



## Dr.N.G.P. ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

Approved by Government of Tamil Nadu & Affiliated to Bharathiar University

Re-Accredited by NAAC with 'A' Grade | DBT Star Scheme

Dr. N.G.P. - Kalapatti Road, Coimbatore

### MINUTES OF SIXTH BOARD OF STUDIES (BoS) MEETING

The Meeting of Board of Studies (BoS) was held as given below

Name of the Body	Board of Studies (BoS)
Department	Biochemistry
Meeting No.	6
Date and Time	08/12/2018, 10.00 AM
Venue	FIST Lab Dr.N.G.P. Arts and Science college (Autonomous)
Members Attended	The details are given in the ANNEXURE -I

#### AGENDA

1	Syllabus for III Semester B.Sc. Biochemistry: 2018-19 batch.
2	Syllabus for III Semester M.Sc. Biochemistry: (2018-19) batch.
3	Discussion on certificate programme to be considered from 2019-20 onwards
4	Any other matters

The Chairman of Board of Studies ( BoS) welcomed all members for the meeting. The items listed in the agenda were taken for discussion.

The minutes of the meeting are as follows:

Item – 01:	Syllabus for III Semester B.Sc., Biochemistry: (2018-19)batch
Discussion	<p>The syllabus for III Semester B.Sc., Biochemistry was discussed in the BoS. The following suggestions were made by the members for incorporation:</p> <p><b>18UBC33A: Core - IV Analytical Biochemistry</b></p> <p>Prof. P. M. Murali suggested the following changes:</p> <p>Unit - I</p> <p>The title has been renamed as Introductory principles of separation techniques.</p> <p>Isoelectric precipitation and Lyophilization shall be replaced with separation techniques of Biomolecules.</p> <p>Unit – II</p> <p>Replace Materials and methods as basic principles and applications of paper chromatography.</p> <p>Write as basic principles and applications of HPLC, FPLC, Mass spectroscopy, GC-MS and NMR.</p> <p>UNIT- IV</p> <p>Include Basic principles of centrifugation as subheading for centrifugation techniques.</p> <p>Include the topics, Flame photometry and Atomic absorption spectroscopy in Spectroscopic techniques:</p> <p>The corrections were included in Analytical Biochemistry course and code has been revised as <b>18UBC33A</b>.</p> <p><b>18UBC33A: Skill based subject – I: Bioinformatics</b></p> <p>Prof. P. M. Murali suggested the following changes:</p> <p>Unit II –Primary nucleic acid database as title of Unit –II.</p>

	<p>Unit III – Transfer Primary protein Databases from Unit II to Unit III</p> <p>Unit IV – Transfer the contents of Unit –III to Unit IV and exclude the topics Prediction method – laboratory based approaches – southern blotting, Northern blotting, zoo blot and <i>In-situ</i> hybridization</p> <p>Unit V –Replace the title Drug Discovery with Gene identification and protein structure prediction.</p> <p>Include the topics Elements of GMO, Non GMO and Gene editing under gene identification.</p> <p>Exclude the topics Bioinformatics and Drug design: Introduction approaches – ligand based, target based. Methods of drug designing- CAMD, docking program</p> <p>The corrections were included in Skill based subject – I: Bioinformatics course and code has been revised as <b>18UBC3SA</b>.</p> <p><b>18UNM34C:NMEC – I Biochemistry of Health</b></p> <p>Unit II</p> <p>Replace protein deficiency disease with the word malnutrition.</p> <p>Delete the topics protein C and S deficiency</p> <p>Include the topic obesity after cachexia.</p> <p>Include the Textbook of Biochemistry by Vasudevan and Sreekumari.</p> <p>The corrections were included in NMEC – I Biochemistry of Health and the course code has been revised as <b>18UNM34C</b>.</p>
Resolution	The members unanimously resolved and approved to incorporate all the above corrections.
Item - 02	Syllabus for III Semester M.Sc., Biochemistry: (2018-19)batch
Discussion	<p>The syllabus for M.Sc., Biochemistry III Semester was discussed in the BoS. The following suggestions were made by the members for incorporation</p> <p><b>18PBC33A: Biostatistics and Research Methodology</b></p> <p>Subject Expert Dr.Sridhar M.G suggested rearranging the contents as</p>

follows.

Unit I contents to Unit V.

Unit II contents to Unit I.

Unit III contents to Unit II

Unit IV contents to Unit III

Unit V contents to Unit IV

The units of the course Biostatistics and Research Methodology have been rearranged and the course code has been revised as **18PBC33A**.

### **18PBC33B: Advanced Clinical Biochemistry**

Subject Expert Prof.P.M.Murali and Dr.Sridhar M.G suggested the following changes

The title of the course has been renamed as Clinical Biochemistry

Unit-I Inclusion of Detection of short chain fatty acids under Stool – Chemical examination, clinical significance.

Exclude CSF composition and collection, chemical examination and spinal cord infections.

The corrections were included in the course clinical Biochemistry and the course code has been revised as **18PBC33B**.

### **18PBC33C: Genetic Engineering**

Subject Expert Prof.P.M.Murali suggested the following changes

The title of the course has been renamed as Genetics and Genetic Engineering.

Unit – III Title as Cloning vectors and cloning strategies.

Move the topics Genomic and cDNA cloning, cDNA library from Unit IV to Unit III.

Unit – IV title as Expression vectors and exclude the topics – pBR 322, pSC 101, pUC, Bluescript,  $\lambda$  phage,  $\lambda$  vector, packaging of  $\lambda$  vector *in vitro*, development of M13 vector, PEMBL vector, SV40, retrovirus, adenovirus, recombinant vaccinia virus vectors

Unit – V Include the topic gene editing after anticancer therapy in Unit – V


The corrections were included in the course Genetics and Genetic Engineering and the course code has been revised as **18PBC33C**.

	<p><b>18PBC33D: Hormonal Regulation and Signal Transduction</b></p> <p>Subject Expert Dr.Sridhar M.G suggested inclusion of the following contents</p> <p>Unit – V Include the topics Endorphins and Enkephalins.</p> <p>Include Harper 2018 in the textbook list.</p> <p>The corrections were included in the course Hormonal Regulation and Signal Transduction and the course code has been revised as <b>18PBC33D</b></p> <p><b>18PBC33P: Core Practical – III Biochemistry – III</b></p> <p>Experiment 1 Exclude urine glucose.</p> <p>Experiment 6 Exclude urine bilirubin.</p> <p>Experiment 12 Include Glucometer (Lecture demo).</p> <p>The corrections were included in the course Core Practical – III Biochemistry – III and code has been revised as <b>18PBC33P</b>.</p> <p><b>18PBC3EA: Elective – III Nutrition and Clinical Nutrition</b></p> <p>Subject Expert Dr.Sridhar M.G suggested inclusion of the following contents in unit I</p> <p>Concept of Balanced diet, Calories requirement – sedentary, moderate &amp; heavy worker, Fast foods, Additives in the diet, Dietary allergies. Lactose intolerance. Quality of protein – animal versus plant protein, Parenteral nutrition, Types of diets – Paleo diet, keto diet, prebiotics and probiotics.</p> <p>Include the textbook: NIN books Nutritional values of Indian food.</p> <p>The corrections were included in the course Elective – III Nutrition and Clinical Nutrition and code has been revised as <b>18PBC3EA</b>.</p>
Resolution	The members unanimously resolved and approved to incorporate all the above corrections.
Item -03	Discussion on certificate programme to be considered from 2019-20 onwards
Discussion	<p>The members recommended the following certificate courses</p> <p>Bionanotechnology,</p> <p>Good Laboratory Practices,</p>

	Health research fundamentals, Scientific writing, Cheminformatics Laboratory quality management	
Resolution	The members suggested to consider the certificate course titles from 2019-20 onwards.	

The chairman of Board of Studies (BoS) thanked all the members for their active participation and cordially invited them for the next meeting

Date : 08/12/2018

  
**Dr.S.Gowri**  
 Chairman  
 BoS Biochemistry  
 Dr.S.Gowri M.Sc., M.Phil., Ph.D.,  
 Professor & Head  
 Department of Biochemistry  
 Dr.N.G.P. Arts and Science College  
 Colmbatore - 641 048.

Dr.N.G.P Arts and Science College

Faculty of Biosciences  
Department of Biochemistry

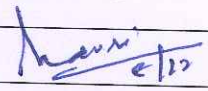

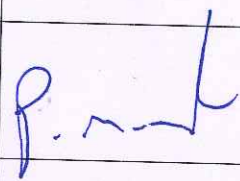

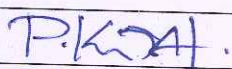

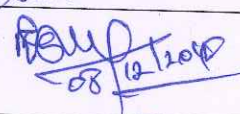
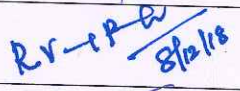
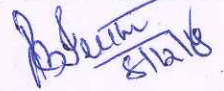



Board of Studies meeting

VENUE: FIST Lab

DATE: 08/12/2018

TIME: 10.00A.M

The following members were present for the Board of Studies meeting

S.No	NAME	POSITION	SIGNATURE
1.	Dr.S.Gowri Professor and Head	Chairman	
2	Dr. K. Balamurugan Professor, Department of Biotechnology Alagappa University Karaikudi-630003	Member (Subject expert) Nominated by Vice chancellor)	ABSENT
3	Dr.M.G.Sridhar Professor and Head Dept of Biochemistry and Vice Principal KMCH Institute of Health Sciences and Research,Coimbatore-	Member ( subject Expert) Nominated by Academic council	 8/12/18
4	Dr.P.R.Padma Dean,School of Biosciences Avinashilingam Institute for Home Science and Higher Education for Women,Coimbatore - 641 043	Member ( subject Expert) Nominated by Academic council	ABSENT
5	Prof. P. M. Murali Chairman - Jananom Private ltd 26/1, Natesan nagar,Kovaiputhur Coimbatore-641 042	Member ( Industrial Expert)	
6	Mr.Madesh.P Assistant Manager Quality Control - API Syngene International Ltd Biocon Park,Bangalore-560099	Alumni	 08/12/2018
7	Ms.Kanimozhi P ( PG)	Student Representative	
	Ms.Aathini.R ( UG)		
8	Part I ( Four Semester language) Dr.N.Kuppuchamy Professor and Head Dept.of Tamil	Co-opoted Member	 08/12/2018
	Part II ( Four Semester language) Dr.R.Vithya Prabha Professor and Head Dept.of English		 8/12/18
	Allied Computer science Dr.B.Rosiline Jeetha. Professor and Head, Dept of Computer science		 8/12/18
9	Dr.N.Kannikaparameswari Professor	Member	 8/12/18
10	Dr.T.Indhumathi Associate professor	Member	 8/12/18
11	Dr.V.Usha Associate professor	Member	 8/12/2018