

# University of Baghdad جامعة بغداد



*First Cycle – Bachelor's Degree (B.Sc.) – Mechanical Engineering*

بكالوريوس - هندسة ميكانيكية



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## 1. Overview

This catalogue is about the courses (modules) given by the program of Mechanical Engineering to gain the Bachelor of Science degree. The program delivers (48) Modules with (6000) total student workload hours and 240 total ECTS. The module delivery is based on the Bologna Process.

نظره عامه

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج الهندسة الكهربائية للحصول على درجة بكالوريوس العلوم . يقدم البرنامج (48) مادة دراسية، على سبيل المثال، مع (٦٠٠٠) إجمالي ساعات حمل الطا لب و ٢٤٠ إجمالي وحدات أوروبية. يعتمد تقديم المواد الدراسية على عملية بولونيا .

## 2. Undergraduate Courses 2023-2024

### Module 1

Code	Course/Module Title	ECTS	Semester
ME 116	Engineering Mechanics-Static	6	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2	90	60
Description			
This section includes a description of the module, 100-150 words			

### Module 2

Code	Course/Module Title	ECTS	Semester
ME 115	Engineering drawing / I	6	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
1	4	75	75
Description			
This section includes a description of the module, 100-150 words			

**Module 3**

Code	Course/Module Title	ECTS	Semester
ME 114	Physics (Electricity and Magnetic)	5	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2	75	50
Description			
This section includes a description of the module, 100-150 words			

**Module 4**

Code	Course/Module Title	ECTS	Semester
ME 113	Mathematics / I	6	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2	90	60
Description			
This section includes a description of the module, 100-150 words			

**. Module 5**

Code	Course/Module Title	ECTS	Semester
ME 112	Programming/I	5	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	3	75	50
Description			
This section includes a description of the module, 100-150 words			

**. Module 6**

Code	Course/Module Title	ECTS	Semester
GE03	English Language/ I	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	30	20
Description			
This section includes a description of the module, 100-150 words			

**. Module 7**

Code	Course/Module Title	ECTS	Semester
ME 126	Engineering Mechanics-Dynamics	6	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2	90	60
Description			
This section includes a description of the module, 100-150 words			

**. Module 8**

Code	Course/Module Title	ECTS	Semester
ME 125	Production engineering	12	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
6	5	165	135
Description			
This section includes a description of the module, 100-150 words			

**Module 9**

Code	Course/Module Title	ECTS	Semester
ME 124	Engineering drawing / II	4	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
1	3	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 10**

Code	Course/Module Title	ECTS	Semester
ME 123	Mathematics / II	4	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	-	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 11**

Code	Course/Module Title	ECTS	Semester
GE02	Democracy and Human Rights	2	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	30	20
Description			
This section includes a description of the module, 100-150 words			

**Module 12**

Code	Course/Module Title	ECTS	Semester
GE01	Arabic Language	2	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	30	20
Description			
This section includes a description of the module, 100-150 words			

**Module 13**

Code	Course/Module Title	ECTS	Semester
ME216	Mechanical Drawing / I	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
-	3	45	80
Description			
This section includes a description of the module, 100-150 words			

**Module 14**

Code	Course/Module Title	ECTS	Semester
ME215	Fluid Mechanics /I	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	75	50
Description			
This section includes a description of the module, 100-150 words			

**Module 15**

Code	Course/Module Title	ECTS	Semester
ME214	Strength of Materials /I	8	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	6	150	50
Description			
This section includes a description of the module, 100-150 words			

**Module 16**

Code	Course/Module Title	ECTS	Semester
ME213	Metallurgy physics/ I	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2	75	50
Description			
This section includes a description of the module, 100-150 words			

**Module 17**

Code	Course/Module Title	ECTS	Semester
ME212	Mathematics / III	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	-	60	65
Description			
This section includes a description of the module, 100-150 words			

**Module 18**

Code	Course/Module Title	ECTS	Semester
GE04	English Language /II	2	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	30	20
Description			
This section includes a description of the module, 100-150 words			

**Module 19**

Code	Course/Module Title	ECTS	Semester
ME226	Thermodynamics	8	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
6	2	120	80
Description			
This section includes a description of the module, 100-150 words			

**Module 20**

Code	Course/Module Title	ECTS	Semester
ME225	Fluid Mechanics /II	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 21**

Code	Course/Module Title	ECTS	Semester
ME214	Programming/ II	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 22**

Code	Course/Module Title	ECTS	Semester
ME223	Metallurgy physics/ II	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 23**

Code	Course/Module Title	ECTS	Semester
ME222	Mechanical Drawing / II	5	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
-	3	45	80
Description			
This section includes a description of the module, 100-150 words			

**Module 24**

Code	Course/Module Title	ECTS	Semester
ME221	Differential Equations	5	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	1	60	65
Description			
This section includes a description of the module, 100-150 words			

**Module 25**

Code	Course/Module Title	ECTS	Semester
ME316	Engineering Analysis	5	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	1	60	65
Description			
This section includes a description of the module, 100-150 words			

**Module 26**

Code	Course/Module Title	ECTS	Semester
ME315	Gas Dynamics	5	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	1	75	50
Description			
This section includes a description of the module, 100-150 words			



**Module 27**

Code	Course/Module Title	ECTS	Semester
ME314	Heat Transfer/ I	4	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	1	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 28**

Code	Course/Module Title	ECTS	Semester
ME313	Theory of Machines	6	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2	105	45
Description			
This section includes a description of the module, 100-150 words			

**Module 29**

Code	Course/Module Title	ECTS	Semester
ME312	Strength of Materials /II	6	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	90	60
Description			
This section includes a description of the module, 100-150 words			

**Module 30**

Code	Course/Module Title	ECTS	Semester
ME311	Electrical Engineering/ II	4	5
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 31**

Code	Course/Module Title	ECTS	Semester
ME326	Turbo Machines	5	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	1	75	50
Description			
This section includes a description of the module, 100-150 words			

**Module 32**

Code	Course/Module Title	ECTS	Semester
ME325	Heat Transfer/ II	4	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	1	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 33**

Code	Course/Module Title	ECTS	Semester
ME324	Principles of Manufacturing Process	7	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2	105	70
Description			
This section includes a description of the module, 100-150 words			

**Module 34**

Code	Course/Module Title	ECTS	Semester
ME323	Vibrations	8	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2	120	80
Description			
This section includes a description of the module, 100-150 words			

**Module 35**

Code	Course/Module Title	ECTS	Semester
ME322	Numerical Analysis	4	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	60	40
Description			
This section includes a description of the module, 100-150 words			

**Module 36**

Code	Course/Module Title	ECTS	Semester
GE05	English Language/ III	2	6
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	30	20
Description			
This section includes a description of the module, 100-150 words			

**Module 37**

Code	Course/Module Title	ECTS	Semester
ME 416	Design of Machine Elements / I	6	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2	93	60
Description			
This section includes a description of the module, 100-150 words			

**Module 38**

Code	Course/Module Title	ECTS	Semester
ME 415	Air Conditioning + Refrigeration	11	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
6	5	165	110
Description			
This section includes a description of the module, 100-150 words			

**Module 39**

Code	Course/Module Title	ECTS	Semester
ME 414	Engineering Materials	6	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2	90	60
Description			
This section includes a description of the module, 100-150 words			

**Module 40**

Code	Course/Module Title	ECTS	Semester
ME 413	elective	2	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	30	20
Description			
This section includes a description of the module, 100-150 words			

**Module 41**

Code	Course/Module Title	ECTS	Semester
ME 412	Engineering Project	3	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
-	3	45	30
Description			
This section includes a description of the module, 100-150 words			

**Module 42**

Code	Course/Module Title	ECTS	Semester
GE06	English Language / IV	2	7
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	30	20
Description			
This section includes a description of the module, 100-150 words			

**Module 43**

Code	Course/Module Title	ECTS	Semester
ME 426	Design of Machine Elements / II	6	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2	90	60
Description			
This section includes a description of the module, 100-150 words			

**Module 44**

Code	Course/Module Title	ECTS	Semester
ME 425	Power Engineering	6	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	2	90	60
Description			
This section includes a description of the module, 100-150 words			

**Module 45**

Code	Course/Module Title	ECTS	Semester
ME 424	Control and Measurements	8	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	5	120	80
Description			
This section includes a description of the module, 100-150 words			

**Module 46**

Code	Course/Module Title	ECTS	Semester
ME 423	Industrial Engineering	5	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2	75	50
Description			
This section includes a description of the module, 100-150 words			

**Module 47**

Code	Course/Module Title	ECTS	Semester
ME 422	Engineering Project	3	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
-	3	45	30
Description			
This section includes a description of the module, 100-150 words			

**Module 48**

Code	Course/Module Title	ECTS	Semester
GE09	Profession Ethics	2	8
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	-	30	20
Description			
This section includes a description of the module, 100-150 words			

**Contact**

Program Manager:

John Smith | Ph.D. in Biology | Assistant Prof.

Email:

Mobile no.:

Program Coordinator:

John Smith | Ph.D. in Biology | Assistant Prof.

Email:

Mobile no.:

