



KONGU ARTS AND SCIENCE COLLEGE

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

ERODE – 638 107

Department of Biochemistry



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Nanjanapuram, Erode – 638 107.



DEPARTMENT OF BIOCHEMISTRY


BOARD OF STUDIES MEETING

AGENDA

DATE: 15.07.2020

1. To consider and approve the Curriculum and Syllabi for candidate admitted during the academic year 2020-2021 and onwards.
2. To consider and approve the pattern of question papers for the academic year 2020 – 2021 and onwards.
4. To consider and approve the Panel of Examiners.
5. To consider and discuss any other subjects with the permission of the chair.




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PRINCIPAL,
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The meeting of the Board of Studies in Biochemistry (UG & PG) was conducted on 15.07.2020 at 10.10 a.m. through Online.


The following members were present:

Chairman : Dr.A.K.Vidya

Members :

- 1.Mr.R.Rasu
- 2.Dr.N.Sangeetha
- 3.Dr.T.Palvannan
- 4.Dr.M.Saravanakumar
- 5.Dr.S.Suja
- 6.Dr.S. Sudarshan
- 7.Mr.S.Natarajan
- 8.Ms.T.Radha
- 9.Mr.G.Karthikeyan





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Subject related to CBCS, Outcome based Syllabus, Advanced Learners Course and Attendance Marks in CIA were discussed and the following are the resolutions:

1. It is resolved to approve there is no change in the syllabi of I and II Semesters for B.Sc. Biochemistry students admitted during the academic year 2020-2021 and onwards be approved.
2. It is resolved to approve there is no change in the syllabi of I and II Semesters for M.Sc. Biochemistry students admitted during the academic year 2020-2021 and onwards be approved.
3. It is resolved to approve there is no change in the syllabi of III and IV Semesters for M.Sc. Biochemistry students admitted during the academic year 2019-2020 and onwards be approved.
4. It is resolved to approve there is no change in the syllabi of IV & V Semester Advanced Learners Course for B.Sc. Biochemistry students admitted during the year 2019-2020 & 2018-2019 and onwards be approved.
5. It is resolved to approve there is no change in the syllabi of III Semester Advanced Learners Course for M.Sc. Biochemistry students admitted during the year 2019-2020 and onwards be approved.
6. It is resolved to approve there is no change in the syllabi of III and IV Semesters Non- major Elective Courses for other UG students admitted during the academic year 2019- 2020 and onwards be approved.
7. It is resolved to approve there is a modification in the syllabi of III & IV Semesters for B.Sc. Biochemistry students admitted during the year 2019-2020 and onwards be approved. **(Annexure a & b)**
8. It is resolved to approve there is a modification in the syllabi of V and VI Semesters for B.Sc. Biochemistry students admitted during the academic year 2018-2019 and onwards be approved. **(Annexure a & b)**
9. It is resolved to approve the Additional name for the panel of Question Paper Setters and Examiners be approved.




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Details of modifications in the Courses offered under the Programme

B.Sc Biochemistry

There is a modification in the syllabi of III and IV Semesters & V and VI Semesters for the B.Sc Biochemistry students admitted from the 2019-2020 batch onwards & 2018-2019 batch onwards based on the feedback obtained from Stakeholders and recommendations of the BOS Panel members.

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



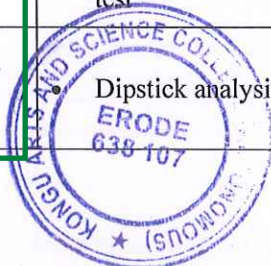

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Details of modifications with specific topics in the Syllabus with % revision

B.Sc Biochemistry

II B.Sc Biochemistry					
S. No	Course Code	Name of the Course	New Content Introduced	Topics Removed	% of Revision
1	19UAPCT302	Microbiology	<ul style="list-style-type: none"> • Sterilization • DNA Virus • RNA Virus 	<ul style="list-style-type: none"> • Retrovirus & Life Cycle – HIV • Types of Oncogenic Viruses & Mechanism of oncogenesis 	25 %
2	19UAPST304	Skill Based Course I - Nutritional Biochemistry	<ul style="list-style-type: none"> • Nutrigenetics & Nutrigenomics • Covid Disease 	NIL	5 %
3	19UAPCP402	Core Biochemistry Practicals - II	<ul style="list-style-type: none"> • Media Preparation • Sterilization techniques • Serial dilution • Pure culture techniques • Staining Techniques • Enzyme Kinetic Studies - Amylase & Catalase (from core Practicals 4) • Estimation of Nutritional content in food samples by Calorimeter & Titrimetric method 	<ul style="list-style-type: none"> • Estimation of Glucose by OT Method • Estimation of Phosphorous by FS Method • Estimation of Urea by DAM-TSC Method • Estimation of Uric acid by Carraways's Method • Estimation of Protein by Bradford Method • Estimation of RNA by Orcinol Method • Estimation of Creatinine by AP Method • Estimation of DNA by Diphenylamine Method • Estimation of Chloride – Vanslyke's Method • Column Chromatography • Paper Electrophoresis 	90 %
4	19UAPST405	Skill Based II - Nanotechnology and Clinical Trials	<ul style="list-style-type: none"> • FESEM • FETEM 	<ul style="list-style-type: none"> • Nanoparticle synthesis from Bacteria and Fungi 	5 %

III B.Sc Biochemistry					
S. No	Course Code	Name of the Course	New Content Introduced	Topics Removed	% of Revision
1	20UAPCT501	Human Physiology and Endocrinology	<ul style="list-style-type: none"> • Stress Physiology: Definition, factors, Indicators 	NIL	6 %
2	20UAPCT502	Clinical Biochemistry	<ul style="list-style-type: none"> • Reye's Syndrome • Intestinal Function test 	<ul style="list-style-type: none"> • Lipidosis • LCAT Deficiency 	10 %
3	20UAPCP504	Core Biochemistry Practicals - III	<ul style="list-style-type: none"> • Dipstick analysis 	<ul style="list-style-type: none"> • Qualitative analysis of normal and abnormal urine constituents 	10 %




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4	20UAPET506	Elective I: Plant and Animal Biotechnology	<ul style="list-style-type: none"> Ethical Issues - ELSI of Biotechnology - Patenting 	<ul style="list-style-type: none"> Cell transformation: Mass Cultivation of cells – Scale up in monolayer & Suspension culture 	10 %
5	20UAPST508	Skill Based: Medical Coding	<ul style="list-style-type: none"> Unit 1 & 2 – Terminologies of Hematology, Cardiology, Gastroenterology, Pulmonology, Neurology, Ophthalmology, Musculoskeletal system, Urology, Nephrology, Gynecology and Obstetrics 	<ul style="list-style-type: none"> UNIT 1 – Anatomy & Physiology UNIT 2 – Medical Terminology 	40 %
6	20UAPCT601	Medicinal Biochemistry	<ul style="list-style-type: none"> Drug discovery - Ligand based & computer based designing Applications of Computational biology and AI in Drug discovery 	<ul style="list-style-type: none"> Method of extraction, isolation, separation, identification, analysis & applications of bioactive components 	40 %
7	20UAPCT602	Plant Biochemistry and Plant Therapeutics	<ul style="list-style-type: none"> Role of Secondary metabolites in pathogens, insects, animals and mankind 	NIL	5 %
8	20UAPCT603	Immunology and Immunotechniques	NIL	<ul style="list-style-type: none"> Hybridoma technology 	1 %
9	20UAPCP604	Core Biochemistry Practicals - IV	<ul style="list-style-type: none"> Physiology Experiments Immunotechniques Qualitative analysis of Phytochemicals Total antioxidant Activities of medicinal plants Molecular Biology experiments 	<ul style="list-style-type: none"> Media Preparation Sterilization techniques Serial dilution Pure culture techniques Staining Techniques Enzyme Kinetic Studies - Catalase Biochemical identification of Bacteria - IMPiC 	90 %
10	20UAPEP605	Elective II: Bioinformatics Practicals	NIL	<ul style="list-style-type: none"> Data retrieval tools & methods 	1 %

In overall, there had been a 8.24 % of revision in the Syllabus of B.Sc Biochemistry Programme




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All the above resolutions are approved

1. Dr.A.K.Vidya

A.K. Vidya

2. Mr.R.Rasu

R. Rasu

3. Dr.N.Sangeetha

N. Sangeetha

4. Dr.T.Palvannan

5. Dr.M.Saravanakumar

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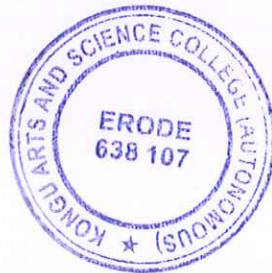
S. Natarajan

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