

BCH422: BIOSYNTHESIS OF MACROMOLECULES COURSE
LECTURER(S): Dr. (Mrs.) O.B. IBITOYE AND Mr. A. BALOGUN



جامعة الحكمة، إلورن-نيجيريا

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FACULTY OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF BIOLOGICAL SCIENCES
B.Sc. BIOCHEMISTRY PROGRAMME
2019/2020 ACADEMIC SESSION
B. Sc. BIOCHEMISTRY PROGRAMME
COURSE OUTLINE FOR

COURSE CODE: BCH 422

COURSE TITLE: BIOSYNTHESIS OF MACROMOLECULES

CREDIT UNIT: 2

12 LECTURE PERIODS: Wednesdays, 11 am – 1 pm

STUDENTS SHOULD NOTE THAT AFTER EVERY TOPIC THERE SHALL BE A SHORT CONTINUOUS ASSESSMENT TEST ON GOOGLE CLASSROOM PLATFORM

LECTURE PERIOD	DATE	TOPIC	COURSE LECTURER
1	26th February, 2020	Structure and functions of Homopolysaccharides <ul style="list-style-type: none">➤ Starch➤ Glycogen➤ Cellulose➤ Chitin and others	Mr. A. Balogun
2	4th March, 2020	Structure and functions of Heteropolysaccharides <ul style="list-style-type: none">➤ Glycosaminoglycan➤ Glycoproteins➤ Proteoglycans	Mr. A. Balogun
3	11th March, 2020	Structure and functions of Sphingolipids <ul style="list-style-type: none">➤ Phosphosphingosides (Sphingomyelins)➤ Glycolipids (Cerebrosides or Glycosphingosides)➤ Gangliosides	Mr. A. Balogun
4	18th March, 2020	Synthesis and degradation of Homopolysaccharide <ul style="list-style-type: none">➤ Storage Polysaccharide➤ Structural Polysaccharides	Mr. A. Balogun
5	25th March, 2020	Synthesis and degradation of Heteropolysaccharide <ul style="list-style-type: none">➤ Glycosaminoglycan➤ Glycoproteins➤ Proteoglycans	Mr. A. Balogun
6	1st April, 2020	Synthesis and degradation of Sphingolipids <ul style="list-style-type: none">➤ Phosphosphingosides (Sphingomyelins)➤ Glycolipids (Cerebrosides or Glycosphingosides)➤ Gangliosides	Mr. A. Balogun

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7	8th April, 2020	Bacterial cell wall <ul style="list-style-type: none">➤ Composition of Bacterial Cell wall➤ Structure and Function of Peptidoglycans in Bacterial Cell wall➤ Biosynthesis of Peptidoglycan	Dr. Ibitoye, O. B.
8	15th April, 2020	Synthesis of complex lipids <ul style="list-style-type: none">➤ Phospholipids➤ Glycolipids➤ Lipoproteins	Dr. Ibitoye, O. B.
9	22nd April, 2020	Synthesis of complex lipids <ul style="list-style-type: none">➤ Phospholipids➤ Glycolipids➤ Lipoproteins	Dr. Ibitoye, O. B.
10	29th April, 2020	Synthesis of Carbohydrate-derived Compounds <ul style="list-style-type: none">➤ Antibiotics➤ Dextrans.➤ Ascorbic acids	Dr. Ibitoye, O. B.
11	6th May, 2020	Synthesis of Carbohydrate-derived Compounds <ul style="list-style-type: none">➤ Antibiotics➤ Dextrans.➤ Ascorbic acids	Dr. Ibitoye, O. B.
12	13th May, 2020	Final C.A	
13	20th May, 2020	Revision	
14	27th May, 2020		