KARPAGAM ACADEMY OF HIGHER EDUCATION
DEPARTMENT OF BIOTECHNOLOGY

MINUTES OF THE MEETING OF BOARD OF STUDIES
2016 – 2017

Minutes of the meeting of Board of studies in Biotechnology held on 28-03-2016 at 10:00am in the Department of Biotechnology, FASH at Karpagam Academy of Higher Education.

Members Present:

1. Dr. M. Manickam (Chair Person Head),

Professor & Head,

Department of Biotechnology,

Karpagam Academy of Higher Education,

Coimbatore 642 021.

2. Dr. D. Teepica Priya Darsini (Member Associate Professor),

Associate Professor,

Department of Biotechnology,

Karpagam Academy of Higher Education,

Coimbatore 641 021.

3. Dr. G. R. Prabu (Member Assistant Professor),

Assistant Professor,

Department of Biotechnology,

Karpagam Academy of Higher Education,

Coimbatore 641 021.

4. Dr. K. K Narayanan Ph.D (External Experts),

Managing Director,

Metahelix Life Sciences Ltd., (CIN: U73100Ka2000PLC028846)

3, KIADB 4th phase, Bommasandra,

Bangalore – 560099, Ph: 9845202721

5. Mr. M. Subhash kumar, (Alumni)
Executive quality controller,
Suguna food private Ltd., Sangaramanullur, N.G. pudur,
Vayalur, Madhathukukum, Tirupur
PH:9995403326,9497287906

6. Ms. Deepa.A (Student representation)
II M.Sc Biotechnology
Department of Biotechnology
Karpagam Academy of Higher Education,
Coimbatore – 641 021

7. Ms. Mathivadhani. S.M (Student representation)
III. B.Sc Biotechnology
Department of Biotechnology
Karpagam Academy of Higher Education, Coimbatore

8. Dr. A. Sangilimuthu,
Assistant Professor,
Department of Biotechnology,
Karpagam Academy of Higher Education,
Coimbatore 641 021.

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft syllabus / syllabi and after detailed discussion the following resolutions were passed.

Agenda: 1
1. To consider and approve the Regulations and Syllabus for **UG (B.Sc., Biotechnology)** programme.

Resolution: 1
1. Resolved to amend the corrections/ modifications and approve the Regulations and Syllabus for **UG (B.Sc., Biotechnology)** programme and it comes into effect from **2016-17** (Approved Regulations and Syllabus given in **Annexure-I**).

Agenda: 2

1. To consider and approve the Regulations and Syllabus for **PG (M.Sc., Biotechnology)** programme.

Resolution: 2

1. Resolved to amend the corrections/ modifications and approve the Regulations and Syllabus for **PG (M.Sc., Biotechnology)** programme and it comes into effect from **2016-17** (Approved Regulations and Syllabus given in **Annexure-II**).

Agenda: 3

1. To consider and approve the Regulations and Syllabus for **M.Phil/Ph.D., Biotechnology** programme.

Resolution: 3

1. Resolved to approve the Regulations and Syllabus for **M.Phil/Ph.D., Biotechnology** programme and it comes into effect from **2016-17** (Approved Regulations and Syllabus given in **Annexure-III**).

The carefully scrutinized the drafted syllabus/syllabi of the following courses.

1. UG Biotechnology
2. PG Biotechnology

Annexure – I

B.Sc (Biotechnology)

The following corrections and suggestions is included in B.Sc (Biotechnology) syllabus (2016-2017)

The expert members have suggested to include the following aspects in the curriculum

In regard to the syllabus for **B.Sc., Biotechnology** programme for the academic year 2016-2017 and based on the feedbacks received from the faculty members, panel members have suggested the following suggestions and corrections to include in the syllabus.

The UG curriculum was followed as per the UGC model curriculum for B.Sc Biotechnology

It includes core courses along with practical's, ability enhancement compulsory papers (AECC), four skill enhancement courses (SEC) and Department Specific Electives (DSE). Apart from this we have included two papers for Language-1. The total number of credits is 140. Choices have been provided with respect to Discipline specific electives and Skill Enhancement Courses.

The UG programme, B.Sc., Biotechnology consists of 65 courses, out of which four are language and other general courses. There is an entire syllabus change as per the UGC guideline. Hence total change 61/61*100 = 100 %.

All the above courses suggested in the UGC model curriculum (except the language courses) are new courses and the students after completion of the course will have a widen knowledge and the practical skills with the ability to get employment in Labs and various concerns.

1. 16BTU101- Biochemistry & metabolism
    - Photosystems – I, II to be included in any of the units
2. Skill Enhancement courses – Theory
    - Bioregulation
    - Bioinstrumentation
    - Livestock development
    - Climate changes

    All the electives can be included. Application oriented papers can be included.
3. Animal Biotechnology (16BTU504A)
    - Animal diseases topic to be included.
4. Environmental Biotechnology (16BTU602B)
    - Waste management topic to be included.

Annexure – II
M.Sc (Biotechnology)

The following corrections and suggestions is included in M.Sc (Biotechnology) syllabus (2016-2017)

The expert members have suggested to include the following aspects in the curriculum and syllabus by matching with the current need of improvement and also the syllabus of all India level competitive examinations.

In regard to the syllabus for **M.Sc., Biotechnology** programme for the academic year 2016-2017 (III, IV semesters) and for the academic year 2015-2016, panel members have suggested the following suggestions and corrections to include in the curriculum and syllabus.

1. Students directed for /to have reading exercises. At PG, UG and assessment required (quiz), GD test.
2. In recombinant DNA technology course (16BTP201), the sequence analysis, SNP, NGS, Gene editing tool CRISPR may be included.
3. In fermentation Technology course (16BTP202), the FPLC, HPLC may include in downstream Process.
4. In – Plant Biotechnology core (16BTP301), 'LIA Protein' included instead of terminator seed technology.
5. Association mapping may be included to Genomic and proteomic course (16BTP304).
6. Haplo types may be included in Genomics and proteomic course suggested by the experts.
7. SYN1, SYN3, and molecular simulation may be in system biology suggested by the experts (16BTP305C).

The existing B.Sc Biotechnology (2014, 2015 batch) & M.Sc Biotechnology (2015 Batch) syllabus reviewed by the experts form that there is no corrections and modification required.

The PG programme, M.Sc., Biotechnology consists of 28 courses. There is a syllabi change in five courses and hence total change 5/28*100 = 17.86 %.

The PG Syllabi has framed and scrutinized with modification has a greater subject knowledge and will be strong in the Basics.

M.Phil/Ph.D., Biotechnology:

There is no change in the M.Phil and Ph.D syllabus.

The meeting came to an end with a vote of thanks by the Chair.

Chair Person.

Head of the Department
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