

# University of Mosul

## جامعة الموصل



### College of Science

#### كلية العلوم

*First Cycle – Bachelor's degree (B.Sc.) – Biology*

بكالوريوس علوم - علوم الحياة



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### 1. Overview

This catalogue is about the courses (modules) given by the program of **Biology** 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 **علوم الحياة** للحصول على درجة بكالوريوس العلوم. يقدم البرنامج **(48)** مادة دراسية، على سبيل المثال، مع **(٦٠٠٠)** إجمالي ساعات حمل الطالب 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
Bio-1101	General Zoology	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

#### Module 2

Code	Course/Module Title	ECTS	Semester
Bio-1102	Analytical Chemistry	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

**Module 3**

Code	Course/Module Title	ECTS	Semester
Sci-101	General Mathematics	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 4**

Code	Course/Module Title	ECTS	Semester
Bio-1103	Biophysics	8	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

**Module 5**

Code	Course/Module Title	ECTS	Semester
UOM-104	Human Rights and Democracy	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 6**

Code	Course/Module Title	ECTS	Semester
UOM-101	Arabic Language	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 7**

Code	Course/Module Title	ECTS	Semester
Bio-1204	General Botany	8	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

**Module 8**

Code	Course/Module Title	ECTS	Semester
Bio-1205	Organic Chemistry	8	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/3	108	92
Description			
This section includes a description of the module, 100-150 words			

**Module 9**

Code	Course/Module Title	ECTS	Semester
Bio-1206	Biostatistics	5	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2	63	47
Description			
This section includes a description of the module, 100-150 words			

**Module 10**

Code	Course/Module Title	ECTS	Semester
Bio-1207	Safety and biosecurity	4	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	2/ / /	63	52
Description			
This section includes a description of the module, 100-150 words			

**Module 11**

Code	Course/Module Title	ECTS	Semester
UOM-103	Computer Science	3	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/2/ /	63	12
Description			
This section includes a description of the module, 100-150 words			

**Module 12**

Code	Course/Module Title	ECTS	Semester
UOM-102	English Language	2	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1///	45	5
Description			
This section includes a description of the module, 100-150 words			

**Module 13**

Code	Course/Module Title	ECTS	Semester
Bio-2308	Entomology I	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 14**

Code	Course/Module Title	ECTS	Semester
Bio-2309	Plant Anatomy	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 15**

Code	Course/Module Title	ECTS	Semester
Bio-23010	Invertebrates	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 16**

Code	Course/Module Title	ECTS	Semester
Bio-23011	Biochemistry I	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3 / /	78	47
Description			
This section includes a description of the module, 100-150 words			

**Module 17**

Code	Course/Module Title	ECTS	Semester
Bio-23012	Microbiology I	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3 / /	78	47
Description			
This section includes a description of the module, 100-150 words			

**Module 18**

Code	Course/Module Title	ECTS	Semester
UOM-105	Crimes of the Baath party	2	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	///	33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 19**

Code	Course/Module Title	ECTS	Semester
Bio-24113	Entomology II	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

**Module 20**

Code	Course/Module Title	ECTS	Semester
Bio-24114	Plant Taxonomy	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			



**Module 21**

Code	Course/Module Title	ECTS	Semester
Bio-24115	Parasitology	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

**Module 22**

Code	Course/Module Title	ECTS	Semester
Bio-24116	Biochemistry II	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

**Module 23**

Code	Course/Module Title	ECTS	Semester
Bio-24117	Microbiology II	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/2 / /	63	37
Description			
This section includes a description of the module, 100-150 words			

**Module 24**

Code	Course/Module Title	ECTS	Semester
Bio-24018	Plant Groups	4	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/2 / /	63	37
Description			
This section includes a description of the module, 100-150 words			

**Module 1-25**

Code	Course/Module Title	ECTS	Semester
Bio1-35019	Cell Biology	6	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1- 26**

Code	Course/Module Title	ECTS	Semester
Bio1-35020	Ecology	5	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

**Module 1- 27**

Code	Course/Module Title	ECTS	Semester
Bio1-35021	Biotechnology	5	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

**Module 1-28**

Code	Course/Module Title	ECTS	Semester
Bio1-35022	Mycology I	6	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1- 29**

Code	Course/Module Title	ECTS	Semester
Bio1-35023	Laboratory analysis	6	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1- 30**

Code	Course/Module Title	ECTS	Semester
Bio1-35024	Research Methodology	2	Five/Biology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 1- 31**

Code	Course/Module Title	ECTS	Semester
Bio1-36025	Plant Pathology	6	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

**Module 1- 32**

Code	Course/Module Title	ECTS	Semester
Bio1-36026	Histology	6	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

**Module 1-33**

Code	Course/Module Title	ECTS	Semester
<b>Bio1-36027</b>	Diagnostic parasite	6	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

**Module 1-34**

Code	Course/Module Title	ECTS	Semester
<b>Bio1-36128</b>	Pollution	4	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/2/ /	64	36
Description			
This section includes a description of the module, 100-150 words			

**Module 1- 35**

Code	Course/Module Title	ECTS	Semester
<b>Bio1-36129</b>	Genetics	5	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

**Module 1- 36**

Code	Course/Module Title	ECTS	Semester
<b>Bio1-36030</b>	Allelopathy	3	Six/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/2/ /	63	12
Description			
This section includes a description of the module, 100-150 words			

**Module 2-25**

Code	Course/Module Title	ECTS	Semester
<b>Bio2-35019</b>	Soil Microbiology	5	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

**Module 2- 26**

Code	Course/Module Title	ECTS	Semester
<b>Bio2-35020</b>	Laboratory Analysis	6	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2-27**

Code	Course/Module Title	ECTS	Semester
Bio2-35021	Histology	6	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2-28**

Code	Course/Module Title	ECTS	Semester
Bio2-35022	Ecology	5	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

**Module 2-29**

Code	Course/Module Title	ECTS	Semester
Bio2-35023	Cell Biology	6	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2-30**

Code	Course/Module Title	ECTS	Semester
Bio2-35024	Research Methodology	2	Five/ Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 2- 31**

Code	Course/Module Title	ECTS	Semester
Bio2-36025	Water Microbiology	6	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

**Module 2-32**

Code	Course/Module Title	ECTS	Semester
Bio2-36026	Bacterial Physiology	6	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			



**Module 2- 33**

Code	Course/Module Title	ECTS	Semester
<b>Bio2-36027</b>	Animal Physiology	6	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	72
Description			
This section includes a description of the module, 100-150 words			

**Module 2-34**

Code	Course/Module Title	ECTS	Semester
<b>Bio2-36128</b>	Pollution	4	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/2/ /	64	36
Description			
This section includes a description of the module, 100-150 words			

**Module 2-35**

Code	Course/Module Title	ECTS	Semester
<b>Bio2-36129</b>	Genetics	3	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/2/ /	63	12
Description			
This section includes a description of the module, 100-150 words			

**Module 2-36**

Code	Course/Module Title	ECTS	Semester
Bio2-36030	Antibiotics	5	Six/Microbiology
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	/3/ /	78	47
Description			
This section includes a description of the module, 100-150 words			

**Module 1-37**

Code	Course/Module Title	ECTS	Semester
Bio1-47031	Animal Physiology 1	6	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1-38**

Code	Course/Module Title	ECTS	Semester
Bio1-47032	Plant Physiology 1	6	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1-39**

Code	Course/Module Title	ECTS	Semester
Bio1-47033	Embryology	6	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1-40**

Code	Course/Module Title	ECTS	Semester
Bio1-47034	Quantitative Genetics	6	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1-41**

Code	Course/Module Title	ECTS	Semester
Bio1-47035	Molecular biology	4	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

**Module 1-42**

Code	Course/Module Title	ECTS	Semester
Bio1-47036	Research Project	2	Seven/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 1-43**

Code	Course/Module Title	ECTS	Semester
Bio1-48137	Animal Physiology 2	6	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1-44**

Code	Course/Module Title	ECTS	Semester
Bio1-48138	Plant Physiology 2	6	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1-45**

Code	Course/Module Title	ECTS	Semester
Bio1-48039	Comparative Anatomy	6	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module1- 46**

Code	Course/Module Title	ECTS	Semester
Bio1-48040	Biodiversity	6	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 1-47**

Code	Course/Module Title	ECTS	Semester
Bio1-48041	Immunology	4	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

**Module 1-48**

Code	Course/Module Title	ECTS	Semester
Bio1-48142	Research Project	2	Eight/BIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 2-37**

Code	Course/Module Title	ECTS	Semester
Bio2-47031	Immunology	6	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2-38**

Code	Course/Module Title	ECTS	Semester
Bio2-47032	pathogenic Bacteriology	6	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2-39**

Code	Course/Module Title	ECTS	Semester
Bio2-47033	Food Microbiology	6	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2-40**

Code	Course/Module Title	ECTS	Semester
Bio2-47034	Mycology	6	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2-41**

Code	Course/Module Title	ECTS	Semester
Bio2-47035	Enzymology	4	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

**Module 2-42**

Code	Course/Module Title	ECTS	Semester
Bio2-47036	Research Project	2	Seven/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

**Module 2- 43**

Code	Course/Module Title	ECTS	Semester
Bio2-48037	Microbial Genetics	6	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2-44**

Code	Course/Module Title	ECTS	Semester
Bio2-48038	Virology	6	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			



**Module 2- 45**

Code	Course/Module Title	ECTS	Semester
Bio2-48139	Industrial Microbiology	6	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2- 46**

Code	Course/Module Title	ECTS	Semester
Bio2-48140	Fungal Taxonomy	6	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	79	71
Description			
This section includes a description of the module, 100-150 words			

**Module 2- 47**

Code	Course/Module Title	ECTS	Semester
Bio2-48041	Molecular biology	4	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	1/3/ /	78	22
Description			
This section includes a description of the module, 100-150 words			

**Module 2-48**

Code	Course/Module Title	ECTS	Semester
Bio2-48142	Research Project	2	Eight/ MICROBIOLOGY
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

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