

D.G.Vaishnav College

Department of Biotechnology

Minutes of Meeting – 05.03.2019

The board of studies meeting was held at our department. Discussion and various recommendations were made regarding the syllabus for both UG and PG curriculum are as follows:

UG syllabus 2019-2020

The following are the changes in the UG Syllabus;

1. The Internal marks from 25 + 75 have been reverted back to 40 + 60.
2. The curriculum has been changed and credits are eventually distributed, except 5th and 6th semester as 2 practical's papers are combined (core practical 5 and 6).

S.No	Subjects	Credits
1.	Core	4
2.	Elective	5
3.	Core Practical's (1-4)	3
4.	Core Practical's (5-6)	4


3. Inclusion of one core paper as there is shortage of core paper

S.No	Semester	Credits	Papers
1.	5 th	4	Industrial Biotechnology

4. Core Paper 7 Microbial bioprocess technology, title of the paper is changed to Bioprocess technology in 5th Semester.
5. Elective Paper is removed as per the BOS comments stating the repetition of the same paper in the PG.

S.No	Semester	Credits	Papers
1.	5 th	3	Pharmaceutical Biotechnology

6. Elective paper- 1a-Marine Biotechnology and 1b-Agricultural Biotechnology been given internal choice for 5th Semester.
7. New Elective paper* included in 6th semester as internal choices for Intellectual property rights, Biosafety and bioethics (2a) and Medical Biotechnology (3a)


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S.No	Semester	Credits	Papers*
1.	6 th	5	Biofertilizer (2b)
2.	6 th	5	Organic farming (3b)

8. Elective Paper 5-Industrial biotechnology is removed in 6th semester and made as a core in 5th semester as suggested by BOS.
9. Two new NME papers has been introduced in the first and second semester

S.No	Semester	Credits	Papers
1.	1 st	2	Biotechnology for society
2.	2 nd	2	Food Science

10. The following papers have been revamped

S.No	Semester	Credits	Papers
1.	2 nd	4	Developmental Biology (Core)
2.	2 nd	4	Chemistry (Allied)

11. All the core and allied practical papers are revised.
12. Even distribution of experiments in all the practical course papers has been made. Few of the experiments have been deleted and few new experiments have been included.
13. Even distribution of references in all subjects.
14. Inclusions:

S.No	Semester	Credits	Papers
1.	5 th	2	Value Education
2.	6 th	1	Extension activity

15. Revision of EVS, 4 credits is reduced to 2 credits.

S.No	Semester	Credits	Papers
1.	4 th	2	Environmental studies

16. Inclusion of objectives, student's outcome and instructional hours in all the papers.
17. As per the suggestions of BOS, NPTEL/MOOCs Courses have to be implemented in the following academic year for certificate course.



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1. Existing curriculum has been revised.
2. A total of 11 core papers (theory) and 7 elective papers with optional choice have been made.
3. Uniform distributions of credits have been included [Core paper- 4 credits & elective paper – 3 credits].

Credits allotment –


Core	4
Elective	3
Project	4
Mini project/Internship	2

4. The Internal marks from 25+75 have been reverted back to 40+60.
5. The elective paper, “Research Methodology, Bioethics & Biostatistics” in the fourth semester has been converted to core paper in the same semester (IV).
6. Choice based option for elective papers have been introduced. The following 7 new elective papers have been included and numbering of each elective paper has been changed and the details are given below.

Sl. No	Semester	New Elective papers included
1.	I	Elective Paper – 1B: Ecology, Evolution and Behavior
2.	I	Elective Paper – 2B: Food technology
3.	II	Elective Paper – 3A: Animal and Plant Physiology
4.	III	Elective Paper – 5A: Nano Biotechnology
5.	III	Elective Paper – 5B: Herbal Technology
6.	IV	Elective Paper – 6B: Forensic Science
7.	IV	Elective Paper – 7B: Clinical Trials

8. The following elective papers have been removed due to repetition as per the suggestion given by the subject experts.

Sl. No	Semester	Elective paper which has been removed
1.	II	Elective Paper-V*: Agricultural Biotechnology
2.	III	Elective Paper –VIII* Medical Biotechnology


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10. The nomenclature of the following core course paper has been changed.

Sl. No	Semester	Name of the existing course paper	Name of the new course paper
1.	I	Core Paper-1: Biochemistry and Biomolecules	Core Paper-1: Biochemistry
2.	I	Core Practical- I a) Biochemistry and Biomolecules	Core Practical- I a) Biochemistry
3.	III	Core Paper- 8: Microbial and Bioprocess Technology	Core Paper- 8: Bioprocess Technology
4.	III	Core Practical- III a) Microbial Bioprocess Technology	Core Practical- III a)Bioprocess Technology

11. The following existing core paper have been revamped and replaced with new course content.

Sl. No	Semester	Name of the revamped course paper
1.	I	Elective Paper 2A: Developmental Biology
2.	II	Elective Paper 3B: Marine Biotechnology
3.	III	Core Paper 10: Environmental Biotechnology

12. Even distribution of experiments in all the practical course papers has been made.

13. The repetition of experiments in the PG practical syllabus has been removed and few new experiments have been included.

14. As per the suggestions of BOS, NPTEL/ MOOCs Courses have to be implemented in the following academic year for certificate course.

15. Course Objective and learning outcome for the core and elective theory papers of the each paper has been included.

16. A total of five references have been mentioned for uniformity of each course paper.

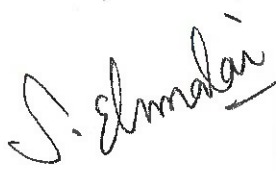
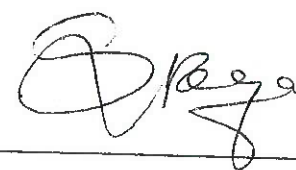
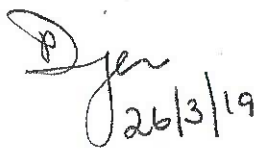
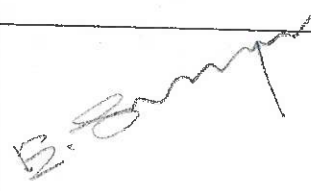
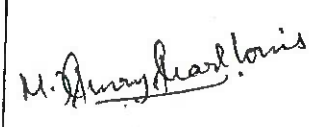
17. Mini project/Internship have been included in the end of second semester (4-6 weeks), credits will be added at 3rd semester

18. Teaching hours have been included for each course papers.

19. Question paper pattern have been enclosed.



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Sl. No	Details of the experts		Signature
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2.	<i>Associate</i> External member 1	Dr. Rega Professor & Head, Department of Biotechnology, KumararaniMeenaMuthiah College, Ph No. 9884722734 Mail Id: sregamicro@gmail.com	
3.	External member 2	Dr. PriyaIyer, Professor & Head PG & Research Department of Biotechnology, Women's Christian college, Ph.No. 9884160910 Mail Id: brajuraj@yahoo.com	 26/3/19
4.	Industrial Expert	Dr. Sahadevan Production Manager- Aachi Masala, Chennai Ph. No. 9500127066 Mail Id: gingeesaga@gmail.com	
5.	PG Alumini	Mr. Henry Pearl Louis, Research scholar, Bioinformatics and Insect Molecular Biology Lab, Department of Genetic Engineering, School of Bioengineering, SRM Institute of science and Technology, Kattankulathur, Kancheepuram District. Ph No. 9894443905 Mail Id: henrypearl58@gmail.com	



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Dr. R. Sumathy	
Dr. T. Yuvarani	
Mrs. S. Mahitha	
Dr. M.D. Balakumaran	
Dr. K. M. Sucharitha	
Ms. K. Nithya	

R. Uma

(Dr. R. Uma)
Head i/c, Department of Biotechnology
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CRITERION 1 - CURRICULAR ASPECTS

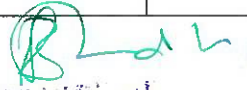
1.1 CURRICULUM DESIGN & DEVELOPMENT

PROGRAMME NAME & CODE : B.Sc (BIOTECHNOLOGY) 12

1.1.2 - LIST OF COURSES FOR WHICH SYLLABUS REVISION HAS BEEN CARRIED OUT AS PER THE APPROVED MINUTES OF THE BOS MEETING HELD ON 5th MARCH 2019

S.No.	SEM ESTE R	Course code	COURSE NAME	OLD / NEW COURSE / SYLLABUS REVISION	YEAR OF INTRODUCTION - SYLLABUS REVISION & NEW COURSE
1	I	16-1912101	Cell biology	Old	-
2	I	16-1912102	Microbiology	Old	-
3	I	1912103	Biotechnology for society	New	2019-2020
4	II	16-1912204	Developmental Biology	Revised	2019-2020
5	II	16-1912205	Chemistry	Revised	2019-2020
6	II	1912206	Food Science	New	2019-2020
7	III	16-1912311	Genetics	Old	-
8	III	16-1912312	Biochemistry	Old	-
9	IV	16-1912413	Genetic Engineering	Old	-
10	IV	16-1912414	Bioanalytics and Biostatistics	Old	-
11	V	16-1912518	Immunology	Old	-
12	V	16-1912519	Bioinformatics	Old	-
13	V	16-1912520	Bioprocess Technology	Revised	2021-2022
15	V	16-1912521	Industrial Biotechnology	Old	-
16	V	16-1912522	Marine Biotechnology	Old	-
17	V	18-1912523	Agricultural Biotechnology	Old	-


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18	VI	16-1912624	Animal Biotechnology and Stem cell biology	Old	-
19	VI	16-1912625	Plant Biotechnology	Old	-
20	VI	16-1912626	Environmental biotechnology	Old	-
22	VI	1912627	Intellectual property rights, Biosafety and bioethics	New	2021-2022
23	VI	1912628	Biofertilizer	New	2021-2022
24	VI	1912629	Medical Biotechnology	New	2021-2022
25	VI	1912630	Organic Farming	New	2021-2022


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