



**SATHYABAMA**  
**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
(DEEMED TO BE UNIVERSITY)



Accredited with "A" grade by NAAC

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, Tamilnadu, India.

## MINUTES OF MEETING

**Subject:** Board of Studies- Department of Bioinformatics

**Venue:** Molecular Modelling Lab

**Date:** 26/04/2017

**Agenda:** Opinion/Suggestion for improvement of syllabus

The following are the members present in the meeting.

**Dr. Naveen Prasad (Dean)**

Internal (Department Members):

1. Dr. Jaynthy Chellam, Associate Professor and Head
2. Dr. Jemmy Christy, Assistant Professor
3. Dr. K. Balasankar, Assistant Professor
4. Dr. T. Arun Kumar, Assistant Professor

Internal Members (Faculty):

1. Dr. D. Alex Anand, Associate Professor & Head, Biomedical Department
2. Dr. Valli Nachiyar, Associate Professor & Head, Biotechnology Department.
3. Dr. Jayshree Nellore, Associate Professor, Biotechnology Department.
4. Dr. Swetha Sunkar, Assistant Professor, Bioinformatics Department.
5. Ms. Renuga, Assistant Professor, Biotechnology Department.

Internal Members (Physics):

1. Dr. M.Xavier Suresh, Associate Professor, Physics Department.
2. Dr. Sampath Kumar, Associate Professor, Physics Department

The Members of the Board approved the present syllabus with the following suggestions in three papers.

- a. INTRODUCTION TO QUANTUM CHEMISTRY SBI1204 (IV Semester)

In this course, following changes are to be included in the unit III. The significance of Born Interpretation of the wave function has to be included in the syllabus as per the feedback obtained from Dr. Jaynthy.C, Dr. M. Xavier Suresh and Dr. Sampath Kumar, Physics department. Hence

the following topics will be included and implemented for the students of B. Tech Bioinformatics, Batch 2016-2020 onwards

b. BIOMOLECULAR INTERACTION SBI1201 (III Semester)

The course describes the importance of the different types of interactions among biomolecules. Here, the third unit focuses on GNR map and its importance in analyzing proteins structurally. In this unit, following changes are to be made: 3rd unit can be changed by including the following new topics: "Interaction specificity, Modeling and manipulating biomolecular interactions" and removing the following "Distribution of ( $\phi$ ,  $\psi$ ) values observed in high resolution protein structures". The inputs were given by Dr. Jaynthy. C, Dr. Valli Nachiyar and Dr. Jayshree Nellore of Biotechnology department.

Hence the following topics will be included and implemented for the students of B. Tech Bioinformatics, Batch 2016-2020 onwards

c. BIOLOGICAL SEQUENCE ANALYSIS SBI1202 (III Semester)

The course has an objective of analyzing the nature of the sequences and the feedback on this course is, considering the importance of the emerging new topic, Next Generation Sequencing, it is apt to include this topic in the curriculums an introduction. Hence, the second and third unit can be merged and some topics can be removed, if required. Also, the new unit III, with the topic Next Generation Sequencing. Suggestions were given by Dr. K. Balasankar, Dr. D. Alex Anand, Dr. Jaynthy.C and Dr. Jemmy Christy.


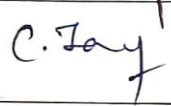

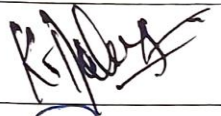

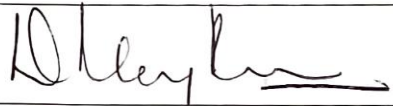
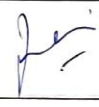
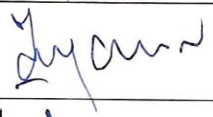


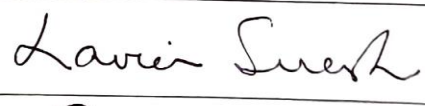
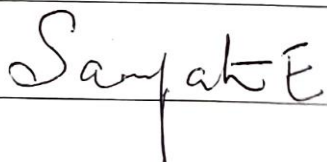
Hence the following topics will be included and implemented for the students of B. Tech Bioinformatics, Batch 2016-2020 onwards

- The members also suggested to train the students in practical aspects of certain concepts.
- Based on this suggestion hands on courses on microarray analysis has been suggested and would be expected to be implemented in the next academic year

**Minutes approved**

## Signature of the Participants

### Signature of the Members

Name	Signature
Dr. Naveen Prasad	
Dr. JaynthyChellam	
Dr. Jemmy Christy	
Dr. K. Balasankar	
Dr. T. Arun Kumar	
Dr. D. Alex Anand	
Dr. ValliNachiyar	
Dr. Jayshree Nellore	
Dr. SwethaSunkar	
Ms. Renuga	
Dr. M. Xavier Suresh	
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### **MINUTES OF MEETING**

**Subject: Board of Studies- Department of Bioinformatics**

**Venue: Molecular Modelling Lab**

**Date: 20 /11/2017**

**Agenda: Opinion/suggestion for improvement of syllabus**

**The following are the members present in the meeting.**

1. Dr. Anima Nanda (Dean).

#### **Internal (Department Members):**

1. Dr. Jaynthy Chellam, Associate Professor
2. Dr. Jemmy Christy, Assistant Professor
3. Dr.D.Alex Anand, Assistant Professor
4. Dr. Balasankar, Assistant Professor
5. Dr. Swetha Sunkar, Assistant Professor

#### **Internal Members (Faculty):**

1. Dr. Ramesh Kumar, Associate Professor and head, Biotechnology Department
2. Dr. Valli Nachiyar, Associate Professor, Biotechnology Department.
3. Dr. Jayshree Nellore, Associate Professor, Biotechnology Department.
4. Ms. Renuga, Assistant Professor, Biotechnology Department.





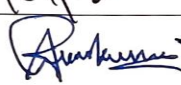
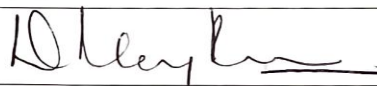

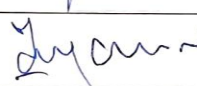



**The Board of studies approved the present syllabus with the following suggestions.**

- a. In the paper, SBI1203 - Molecular Immunology and Immunoinformatics the unit V (Immunoinformatics) of the paper, the tools and databases are to be learnt by the student. It was suggested to increase the number of tools listed thereon. The specific tools suggested were – CED, BCPEP, IEDB, SYFPEITHI, SDAP, Immunome database and AllergenPro.
- b. In the paper, SBI1205, Phylogenetic analysis, it was suggested to move the tools listed in the first unit, namely ClustalW, BioEdit, HMMER, T-coffee, MAFFT, MultiAlign to the fifth unit.

## Minutes approved

### Signature of the Participants

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