

BOARD OF STUDIES IN BIOCHEMISTRY

The Thirteenth meeting of Board of studies in Biochemistry (UG) under autonomous scheme was conducted on 09.03.2019, Saturday at 10.00 am in The Department of Biochemistry.

MEMBERS PRESENTSIGNATURE

- | | <u>chairperson</u> | |
|----|--|------------------------------------|
| 1. | Dr. Indira A Jayraj
Associate Professor & Head | Indira A. Jayraj |
| | <u>Members</u> | |
| 2. | Dr. S. Krishnakumari
Associate Professor | S. Krishna Kumari
09/03/2019 |
| 3. | Dr. K. Kalavani
Associate Professor | K. Kalavani
09/03/19 |
| 4. | Dr. V. Selvi
Associate Professor | V. Selvi
09/03/2019. |
| 5. | Dr. R. S. Narendhirakannan
Assistant Professor. | R. S. Narendhirakannan
09/03/19 |
| 6. | Dr. K. Suresha
Associate Professor. | K. Suresha
09/03/2019. |

student Nominee

V. Ashwathi (Reg.No: 161BC046)

Absent

M. B.Sc. Biochemistry

University Nominee

Dr. Suresh Rayala

Professor, Department of Biotechnology

Bhupat and Syoti Mehta School of Bioscience

IIT, Madras - 600 036.

Subject Experts - Academic Council

1. Dr. R. Manimekalai

Principal

Absent

Department of Biochemistry

Dr. MGR Janaki College of Arts and Science.

Chennai - 600 028

2. Dr. P. Rani

Professor, Department of Biotechnology

Absent

P.S.G. College of Technology

Peelamedu

Coimbatore - 641 004.

Alumni Member :

Dr. K. Chandrakumar

Assistant Professor of Biochemistry

Department of Bioenergy Agriculture.

Engineering College and Research Institute.

Tamilnadu Agricultural University

Coimbatore - 641 003.

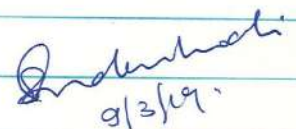
OK. Chandrakumar
9/3/19.Industrialist :

Ms. S. Sudarkodi M.Sc., M.Phil.,

King's Diagnostic Services

100 Feet - Sathy Road Junction

Coimbatore - 641 044.


9/3/19.

Minutes of Board of Studies meeting:-

The thirteen meeting of the Board of Studies in Biochemistry under autonomous scheme was conducted on 09:03:2019, Saturday at 10.00 am in the Department of Biochemistry.

The chairman Dr. Indira. A. Jayraj Welcomes the members, of the Board of studies, Biochemistry (UG) and the chairman briefed the activities to be taken by the board for the implementation of syllabic during the year 2019-2020 in the OBE pattern. The chairman then requested the members to take up the agenda for discussion.

Item No 1:

To approve the syllabi for the first, second and third year of B.Sc Biochemistry course 2019-2020 according to the Outcome Based Education (OBE) pattern.

The chairman presented the details of the curricula, scheme of examinations and the syllabi pertaining to the B.Sc Biochemistry course in the OBE pattern applicable to the students admitted for the academic year 2019-2020.

Item No 2:

In Semester I, C.P. 1, Chemistry of Biomolecules in Unit II, 'the amino acid substitution disorder', eg. Sickle cell anemia was included.

Item No 3:

In Semester II, C.P. 3, Enzymes and Enzyme Technology, in Unit I, the topic, 'turn over number'

was included. In Unit-V, ELISA was included.

Item No 4:

In Semester IV, C.P. 4, Intermediary Metabolism separate heading have been given to all the five units. In Unit - I, 'Glucose-alanine cycle, utilization of lactose and fructose, Pentose phosphate pathway and their significance' were included. In Unit - III, included 'Sphingomyeline and metabolism of cholesterol'. Minor changes have also been made.

Item No 5:

In Semester V, C.P. 5, Human Physiology, Unit - I was enhanced with a topic on 'Lymphatic System'.

Item No 6:

In Semester V, C.P. 6, Cell Biology paper is replaced by Basis in Microbiology and Biotechnology

Item No 7:

In Semester V, C.P. 7, Clinical Biochemistry, the unit I, 'the significance of glycosylated haemoglobin' was included.

Item No 8:

In semester V, C.P. 8, Molecular Biology, the Unit II was added with a topic on 'Inhibitors of DNA replication'. In Unit - V, 'Regulation of tryptophan operon' was included.

Item No 9:

In semester VI, C.P. 9, Plant Biochemistry, the topic, the seed storage proteins in legumes

and cereals' was added to unit IV.

Item No 10:

In semester VI, C.P.10, Immunology and Immunotechniques, the unit-V was enhanced by including a topic, on 'Immunohistochemistry'.

Item No 11:

In Semester VI, C.P.11, Genetic Technology, in Unit-II 'the preparation of competent cells and uptake of DNA by cells' was added to the heading transformation of E. coli. 'Identification of recombinational insertion inactivation, Blue-White selection and Identification of clone from gene library' is included. 'Ethics in genetic engineering' was included in Unit IV.

Item No 12:

In semester III & IV, C.Pr.2-Biochemistry, a colorimetric experiment, 'Estimation of uric acid-Caraway method' was included.

Item No 13:

In Semester V & VI, C.Pr-3-Biochemistry, 'total proteins, globulin and A/G ratio' were given as the single experiment.

Item No 14:

In semester V & VI, C.Pr-4. Biochemistry. In genetic technology restriction digestion of DNA (demo) is removed and cell biology portion is removed and replaced by Tissue staining, in which H & E staining of tissue, was added.

Item No 15:

In Semester IV, SBS 2 Common Human Diseases 'the introduction to infectious diseases, structure and functions of heart' were included. In Unit-II, 'role of insulin in regulation of blood glucose level and management of diabetes' was included. In Unit-III, 'liver and its functions' was included. In Unit-V, 'structure and functions of kidney' was included.

Item No 16:

In semester VI, SBS 4, Techniques in Genom and proteomics, in Unit-I, under heading 'gene editing - Crispr/Cas-9' was included.

Item No 17:

In semester III, Allied Biochemistry I, the Unit-III was enhanced with a topic of 'oxidative deamination'.

Item No 18:

In Semester IV, Allied Biochemistry II, the Unit-III was enhanced with a topic of 'safe handling of isotopes'.

Item No 19:

In semester III & IV, in A.P. 2 Biochemistry 'Quantitative analysis of Biomolecules - Estimation of Glucose by Anthrone method and Estimation of protein by Lowry's method' was added instead of Iodine number.

Item No: 20:

In Semester V, in Major elective paper
Microbiology is replaced by Biopharmaceuticals.

Item No: 21:

Minor corrections in the syllabus.

Sandra A. Jayaram
CINDRA A. JAYARAM
(CHAIRMAN)

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