organic Chemistry  |            | materiale esterios                   |            | Mechanical Design Project II        | ТТ 3       | -                                   |             |                                    |            |
| Organic Chemistry  PR 3  Prundamentals of Materials Science (part 2)  Fundamentals of Materials Science II VL 2  Practical Course: Measurement and PR 2  Control Systems  Environmental Technology (part 1)  Environmental Technology (part 1)   |    |  |  | VL 4       |                                      |            | For demonstrate of Materials 2.     | (t 0)      | Mechanical and Process Engineers    | ;           |                                    |            |
| 30  Environmental Technology (part 1)  Fourier protect of Technology (part 2)  | _  |  | ,  |            |                                      |            |                                     |            |                                     | PR 2        |                                    |            |
| Favigamental Technologie VIII 0  | 29 |  |  |            |                                      |            | Fundamentals of Materials Science I | II VL 2    | Control Systems                     |             |                                    |            |
| Environmental Technologie VL 2   | 30 |  |  |            |                                      |            |                                     |            | Environmental Technology (part 1)   |             |                                    |            |
|  | 31 |  |  |            |                                      |            |                                     |            | Environmental Technologie           | VL 2        |                                    |            |
| 32   | 32 | †  |  |            |                                      |            |                                     |            |                                     |             |                                    |            |

Core qualification Compulsory

Core qualification Elective

Specialisation Compulsory

Specialisation Elective

Focus Compulsory

Focus Elective Compulsory

Thesis Compulsory

Interdisciplinary complement

