



KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE – 638 107

Department of Biochemistry



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(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
Nanjanapuram, Erode – 638 107.



DEPARTMENT OF BIOCHEMISTRY

BOARD OF STUDIES MEETING

AGENDA

DATE: 24.02.2018

1. To consider and approve the syllabi for the students admitted during the academic year 2016-2017, 2017-2018 and 2018-2019 onwards.
2. To consider and approve the Syllabi for Non Major Electives for III and IV Semesters for UG students admitted during the year 2017-18 and onwards
2. To consider and approve the Panel of Examiners.
3. To consider and discuss any other subjects with the permission of the chair.



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Affiliated to Bharathiar University, Coimbatore
Approved by UGC, AICTE, New Delhi & Re accredited by NAAC
(AN ISO 9001: 2015 Certified Institution)
Nanjanapuram, Erode – 638 107



The meeting of the Board of Studies in **BIOCHEMISTRY** UG/PG was conducted on
24.02.2018 at 10.15 a.m.in the College Campus.


The following members were present:

Chairman : Dr.A.K.Vidya

Members :

1. Ms. T. Radha (Senior Staff Member)
2. Dr. N. Sangeetha (Senior Staff Member)
3. Dr. S. Suja (Subject Expert)
4. Dr. J. Poongothai (Subject Expert)
5. Dr. T. Palvannan (University Nominee)
6. Dr. M. Saravanakumar (Industrial Expert)
7. Dr. P. Govindaraj (Alumni Representative)




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Subject related to CBCS, Outcome based Syllabus, Advanced Learners Course, Extra credits and Non Major Electives were discussed and the following are the resolutions:

1. It is resolved to approve the scheme of examination and new Syllabi of III & IV Semesters for the B.Sc Biochemistry students admitted during the year 2017– 2018 and onwards. **(Annexure a & b)**
2. There is no change in the Syllabi of I and II Semesters for the B.Sc Biochemistry students admitted during the year 2018 – 2019 and onwards.
3. There is no change in the Syllabi of V and VI Semesters for the B.Sc Biochemistry students admitted during the year 2016 – 2017 and onwards.
4. It is resolved to approve the Syllabi and Extra Credits for the Advanced Learners for the IV Semester for UG students and III Semester for PG students who have been admitted during the academic year 2017 – 2018 and onwards. **(Annexure a & b)**
5. It is resolved to approve the Syllabi for Non Major Electives (Inter Department Course) for III and IV Semesters for UG students admitted during the year 2017-18 and onwards.
6. It is resolved to approve Extra credit for the students admitted in the year 2018-19, who have completed NPTEL Course / Typewriting exam conducted by Technical Board/CPT/ACS Foundation/Any skill based courses offered by the Nationally Recognized Institutions.
7. It is resolved to approve the Question Paper Pattern for Non Major Elective course for the students admitted during the year 2017-18 and onwards. **(Annexure –I)**
8. It is resolved to approve the additional name for Panel of Members for Question Paper Setting and Central Valuation. **(Annexure –II)**



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Details of modifications in the Courses offered under the Programme

B.Sc Biochemistry

The following modifications are adopted in the curriculum and syllabi of III and IV Semesters for the B.Sc Biochemistry students admitted from the 2017-2018 batch onwards based on the feedback obtained from Stakeholders and recommendations of the BOS Panel members.

The following Non-Major Elective courses are introduced in to the curriculum for the **B.Sc Computer Science** students admitted from 2017-2018 batch onwards

- Non Major Elective I – Public Health and Hygiene
- Non Major Elective II – Nutrition and Diet Therapy

M.Sc Biochemistry

The following modifications are incorporated in the syllabi of **M.Sc Biochemistry** students admitted from 2017-2018 batch onwards

- Core Paper X – Biostatistics was renamed as Research Methodology and Biostatistics
- The Advanced learner course was introduced – Bioethics and Intellectual Property Rights instead of Research Methodology, Ethical Issues and IPR

Topic wise modifications in the courses are given in the **Annexure-b**



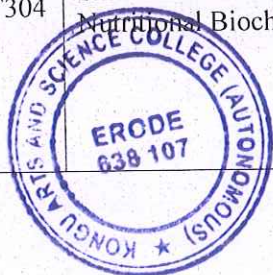
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Annexure - b

Details of modifications with specific topics in the Syllabus with % revision

B.Sc Biochemistry

S. No	Course Code	Name of the Course	New Content Introduced	Topics Removed	% of Revision
1	17UAPCT301	Enzyme and Enzyme Technology	NIL	<ul style="list-style-type: none"> Continuous Flow Stirred Tank Reactors (CSTR) Design of Enzyme Electrodes & their applications as Biosensors in industry, healthcare & environment 	10 %
2	17UAPCT302	Microbiology	NIL	<ul style="list-style-type: none"> Bergey's Manual of Systematic bacteriology, Classification of fungi & protozoa Basis of Virus classification Phages: Assembly of protein Exotoxins and endotoxins Cholera, Bacillary dysentery Mucomycosis Staphylococcal, Jaundice, Mycotoxicosis Microbes in water, Soil Microbiology Applications of microbial enzymes in industry 	25 %
3	17UAPAT303	Allied III: Mathematics	<ul style="list-style-type: none"> Unit 3 -New (Statistics)topics introduced 	<ul style="list-style-type: none"> Trigonometry 	20 %
4	17UAPST304	Skill Based Course I - Nutritional Biochemistry	<ul style="list-style-type: none"> Disease related to Nutrition: Protein Malnutrition, Obesity, Starvation Naturally occurring antioxidants: Walnuts, Broccoli, Tomatoes Naturally occurring Antinutrients & Nutrient Loss 	<ul style="list-style-type: none"> Genetically modified foods 	20 %




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5	17UAPNT305	NME 1: Public Health and Hygiene	<ul style="list-style-type: none"> Newly Introduced in Curriculum from this Academic Year 	<ul style="list-style-type: none"> Yoga for Human Excellence – course removed 	100 %
6	17UAPCT401	Intermediary Metabolism	NIL	<ul style="list-style-type: none"> Biosynthesis of Unsaturated Fatty acids – Mono & Poly 	3 %
7	17UAPCP402	Core Biochemistry Practicals - II	<ul style="list-style-type: none"> Estimation of DNA from Diphenylamine method Estimation of Calcium in milk Isolation of lecithin from egg yolk 	<ul style="list-style-type: none"> Estimation of Ascorbic acid by Dye Method 	20 %
8	17UAPAP404	Allied Practicals II: Computer and Information Technology LAB	NIL	<ul style="list-style-type: none"> Move, Copy, Insert operations in rows & columns Using mathematical function in MS Excel Finding, Sorting & displaying the data in MS-Access data base Macros 	10 %
9	17UAPST405	Skill Based II - Nanotechnology and Clinical Trials	<ul style="list-style-type: none"> Ball Milling 	<ul style="list-style-type: none"> UV-Visible Spectrophotometry FTIR EDX 	5 %
10	17UAPNT406	NME 2: Nutrition and Diet Therapy	<ul style="list-style-type: none"> Newly Introduced in Curriculum from this Academic Year 	<ul style="list-style-type: none"> General Awareness – course removed 	100 %

In overall, there had been a 7.63 % of revision in the Syllabus of B.Sc Biochemistry Programme

M.Sc Biochemistry

S. No	Course Code	Name of the Course	New Content Introduced	• Topics Removed	% of Revision
1	17PBFCT301	Core Paper X - Research Methodology and Biostatistics	<ul style="list-style-type: none"> Course name changed from Biostatistics Unit 1 & 2 - Completely new SPSS Packages 	<ul style="list-style-type: none"> Unit-3 Removed (Prabability) 	50 % (New Course)
2	17PBFCT302	Core Paper XI - Metabolism and Metabolic Regulation	NIL	<ul style="list-style-type: none"> Analysis of metabolic control and structure metabolic networks 	2 %



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3	17PBFCT303	Core Paper XII - Advanced Clinical Biochemistry	<ul style="list-style-type: none"> • Thyroid function test 	<ul style="list-style-type: none"> • Coagulation test • Prothrombin Test • Principles of Diagnostic enzymology - Factors affecting enzyme levels in blood • Principles of peritoneal dialysis and hemodialysis 	20 %
4	17PBFCT304	Core Paper XIII - Genetic Engineering	<ul style="list-style-type: none"> • Primer designing for PCR • Dot blot hybridization • PCR in genomic analysis and diagnostic application • Fusion protein as biopharmaceutical - Erythropoietin • Transgenic science in plant improvement & animal improvement 	<ul style="list-style-type: none"> • Fusion protein - Growth hormone • DNA sequencing • Production of transgenic animals • Application of Transgenic animals as models in prevention of human diseases - transgenic mice 	40%
5	17PBFCT305	Core Paper XIV - Pharmaceutical Biochemistry	<ul style="list-style-type: none"> • Unit-4 completely new - Drugs acting on kidneys • Paracetamol 	<ul style="list-style-type: none"> • Antiviral drugs - Oseltamivir, Brincidofovir, Ribovirin • Cocaine, Marijuana • CNS Depressants • Drugs used in neurodegenerative diseases - mechanism of neurodegeneration • Schizophrenia & Amyotrophic Lateral Sclerosis 	40 %
6	17PBFCT306	Core Biochemistry Practical-III	<ul style="list-style-type: none"> • (Unit I-V) introduced 	-	100 %
7	17PBFET307	Elective III - Biochemical and Environmental Toxicology	<ul style="list-style-type: none"> • Metal poisoning - Fluoride 	<ul style="list-style-type: none"> • Immunotoxicity - Allergic contact dermatitis 	2 %
8	17PBFAL311	ALC 2 - Bioethics and Intellectual Property Rights	<ul style="list-style-type: none"> • New course (Unit I-V) introduced 	<ul style="list-style-type: none"> • Research Methodology, Ethical Issues and IPR - Course Removed 	100 %

In overall, there had been a **11.06 %** of revision in the Syllabus of M.Sc Biochemistry Programme



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All the above resolutions are approved.

1. A. D. D. Jay
24/2/18

2. Radhyc
24/2/18

3. N. Gay
24/2/18

4. S. S.
24/2/18

5. J. Banjett
24/2/18

6. Dalwanan
24/2/18

7. M. S.
24/2/18

8. P. Leel
24/2/18



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