

19.3.22

Kongunadu Arts and Science College (Autonomous)
Coimbatore 641029

Department of Biotechnology

Minutes of the Board of Studies:

The Board of Studies meeting was held on 19.03.2022 at 10 am through MS Teams. The Chairman welcomed and outlined the changes to be made in the following for the board approval. He introduced the members of the board: as this board is a newly constituted board for the period of 3 years.

Preamble:

The Chairman Dr S R Madhan Shankar gave an introduction on the revisions and inclusions made in the syllabi during the previous BoS meeting held on 03.05.2021 and mentioned that it was a complete revamp. He informed that it is necessary to follow the Scheme of Examination as per the regulations of the UGC and TANSCH. From the current year, based on the recommendations of our Curriculum Development Cell (CDC), it is decided to introduce Cyber Security for all Undergraduate programmes and Information Security for all Post Graduate programmes. Further the Extra Department Course offered by the department is made 100 %CIA. It is also decided to merge the Skill Based Subject 1 and Skill Based Subject 2.

The Chairman appraised the board members that there has been a systematic revamp of syllabi for both UG and PG Biotechnology programmes where in the draft syllabi were prepared by the faculty members of the department and the same was sent to external subject experts for their comments/suggestions. The suggestions sent by the experts were taken into consideration and the same is placed before this Board for necessary comments/approval. Adequate care has been taken to include local issues and problems, case studies, group activities, extra hands-on exposure, group discussions, report preparation etc. in every course where ever possible. This shall contribute to up skilling and reskilling of the graduates.

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

As per the suggestions and recommendations given by the various stakeholders on the above items discussed, the existing/revised 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 2022 – 2023.

The members after careful scrutiny of the changes to be made, unanimously accorded approval for the proposed changes/modifications and resolved to approve the implementation of the revised syllabi from the Academic year 2022-2023 for Undergraduate, Post Graduate programmes and PG Diploma in Bioinformatics. 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.



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Suggestions made in the BOS:

Sem.	Course code	Name of the Course	Changes made
BSc Biotechnology			
I	22 UBT 101	Cell Biology and Genetics	No Changes Suggested
II	22UBT 202	Bioinstrumentation Microbiology	In unit III, Instead of Autoradiography, include Chemiluminescence , Also to include TEM and SEM, IEP, Gel documentation System, Remove Capillary Electrophoresis – principle and application In unit IV, rearrange the topics and include LC MS In unit V, Remove Fraction Collector and include Speed Vacuum and calibration of instruments
	22UBT203	Microbiology	Units to be rearranged, include Viral diseases in Unit V and Growth Kinetics in Unit III. Include Parasitism in Unit IV
	22UBT2CL	Lab in Cell Biology, Genetics and Microbiology	Rename Expt no 1 as Punnet Square test in Pea plant Expt No7 rename as pedigree Chart for ABO Blood grouping In pre lab exercise include BSL
III	22UBT304	Enzymology and Metabolism	No changes suggested
	22UBT305	Molecular Biology	In Unit I Include Mechanism of eukaryotic replication Swap Unit III and Unit IV In unit V include theta and rolling circle mode of replication In Unit IV add Coding and Non Coding genes
IV	22UBT406	rDNA Technology	In unit I include a Title: Tools for r DNA technology, Specify the Types of RE,



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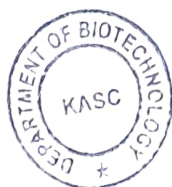
	22UBT4CM	Lab in Enzymology, Molecular Biology and rDNA Technology	Remove DNA Methyltransferases and DNA Methylation In Unit II Include Shuttle Vectors In Unit IV include Pyrosequencing and illumina Remove PFGE Add nested PCR, Hot start PCR, Symmetric and asymmetric PCR Expt No 4 rename as Quality and Quantity Check for DNA/RNA and Protein
	22UBT4S2	Skill Based Subject 2-Herbal Technology and Hydroponics	No Changes Suggested
V	22UBT507	Immunology	Remove haemotopoiesis from Unit II and include in Unit I. In Unit II include Cytokine storm
	22UBT508	Plant and Animal Biotechnology	Paper to be revamped
	22UBT509	Genomics and Proteomics	In Unit II Remove Maxam Gilbert Sequencing and Shotgun Sequencing and include Whole Genome Sequencing In Unit IV Remove NMR, Change Mass Spectroscopy to Mass Spectrometry In Unit V include Applications of Proteomics
	22UBT5CN	Lab in Immunology, Plant and Animal Biotechnology	Include <i>in Vitro</i> Seed Germination as Expt No1
	22UBT5E1	Stemcell and Neuroscience Nanotechnology	No Changes Suggested Title to be changed as Bionanotechnology and contents to be revamped
	22UBT5X1	IPR, Biosafety and Bioethics	No changes Suggested
	22UBT5X1	Bioentrepreunership	No changes Suggested
	22UBT5IT	Internship Training	No changes Suggested



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VI	22UBT610	Bioprocess Technology	No Changes Suggested
	22UBT611	Biopharmaceuticals	In unit V include compliance as per AYUSH
	22UBT612	Bioinformatics	No Changes Suggested
	22UBT6CO	Lab in Bioprocess technology and Biopharmaceuticals Nanotechnology	Remove Expt No 6 and 10
	22UBT6E2	Research Methodology	No changes Suggested
		Molecular Diagnostics	No changes Suggested
		Food and Dairy technology	No changes suggested
	22UBT6S3	BioBusiness and Project Management	No changes suggested
	22UBT0J1	Clinical Research and Medical Coding	No changes suggested
	22UBT0J2	Agro Industrial Biotechnology	No changes suggested
	22UBT6Z1	Case study Analysis, Report and Viva	No changes suggested

Sem.	Course code	Name of the Course	Changes made
MSc Biotechnology			
1	22PBT101	Biochemistry	In Unit IV include Non coding RNAs in Self Study topic
	22PBT102	Biology of Cell	No Changes Suggested
	22PBT103	Applied Microbiology	No Changes Suggested
	22PBT104	Bioinformatics	No Changes Suggested
	22PBTICL	Lab in Microbiology and Cellular Biology	No Changes Suggested
	22PBT1E1	Environmental Biotechnology	Include TDS, TSS in Unit I
		Nanobiotechnology	Paper to be revamped



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		Post production system of foods	No Changes Suggested
		Plant therapeutics and phytoproducts	No Changes Suggested
II	22PBT205	Molecular Biology and Human Genetics	Orders of the Units to be changed
	22PBT206	Genetic Engineering	No Changes Suggested
	22PBT207	Immunology and Immunotechnology	No Changes Suggested
	22PBT2CM	Lab in Molecular Biology and Genetics	No Changes Suggested
	22PBT2CN	Lab in Genetic Engineering and Immunotechnology	No Changes Suggested
	22PBT2E2	Research Methodology	No Changes Suggested
		IPR, Biosafety and Bioethics	No Changes Suggested
		Marine and Algal Biotechnology	No Changes Suggested
		Total Quality Control and Management	No Changes Suggested
III	22PBT308	Plant and Animal Transgenics	Paper to be Revamped
	22PBT309	Industrial Applications of Biotechnology	No Changes Suggested
	22PBT310	Genomics, Proteomics and Metabolomics	No Changes Suggested
	22PBT3CO	Lab in Plant and Animal Biotechnology	No Changes Suggested
	22PBT3CP	Lab in Applied biotechnology	Include SSF in Expt No2
	22PBT3X1	Businessventuresin Biosciences	No Changes Suggested
	22PBT3ST	Internship Training	No Changes Suggested
IV	22PBT411	Pharmaceutical Biotechnology	No Changes Suggested
NME	22PBT4N2	Cancer Biology	No Changes Suggested



JOC	22PBT0J1	Nutraceuticals Food Safety and HACCP	No Changes Suggested In unit II include BRC, KSHER In Unit III include Mycotoxins and Aflatoxins In Unit V include NCR In Unit V include Biostimulants, PGPR and BSFL
JOC	22PBT0J2	Natural Farming, Biofertilizers and Biopesticides	No Changes Suggested
ALC	22PBT0D1	Forensic Biotechnology	No Changes Suggested
ALC	22PBT0D2	Stem cell and Neuroscience	No Changes Suggested

Item 2. Ratification of the Scheme of Examinations (50 CIA and 50 ESE) implemented for the students admitted from the Academic Year 2021-2022.

1. The Board resolved to ratify the implementation of the Scheme of Examination in the 50%CIA and 50% ESE model as suggested and approved by the CDC of the institution for the students admitted in the Academic Year 2021- 2022 and onwards

2. The Board resolved to ratify the implementation of the course titled: Python Programming (20PDBI204) in place the course titled Python and R Programming for the students admitted in the Academic Year 2021-2022 and onwards

Item 3. To suggest the panel of names for appointment of examiners

The members of the Board of Studies in Biotechnology resolved unanimously to authorise the Chairperson Dr SR Madhan Shankar to submit the list of examiner panel for Question paper setting, Evaluation and Practical examinations.

Item 4. Other academic activities in the department.

1. The Board suggested identifying and collaborating with appropriate industries for offering the Job Oriented Courses

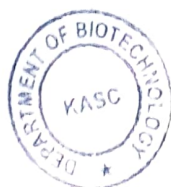
2. The Board also authorised the Chairperson to organise capacity building programmes for faculty to bridge the gap so that they are empowered in handling the new courses implemented in the curricula.

Item No 5: Any other:

General Comments from Experts:

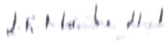
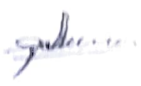



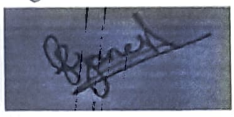


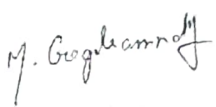
1. Overlaps to be removed and the syllabus seems to be fine without overlap

2. The members unanimously appreciated the Content of the syllabus and the choice of papers that are provided to the students.



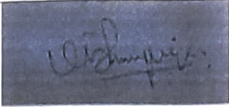


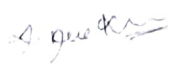
03. The members stated that the curriculum and syllabi are complete in all aspects without any academic gap.

Signature of the Board Members

S.No.	Name	Designation	Signature
1.	Dr S R Madhan Shankar Chairman	Dean Academics, Associate Professor and Head in PG Biotechnology	
2.	Dr.R. Gnanam University Nominee	Department of Plant Biotechnology Tamil Nadu Agricultural University Coimbatore	
3.	Dr.S.Karuthapandian Subject Expert	Department of Biotechnology Alagappa Univeristy Karaikudi	
4.	Dr.H. Shakila Subject Expert	Department of Biotechnology Madurai Kamaraj University Madurai	
5.	Dr. S. Aravind Industry Expert	Elies Biotech Pvt Ltd Erode	
6.	Mr. Ganesh. S Alumni	Project associate Ganga Orthopedic Hospital Coimbatore	
7.	Dr. R. Sivaprakash Board Member	R&D. Dean Associate, Dept of Biotechnology KASC	
8.	Dr. R. Sathish Kumar Board Member	Assistant Professor and Head in UG Biotechnology	
9.	Dr. M. GogulRamnath Board Member	Assistant Professor PG and Research Department of Biotechnology	

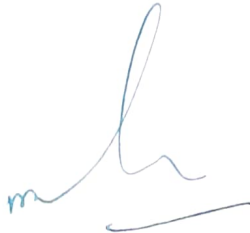


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10.	Dr. B. Vishnupriya Board Member	Assistant Professor PG and Research Department of Biotechnology	
11.	Mrs. S Bhargavi Board Member	Assistant Professor PG and Research Department of Biotechnology	
12.	Dr. S. Dinesh Kumar	Assistant Professor PG and Research Department of Biotechnology	
13.	Dr. R. Arvindganth	Assistant Professor PG and Research Department of Biotechnology	


Signature of the Chairman of the Board

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Dr. S.R. MADHAN SHANKAR
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Associate Professor and Head
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