



**Study Plan M.S. in Mechatronics Engineering 2013-2014 for Double Degree
Credit Hours (43 Cr.Hrs)**

Hochschule Bochum
Bochum University
of Applied Sciences



Program:

Master in Mechatronics Engineering with a minimum study duration of two years and credit hours requirement of (43) hours. There are 24 credit hours of compulsory coursework, 6 credit hours of elective coursework, and 13 credit hours for the thesis.

Conditions for Admission:

1. BSc degree from an accredited university with one of the following areas: Mechatronics, Electrical, Communication, Electronic, Mechanical, Industrial, or Computer Engineering.
 2. A G.P.A. of "good" or above.
 3. Passing national exam or TOFEL exam.
- Students who are not majoring in Mechatronics must take a maximum of three remedial courses

A) Compulsory Courses: 24 Cr.Hrs.

Course No.	Course Title	Cr.Hr.	Learning Method
0640711	Advanced Engineering Math	3	Physical
0640721	Industrial Mechatronics and Robotic Systems	3	blended
0640722	Mechatronics Systems Modeling and Simulation	3	Physical
0640731	Advanced Control Theory	3	Physical
0640732	Advanced Measurement Systems and Sensors	3	Online
0640751	Distributed and Real-Time Embedded Systems	3	blended
0640752	Advanced Programming	3	blended
0640770	Research Methodology	3	blended

B) Thesis: 13 Cr.Hrs.

Course No.	Course Title	Cr.Hr.	Prerequisite	Learning Method
0640775	Double Degree Thesis (1)	10	Passing 30 Cr.Hrs	Physical
0640776	Double Degree Thesis (2)	3	Thesis (1)	Online

C) Elective Courses: 6 Cr.Hrs.

Course No.	Course Title	Cr.Hr.	Tech -Method
0640723	Advanced Topics in Mechatronics	3	blended
0640733	Advanced Process Control	3	
0640734	Intelligent Control Systems	3	
0640741	Advanced Manufacturing Systems	3	
0640742	Advanced Programmable Logic Controller	3	
0640761	Business Planning and Strategic Management	3	

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10-04-2023