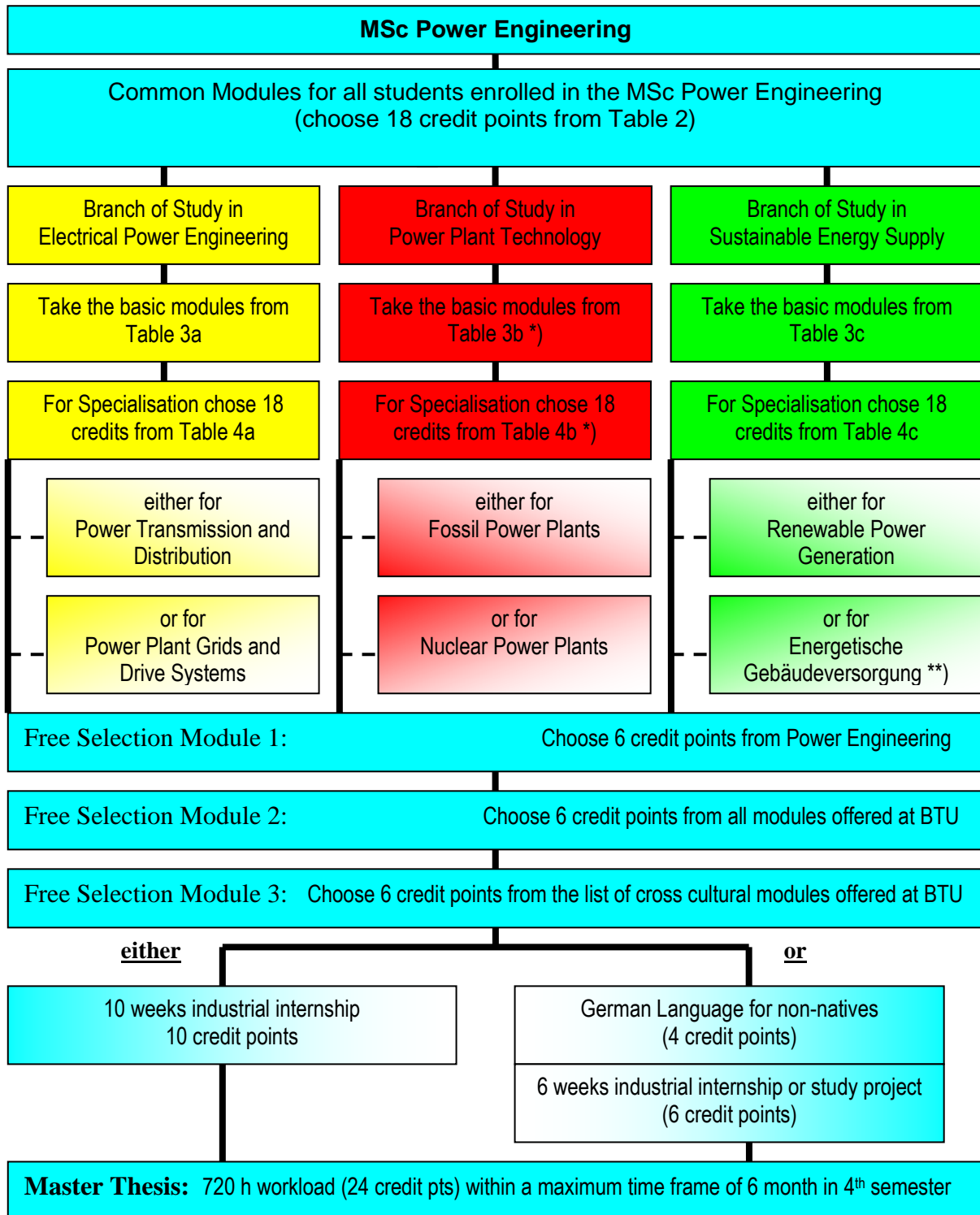


Graphical Overview and Module Tables

Table 1



*) additional modules available in German Language

***) modules only available in German Language

Table 2: Recommendations for the Common Modules
(choose 18 credit points from the list below)

Name of Module	Credit points
Control Engineering	6
Advanced Signal Processing Methods	4
Selected Problems of Circuit Theory	4
Optimization Methods	4
Power System Economics 1	6
Power System Economics 2	6
Essential Business Skills	4
Decentralized Energy Management	6
International Management (can also be chosen for the cross cultural modul)	6

Table 3a: Recommendation for the Basic Modules in Electrical Power Engineering

Name of Module	Credit points
Introduction in Electrical Power Systems	4
Electrical Distribution Systems 1	4
Electrical Distribution Systems 2	6
Grid Calculation with Decentralised Generation	6
Renewable Generation and Storage of Electrical Energy	4
Basics in Power Electronics	8

Table 3b: Recommendation for the Basic Modules in Power Plant Engineering

Name of Module	Credit points
Power Plant Technology 1	6
Power Plant Technology 2	6
Boiler and Heat Exchange Constructions	6
Design, Commissioning and Maintenance	6
Electrical Engineering in Power Plants 1	4
Electrical Engineering in Power Plants 2	4

Table 3c: Recommendations for the Basic Modules in Sustainable Energy Supply

Name of Module	Credit point
Introduction in Electrical Power Systems	4
Renewable Generation and Storage of Electrical Energy	4
Power Plant Technology 1	6
Renewable Resources Management	6
Soil Protection and Ecotoxicology	6
Renewable Raw Materials	6

Table 4a: Modules for Specialization in Electrical Power Engineering
(choose 18 credit points from the list below)

Name of Module	Credit points	Recommended for specialization in (*)
High Voltage Engineering and Insulating Materials	6	PTD
Power Electronic Applications in High Voltage Grids	6	PTD
Power Automation	6	PTD
Energy Information Systems	6	PTD
HV Measuring and Testing Technique	6	PTD
Electrical Engineering in Power Plants 1	4	PPGD
Electrical Engineering in Power Plants 2	4	PPGD
Power Electronic Applications in Drive Systems	6	PPGD
EMC in Power Systems	4	PPGD

*)

PTD – Specialisation in Power Transmission and Distribution
PPGD – Specialisation in Power Plant Grids and Drive Systems

Table 4b: Modules for Specialization in Power Plant technology
(choose 18 credit points from the list below)

Name of Module	Credit points	Recommended for Specialization in (*)
Design and Optimization of Process Plants 1	6	FPP
Apparatus-Design	6	FPP
Natural Gas	6	FPP
Chemical Reaction Engineering ¹⁾	6	FPP
Particle Technology ¹⁾	6	FPP
Gas Cleaning ¹⁾	4	FPP
Thermal Process Engineering ¹⁾	6	FPP
Physical Basics and Principal Design Concepts of NPP	6	NPP
NPP-Safety Concepts	8	NPP
Operation and Maintenance of NPP	8	NPP
Modern NPP-Concepts	4	NPP

*)

FPP – Specialisation in Fossil Power Plants

NPP – Specialisation in Nuclear Power Plants

Table 4c: Modules for Specialization in Sustainable Energy Supply
(choose 18 credit points from the list below)

Name of Module	Credit points	recommended for Specialization in (*)
Photovoltaic	4	RPG
Sustainable Use of Underground Resources, Geothermal Energy and CO2 Storage	4	RPG
Technology and Operation of Wind Turbines	6	RPG
Wind Energy Economics / Wind Ressources Estimation	6	RPG
Processing and Benefication of Raw Materials and Residues	6	RPG
Stadttechnik und Verkehr	6	EGV
Energetische Gebäudeplanung	6	EGV
Bauphysik	8	EGV
Projekt „Energetische Gebäudeversorgung“	12	EGV
Fernwärmesysteme und Kraft-Wärme-Kopplung	6	EGV

*)

RPG – Specialisation in Renewable Power Generation

EGV – Specialisation in Energetische Gebäude Versorgung (German taught lectures in energy supply for large building and urban structures)