

Studien- und Prüfungs- ordnung

für den

Bachelorstudiengang

Business Management and Engi- neering

Fachgruppe:

Wirtschaftsingenieurwissenschaften

am Standort Berlin

Aufgrund § 31 des Gesetz über die Hochschulen im Land Berlin (Berliner Hochschulgesetz – BerlHG) in der Fassung vom 26. Juli 2011 (zuletzt geändert durch Artikel 1 des Gesetzes vom 14.09.2021 (GVBl. S. 1039)) hat der Akademische Senat der bbw Hochschule – University of Applied Sciences am 06.12.2022 folgende Satzung beschlossen.

Gliederung der Ordnung

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Anlage 1: Muster Studienverlaufsplan Studienstart Winter- und Sommersemester Vollzeit

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§ 1 Geltungsbereich

- (1) Diese Ordnung gilt für alle in diesen Studiengang immatrikulierten Studierenden.
- (2) Die Bestimmungen der Rahmenstudien- und -prüfungsordnung (RSPO) der bbw Hochschule sind in ihrer jeweils gültigen Fassung Bestandteil dieser Ordnung.

§ 2 Ziele des Studiengangs

- (1) Der Studiengang „Business Management and Engineering“ ist ein grundständiges Studium, das zum ersten berufsqualifizierenden Abschluss führt. Mit erfolgreichem Abschluss des Studiengangs wird der akademischen Grad „Bachelor of Engineering“ erworben.
- (2) Der Studiengang „Business Management and Engineering“ umfasst ein gebührenfinanziertes wirtschaftsingenieurwissenschaftliches Studium, welches in englischer Sprache angeboten wird.
- (3) Die Studierenden verfügen über generalistische wirtschaftswissenschaftliche und ingenieurwissenschaftliche Kenntnisse. Die Studierenden erwerben ferner Sprachkenntnisse nach Wahl.

Im Studiengang „Business Management and Engineering“ werden die Studierenden ausgebildet in den wirtschaftswissenschaftlichen Grundlagen wie z.B. in Bereichen der Betriebswirtschaftslehre, des Rechts, des Controllings sowie der Volkswirtschaftslehre. Darüber hinaus werden Kenntnisse der Kosten- und Leistungsrechnung und des Rechnungswesens erworben. Im Bereich Advanced Studies werden vor allem Managementinhalte vermittelt wie z.B. Projektmanagement und des Human Resource Management. Zudem wird Wissen im Bereich des internationalen Managements und Unternehmensstrategie mit Themen wie Globalisierung, strategische Planung, sowie auch kulturelle und rechtliche Aspekte internationaler Tätigkeiten vermittelt. Nachhaltigkeitsmanagement vermittelt, wie es Unternehmen gelingt sich strategisch neuen Anforderungen bezüglich Nachhaltigkeit anzupassen bzw. sich zu verändern. Neben den wirtschaftswissenschaftlichen Grundlagen, werden auch ingenieurwissenschaftliche Kenntnisse und Fähigkeiten von den Studierenden erworben. In Grundlagenfächer wie z.B. Mathematik oder auch Physik für Ingenieure, Werkstoffkunde mit mechanischem Verhalten der Materialien, Konstruktion und CAD, sowie in den komprimierten Modulen Engineering I bis III werden ingenieurwissenschaftliche Basisfähigkeiten erworben. In den Advanced Studies werden diese Themen ggf. vertieft wie z.B. im Bereich Smart Factory und Digitalisierung, wo weiterführende Kenntnisse vor allem im Bereich Produktion, Datenengineering und den Elementen/Architektur einer intelligenten Fabrik im Vordergrund stehen. Ebenso werden Themen wie Internet of Things und 3D-Druck behandelt. Studierende werden befähigt, die erworbenen Kenntnisse aus dem Bereich der Wirtschafts- und Ingenieurwissenschaften zu analysieren und zu bewerten, so dass sie unter Anwendung der erworbenen sozialen und persönlichen Kompetenzen, wie Präsentations-, Kommunikations- und Führungstechniken diese situationsspezifisch modifizieren und umsetzen können.

- (4) Die Absolventin bzw. der Absolvent qualifiziert sich für ein sehr breites Aufgabenfeld in verschiedenen Unternehmensbereichen wie z.B. Beschaffung, Einkauf, Forschung und Entwicklung, Produktentwicklung, Qualitätsmanagement, Marketing, Vertrieb oder Controlling. Technisches Fachwissen zusammen mit dem Verständnis für unternehmerisches Handeln bildet die Basis für verantwortungsvolle Tätigkeiten und potenzielle Führungspositionen in mittelständischen, aber auch international tätigen Großunternehmen. Ein erfolgreicher Abschluss des Studienganges „Business Management and Engineering“ an der bbw Hochschule qualifiziert nicht nur für verantwortungsvolle Tätigkeiten und potenzielle Führungspositionen in lokal oder global agierenden Unternehmen, sondern bildet auch eine optimale Grundlage für eigene Unternehmensgründungen, wofür die Kombination aus technischen Fachwissen, Wissen über unternehmerischen Handeln und Personalführung die Basis bildet.

§ 3 Studienvoraussetzungen

- (1) Es gelten die Zugangs- und Zulassungsvoraussetzungen für Bachelorstudiengänge gemäß § 4 der Rahmenstudien- und -prüfungsordnung.
- (2) Studierende, die nach § 4 Absatz 1 a. – c. der Rahmenstudien- und -prüfungsordnung ein Studium des Studiengangs aufnehmen wollen, sind verpflichtet eine zweite Fremdsprache vor Aufnahme des Studiums zu wählen.
- (3) Für Studierende, die nach § 4 Absatz 1 d. der Rahmenstudien- und -prüfungsordnung ein Studium des Studiengangs aufnehmen wollen, ist der Sprachschwerpunkt „Business German as a Foreign Language“ verpflichteten, sofern keine deutschen Sprachkenntnisse auf dem Niveau C1 des europäischen Referenzrahmen oder Vergleichbares vor Aufnahme des Studiums vorgewiesen werden können und der obligatorische praktische Anteil des Studiums innerhalb des deutschen Sprachraums absolviert werden soll.
- (4) Für Studierende, die nach § 4 Absatz 1 d. der Rahmenstudien- und -prüfungsordnung ein Studium des Studiengangs aufnehmen wollen, ist einer der Sprachschwerpunkte „Business English and Communication Skills“ oder „Business Italian as a Foreign Language“ verpflichteten, sofern keine deutschen Sprachkenntnisse auf dem Niveau C1 des europäischen Referenzrahmen oder Vergleichbares vor Aufnahme des Studiums vorgewiesen werden können und der obligatorische praktische Anteil des Studiums außerhalb des deutschen Sprachraums absolviert werden soll.

§ 4 Studiendauer, Aufbau und Umfang des Studiengangs

- (1) Der Studiengang „Business Management and Engineering“ wird als Vollzeitstudiengang gemäß § 2 a Absatz 2 a. der Rahmenstudien- und -prüfungsordnung angeboten.
- (2) Im Studiengang „Business Management and Engineering“ werden gemäß § 12 der Rahmenstudien- und Prüfungsordnung alle während des Studiums vorgesehenen Leistungen mit ECTS-Credits (European Credit Transfer System) versehen und kreditiert. ECTS sind ein quantitatives Maß für den zeitlichen Workload der Studierenden. Für einen ECTS-Credit wird ein durchschnittlicher Workload von 30 Stunden angenommen. Wird

eine Leistung erfolgreich erbracht, erhalten die Studierenden die zugeordneten ECTS-Credits.

- (3) Es gelten die Bestimmungen zur Studiendauer und Umfang gemäß § 13 der Rahmenstudien- und -prüfungsordnung. Der Studiengang ist gemäß § 13 der Rahmenstudien- und -prüfungsordnung modular aufgebaut und gliedert sich in Module des Basic Studies Bereich, Advanced Studies Bereich sowie dem obligatorischen Sprachenschwerpunkt und dem obligatorischen praktischen Anteil. Der musterhafte Studienverlaufsplan ist als Anlage 1 Bestandteil dieser Ordnung. Die Modulbeschreibungen als Anlage 2 dieser Ordnung geben Auskunft über Studieninhalte und vorgesehenen Modulprüfungen.
- (4) Obligatorische praktische Anteile sind gemäß § 16 der Rahmenstudien- und -prüfungsordnung vorgesehen.

§ 5 Praktische Anteile

- (1) Die Praxisphase wird gemäß Anlage 1 der Studien- und Prüfungsordnung in dem entsprechenden Fachsemester durchgeführt.
- (2) Im Studiengang ist das Modul „Praxisphase II“ enthalten, umfasst einen Workload von 450 Stunden und wird mit 15 ECTS-Credits kreditiert. Die Dauer des Praktikums beträgt zwölf Wochen.
- (3) Als Ausbildungsbereiche, die für die Tätigkeit von Studierenden im Rahmen der obligatorischen Praxisphasen geeignet sind, gelten klein- und mittelständische Unternehmen, international agierende Großunternehmen oder Institutionen die mindestens über einen der folgenden Unternehmensbereiche für die Ausbildungstätigkeit verfügen: Beschaffung/Einkauf, Marketing, Logistik, Forschung und Entwicklung, Controlling, Vertrieb Projektmanagement, Human Resource Management, Finanz- und Rechnungswesen oder Qualitätsmanagement. Auch öffentliche Verwaltungen und Gesundheitseinrichtungen, Verbände und Vereinigungen gelten als geeignete Ausbildungsbereiche.
- (4) Die Ausbildungsinhalte ergeben sich weitgehend durch die Aufgaben der verschiedenen Tätigkeitsfelder der Ausbildungsstellen. Die fachlichen Neigungen und Kenntnisse, die der Studierende während des Bachelorstudiums von „Business Management and Engineering“ oder durch andere branchenspezifische Tätigkeiten sowie vorherige Bildungswege erworben hat, sollen bei der Auswahl der Themen- und Aufgabenstellungen berücksichtigt werden.
- (5) Der Ausbildungsplan während der Praxisphase soll vorsehen, dass die oder der Studierende
 - a. eine Erläuterung über die Einordnung seines jeweiligen Arbeits- bzw. Tätigkeitsbereiches in den gesamten Betriebsablauf erhält.
 - b. an der Lösung klar beschriebener betriebswirtschaftlicher und branchenspezifischer oder anderer mit den Ausbildungszielen des Studiengangs direkt zusammenhängender Aufgaben oder Teilaufgaben unter Anleitung beteiligt wird, wobei die im bisherigen Studium erworbenen fachlichen, methodischen und sozialen Kompetenzen angemessen berücksichtigt werden.
- (6) Die Praktikumsphase kann im In- und Ausland durchgeführt werden. Für die Durchführung der Praxisphase im Inland bzw. dem deutschen Sprachraum sind Deutschkenntnisse erforderlich, die im Studium über die Wahl des entsprechenden obligatorischen

Sprachenangebots erworben werden, sofern keine deutschen Sprachkenntnisse auf dem Niveau C1 des europäischen Referenzrahmen oder Vergleichbares vorliegen.

- (7) Der Career Service ist Ansprechpartner für die Studierenden bezüglich:
 - a. Beratung zu den formalen Anforderungen an Praktikumsstelle und -verträge,
 - b. Unterstützung bei der Akquise der Praktikumsstelle für die Praxisphase im Inland,
 - c. Vorbereitung und Unterstützung bei der Erstellung von Bewerbungsunterlagen für die Praktikumsakquise im Inland,
 - d. Prüfung und Genehmigung des Praktikumsvertrags mit dem Unternehmen im In- und Ausland,
 - e. Problemen und Schwierigkeiten während des Praktikums mit dem praktikumsgebenden Betrieb im Inland.
- (8) Studierende, die beabsichtigen die Praxisphase im Ausland zu absolvieren, können sich bezüglich der Unterstützung bei der Akquise der Praktikumsstelle für die Praxisphase an das International Office wenden.
- (9) Praktikantenarbeitsverhältnisse sind besondere Ausbildungsverhältnisse. Für den Zeitraum des Praktikums ist die oder der Studierende im praktikumsgebenden Betrieb beschäftigt. Für den Zeitraum des Praktikums wird die oder der Studierenden durch eine betriebliche Begleitperson angeleitet (betrieblicher Ansprechpartner).
- (10) Nicht zulässig als Praktikantenarbeitsverhältnisse sind Selbständigkeiten, die zum Zeitpunkt des Praktikums weniger gleich sechs Monate bestehen und/oder keinen fachlichen Bezug zum Studiengang „Business Management and Engineering“ aufweisen. Selbständigkeiten können auf Antrag an den Career Service unter Vorlage geeigneter Nachweise (bspw. Handelsregisterauszug sowie Tätigkeitsinhalte und zu erwartender Umfang der Tätigkeiten) bis zwei Monate vor dem Beginn der Praxisphase II beantragt werden.
- (11) Für die Vergabe der den jeweiligen Praxisphasen zugordneten ETCS-Credits sind folgende Voraussetzungen zu erfüllen:
- (12) Vorliegen eines vor Antritt des Praktikums durch die Hochschule genehmigten Praktikumsvertrags.
- (13) Fristgerechte Abgabe des Nachweises über die tatsächlich geleisteten Arbeitsstunden mit Angabe der täglichen Arbeits- und Pausenzeiten während des Praktikumszeitraums im Gesamtumfang des zu erbringenden jeweiligen Workload gemäß Abs. (2). Der Nachweis ist vom praktikumsgebenden Betrieb abzustempeln und abzuzeichnen. Im Nachweis sind Krankheits- und Urlaubstage auszuweisen, da diese nicht zum verpflichtenden Stundenumfang des Praktikums gezählt werden.
- (14) Fristgerechte Abgabe des Praktikumsberichts im Umfang von fünf bis acht Seiten. Der Praktikumsbericht besteht aus einem deskriptiven und einem bewertenden Teil. Im deskriptiven Teil erfolgt die Darstellung des Praktikumsbetriebs, der Einordnung des Tätigkeitsbereichs in diesen Kontext und der zusammenfassenden Darstellung der Aufgabenschwerpunkte. Der bewertende Teil soll Angaben zur inhaltlichen Relevanz des Praktikums auf das Studium geben, Erwartungserfüllung an das Praktikum und den Betrieb, Grad und Zufriedenheit mit der betrieblichen Begleitung während des Praktikums und einer abschließenden begründeten Stellungnahme zur Güte des Praktikumsbetriebes.
- (15) Es liegt nachweislich kein nach § 26 der Rahmenstudien- und -prüfungsordnung zu ahnender Verstoß vor.

- (16) Die Praxisphase II wird nicht differenziert bewertet. Bei erfolgreicher Absolvierung der Praxisphase II wird diese mit „bestanden“ bewertet und kreditiert.

§ 6 Lehrveranstaltungen

- (1) Es gelten die Bestimmungen gemäß § 14 der Rahmenstudien- und -Prüfungsordnung. Der Studiengang besteht vollständig aus Pflichtfächern/-modulen entsprechend § 14 Abs.1 Rahmenstudien- und -prüfungsordnung.
- (2) In Konkretisierung zu § 14 Abs. 2 Rahmenstudien- und -prüfungsordnung sind mind. 70% der Lehrveranstaltungen des gesamten Studiums als Präsenz-Veranstaltungen geplant.
- (3) Der Anteil der Online-Präsenz-Lehrveranstaltungen, über eine Online-Meeting-Applikation durchgeführt, wofür die Studierenden geeignete informationselektronische Ausstattung bereithalten, kann je nach Semester variieren. Die Varianz liegt einerseits an den jeweiligen im Semester vorsehbaren Online-Präsenz-Anteilen begründet und andererseits in den spezialisierten fachlichen Inhalten der Module des Studiengangs hinsichtlich der Verfügbarkeit von Dozierenden für die Lehre.
- (4) Der musterhafte Studienverlaufsplan als Anlage 1 sowie die Modulbeschreibungen als Anlage 2 dieser Ordnung geben Auskunft zu den in einem Modul/Fach veranschlagten Kontakt- und Selbststudienzeiten. Die Kontaktzeit teilt sich von Gesamt-Lehreinheiten/Unterrichtseinheiten (LE/UE) zu eLearningbezogenen LE/UE zu prüfungsbezogenen LE/UE in [60 / 8 / 4].
- (5) Die Planung der Lehrveranstaltungen findet in der Regel über ca. 18 Wochen im einem Semester (Sommersemester 01.04. bis 30.09. und Wintersemester 01.10. bis 31.03. eines Jahres) statt, wobei ebenso vorlesungsfreie Zeiten vorgesehen werden. Dazu werden unter der Woche von ca. 08:30 Uhr / 09:15 Uhr bis 16:30 Uhr / 18:30 Uhr Präsenz-Veranstaltungen wochenweise im Block in der Regel von zwei bis vier Unterrichtsstunden á 45 Minuten mit Pausen geplant, wobei ein Wechsel zu Online-Präsenz-Veranstaltungen an einem Tag ausgeschlossen wird. Die Planung eines Semesters wird spätestens vier Wochen vor Beginn der Vorlesungszeit veröffentlicht.

§ 7 Inkrafttreten

Die Studien- und Prüfungsordnung für den Studiengang „Business Management and Engineering“ tritt rückwirkend zum 01. Oktober 2022 in Kraft.

Berlin, den 06.12.2022

Der Rektor der bbw Hochschule

Annex 1: Muster Curriculum

Curriculum: **Business Management and Engineering**

Study form: Full time (Berlin)

valid since winter semester 2021



1 CP = 30 h

Code	Subject title/tuition units/semester	1	2	3	4	5	6	7	Cat.	Σ Less.	Credits	Workload
1. Basic Studies										1020	90	2700
W_WIWI_B_010	Scientific Methods and digital Competences	60							C		5	150
W_WIWI_B_012	Business Administration	60							C		5	150
I_ET_B_011	Mathematics for Engineers I	60							C		5	150
I_ET_B_012	Physics for Engineers	60							C		5	150
WI_BME_B_016	Business Finance, Management- and Statutory-Accounting	60							C		5	150
I_ET_B_014	Mathematics for Engineers II		60						C		5	150
WI_BME_B_010	Marketing and Distribution		60						C		5	150
WI_BME_B_011	Basics of Engineering I: Electronics and Electrical Engineering		60						C		5	150
WI_BME_B_017	Material science and mechanical behavior		60						C		5	150
WI_WI_B_010	Basics of IT-Systems and IT-Management		60						C		5	150
O_STG_B_010	Student Research Project I			x					C		5	150
W_WIWI_B_015	Cost Accounting			60					C		5	150
WI_BME_B_015	Business Law			60					C		5	150
WI_BME_B_012	Basics of Engineering II: Mechanical Engineering and Mechatronics			60					C		5	150
W_WIWI_B_014	Economics			60					C		5	150
I_MMM_A_012	Constructing and CAD				60				C		5	150
WI_BME_B_013	Product Design and Product Management				60				C		5	150
WI_BME_B_018	Basics of Engineering III: Production Technologies, Planning and Controlling Systems				60				C		5	150
2. Advanced Studies										660	60	1800
WI_SCM_A_010	Global Supply Chain Management				60				C		5	150
WI_BME_A_011	Information Management				60				C		5	150
WI_BME_A_013	Smart Factories and Digitalisation					60			C		5	150
W_WIWI_B_025	International Management and Corporate Strategy					60			C		5	150
O_STG_A_010	Student Research Project II					x			C		5	150
WI_BME_A_014	Basics of Quality Management and Environmental Management					60			C		5	150
W_WIWI_B_016	Project Management					60			C		5	150
WI_BME_A_015	Human Resource Management						60		C		5	150
WI_BME_A_016	Strategic Sustainability Management						60		C		5	150
WI_BME_A_017	Technology Trends - 3D printing, AR, VR, IoT							60	C		5	150
W_WIWI_B_018	Intercultural Management / Ethics in Economy / Diversity Management							60	C		5	150
WI_BME_A_018	Innovation- and Entrepreneurship-Management							60	C		5	150
3a. Business English as a Foreign Language										360	30	900
O_STG_L_010	Advanced Business English and Communication I	60							CE		5	150
O_STG_L_011	Advanced Business English and Communication II		60						CE		5	150
O_STG_L_012	Advanced Business English and Communication III			60					CE		5	150
O_STG_L_013	Advanced Business English and Communication IV				60				CE		5	150
O_STG_L_014	Advanced Business English and Communication V					60			CE		5	150
O_STG_L_015	Advanced Business English and Communication VI						60		CE		5	150
3b. Business German as a Foreign Language										360	30	900
O_STG_L_016	Business German as a Foreign Language I	60							CE		5	150
O_STG_L_017	Business German as a Foreign Language II		60						CE		5	150
O_STG_L_018	Business German as a Foreign Language III			60					CE		5	150
O_STG_L_019	Business German as a Foreign Language IV				60				CE		5	150
O_STG_L_020	Business German as a Foreign Language V					60			CE		5	150
O_STG_L_021	Business German as a Foreign Language IV						60		CE		5	150
3c. Business Italian Foreign Language										360	30	900
O_STG_L_022	Business Italian as a Foreign Language I	60							CE		5	150
O_STG_L_023	Business Italian as a Foreign Language II		60						CE		5	150
O_STG_L_024	Business Italian as a Foreign Language III			60					CE		5	150
O_STG_L_025	Business Italian as a Foreign Language IV				60				CE		5	150
O_STG_L_026	Business Italian as a Foreign Language V					60			CE		5	150
O_STG_L_027	Business Italian as a Foreign Language IV						60		CE		5	150
4. Practical Elements										0	15	450
O_STG_P_011	Practical Phase II						x		C		15	450
5. Final Examination										30	15	450
O_STG_T_010	Bachelor Thesis							x	C	0	12	360
O_STG_T_011	Colloquium Bachelor Thesis							30	C	30	3	90
		30	30	30	30	30	30	30				
Legend:	C: Compulsory Lessons	300	300	240	300	240	300	210		2070	210	6300
	CE: Compulsory Elective Lessons											

Business Management and Engineering			
Module Title	Scientific Methods and digital Competences		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students will be able to understand and apply basic ideas and formal requirements of scientific research and learn how to write scientific papers. They will learn the fundamentals and techniques of research and are able to choose and appropriately apply methods on their scientific topic and research question.</p> <p>They will know about the difference between qualitative and quantitative research and between theoretical and practiced approaches. They will know how to evaluate the findings of their research regarding quality, sustainability, and relevant effects.</p> <p>Students will be able to present the results of their research in oral and written presentations and discuss their points of view with the lecturer and fellow students.</p> <p>Students will be able to use exam techniques safely and in a structured manner.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		

Applicability of the module in other degree programmes	B_WING_BME
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Business Management and Engineering			
Module Title	Business Administration		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students know about the essential fundamentals and basic conditions of economic action. They are able to put economic approaches into a theoretical context. The students are familiar with the object of knowledge in business administration and have an overview of basic business and economic contexts. Thus they understand the social, economic and legal environment of business decisions. The students know the basics of the economic systems and economic orders. They are able to analyse economic and business cycle policy. This knowledge enables students to understand and work on economic issues. On the basis of this knowledge, the students are able to classify even more complex economic questions thematically correctly and to search for targeted solutions to problems and apply them.</p> <p>Students understand the context of the individual service areas within the operational value chain. They know the conceptual, theoretical and methodological basics of the operational performance areas “procurement” and “production” as well as “sales” and “marketing”. They are familiar with the essential decision-making elements in the service areas and know the respective instruments for decision-making. In this module, the service area is considered both as a material goods production and as a service area.</p>		

Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>
Applicability of the module in other degree programmes	<p>B_WING_BME</p>

Business Management and Engineering			
Module Title	Mathematics for Engineers I		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Based on already acquired knowledge, the course reactivates and deepens fundamental mathematic competence. Students are able to comprehend mathematical-business calculations. They understand and are able to apply the fundamentals of mathematic methods, they master mathematic presentations of business contexts.</p> <p>Students have knowledge of subject areas of linear algebra (vectors, arrays, determinants, equation systems). They master fundamentals of analysis (series, functionalities, limits, differential calculus, integral calculation). They are able to put up relations of technical parameters as functionalities in R 1 and can translate curve discussion into flat curves. They are also capable to calculate certain and indefinite integrals and interpret the results. Students understand the concepts of complex numbers and are familiar with their rudimentary calculation rules. Students are able to solve mathematic questions with computer calculation programs and visualise and evaluate interrelationships.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		

Applicability of the module in other degree programmes	B_WING_BME
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Business Management and Engineering			
Module Title	Physics for Engineers		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	The students understand the basics of physics and have an overview of classical mechanics. The students know the basic physical concepts, understand physical phenomena and laws and can apply Newtonian mechanics to solve technical problems. They are able to apply their knowledge in different fields and to act responsibly in their professional activities. In doing so, they can also recognise new trends and incorporate their methodology - if necessary after appropriate qualification - in their further work.		
Examination form / Requirements for allocation of ECTS credits	Written Exam For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		

<p>Applicability of the module in other degree programmes</p>	
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Business Management and Engineering			
Module Title	Business Finance, Management- and Statutory-Accounting		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students understand the role of the Finance function in the business organization and learn about basic concepts in Finance and their application to investment and business financing decision.</p> <p>Students understand the purpose of Management and Cost Accounting for entrepreneurial decision making to guarantee short- and long-term profits.</p> <p>Students understand the framework and purpose of financial accounting and are able to analyze financial statements.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business English and Communication Skills I		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	English language B2/C1 B2/C1 Confident handling of typical situations in everyday academic life (introducing people and fields of activity, academic structures, etc.). Reading and listening comprehension is very good.		
Examination form / Requirements for allocation of ECTS credits	Activity Confirmation For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business German as a Foreign Language I		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>German Language: A1</p> <p>Students can understand and use familiar everyday expressions and very simple sentences aimed at satisfying specific needs. They introduce themselves and others and ask other people questions about themselves - e.g. where they live, what people they know or what things they have and can answer questions of this kind. They can communicate in a simple way, if the conversation partners speak slowly and clearly and are ready to help.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business Italian as a Foreign Language I		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Italian language A1</p> <p>A1</p> <p>Students can understand and use everyday expressions and very simple sentences. They can introduce themselves and others and ask other people questions about themselves. Students will master basic vocabulary and have an understanding of Italian grammar.</p> <p>After successful completion of the module language test, we recommend Telc exam A1 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Mathematics for Engineers II		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Mathematics for Engineers I		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students have in-depth knowledge of differential calculus and function approximation (Taylor series, Fourier series). They understand basic concepts of differential equations regarding physical problems. They are able to develop solutions to simple homogenous and inhomogeneous differential equations by variable separation and specification of particular solutions. They understand the concept of Laplace transformation in order to solve differential equations. Students are able to distinguish multi-dimensional functions and know how to apply them in regression and error calculation. They master fundamentals of statistic methods and are able to apply their knowledge to simple physical-technical tasks. They can also solve these problems by using computer calculation programs.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Marketing and Distribution		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students know about the interrelationships between product quality, price and sales success. They understand the interests of relevant groups of buyers and master the relevant acquisition methods. They are familiar with the relevant marketing instruments and products and their target group-specific areas of application. Students have application-related knowledge of cooperation with communication service providers, social media, and advertising agencies.</p> <p>The students master the requirements and working methods of today's and in-ternational sales management, know methods and instruments, can analyse international market contexts and sales systems and use them in case studies. They can tailor the methods to individual product and customer groups in a tar-geted and success-oriented manner. Students are able to conduct sales talks and negotiations in a conclusion-oriented manner.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Portfolio</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		

Applicability of the module in other degree programmes	B_WING_BME
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Business Management and Engineering

Module Title	Basics of Engineering I: Electronics and Electrical Engineering		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students have extensive electrotechnical knowledge of electricity. They are able to apply the knowledge acquired on the basis of scientific thinking in engineering. They will acquire skills for the evaluation and solution of electrotechnical problems. Thus students acquire basic knowledge for other modules, such as electrical drive technology, control engineering and student consulting project work. A special learning objective is to deepen the way of thinking for interdisciplinary problems in the field of engineering.</p> <p>Students</p> <ul style="list-style-type: none"> - know the basic electrical phenomena - are able to systematically calculate simple DC networks - can understand time-dependent quantities for the calculation of time-dependent processes via differential equations - understand the concept of complex alternating current calculation - can dimension simple arrangements such as voltage dividers - know essential electronic components and can explain their function - know essential basic circuits of rectifier and amplifier arrangements - know the properties of real circuits, understand access to analysis (gain-bandwidth product) and can apply the findings - understand the concept of the equivalent circuit diagrams from different perspectives and can apply this to simple arrangements - understand the basic circuits of the ideal operational amplifier and can analyse and dimension them - can analyse simple arrangements by measurement and interpret and document the results 		

Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>
Applicability of the module in other degree programmes	<p>B_WING_BME</p>

Business Management and Engineering

Module Title	Material Science and Mechanical Behavior		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students are able to evaluate and select materials according to their characteristics and behaviour and to use them for design or production purposes. They can classify common materials with regard to their chemical properties. They know basic procedures for material testing of essential properties and parameters. The students are experienced in working with common spreadsheets.</p> <p>Nowadays, materials are precisely tailored to the later application. First, the understanding of the structure of the materials, starting with the atoms and ending with the properties, is what the students learned in this course. Then the students understand how forces and moments are translated into stress and strain distributions within the material and how these can be calculated. In the case of metals, the energy elasticity is understood, and in the case of plastics the students understand that there is a restoring force, the entropy elasticity (for non-linear elasticity). The difference between isotropic and anisotropic material behavior is also understood. Stress and deformations can be calculated and the students understand how to use Hook's law.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		

Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.
Applicability of the module in other degree programmes	B_WING_BME

Business Management and Engineering			
Module Title	Basics of IT-Systems and IT-Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students have basic skills in all areas of modern information technology required for leadership at the interface between management and IT.</p> <p>Acquired competencies include:</p> <p>Students know the most important tasks and characteristics, architectures and areas of application of essential IT components in hardware and software. They will understand the underlying structure logic, the storage techniques and access methods as well as processing paths on different abstraction paths. The students can apply the learned methods to concrete questions and facts and present them in model form.</p> <p>Students are able to analyse complex IT problems and break them down into solvable sub-problems, as well as iteratively optimize possible solutions. The students have the ability to build sophisticated IT environments with a modular combination of the methods learned in hardware and software. Thus they can assess the suitability of possible implementations, compare alternative architectures and determine solution quality and throughput.</p> <p>This gives students the basic prerequisites for successfully completing the IT-related parts of the subsequent modules. The contents of this module are therefore taught as basic.</p>		

Examination form / Requirements for allocation of ECTS credits	Portfolio For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.
Applicability of the module in other degree programmes	B_WING_BME

Business Management and Engineering			
Module Title	Business English and Communication Skills II		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business English and Communication Skills I		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>English language C1</p> <p>C1</p> <p>Confident handling of typical situations in everyday academic life (introducing people and fields of activity, academic structures, etc.). Reading and listening comprehension is very good. Confidence in giving presentations and answering questions about the presentation.</p> <p>After successful completion of the module language test, we recommend Telc exam C1 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business German as a Foreign Language II		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business German as a Foreign Language I		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>German Language: A 2</p> <p>Students can understand sentences and frequently used expressions related to areas of immediate relevance (e.g. personal and family information, shopping, work, local area). They can communicate in simple, routine situations involving a simple and direct exchange of information about familiar and common things. Students can describe with simple means the own origin and education, the direct environment and things in connection with immediate needs.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business Italian as a Foreign Language II		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business Italian as a Foreign Language I		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Italian language A2</p> <p>A2</p> <p>Students can understand sentences and frequently used expressions related to their life. You can communicate orally and in writing in simple situations.</p> <p>Simple to moderately difficult texts can be understood and also written.</p> <p>After successful completion of the module language test, we recommend Telc exam A2 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering

Module Title	Student Research Project I		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	The students know the formal requirements for scientific work and understand the need for a structured approach. They are capable of putting their theoretical knowledge into practice; they evaluate work results against the background of formulated questions.		
Examination form / Requirements for allocation of ECTS credits	Written Paper For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Cost Accounting		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Accounting and Taxes		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	Students learn tasks and significance of cost accounting and performance calculation for effective corporate governance. They will master fundamental knowledge and skills to execute cost accounting and performance calculation. They are able to enforce all partial steps of cost accounting. They will know about the different systems of cost accounting and learn how to apply them appropriately and effectively. Students learn how to select systems of cost accounting that support specific tasks and provide solutions to problems of decision making in corporations and enterprises.		
Examination form / Requirements for allocation of ECTS credits	Written Exam For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business Law		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students have gained an overview of the legal tradition and system of Germany within insights to different legal traditions/systems. They have acquired knowledge of the basic principles of the German legal system.</p> <p>They understand the difference of public and private law and are able to solve smaller legal problems by using legal texts, especially in the field of private law (German Civil Code – BGB).</p> <p>Students understand the legal aspects of economic integration in the European Union. They have gained an overview of the institutions and basic principles of European law.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		

Applicability of the module in other degree programmes	B_WING_BME
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Business Management and Engineering			
Module Title	Basics of Engineering II: Mechanical Engineering and Mechatronics		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Basics of Engineering I: Electronics and Electrical Engineering		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>The students are in control of the application of the basic axioms and principles of statics (equivalence, intersection and equilibrium principles). Students are able to establish equilibrium conditions for statically determined systems and thus to analyse the distribution of forces and moments in the bearings. They are able to calculate storage and cutting reactions analytically and on the computer. Students can calculate focal points of compound standard systems as well as friction effects of solids.</p> <p>The students understand strength theory as the science of forces and their effect on and in a body. They can calculate the occurring loads according to the laws of mechanics. Students are able to calculate stresses and deformations for beam structures and to dimension them. This applies to the static load types tension, compression (including buckling), bending and torsion, each acting individually and in combination with the other. The students are also able to determine the boundary conditions of the loads and to establish and solve necessary differential equations and systems of equations. They can delineate practical examples in case studies and work with computer support.</p> <p>The students have knowledge of electropneumatic components and systems and their control. They are familiar with the basics of modelling and simulation of mechatronic systems.</p>		

Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>
Applicability of the module in other degree programmes	<p>B_WING_BME</p>

Business Management and Engineering			
Module Title	Principles of Political Economy		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>The students know the subject of economics as the bases of micro- and macro-economic relationships. They understand specialized fields of market economy coordination. They are familiar with the economic forms and systems as well as with the specifics of the social market economy and are able to understand fundamental economic relationships as well as to analyze and evaluate economic policy issues. The students manage fundamental microeconomic fundamentals and develop an understanding of the theory and practice of state competition policy. The students are able to distinguish and explain the macroeconomic theory lines classical, neoclassical and Keynesianism in terms of time period, representatives, orientation, concerns, paradigms and methodology. They are able to explain the general economic policy implications of the concepts and to evaluate current economic policy developments. The knowledge acquired enables students to understand and work on macroeconomic issues. Based on this knowledge, the students are able to correctly assign complex economic issues thematically and to search for support and problem solutions in a targeted manner.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		

Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.
Applicability of the module in other degree programmes	B_WING_BME

Business Management and Engineering			
Module Title	Business English and Communication Skills III		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business English and Communication Skills II		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>English language C1</p> <p>C1</p> <p>Achieve a stylistic range of variation in oral and written expression. Confidently explain diagrams and tables.</p> <p>After successful completion of the module language test, we recommend Telc exam C1 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business German as a Foreign Language III		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business German as a Foreign Language II		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>German Language: A2/ B1</p> <p>A2</p> <p>Students can understand sentences and frequently used expressions related to areas of immediate relevance (e.g. personal and family information, shopping, work, local area). They can communicate in simple, routine situations involving a simple and direct exchange of information about familiar and common things. Students can describe with simple means the own origin and education, the direct environment and things in connection with immediate needs.</p> <p>B1</p> <p>Students can understand the main points when clear standard language is used and when familiar things from work, school, leisure, etc. are involved. They can handle most situations encountered when travelling in the language area. They speak simply and coherently on familiar topics and personal areas of interest. Students can report on experiences and events, describe dreams, hopes and goals and give brief reasons or explanations for plans and views.</p>		

Examination form / Requirements for allocation of ECTS credits	Activity Confirmation For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.
Applicability of the module in other degree programmes	B_WING_BME

Business Management and Engineering			
Module Title	Business Italian as a Foreign Language III		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business Italian as a Foreign Language II		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Italian language A2/B1</p> <p>A2/B1</p> <p>Students are able to understand orally and in writing the main points when it comes to familiar things regarding future work, university, leisure time. They can report on experiences and give input on plans and views. Simple to moderately difficult texts can be understood and also written.</p> <p>After successful completion of the module language test, we recommend Telc exam A2/B1 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering

Module Title	Constructing and CAD		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	Students are able to read drawings and create them on a CAD system. They are familiar with the basics of technical drawing and can apply them in practice. Students are familiar with the display of technical objects, their dimensions and the specification of additional information for understanding drawings. They are able to create individual parts, assemblies and simple animations with the 3D CAD system.		
Examination form / Requirements for allocation of ECTS credits	Paper For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Product Design and Product Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Students have a deeper understanding of the basic concepts of product development, introduction and life cycle. They are able to formalise the skills acquired during their studies and apply them to the real requirements of product development.</p> <p>Students are able to develop a holistic concept for integrated product development against the background of internationalization, which supports the creation of products from the idea to successful market launch. They are able to implement and apply these procedures using powerful CAD and database systems. This includes working with a CAD system in conjunction with a PDM system based on a relational database. The students know essential legal and normative requirements for sustainable product development and are able to expand this knowledge on their own.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Paper</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Basics of Engineering III: Production Technologies, Planning and Controlling Systems		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>The students know the basics of production technology. They have knowledge of the basic components of modern production and their interfaces to adjacent areas.</p> <p>Students are taught the classification, systematics and basic methodological content of production planning and product control systems (standard system). Students know the importance, mutual interrelationships and effects of PPS systems in the networked and continuous order processing process of different types of companies. They are able to make specific system selections and implementations. Students are able to make comprehensive presentations with current practical examples.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes			

Business Management and Engineering			
Module Title	Global Supply Chain Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	Students recognize that with increasing globalization, global supply chain management is becoming an important issue for many companies. Supply chain management goals, such as reducing costs for procurement and minimizing risks in connection with purchasing activities, are identified. The students understand the most important starting points in strategic purchasing and are familiar with the most important approaches for successful negotiation. Students understand that the major difference is that global supply chain management has a global interest and suppliers, not just a local or national orientation. They can analyse global production strategies and relevant evaluation and decision systems.		
Examination form / Requirements for allocation of ECTS credits	Written Paper For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Information Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>The students know the possibilities of modern information infrastructure. They know about the boundaries of information management to obvious operational functions, such as communication management, operational knowledge management and controlling. They are aware of the importance of information processing in a company. Students are able to participate in the training, planning and control of company information systems. They can apply their knowledge by mapping the organization of a company and its processes in an informational workflow.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Exam</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business English and Communication Skills IV		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business English and Communication Skills III		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>English language C1</p> <p>C1</p> <p>Achieve a stylistic range of variation in oral and written expression. Confidently explain diagrams and tables. Acquisition of intercultural competences. Argue confidently and skilfully.</p> <p>After successful completion of the module language test, we recommend Telc exam C1 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business German as a Foreign Language IV		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business German as a Foreign Language III		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	German Language: B1 B1 Students can understand the main points when clear standard language is used and when familiar things from work, school, leisure, etc. are involved. They can handle most situations encountered when travelling in the language area. They speak simply and coherently on familiar topics and personal areas of interest. Students can report on experiences and events, describe dreams, hopes and goals and give brief reasons or explanations for plans and views.		
Examination form / Requirements for allocation of ECTS credits	Activity Confirmation For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business Italian as a Foreign Language IV		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business Italian as a Foreign Language III		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	Italian language B1 B1 Students have the ability to express themselves coherently both orally and in writing about personal areas of interest. They can report on experiences, goals and give input on plans and views. After successful completion of the module language test, we recommend Telc exam B1 at a Telc examination centre		
Examination form / Requirements for allocation of ECTS credits	Activity Confirmation For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Smart Factories and Digitalisation		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>The term “Smart Factory” stands for a production environment in which the production facilities and also the logistics systems organize themselves without human intervention. The students understand the architecture of smart factories and also the interaction of the technologies currently in use and the logistics systems. The acquisition and evaluation of production data is also understood. They students are aware of the connection between current developments in digital technologies and industrial engineering aspects. Students enlarge their social competence with the help of team exercises.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Portfolio</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	International Management and Corporate Strategy		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Commercial English I; Commercial English II		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	Students “experience” a specialist discipline in English. They will deal with the challenges of globalization for corporate management and acquire knowledge and skills in international management and the development of corporate strategies. They will learn to deal with the commercial, legal and cultural specifics of international business activities. They know how to handle international deliveries and payments. In addition, students can classify business activities in companies in a strategic framework and assess the importance of a strategy for competition. Students are able to develop a business idea from the creation of a vision to the development of a strategy to tactics and operational task planning in a feasible concept. They know the strategic decision-making fields and strategy alternatives that can be simulated in a software-based business simulation in the form of case studies.		
Examination form / Requirements for allocation of ECTS credits	Portfolio For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		

Applicability of the module in other degree programmes	B_WING_BME
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Business Management and Engineering			
Module Title	Student Research Project II		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Student Research Project I		
Workload	Total: 150 h Contact Time: 0 h Self-Study: 150 h	ECTS credits	5
General Competences and Learning Outcomes	The students create a second scientific paper based on the question or task. In terms of content, students broaden and deepen topics from their advanced studies. The writing of the term paper serves above all to deepen and broaden the application of good scientific work as well as the analysis and processing of technical questions or problems. Students develop and evaluate relevant sources, practice data selection and evaluation as well as scientifically adequate text formulation.		
Examination form / Requirements for allocation of ECTS credits	Paper For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Basics of Quality Management and Environmental Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>The students know the most important functions and processes of a quality management system. They know the most important tools that are used in product development and production to improve quality. They are able to carry out a risk analysis and understand why change management plays an important role to ensure the quality. The students also know the most important tool of lean production method.</p> <p>The students understand the basics of quality and environmental management and can apply them in a practical way. They will be able to apply the knowledge you have learned to simple case studies.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Portfolio</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering

Module Title	Project Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	The students have basic knowledge of project management and the requirements of project planning. They understand the fundamentals and interrelationships of project work. They will be able to apply best practices that can still prevent projects from failing.		
Examination form / Requirements for allocation of ECTS credits	Written Paper For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business English and Communication Skills V		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business English and Communication Skills IV		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>English language C1/C2</p> <p>C1/C2</p> <p>Argue confidently and skilfully. Intercultural competences are present. Effortless comprehension of read and heard texts. Information can be summarised from written and oral sources without difficulty. Students can express themselves spontaneously and very fluently.</p> <p>After successful completion of the module language test, we recommend Telc exam C1/C2 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business German as a Foreign Language V		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business German as a Foreign Language IV		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>German Language: B2</p> <p>Students can understand the main content of complex texts on concrete and abstract topics; also understands technical discussions in his own special field. They can communicate so spontaneously and fluently that a normal conversation with native speakers is possible without much effort on both sides. Students can express themselves clearly and in detail on a wide range of topics, explain a viewpoint on a current issue and indicate the advantages and disadvantages of various options.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business Italian as a Foreign Language V		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business German as a Foreign Language IV		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Italian language B1/B2</p> <p>B1/B2</p> <p>Students can understand the main points in the field of work, university, leisure time. You can express yourself simply and coherently on familiar topics and areas of personal interest. They can report on experiences, goals and give input on plans and views.</p> <p>After successful completion of the module language test, we recommend Telc exam B1/B2 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Human Resource Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>The students know the fields of activity and instruments of personnel management. They understand personnel management as a multifactorial process, which makes it necessary to adapt leadership and performance behaviour to the conditions of the organisation and the possibilities of the employees. In this respect, students are able to critically reflect leadership and performance behaviour and make design and decision proposals with regard to various requirements. Their knowledge of individual and collective labour law regulations enables them to assess the impact of labour law regulations on personnel management and management measures. The students are particularly familiar with the challenges of leadership behaviour in the areas of cultural leadership, change management, and innovation.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Portfolio</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Strategic Sustainability Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>The students have a basic understanding of strategic sustainability management. The students know how you, as strategic managers, use all instruments of strategic corporate management to apply them to problems of sustainability in the company. The students know how organisations can operate in a sustainable manner and rise to the corporate sustainability challenge facing organisations today and tomorrow. The students can explain problems in a team, but also independently, and present solution proposals orally and in writing. The students have a clear understanding of planning, preparation and execution of business strategy that is sustainable, innovative and entrepreneurial.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Paper</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business English and Communication Skills VI		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business English and Communication Skills V		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>English language C2</p> <p>C2</p> <p>Information can be summarised from written and oral sources without difficulty. Students can express themselves spontaneously and very fluently. Academic articles can be translated effortlessly in terms of subject matter.</p> <p>After successful completion of the module language test, we recommend Telc exam C2 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Business German as a Foreign Language VI		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business German as a Foreign Language V		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>German language B2 / C1</p> <p>B2</p> <p>Students can understand the main content of complex texts on concrete and abstract topics; also understands technical discussions in his own special field. They can communicate so spontaneously and fluently that a normal conversation with native speakers is possible without much effort on both sides. Students can express themselves clearly and in detail on a wide range of topics, explain a viewpoint on a current issue and indicate the advantages and disadvantages of various options.</p> <p>C1</p> <p>Can understand a wide range of demanding, longer texts and also grasp implicit meanings. Can express himself spontaneously and fluently without having to search for words more often than not. Can use the language effectively and flexibly in social and professional life or in education and study. Can express himself clearly, in a structured and detailed manner on complex issues, using various means of linking texts in an appropriate manner.</p> <p>Students are prepared for the external certificate exams B2 or C1. For a successful career start, we strongly recommend taking the Telc Deutsch B2 or C1 language examination at a Telc examination centre.</p>		

Examination form / Requirements for allocation of ECTS credits	Activity Confirmation For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.
Applicability of the module in other degree programmes	B_WING_BME

Business Management and Engineering			
Module Title	Business Italian as a Foreign Language VI		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	Business Italian as a Foreign Language V		
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Italian language B2</p> <p>B2</p> <p>Students can understand the main contents on concrete and abstract topics. You also understand specialist discussions in your own area of expertise. Normal conversation with native speakers is possible without much effort. You can express yourself clearly and in detail on a wide range of topics.</p> <p>After successful completion of the module language test, we recommend Telc exam B2 at a Telc examination centre</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Activity Confirmation</p> <p>For the allocation of ECTS credits, the proof of performance must be assessed as „passed“.</p>		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Practical Phase II		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 450 h Contact Time: 0 h Self-Study: 450 h	ECTS credits	15
General Competences and Learning Outcomes	<p>The practical phase serves to apply the previously acquired branch-specific, interdisciplinary and social skills. Students work in suitable companies and apply branch-specific knowledge in business practice. They are able to describe their branch-specific professional activities. They are capable of integrating their branch-specific theoretical knowledge into the practical background and are able to transfer and apply it to future branch-specific theoretical and practical situations. Students are capable to express themselves in an appropriate scientific way.</p>		
Examination form / Requirements for allocation of ECTS credits	<p>The practical phase must be documented by a proof of the hours worked and an internship report according to the specifications of the bbw Hochschule - University of Applied Sciences. The regulations according to Annex 3 of the respective study and examination regulations apply. A “passed” practical report is required for allocation of the ECTS credits.</p>		
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Technology Trends - 3D printing, AR, VR, IoT		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	The students understand how new technologies and production processes make production processes much more efficient. They also understand that this new technologies can also create completely new markets and business models. These new technologies can in part be disruptive and therefore the students understand in which areas it makes sense to use these technologies and which advantages and disadvantages can result from them. The students can also assess how the digital data can be generated, processed and also transferred to other systems. After completing the module, students are also able to use various innovative production machines such as 3D printers or laser cutting machines themselves.		
Examination form / Requirements for allocation of ECTS credits	Written Exam For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Intercultural Management / Ethics in Economy / Diversity Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>a) Diversity und Intercultural Management:</p> <p>The students know the theoretical and historical foundations of the concept of culture and the intercultural ethnic and diversity problems. They can distinguish between different cultural value systems, critically evaluate them and develop their own viewpoint on intercultural issues, challenges, problems and conflict resolution. They can apply this knowledge in practice in business activity. Students are able to implement the aspects of diversity relevant to management, team leadership and negotiation in an intercultural and international environment. On the basis of case studies, they have learned and trained the skills and can apply them in an intercultural context.</p> <p>b) Ethics:</p> <p>The students know the developmental and theoretical basics of business ethics. They can critically evaluate various sets of rules and ethical models and develop their own point of view on ethical issues, represent them and bring them into practice in economic activity. The students know about the ethical principles of modern corporate management and are able to put them into practice, taking into account the interests of other stakeholders. They have extensive knowledge of current economic policy issues relating to the meaning and application of ethical norms in national and global contexts.</p>		

Examination form / Requirements for allocation of ECTS credits	<p>Portfolio</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>
Grade	<p>The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.</p>
Applicability of the module in other degree programmes	<p>B_WING_BME</p>

Business Management and Engineering			
Module Title	Innovation- and Entrepreneurship-Management		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation			
Workload	Total: 150 h Contact Time: 60 h Self-Study: 90 h	ECTS credits	5
General Competences and Learning Outcomes	<p>Innovations of a technical or non-technical nature are an original source of the overall competitive advantage of international companies. Through the module students are familiar with the technical terminology in the field of technology and innovation management. They recognize the strategic importance of innovations and are able to apply management tools and techniques in order to apply management tools and techniques to stimulate innovation in international companies, strategically plan, organize and commercialize them. In addition, the module places students in the role of an entrepreneur who, with an innovative idea, transforms this idea into a product or service product or service, realizes its commercialization, and strives for the growth of his company</p>		
Examination form / Requirements for allocation of ECTS credits	<p>Written Paper</p> <p>For the allocation of ECTS credits, the examination performance must be graded with at least 4.0 (sufficient).</p>		

Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.
Applicability of the module in other degree programmes	B_WING_BME

Business Management and Engineering			
Module Title	Bachelor Thesis		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	According to Sections 29, 29a and 30 Framework Study and Examination Regulations.		
Workload	Total: 360 h Contact Time: 0 h Self-Study: 360 h	ECTS credits	12
General Competences and Learning Outcomes	Students are able to independently write a subject-specific or interdisciplinary question, problem or task while maintaining good scientific work. They demonstrate that they can apply specialized knowledge to a topic and can analyze, evaluate and develop it further, as well as present the editing process and the results in a comprehensible and stylistically convincing form.		
Examination form / Requirements for allocation of ECTS credits	Thesis The examination performance must be assessed with at least 4.0 (sufficient) for the allocation of ECTS credits according to Section 20 Framework Regulations for Studies and Examinations.		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes	B_WING_BME		

Business Management and Engineering			
Module Title	Colloquium Bachelor Thesis		
Duration of Module	Full Semester		
Forms of Teaching	Lecture or Seminar		
Frequency of Module	Every term		
Requirements for successful participation	According to Section 30 paragraph 4 of the Frame Study and Examination Regulations.		
Workload	Total: 90 h Contact Time: 30 h Self-Study: 60 h	ECTS credits	3
General Competences and Learning Outcomes	In the colloquium the students show that they are able to explain and represent the results of the final thesis independently and that they have assured knowledge in the subject areas to which the final thesis is assigned, as well as that they can apply their presentation and communication skills.		
Examination form / Requirements for allocation of ECTS credits	Colloquium The examination performance must be graded with at least 4.0 (sufficient) for the allocation of ECTS credits according to Section 20 Framework Study and Examination Regulations.		
Grade	The assessment and allocation of ECTS credits as well as the use of the grade in the calculation of the overall grade of the degree is carried out in accordance with Sections 12, 20 and 31 of the Framework Study and Examination Regulations.		
Applicability of the module in other degree programmes			