

List of Courses

Bachelor of Electrical Engineering-Microelectronics Science and Engineering (2+2, Universitas Mercu Buana-Ningbo University)

No	Group	1 st Semester (UMB)	Credits
1	B	Computer Application	3
2	B	Pancasila (Indonesian Ideology)	2
3	B	Religion	2
4	B	Physics 1	3
5	B	Math 1	3
6	A	Magnitude of Electrical Measurement	3
7	A	Magnitude of Electrical Measurement Lab Work	1
8	A	Electrical Circuit 1	3
9	A	Electrical Circuit Lab Work1	1
Total			21

No	Group	2 nd Semester (UMB)	Credits
1	B	Civics	2
2	B	Indonesian Language	2
3	B	Math 2	3
4	B	Computer Programming 1	3
5	B	Physics 2	3
6	A	Electrical Circuit 2	3
7	A	Basic Electronics	3
8	A	Basic Electronics Lab Work	1
Total			20

No	Group	3 rd Semester (UMB)	Credits
1	B	UMB Ethics	2
2	B	English 1	3
3	A	Electrical Technique Drawing	3
4	A	Linear System	3
5	B	Math 3	3
6	A	Computer Programming 2	3
7	A	Basic Control System	3
8	A	Basic Control System Lab Work	1
Total			21

No	Group	4 th Semester (UMB)	Credits
1	B	Entrepreneurship 1	2
2	B	English 2	3
3	A	Digital Technique	3
4	A	Basic Telecommunication	3
5	A	Basic Telecommunication Lab Work	1
6	B	Math 4	3
7	A	Electromagnetic Field	3
8	A	Basic Electric Energy Conversion	3
9	A	Basic Electric Energy Conversion Lab Work	1
Total			22

No	Code	5 th Semester (NBU)	Credits
1	083P20A	Analog circuits	3
2	083P21A	Analog circuits experiments	2
3	082L80A	Digital circuits	3
4	082L90A	Digital circuit experiments	2
5	082L71A	Principles and Experiments of Femtosecond Laser Micromachining	2
6	083L61A	Technology of Preparation of Films	3
Total			15

No	Code	6 th Semester (NBU)	Credits
1	083L22B	CMOS Digital Integrated Circuits	3
2	083L44B	SCM Technologies and Experiments	3
3	083L42A	Principles of Integrated Circuit Manufacturing Technologies	3
4	082L14A	Semiconductor Experiments	2
5	082L45D	Experiments of Integrated Circuit Processes	1
6	083L38B	Design of IC layout	3
Total			15

No	Code	7 th Semester (NBU)	Credits
1	083L28A	Digital Logics and Verilog Design	3
2	087L34D	Sensor Principles and Experiments	2
3	083L24B	Semiconductor Device CAD	3
4	083L35A	Semiconductor Packaging Technologies	3
Total			11

No	Code	8 th Semester (NBU)	Credits
1	089L01B	Graduate Practice	4
2	089L02B	Thesis	10
Total			14

Total Credits			139
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- Core Subjects (A)
- Basic Undergraduate Courses (B)
- Elective Courses (C)