

Dr. N. G. P. ARTS AND SCIENCE COLLEGE, COIMBATORE-48
(An Autonomous institution, Affiliated to Bharathiar University, Coimbatore-46)

DEPARTMENT OF BIOCHEMISTRY (UG)
MINUTES OF MEETING

Date: 13.06.2015

Venue: Room No. 108

Time : 8:30a.m to 11:30 p.m

The following aspects of the syllabus were discussed in Board of Studies meeting

Semester I

Subject: Biomolecules

Advised to add text books namely Lehinger Biochemistry and Biochemistry by Stryer

Review of Biochemistry by Harper's to be included as reference book

Subject: Cell Biology

Change the reference book by Harvey Lodish and De Robertis to Text Books

Semester II

Subject: Introductory Microbiology

Advised to change the title as Basic microbiology

Subject: Enzyme and Enzyme technology

In content of syllabus, include more kinetic problems and add new topic , Functional and Nonfunctional enzymes.

Semester III

Subject: Biomedical Instrumentation

Change the title of paper as Bioinstrumentation

Include the techniques of Amino acid Analyzer, Atomic Absorption Spectroscopy and NMR in content of syllabus.

Semester IV

Subject: Molecular Biology

Add molecular biology David friefelder as reference book

Include the book Biochemistry by Stryer.

Subject: Human Physiology

- Change the contents in Unit I is about basic Physiology.
- Check the objectives.
- In Unit II, include more about Digestive system
- Change the Text book by author Indukhurana & Arushi to the book Human Anatomy and Physiology by Guyton.

Semester V

Subject: Clinical Biochemistry

The subject experts suggested that we must teach the subject Intermediary metabolism before the subject Clinical Biochemistry so advised to include that paper before fifth semester.

Include hormone and mineral metabolic deficiencies and disorders in the contents.

Subject: Intermediary Metabolism

- Include the metabolism of minor nutrients.
- Remove the contents about ETC and include that in Unit II after TCA cycle along with the topic substrate level phosphorylation.
- Add one more text book- Review of Biochemistry by Harper's.

Subject: Plant Biochemistry and Plant Therapeutics

- Change the title as Plant physiology and Biochemistry
- Include the importance of TCA cycle in plants and Difference between human and Plant TCA cycle.
- Change the objective (remove techniques of genetic engineering in plants and Animals).
- Include the topic transpiration in plants.

Semester VI

Subject: Medicinal Chemistry

- Include the topic about Alzheimer's disease

Subject: Pharmaceutical Nanotechnology and nanobiophotonics

- Academic council members suggested that this paper is better to eliminate from UG syllabus. Nutritional Biochemistry might be replaced for this paper.

ELECTIVE PAPERS

Semester IV, Elective I-1. Immunology and immuno techniques

No change

2. Nutritional Biochemistry

- Remove the second paper Nutritional Biochemistry to core paper.
- Instead of that add Clinical research paper.

3. Concepts in Drug Discovery and Clinical Research

- separate it into two papers and include Clinical research as elective I second paper.

Semester V, Elective II – 1. Plant and Animal Technology

No change

2. Principles of pathology and Cytology

- this paper can be replaced by principles of genetics

3. Health management

- include Good Clinical laboratory practices as new paper instead of this Paper and reference book as Teitz Biochemistry.

Semester VI, Elective III – No change

PRACTICALS

Core practical I

Include the following practical

- pH meter
- preparation of Normality, Molarity solutions
- adjustment of pH using acid and alkaline solutions.
- In microbiology part, include serial dilution study.

Core Practical II

Suggested to remove genetic engineering practicals

Core practical III

-Arrange the practical in order

- include more clinical biochemistry practical in following sequence

Renal Function Test

Liver Function test

Pulmonary Function test

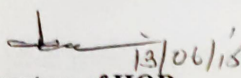
Gastric function test

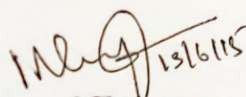
Estimation of hemoglobin derivatives

Lipid profile

Estimation of Electrolytes

Assay of cardiac enzymes & isoenzymes


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- Make it in order and profile wise.
- Reference books are Tietz biochemistry and practical biochemistry by Varley.

Core Practical II

- Reduce the number of practicals

ELECTIVE PAPERS

Subject: Plant Tissue Culture

- Include sterilization methods, media preparation, apparatus used and Chemicals used in PTC lab in Unit I.
- Remove DNA banking from Unit III and include that in Unit V, plant secondary metabolites and biodegradable plastics also should be removed from unit V.
- Include the topics Ti plasmid and microbacterial transformation, insect resistant

Subject: Animal Tissue Culture

- Include the book Animal tissue Culture by Ranga

Subject: Methods in Molecular Biology

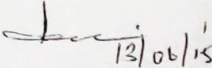
- Change the Title

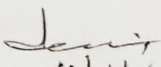
Subject: Computational molecular Biology

- Change the title as Bioinformatics

Subject: Genomics & Proteomics- remove

Subject: Nanoscience- remove


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DEPARTMENT OF BIOCHEMISTRY (PG)
MINUTES OF MEETING

Date: 13.06.2015

Venue: Room No. 108

Time : 11:35 a.m to 1:45 p.m

The following points were discussed in Board of Studies Meeting

Semester I

Subject :Biopolymer and Biophysics

- Change the title as Biopolymer

Subject: Analytical Biochemistry and Bioinformatics

- In unit V, remove the contents which are not relevant to biochemistry and include basic bioinformatics topics.

Subject : Enzymes and Enzyme Technology

- Similarity between UG and PG syllabus.
- Include some new topics relevant to PG students

Subject : Cellular Biochemistry

- No change

Subject : Plant Biochemistry and Biotechnology

- Similarity between UG & PG syllabus
- Include cytochromes and its role in content of syllabus
- Include secondary metabolites.

Subject: Microbial Biochemistry

- Advised to modify the contents in unit V

Subject: Immunology

- No change

Semester II

Subject : Advanced clinical Biochemistry

- Syllabus is suitable for UG students so include more cancer markers in unit V
- Include mineral and hormonal disorders
- Isoenzymes of bone, liver and Muscle.

Subject: Molecular Biology

- Include microRNA (miRNA), Eukaryotic transcription and its regulation.

Subject: Biostatistics and research methodology

- No change

Subject : Metabolism and Metabolic Regulations

- Highlight purine and pyrimidine metabolism
- Include integrative metabolism
- Add the text book review of biochemistry by Harper and Western ghatt instead of Biochemistry by sathyanaarayana.

Semester III

Subject: Genetic Engineering

- No Change

Subject: Endocrinology

- No Change

Subject : Pharmaceutical chemistry and Neurochemistry

- No Change

Semester IV

- No Change

PRACTICALS

Core practical I

- Include paper electrophoresis and exclude microbiology practical.
- Assay of isoenzymes LDH, CPK and ALP by Electrophoresis and estimation of Immunoglobulins.

- Make it in order and profile wise.
- Reference books are Tietz biochemistry and practical biochemistry by Varley.

Core Practical II

- Reduce the number of practicals

ELECTIVE PAPERS

Subject: Plant Tissue Culture

- Include sterilization methods, media preparation, apparatus used and Chemicals used in PTC lab in Unit I.
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- Include the topics Ti plasmid and microbacterial transformation, insect resistant

Subject: Animal Tissue Culture

- Include the book Animal tissue Culture by Ranga

Subject: Methods in Molecular Biology

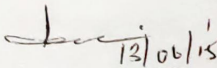
- Change the Title


Subject: Computational molecular Biology

- Change the title as Bioinformatics

Subject: Genomics & Proteomics- remove

Subject: Nanoscience- remove


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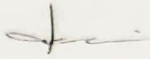
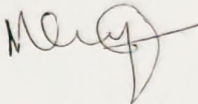
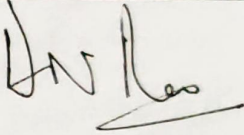
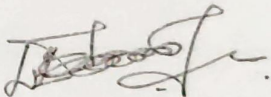
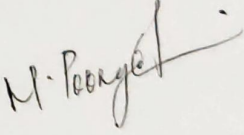
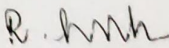
DEPARTMENT OF BIOCHEMISTRY (UG & PG)
BOARD OF STUDIES MEETING

Date: 13.06.2015

Venue: Room No 108

Time: 8:30 a.m

The following members were present for the board of studies meeting

S.No	Name and Address	Designation	Signature
1.	Dr. J. Karthikeyan, Head and Associate Professor, Department of Biochemistry, Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	PG Board Chairman	
2.	Dr. N. Kannika Parameswari, Associate Professor, Department of Biochemistry Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	UG Board Chairman	
3.	Dr. D. Narasimha Rao, Professor, Indian Institute of Science, Bangalore.	Academic Council member	
4.	Dr. P. Chinnasamy, Director, Institute of Laboratory Medicine, Kovai Medical Center and Hospital, Coimbatore. Mobile. No. 98430 17817	Academic Council member	
5.	Dr. Poongodai, Assistant Professor, Department of Biotechnology Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	Co-opted Member	
6.	Mr. S. Logesh Laboratory In-Charge, GKNM Hospital, Coimbatore	Meritorious Alumni	

7.	Dr. C. Venkatesan, Associate Professor, Department of Biochemistry Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	Member	<i>Wenkata -</i>
8.	Dr. S. Gowri, Associate Professor, Department of Biochemistry Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	Member	<i>Gowri</i>
9.	Mrs. T. Indhumathi, Assistant Professor, Department of Biochemistry Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	Member	<i>T. Indhu</i>
10.	Mrs. P. A. Vasundra Devi, Assistant Professor, Department of Biochemistry Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	Member	<i>P. A. Vasundra</i>
11.	Mrs. K. Rajathi, Assistant Professor, Department of Biochemistry, Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	Member	<i>K. Rajathi</i>
12.	Mr. M. Siva Ganesh, Assistant Professor, Department of Biochemistry Dr. N. G. P. Arts and Science College, Kalapatti, Coimbatore – 48.	Member	<i>M. Siva Ganesh</i>