

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)

ಮಂಗಳೂರು- 575 003, ಕರ್ನಾಟಕ

www.stalloysius.edu.in



ST ALOYSIUS COLLEGE (AUTONOMOUS)

P.B. NO. 720, MANGALURU - 575 003, KARNATAKA, INDIA

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Re-accredited by NAAC with 'A' Grade with CGPA 3.62/4
Ranked 95 in College Category - 2021 under NIRF, Ministry of Education, Government of India
Recognised as Centre for Research Capacity Building under UGC-STRIDE Scheme
Recognized under DBT - BUILDER Scheme, Government of India
College with "STAR STATUS" Conferred by DBT, Government of India
Recognised by UGC as "College with Potential for Excellence"

DEPARTMENT OF BIOCHEMISTRY (UG)

MINUTES OF THE MEETING

A meeting of the Board of Study in **BIOCHEMISTRY (UG)** was held on 13-11-2021 at 9.30 am in Conference Room Aruppe block 408 to discuss the following agenda:

1. Revision and implementation of NEP syllabus for **B.Sc Honors in Biochemistry** from 2021 onwards.
2. Evaluation of Practical Syllabus.
3. Incorporation of additional Practical experiments.
4. Discussion of Question paper pattern for Formative and Summative Assessment
5. To transact any other matter with the permission of the chairperson.

Members present:

External Members:

1. **Vice Chancellor nominee - Dr Sarojini B.K**, Professor and Chairperson, M.Sc Industrial Chemistry, Mangalore University, Mangalagangothri, Konaje- 574199
2. **Subject Experts - Dr Cletus D' Souza**, Adjunct Professor, Department of PG studies and Research in Biochemistry, St Aloysius College (Autonomous), Mangalore- 575003
3. **Ms. Usha B Rao**, HOD, Biochemistry, Alva's College, Moodibidri-Karnataka.
4. **Representative from industry-Praveen M.K**, Assistant Manager, Mol Bio Diagnostics private Ltd., Goa.
5. **Student representative-** Saumia Thomas Kampadukad , Reg no 192852.

The meeting began with a silent prayer and welcome address delivered by Ms Shameena.K.A, HOD of the Department.

Agenda 1: Revision and implementation of NEP syllabus for **B.Sc Honors in Biochemistry** from 2021 onwards.

Discussion/Suggestions: As per the directives given by the State Government to implement the NEP Syllabus for the year 2021 onwards, the BOS members were of the opinion that few incorporations could be made to the existing syllabus of First year.

Resolution: The following changes were introduced into the existing syllabus.

SEMESTER	NEP SYLLABUS UNDER MANGALORE UNIVERSITY	CHANGES MADE	REASON
I COURSE TITLE : CHEMICAL FOUNDATION OF BIOCHEMISTRY -1	Unit 1:- Origin of life, types of organisms.	Removed Addition of What is Biochemistry, brief historical overview, future and scope of Biochemistry, its applications	This is not connected with the rest of the syllabus and it's not related to the topics covered in this unit.
	Unit 3:- Phase diagram of water	Removed Addition of isotonic, hypo and hypertonic solution and its effects on blood cells. Donnan membrane equilibrium	We have emphasized on the biological aspects of water and its interaction with its cells.
	Unit 4:- Biological active forms; NAD ⁺ /NADH, NADP ⁺ /NADPH, FAD/FADH ₂ , FMN/FMNH ₂	Removed	It will be taught under enzyme catalysis in subsequent semesters.

II COURSE TITLE : CHEMICAL FOUNDATION OF BIOCHEMISTRY -2	Unit 2:- Nomenclature of organic compounds	Addition of mutarotation	It is required to understand the properties of sugars

Action taken: Changes have been approved by the BOS members.

Agenda 2 and 3: Evaluation and incorporation of additional Practical experiments.

Discussion/Suggestions: The BOS members suggested that the experiments in practical papers should be in accordance with the theory papers.

Resolution: Practicals have been oriented with the theory papers.

SEMESTER	NEP SYLLABUS UNDER MANGALORE UNIVERSITY	CHANGES MADE	REASON
I COURSE TITLE : VOLUMETRIC ANALYSIS - PRACTICALS-1		Additional Practicals 1. Preparation of Isotonic, hypotonic & hypertonic solution. 2. Effect of Isotonic, Hypotonic & hypertonic solutions on RBC. 3. Dialysis & Reverse Dialysis	Practical papers should be in accordance with the theory papers.
II COURSE TITLE : QUALITATIVE AND QUANTITATIVE ANALYSIS - PRACTICALS - 2		Additional Practicals 1. Salting in and salting out of milk. 2. Lab safety measures	Practical papers should be in accordance with the theory papers.

Action Taken: BOS members have approved the same.

Agenda 4: Discussion of Question paper pattern for Formative and Summative Assessment.

Discussion: BOS members expressed their views that with the existing NEP Question paper pattern students can perform better.

Resolution: BOS members adhered to the question pattern proposed by the NEP revised syllabus of Mangalore University.

Action Taken: BOS members have approved the same.

Agenda 5: To transact any other matter with the permission of the chairperson.

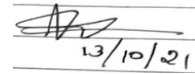
Discussion: BOS members deliberated on student strength opting for Biochemistry major under the NEP curriculum and a discussion was initiated as to why only 30 students opted for Biochemistry as major? The chairperson responded that it was policy of the management.

Signature of the expert's and members present:

1. Prof B Sarojini BK



5. Ms Valina D'Almeida

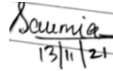


13/10/21

2. Prof. Cletus D' Souza



6. Saumia K




13/11/21

3. Ms. Usha B Rao

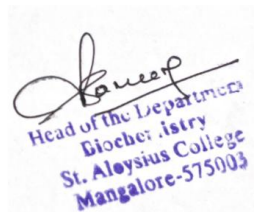


4. Dr. Praveen M K



Date: 13.11.2021

Signature and seal of the Head of the Department



Head of the Department
Biochemistry
St. Aloysius College
Mangalore-575003

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DEPARTMENT OF BIOCHEMISTRY (UG)

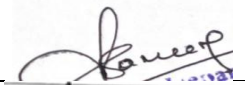

MINUTES OF THE MEETING

A meeting of the Board of Study in **BIOCHEMISTRY (UG)** was held on 24-06-2022 at 2 pm in Conference Room Aruppe block 408 to discuss the following agenda:

1. Revision and implementation of NEP syllabus for the year 2022-23
2. Discussion on the NEP syllabus scheme of third and fourth semester
3. To discuss about student performance and results
4. To transact any other matter with the permission of the chairperson

Members present:

	Name	Category	Address	Signature
External members				
1.	Prof Cletus D' Souza	Subject expert	Adjunct Professor, Department of PG studies and Research in Biochemistry, St Aloysius College (Autonomous)	
2.	Dr Usha Rao	Subject expert	HOD, Biochemistry ALVAS COLLEGE Moodibidri	
3.	Dr Praveen K	Representative from industry	Assistant Manager Mol Bio Diagnostics Pvt Ltd., Unnamed Road, Verna Industrial Estate, Verna, Goa 403722	Online mode
4.	Saumia Thomas Kampadukad	Student Representative	Reg no 192852	

Internal members				
5.	Ms Shameena.K.A.		Chairperson	
6.	Ms Valina D Almeida			

The meeting began with a silent prayer and welcome address delivered by Ms Shameena.K.A, HOD of the Department. This meeting was conducted in continuation of the previous meeting held on 13-9-2021

Agenda 1: Revision and implementation of NEP syllabus for the year 2022-23

Discussion/Suggestions:, The BOS members were of the opinion that few incorporations could be made to the existing syllabus of second year.

Resolution: The following changes were introduced into the existing syllabus.

SEMESTER	NEP SYLLABUS UNDER MANGALORE UNIVERSITY	CHANGES MADE	REASON
III COURSE TITLE : BIO-ORGANIC CHEMISTRY	Unit 1:- REACTION MECHANISMS AND HYDROCARBONS	Rearranged amines from unit 1 to unit 2 Removed mesomeric, inductive effect and Hydrocarbons	This was not connected with other units
	Unit 2:-	Removed Elimination reactions Added biology based reactions to understand substitution reaction	We have emphasized on the biological aspects of metabolic reaction

	Unit 3:-	Rearranged the topics according to units and added Food Adulteration in Unit 4	Practical's are now in accordance with the theory aspects
IV <u>COURSE TITLE :</u> Analytical Biochemistry	Units 1-4	Rearranged the topics	Units are connected according to the topics given

Action taken: Changes have been approved by the BOS members.

Agenda 2 and 3: Evaluation and incorporation of additional Practical experiments.

Discussion/Suggestions: The BOS members suggested that the experiments in practical papers should be in accordance with the theory papers.

Resolution: Practicals have been oriented with the theory papers.

SEMESTER	NEP SYLLABUS UNDER MANGALORE UNIVERSITY	CHANGES MADE	REASON
III <u>COURSE TITLE :</u> Bioorganic Chemistry		Additional Practicals 1. Estimation of Cholesterol by Zak's method. 2. Estimation of Vitamin C by titration method/ colorimetric method 3. Estimation of Flavones by colorimetric method 4. Estimation of Vitamin E 5. Qualitative analysis of food adulterants 6. Estimation of Phenolics	Practical papers should be in accordance with the theory papers.
IV <u>COURSE TITLE :</u> Analytical Biochemistry		Removed Gel filtration Chromatography	As there are many more experiments to be performed

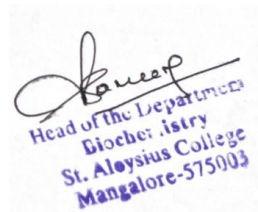
Action Taken: BOS members have approved the same.

Agenda 4: To transact any other matter with the permission of the chairperson.

Discussion: BOS members deliberated on student strength opting for Biochemistry major under the NEP curriculum and a discussion was initiated as to why only 30 students opted for Biochemistry as major? The chairperson responded that it was policy of the management.

Date: 24.06.2022

Signature and seal of the Head of the Department



Handwritten signature: K. Anoop
Head of the Department
Biochemistry
St. Aloysius College
Mangalore-575003