

Kongunadu Arts and Science College (Autonomous)
Coimbatore 641029

Department of Biotechnology (UG)

Minutes of the Board of Studies:

The Board of Studies meeting was held on 29.02.2020 The Chairman welcomed and outlined the changes to be made in the following for the board approval.

Item 1. To consider change in the Curriculum, Scheme of Examination and Syllabi of UG/PG/ Certificate / Diploma courses and approval.

Item 2. To suggest the panel of names for appointment of examiners.

Item 3. Other academic activities in the department.

As per the suggestions and recommendations given by the Stakeholders on the above items discussed, the existing/revised the Scheme of Curriculum / Scheme of Examination / Syllabi and Panel of Examiners are to be followed is annexed herewith for the implementation from the commencement of the Academic year 2020 – 2021.

The members after careful scrutiny of the changes to be made, unanimously accorded approval for the proposed changes/modifications. They also resolved to authorize the Chairman of Board of Studies to place the changes/modifications now approved by the BOS before the Standing Committee on Academic affairs and Academic Council.

Sem.	Course code	Name of the Course	Changes made
I	20UBT1CL	C. Pr. 1 – Lab in Cellular Biology and Bioinstrumentation	Calculation of Molarity, Molality, Normality, PPM(mg/l), Percentation shifted
II	20UBT203	C. P. 3 – Microbiology	Structure and Ultra structure a of Prokaryotes included and functions of cells removed in 1 st Unit In 5 th unit SARS, EBOLA virus included. In Unit 3, Folding topic removed
II	20UBT304	C.P. 4 - Molecular Biology	Syllabus updated

III	20UBT305	C. P. 5 – Genetics	Syllabus contents were reframed and new topics were included
III	20UBT3CN	C. Pr. 3: Lab in Molecular biology and Genetics	Problem Solving in Mendelian Ratios, Problem solving in Non-mendelian Ratios (Cytoplasmic Inheritance in <i>Mirabilis jalapa</i>) Karyotyping and Chromosomal aberrations techniques included
IV	20UBT406	C.P.6 – Biochemistry	Title changed as Fundamentals of Biochemistry
V	20UBT509	C. P. 9 : Animal Biotechnology	Introduction to Chick embryos introduced instead of fate map of amphibians in 1 st unit. Units rearranged.
V	20UBT508	C.P.8- Recombinant DNA Technology	Minor changes
VI	20UBT610	C. P. 10 – Bioprocess Technology	Aerobic and Anaerobic culture introduced in 1 st unit. Syllabus contents rearranged
		Major Elective: Bioentrepreneurship	Biodiversity and Bioentrepreneurship
		Major Elective Bionanotechnology, IPR and Biosafety	Syllabus updated

The hours and credits of V and VI sem was changed in order to accommodate the skilled based 3: Clinical Lab Technology – II: Hematology subject in 5th sem for the students admitted during 2020-21 onwards and the ratification was made to the students admitted during 2018-19 onwards also. Reference Books and Text Books were updated with recent editions.

Other Academic Activities:

- The students should complete a SWAYAM-MOOC before the completion of the 5th semester and the course completed certificate should be submitted to the HOD. Two extra credits will be given to the candidates who have successfully completed.

Kongunadu Arts and Science College (Autonomous)
Coimbatore 641029

Department of Biotechnology (PG)

Minutes of the Board of Studies:

The Board of Studies meeting was held on 29/02/2020. The Chairman welcomed and outlined the changes to be made in the following for the board approval.

Item 1. To consider change in the Curriculum, Scheme of Examination and Syllabi of UG/PG/ Certificate / Diploma courses and approval.

Item 2. To suggest the panel of names for appointment of examiners.

Item 3. Other academic activities in the department.

As per the suggestions and recommendations given by the Stakeholders on the above items discussed, the existing/revised the Scheme of Curriculum / Scheme of Examination / Syllabi and Panel of Examiners are to be followed is annexed herewith for the implementation from the commencement of the Academic year 2020 – 2021.

The members after careful scrutiny of the changes to be made, unanimously accorded approval for the proposed changes/modifications. They also resolved to authorize the Chairman of Board of Studies to place the changes/modifications now approved by the BOS before the Standing Committee on Academic affairs and Academic Council.

Sem.	Course code	Name of the Course	Changes made
I	20PBT201	Biochemistry	Biochemistry & Metabolism Unit III – Deleted Mass spectrometer Unit IV- Gas liquid chromatography to Gas chromatography
II	20PBT206	Immunotechnology	Immunology & Immunotechnology
I	20PBT104	Microbiology	Unit III- VAM and Microbial pesticides added Unit IV- Title changed into Microbiology in food industries.
I	20PBT1CL	Lab in Biochemistry, Biostatistics and Bioinstrumentation	Biochemistry – Bradford's added in protein estimation.


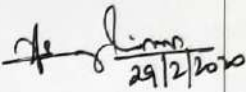
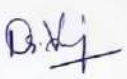
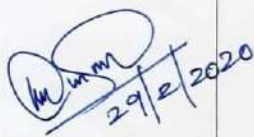


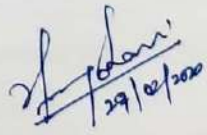
I	20PBT1CM	Lab in Molecular Genetics and Microbiology	Biostatistics- Added Plotting graph Microbiology- Isolation of bacteria changed into Enumeration of bacteria. Anaerobic culture of bacteria added.
II	20PBT205	Genetic Engineering	Unit IV- Primers added
II	20PBT208	Environmental Biotechnology and Bionanotechnology.	Unit I – Title: Environmental pollution and control Unit II: Bioleaching added Unit V: Tissue engineering & regenerative therapy, Nanostructure in drug discovery & drug delivery and Nanobiosensors added. Nano porous polymers and their applications in water purification and nanoparticles for environmental remediation and water treatment deleted.
II	20PBT2CN	Lab. in Molecular biology and Genetic Engineering	Molecular biology: isolation of protein added. Genetic engineering: cDNA synthesis and its gene expression pattern analysis (changed)
II	20PBT2CO	Lab in Immunotechnology, Animal Biotechnology and Environmental Biotechnology	Environmental Biotechnology: Determination of total dissolved solids Estimation of chlorine (added) MPN test removed.
III	20PBT309	Fermentation Technology	Unit II: Waste water and effluent treatment deleted






			<p>Unit III: Air filters design and mechanisms, Isolation screening and strain improvement.</p> <p>Unit IV: Computer aided control, (added)</p> <p>Unit V: Chromatography (deleted).</p>
III	20PBT3CP	Lab in Fermentation Technology, Plant Biotechnology and Computational Biology	<p>Plant Biotechnology Isolation protoplast and testing its viability Computational Biology Bioperl (demo) Biophython (demo)</p>
III	20PBT3X1	III SEM EDC	<p>Bioenterprenership skill Development</p>
IV	20PBT411	<p>Genomics, Proteomics and Computational Biology</p> <p>Major elective: Pharmaceutical Biotechnology</p> <p>Major elective: Bioethics, Biosafety, IPR and Total Quality Management</p> <p>Major elective: Natural products</p>	<p>Unit III: Yeast one hybrid systems</p> <p>Unit IV: Drug formulations and active pharmaceutical ingredients, FDA approval added. Genetically engineered proteins and peptide agents, oncogenes as targets for drugs, multidrug resistance and secondary metabolites (deleted). Unit IV: Biosafety guidelines and Good laboratory practices (added).</p> <p>Natural products and Research methodology (Identification of research problems, Literature survey, articles, reviews and manuscripts preparations. Composition of thesis.</p>

Other Academic Activities: The students should complete a SWAYAM-MOOC before the completion of the 3rd semester and the course completed certificate should be submitted to the HOD. Two extra credits will be given to the candidates who have successfully completed.

Credits of the subjects have been modified and project marks has been reduced to 100 marks.
Reference Books and Text Books were updated with recent editions.

Signature of the Board Members:

S.No.	Name	Designation	Signature
1.	Dr. V. Bhuvaneshwari	Chairman Associate professor and Head PG & Research Department of Biotechnology KASC	
2.	Dr. A. Sangalimuthu	Subject Expert, Associate professor & Head Department of Biotechnology Karpagam academy of Higher Education	 29/2/2020
3.	Dr. S. Vijayakumar	Alumni Assistant Professor Department of Biotechnology KSG college of Arts and Science, Coimbatore	
4.	Dr. P. Senthil Kumar	Assistant Professor PG & Research Department of Biotechnology KASC	 29/2/2020
5.	Dr. R. Amsaveni	Assistant Professor PG & Research Department of Biotechnology KASC	 29/2/2020
6.	Dr. G. Anbarasi	Assistant Professor PG & Research Department of Biotechnology KASC	 29/2/2020
7.	Dr. R. Ranjith Kumar	Assistant Professor PG & Research Department of Biotechnology KASC	 29/2/2020

8.	Dr. M. Gogul Ramnath	Assistant Professor PG & Research Department of Biotechnology KASC	 29/2/2020
9.	Dr. B. Vishnupriya	Assistant Professor PG & Research Department of Biotechnology KASC	 29/2/2020
10.	Dr. D. Bharathi	Guest Lecture PG & Research Department of Biotechnology KASC	 29/2/2020
11.	S. Bhuvaneshwari	II M.Sc., Student PG & Research Department of Biotechnology KASC	 29/2/2020
12.	A. Amrin	III B.Sc., Student PG & Research Department of Biotechnology KASC	 29/2/2020



Signature of the Chairman of the Board

Dr. V. BHUVANESHWARI
M.Sc., M.Phil., Ph.D., PGDip., PGDip. Ed.
Associate Professor & Head
PG & Research Dept. of Biotechnology
Kongunadu Arts & Science College
Coimbatore - 435 125