

**SCHOOL OF LIFE SCIENCES**  
**DEPARTMENT OF BIOINFORMATICS**  
**BOARD OF STUDIES MEETING**

**MINUTES OF THE MEETING OF THE BOARD OF STUDIES**

**Date:** 4.5.18

**Time:** 10.30 a.m

**Venue:** Department of Bioinformatics

The meeting of the board of studies of the Department of Bioinformatics, School of Life Sciences, VISTAS was held ~~10.30 a.m~~ on ~~4.5.18~~ in the Department of Bioinformatics to consider the modifications in the curriculum and syllabus for B.Sc., Biocomputing Program proposed to be introduced by the Department from the academic year 2018- 2019.

The following persons were invited to attend the meeting.

S.No	Name	Post	Contact address	Designation
1.	Dr.Radha Mahendran	Associate Professor/ Head Dept Bioinformatics	VISTAS P.V. Vaithiyalingam Road Pallavaram Chennai - 600 117 Mobile no: 09003237145	Chairman
2.	Dr. Suganya.J	Asst Professor/ Dept Bioinformatics	VISTAS P.V. Vaithiyalingam Road Pallavaram Chennai - 600 117 Mobile no: 09042112221	Internal Members
3.	Dr. M.N Ponnusamy	Emeritus professor, Dept Crystallography and biophysics	University of Madras, Guindy Campus, Chennai 600 025 Phone: 044 - 22300122 Email: mspy@hotmail.com	External expert
4.	Dr. J.Senthil Kumar	Associate Professor Dept of Computer Science	D.B. Jain College. Thoraipakkam, Chennai - 600 119	External expert
5.	Ms. K.Hemamalaini	II Year B.Sc., Biocomputing	VISTAS P.V. vaithiyalingam Road, pallavaram, Chennai -117	Student Member

All the above listed members attended the meeting and deliberated on the curriculum and syllabus in detail. The curriculum for B.Sc. was modified as per the regulations of UGC. The programme specific alterations or modifications are as follows:

### **B.Sc., Biocomputing:**

To enable the student to gain more knowledge in application of information technologies and computers in the field of biology, the following changes were made in the current syllabus from previous syllabus.

- Introducing Choice Based Credit System. Student can select the specific elective courses to earn credits according to their own interest on subjects
- All **Discipline Specific Elective Course** were included in the semester (V & IV). All DSE can opt as per students' interest from the list of courses given in the curriculum.
- Introducing **Skill Enhancement Courses** as elective course in II year of B.Sc.
- Introducing **Generic Elective Courses** in III year of B.Sc.
- Compulsory course **NSS** was introduced in semester V.

### **Semester I:**

- The title and syllabus was revised for the core paper
  - i. 'Introduction to Computer and Statistics' as "**Introduction to Computer, Algorithm and Statistics**", since students from biology background should understand the concepts of programming in computer.
  - ii. 'Molecular Cell Biology and Biochemistry' as "**Cell Biology and Biochemistry**", more on cell functions and mechanisms were included.

### **Semester II:**

- The unit 4 & 5 syllabus was revised for the core paper "**Programming in C**".

- The Discipline Specific Elective subject 'Microbiology and Immunology' was replaced with '**Biological databases and sequence analysis**' in order to make the students acquire basic knowledge on bioinformatics. This would facilitate students to understand the advance topics in their forthcoming semesters.
- The practical Microbialinformatics was replaced with Biological databases and Sequence analysis – Practical.

### **Semester III:**

- Previous semester Microbiology and Immunology subject was renamed as "**Bioinformatics in Microbiology, Immunology and Nanotechnology**" and instead of Core paper 'Computer Networks', the above subject was replaced. The objective is students should gain knowledge on recent topics nanotechnology and the application of bioinformatics in it.

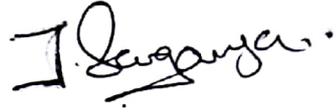
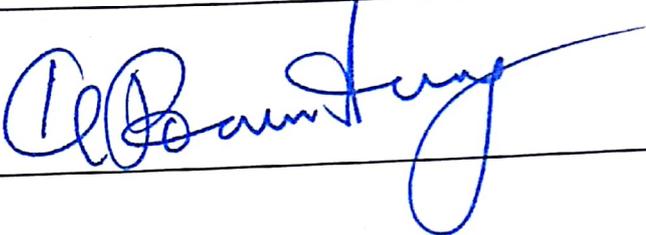
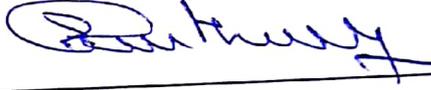
### **Semester IV:**

- The subjects "Operating System" and "Computer network" were combined and the syllabus was revised accordingly.
- "**Medical Coding and Transcription**" was included in the Semester IV with revised syllabus, therefore students would acquire knowledge on the subject beforehand which would help them in attending campus interview.

### **Semester VI:**

- Six Credits was allotted for the project work separately in the Semester VI to provide students an expose to apply the learnt techniques in project level.
- Since credits separately allotted for project work, the practical on the topics - Programming in Visual Basics and Python was combined and syllabus was revised as a single subject.

MEMBER OF BOARD OF STUDIES

S.No	Name	Signature
1.	Dr.Radha Mahendran	
2.	Dr. Suganya.J	
3.	Dr. M.N Ponnusamy	
4.	Dr. J.Senthil Kumar	
5.	Ms. K.Hemamalaini	

**SCHOOL OF LIFE SCIENCES**  
**DEPARTMENT OF BIOINFORMATICS**  
**BOARD OF STUDIES MEETING**  
**MINUTES OF THE MEETING OF THE BOARD OF STUDIES**

Date: 4.5.18

Time: 2.30 p.m

Venue: Department of Bioinformatics

The meeting of the board of studies of the Department of Bioinformatics, School of Life Sciences, VISTAS was held at ~~2.30 P.M~~ on ~~4.5.18~~ in the Department of Bioinformatics to consider the modifications in the curriculum and syllabus for M.Sc., Bioinformatics Program proposed to be introduced by the Department from the academic year 2018- 2019.

The following persons were invited to attend the meeting.

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3.	Dr. D. Velmurugan	Professor, Dept of Crystallography and Biophysics	University of Madras, Guindy Campus, Chennai 600 025 Phone: 044 – 22351367: 044-22300122, 9841075847 Email: shirai2011@gmail.com	External Members
4.	Dr.P.Gautam	Professor, Centre for Biotechnology.	Anna University Chennai – 600 025 Phone: 044 – 22350772 E.Mail: pgautam@annauniv.edu	External Members
5.	Dr. M.N Ponnusamy	Emeritus professor, Dept of Crystallography and biophysics	University of Madras, Guindy Campus, Chennai 600 025 Phone: 044 – 22300122 Email: mspy@hotmail.com	External expert
6.	Ms M.Kannika	Process Associate	Dell International Ambattur, Chennai. Phone : 9840431667	Alumni Member
7.	Ms.Abinaya	II Year M.Sc., Bioinformatics	VISTAS P.V. vaithiyalingam Road, pallavaram, Chennai -117	Student Member

All the above listed members attended the meeting and deliberated on the curriculum and syllabus in detail. The curriculum for M.Sc. was modified as per the regulations of UGC. The programme specific alterations or modifications are as follows:

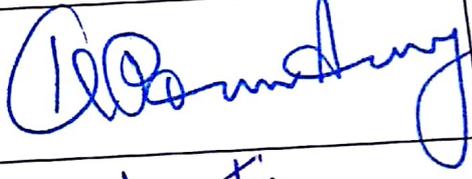
### M.Sc., Bioinformatics:

1. Introducing Choice Based Credit System. Student can select the specific elective courses to earn credits according to their own interest on subjects
2. All the Allied papers are listed as **Discipline Specific Elective Course (DSE)** for three **Semesters (I to III)** with total of 6 credits per semester. All DSE can opt as per students' interest from the list of courses given in the curriculum.
3. Theory papers "Biophysical Chemistry" and "Molecular Cell Biology and Biochemistry" are changed in to DSE courses.
4. Introducing **Generic Elective Courses** (From other disciplines) for three semesters (**I to III**).
5. Communicative Skills are withdrawn for PG programs.

### **Semester III:**

- The syllabus was slightly revised in the core paper:
  1. Molecular Modeling and drug designing- the topics pharmacophore and basic concepts of quantum mechanics theory were included.
  2. Advanced Programming in JAVA – JAVA in application level was altered.
- The syllabus was slightly revised in the Discipline Specific Elective paper:
  1. Structural Bioinformatics – the repetition in topics (databases and docking studies) was removed and HMM was included.

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4.	Dr.P.Gautam	
5.	Dr. M.N Ponnusamy	
6.	Ms M.Kannika	
7.	Ms.Abinaya	