

10. B.S. in Sustainable Development Engineering (“Ingeniero en Desarrollo Sustentable”) – IDS - Edition 2019

10.1 Berliner Hochschule für Technik

TECNOLÓGICO DE MONTERREY will provide sufficient academic credits for Berliner Hochschule für Technik students to pursue studies toward obtaining the Bachelor Degree at TECNOLÓGICO DE MONTERREY and transfer credits to count as part of Year 3 (three) of the Berliner Hochschule für Technik Bachelor's degree. A guide towards the courses offered at TECNOLÓGICO DE MONTERREY and accreditation inside Berliner Hochschule für Technik is shown below:

Tecnologico de Monterrey B.S. in Sustainable Development Engineering			Berliner Hochschule für Technik Building Services and Energy Technology (B. Eng.)		
Code	Code	Code	Code	Course	ECTS
				Possible accreditation	
IQ2003B	Evaluation of Energy Processes	8	B33	Elective Course	5
			B30	Sustainable Energy Supply	5
IQ2013	Analysis of Processes and Circular Economy	1	B26	Heating Engineering IV - Project	5
IQ2004B	Energy Performance Evaluation of Industrial Processes	4	B27	Ventilation and Air Conditioning Engineering IV - Project	5
IQ2012	Application of the Principles of Energy Efficiency	2	B28	Sanitary Engineering IV - Project	5
EG1005	Elective Course Ethics and Citizenship	3	B32	Invitation of Tenders plus the Construction Process	5
Second semester					
OP3091	Professional Elective I	3		Internship Thesis	30
OP3092	Professional Elective II	3			
OP3093	Professional Elective III	3			
OP3094	Professional Elective IV	3			
OP3095	Professional Elective V	3			
OP3096	Professional Elective VI	3			
	TOTAL	36		TOTAL	60

10.2 Bielefeld University of Applied Sciences

10.2.1 Specialization Power Generation Systems

Tecnologico de Monterrey B.S. in Sustainable Development Engineering			Bielefeld University of Applied Sciences Renewable Energies (B.Eng.)		
Code	Course Name	Credits	Code	Course Name	ECTS
			Example for specialization Power Generation Systems		
OP309X	Elective Course	3	9019	Elective Module	5
IQ2003B	Evaluation of Energy Processes	8	1042	Decentralized Energy Systems	5
			1059	Electrical Machines	5
IQ2004B IQ2012	Energy Performance Evaluation of Industrial Processes	4	1283	Wind and Hydropower	5
IQ2013	Application of the Principles of Energy Efficiency	2	1221	Project 2	5
IQ2003B	Analysis of Processes and Circular Economy	2	9019	Elective Module	5
Second semester					
OP3091	Professional Elective I	3		Internship	30
OP3092	Professional Elective II	3		Thesis	
OP3093	Professional Elective III	3			
OP3094	Professional Elective IV	3			
OP3095	Professional Elective V	3			
OP3096	Professional Elective VI	3			
	TOTAL	36		TOTAL	60

10.2.2 Specialization Energy Efficient Systems

Tecnologico de Monterrey B.S. in Sustainable Development Engineering			Bielefeld University of Applied Sciences Renewable Energies (B.Eng.)		
Code	Course Name	Credits	Code	Course Name	ECTS
			Example for specialization Energy Efficient Systems		
OP309X	Elective Course	3	9019	Elective Module	5
IQ2003B	Evaluation of Energy Processes	8	1056	Electrical Energy Storage and Fuel Cells	5
			1283	Wind and Hydropower	5
IQ2004B IQ2012	Energy Performance Evaluation of Industrial Processes	4	1243	Sensors	5
IQ2013	Application of the Principles of Energy Efficiency	2	1221	Project 2	5
IQ2003B	Analysis of Processes and Circular Economy	2	9019	Elective Module	5
Second semester					
OP3091	Professional Elective I	3		Internship	30
OP3092	Professional Elective II	3		Thesis	
OP3093	Professional Elective III	3			
OP3094	Professional Elective IV	3			
OP3095	Professional Elective V	3			
OP3096	Professional Elective VI	3			
	TOTAL	36		TOTAL	60

10.3 Hochschule Trier

TECNOLÓGICO DE MONTERREY will provide sufficient academic credits for Hochschule Trier students to pursue studies toward obtaining the Bachelor Degree at TECNOLÓGICO DE MONTERREY and transfer credits to count as part of Year 3 (three) of the Hochschule Trier Bachelor's degree. A guide towards the courses offered at TECNOLÓGICO DE MONTERREY and accreditation inside Hochschule Trier is shown below:

Tecnologico de Monterrey B.S. in Sustainable Development Engineering			Hochschule Trier Sustainable Business and Technology (B. Eng.)		
Code	Code	Code	Code	Course	ECTS
				Possible accreditation	
IQ2003B	Evaluation of Energy Processes	8	25/26/29/30	Elective	5
			18	Sustainable Waste and Wastewater Treatment Technologies	5
IQ2013	Analysis of Processes and Circular Economy	1	22	Cleaner Production and Operations Management	5
IQ2004B	Energy Performance Evaluation of Industrial Processes	4	19	Sustainable Energy Systems	5
IQ2012	Application of the Principles of Energy Efficiency	2	27	Interdisciplinary Project I	5
EG1005	Elective Course Ethics and Citizenship	3	27	Interdisciplinary Project II	5
Second semester					
OP3091	Professional Elective I	3		Internship Thesis	30
OP3092	Professional Elective II	3			
OP3093	Professional Elective III	3			
OP3094	Professional Elective IV	3			
OP3095	Professional Elective V	3			
OP3096	Professional Elective VI	3			
	TOTAL	36		TOTAL	60

10.4 Westsächsische Hochschule Zwickau

TECNOLÓGICO DE MONTERREY will provide sufficient academic credits for Westsächsische Hochschule Zwickau students to pursue studies toward obtaining the Bachelor Degree at TECNOLÓGICO DE MONTERREY and transfer credits to count as part of Year 3 (three) of the Westsächsische Hochschule Zwickau Bachelor's degree. A guide towards the courses offered at TECNOLÓGICO DE MONTERREY and accreditation inside Westsächsische Hochschule Zwickau is shown below:

Tecnologico de Monterrey B.S. in Sustainable Development Engineering			Westsächsische Hochschule Zwickau Green Engineering and Sustainable Management (B. Eng.)		
Code	Code	Code	Code	Course	ECTS
				Possible accreditation	
IQ2005B	Advanced Sizing and Monitoring of Energy Processes	8	PTI46100	Process Plant Design & Material Handling	5
			ELT04610	Renewable Energy and Distributed Generation	5
IQ2006B	Innovation of the Processes in Your Value Chain	6	PTI46200	Radioactivity and radiation protection	5
			WIW74000	Information Technology	5
DS2002	Innovation of Corporate Sustainability Models	2		Election obligation module	5
IQ2014	Improvement of Productive Processes Applying Principles of Circular Economy	2		Election obligation module	5
Second semester					
OP3091	Professional Elective I	3		Internship Thesis	30
OP3092	Professional Elective II	3			
OP3093	Professional Elective III	3			
OP3094	Professional Elective IV	3			
OP3095	Professional Elective V	3			
OP3096	Professional Elective VI	3			
	TOTAL	36		TOTAL	60