

**Course Timetable – Specialization Electrical Machines – Overall View –
Trimester 1-9**

1. English Language

| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
|-----------------------------|-----------|---|--|-------------------|-------------------|------|--------------------------------|
| | | | | Contact Hours | Independent Study | | |
| English I | 1 | Written or oral examination | Presentation / Tests | 144 | 66 | 7 | Neil Turley |
| Course 1 | | | | | | | |
| Course 2 | | | | | | | |
| English II | 2 | Portfolio | Tests | 144 | 66 | 7 | Neil Turley |
| Course 1 | | | | | | | |
| Course 2 | | | | | | | |
| English III | 3 | Written examination | Tests | 144 | 66 | 7 | Neil Turley |
| Course 1 | | | | | | | |
| Course 2 | | | | | | | |
| English IV | 4 | Written or oral examination | Presentation / Test | 48 | 12 | 2 | Neil Turley |
| Course 1 | | | | | | | |
| Course 2 | | | | | | | |
| English V | 5 | Written or oral examination | Presentation / Tests | 48 | 12 | 2 | Neil Turley |
| Course 1 | | | | | | | |
| Course 2 | | | | | | | |
| English VI | 6 | Portfolio | Tests | 48 | 12 | 2 | Neil Turley |
| Course 1 | | | | | | | |
| Course 2 | | | | | | | |
| sum | | | | 576 | 234 | 27 | |

2. Islamic Studies

| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
|-----------------------------|-----------|---|--|-------------------|-------------------|------|--------------------------------|
| | | | | Contact Hours | Independent Study | | |
| Islamic Studies I | 1 | Written or oral examination | Presentation / Tests | 36 | 24 | 2 | Dr. Al-Hoshan |
| Course 1 | | | | | | | |
| Course 2 | | | | | | | |
| | | | | | | | |
| Islamic Studies II | 8 | Portfolio | Tests | 36 | 24 | 2 | Dr. Al-Hoshan |
| Course 1 | | | | | | | |
| Course 2 | | | | | | | |
| | | | | | | | |
| sum | | | | 72 | 48 | 4 | |

3. Vocational Pedagogy

| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
|--------------------------------------|-----------|---|---|-------------------|-------------------|------|--------------------------------|
| | | | | Contact Hours | Independent Study | | |
| Key Competences for Academic Studies | 1-3 | Portfolio Examination | | 72 | 108 | 6 | Ivan Kuzio |
| Basic Study and IT Skills | 1 | | Portfolio Deliverables (e.g. Work Plan, Mind Map, Internet Communication) | | | | |
| Advanced IT Skills | 2 | | Portfolio Deliverables (e.g. Word File, Spreadsheet, Presentation) | | | | |
| Skills for Academic Studies | 3 | | Portfolio Deliverables (e.g. Mini Thesis) | | | | |

| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
|--|-----------|---|--|-------------------|-----|------|--------------------------------|
| | | | | | | | |
| Fundamentals of Learning and Teaching | 4 | Trial Run Teaching Session (TRTS) | | 96 | 114 | 7 | Lars Fiechel |
| Fundamentals of the Learning Process | | | Deliverables (e.g. Essay, Communication Profile, Learn Letter) | | | | |
| Lesson Planning | | | Lesson Plan Deliverables (e.g. Learn Letter) | | | | |
| Teaching Practice 1 | | | Deliverables (e.g. Learn Letter, Observation Sheets) | | | | |
| Didactics, Learning Technologies and Teaching Practice | 5 | Written Examination / Trial Run Teaching Session (TRTS) | | 96 | 114 | 7 | Lars Fiechel |
| Didactics | | | Deliverables (e.g. Reports, Lesson Plan) | | | | |
| Teaching Practice 2 | | | Deliverables (e.g. Observation Sheets) | | | | |
| Learning Technology | | | Deliverables (e.g. Essays, BL-Website) | | | | |
| Subject Didactics and Teaching Practice | 6 | Portfolio Examination / Trial Run Teaching Session (TRTS) | | 96 | 114 | 7 | Lars Fiechel |
| Subject Didactics | | | Deliverables (e.g. Lesson Plan) | | | | |
| Teaching Practice 3 | | | Deliverables (e.g. Observation Sheets) | | | | |
| TVET in the Kingdom of Saudi Arabia | 7 | Written Examination / Project | | 48 | 72 | 4 | Dr. Volker Paul |
| The TVET System in Saudi Arabia | | | Deliverables (e.g. Questionnaire Catalogue) | | | | |

| Vocational Field Practice | | | | | | | |
|--|-----------|---|--|-------------------|-----|------|--------------------------------|
| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
| Complex Teaching-Learning Arrangements and Teaching Practice | 7 | Portfolio Examination / Trial Run Teaching Session (TRTS) | | 72 | 78 | 5 | Dr. Rainer Gerke |
| Complex Teaching-Learning-Arrangements | | | Deliverables (e.g. Educational Project Plan, Lesson Plan) | | | | |
| Teaching Practice 4 | | | Deliverables (e.g. Observation Report) | | | | |
| Planning Education Processes | 8 | Education Process Plan | | 48 | 72 | 4 | Dr. Rainer Gerke |
| Planning Assessment Processes | | | Deliverables (e.g. Written Test Design, Practical Test Design) | | | | |
| Planning Teaching Units | | | Deliverables (e.g. Teaching Unit Plan) | | | | |
| Advanced Teaching Practice | 8 | Portfolio Examination / TRTS | | 72 | 78 | 5 | Andreas Reinholz |
| Differentiation and Classroom Management | | | Deliverables (e.g. Assignments) | | | | |
| Teaching Practice 5 | | | Deliverables (e.g. Lesson Plan, Learning Diary) | | | | |
| sum | | | | 600 | 750 | 45 | |

4. Electrical Machines

| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
|------------------------------------|-----------|---|--|-------------------|-------------------|------|--------------------------------|
| | | | | Contact Hours | Independent Study | | |
| Mathematics I | 1 | Written examination | | 48 | 42 | 3 | Reinholtz |
| Electrical Fundamentals I | 1 | Written examination | Practical Tests | 84 | 36 | 4 | Goepfert |
| Electrical Fundamentals I | | | | | | | |
| Mathematics II | 2 | Written examination | | 48 | 42 | 3 | Reinholtz |
| Electrical Fundamentals II | 2 | Written or oral examination | Practical Tests | 120 | 60 | 6 | Goepfert |
| Electrical Fundamentals II | | | | | | | |
| Electrical Fundamentals III | 3 | Written or oral examination | Practical Tests | 108 | 42 | 5 | Goepfert |
| Electrical Fundamentals III | | | | | | | |
| Digital Systems I | 3 | Written examination | Practical Tests Assignments | 60 | 60 | 4 | Dr.Sadik |
| Analogue Electronics Fundamentals | 4 | Written or oral examination | | 48 | 42 | 3 | Dr.Sadik |
| Electrical Machines Fundamentals | 4 | Written examination | | 72 | 48 | 4 | Jaksche |
| Engineering Assembly & Application | 4 | Practical Examination | | 48 | 72 | 4 | Jaksche |
| PLC II | 5 | Written or oral examination | | 72 | 48 | 4 | Kahil |
| Special Machines | 5 | Written or oral examination | | 48 | 72 | 4 | Jaksche |
| Electrical Plant Installation | 5 | Written or oral examination | | 48 | 42 | 3 | Severin |
| Mechatronic Applications | 6 | Written or oral examination | | 48 | 42 | 3 | Dr. Khateeb |
| Three Phase Rewinding | 6 | Project | | 72 | 48 | 4 | Jaksche |

| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
|--|-----------|---|--|-------------------|-------------------|------|--------------------------------|
| | | | | Contact Hours | Independent Study | | |
| Automatic Control | 6 | Written or oral examination | | 48 | 72 | 4 | Dr. Khateeb |
| Single Phase Rewinding | 7 | Project | | 48 | 42 | 3 | Jaksche |
| Project (VP) | 7 | Project | | 48 | 102 | 5 | NN |
| Power Electronics | 7 | Written or oral examination | | 48 | 42 | 3 | Singer |
| Electrical Machines – Installation & Control | 8 | Written examination | Project | 72 | 78 | 5 | Jaksche |
| Design of teaching Aids with LABVIEW | 8 | Written or oral examination | Project | 36 | 54 | 3 | Pallaud |
| sum | | | | 1224 | 1086 | 77 | |

5. Company Field Practice

| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
|-----------------------------|-----------|---|--|-------------------|-------------------|------|--------------------------------|
| | | | | Contact Hours | Independent Study | | |
| Company Practice I | Field | 1,2 or 3 | CFP Report | | 180 | 6 | XY |
| Company Practice II | Field | 8 or 9 | CFP Report | | 180 | 6 | XY |
| sum | | | | | | 12 | |

6. Bachelor Thesis

| Modules and related Courses | Trimester | Assessment Method of Module Examination | If necessary partial study performance | Students Workload | | ECTS | Responsible lecturer of Module |
|-----------------------------|-----------|---|--|-------------------|-------------------|------|--------------------------------|
| | | | | Contact Hours | Independent Study | | |
| Bachelor Project | 9 | Thesis | | | 360 | 12 | XY |
| Bachelor Thesis Seminar | | Presentation | | 36 | 54 | 3 | XY |
| sum | | | | 36 | 414 | 15 | |

| | | | | | | | |
|------------|--|--|--|------|------|-----|--|
| sum | | | | 2508 | 2892 | 180 | |
|------------|--|--|--|------|------|-----|--|