



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE

(Autonomous – Affiliated to the University of Madras)

Gokul Bagh, 833, Periyar E.V.R. High Road, Arumbakkam, Chennai 106

Phone: 044-23635101, 23635102 Fax: 044-23635103

e-mail: principal@dgvaishnavcollege.edu.in

website: www.dgvaishnavcollege.edu.in

Department of Biochemistry

Board of Studies- BSc Biochemistry

Minutes of meeting

The Board of studies meeting for BSc Biochemistry was held on 30.05.2022 at 2.15 PM through virtual mode (G meet)

GMeet link: <https://meet.google.com/tka-smmx-ufu>

At the outset Dr. P.T. Srinivasan, Chairperson, Department of Biochemistry, DDGD Vaishnav college welcome the members of Board of studies. Discussions and various recommendations were made regarding the syllabus for UG Biochemistry curriculum for the academic year 2022-23.

Agendas

1) The common Question paper pattern, given below, (framed for the attainment of PO/CO), will be applicable for students admitted from 2019 batch onwards

The question paper pattern will be in the form of Section A, B and C for 100 marks

Section A (10 x2=20 Marks)

Answer ALL the questions

Q. No 1-10

Section B (5 x7=35 Marks)

Answer ALL the questions

Q. No 11-15 (EITHER OR)

Section C (3 x15=45 marks)

Answer ALL the questions (Q.No.16 is compulsory)

Q. No 17 and 18 (EITHER OR)

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- 2) Continuous Internal assessment CIA comprised for **40 marks** which include CIA I & II (Tests) -**25** marks, CIA III (generic skill)-**10** marks and attendance -**05** marks for the students admitted prior to 2021 batch onwards
- 3) Continuous Internal assessment CIA comprised for **50 marks** which include CIA I & II (Tests) -**30** marks, CIA III (generic skill)-**15 marks** and attendance -**05** marks for the students admitted from **2021 batch onwards**
- 4) As per the academic council members and COE, common question paper pattern will be followed for Continuous internal assessment (CIA I & II) which will be based on Program and course outcome. The questions will be framed on **Bloom's taxonomy** of action verbs. The average of 2 CIA test will be for 30 marks for the students admitted from 2021 batch onwards

CIA I Question paper Pattern K Levels (50 Marks)

CIA 1-CO1,CO2

CIA 2- CO3 ,CO4

CIA3- CO5

Section A(10x1=10 Mark)

Q.N0-1-10 (K1 Level)

Section B (4x5=20Marks)

Q.No.11 K2(Internal choice)

Q.No.12 K2 (Internal choice)

Q.N0.13 K3(Internal choice)

Q.N0.14 K3(Internal choice)

Section C (2X10=30 Marks)

Q.No 15 K4 Compulsory question from I unit

Q.No.16 K4 (Internal choice)

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5) The third component of **CIA-III -Generic skills** based on evaluation of the higher levels of learning .**K3** Apply for UG courses / **K4** Analyse for UG courses .**Internal evaluation methodologies for CIA III adopted** -PPT, Seminar, Group Discussion, e Poster, Chart preparation, Video presentation, Case studies, Online E-material preparation, Manuscript Presentation, Recent advancements related to the course etc

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6)Field work, Internship and projects for UG students implemented for the academic year 2021- 22 and it is followed in the consecutive years.

Internship/Field work (choice)	II Year UG
Project	III Year UG

Members recommended to provide Internship /field work project for II UG students. Students may be given choice to choose either Internship or field work.

7) INTERNSHIP/ FIELD WORK (IV SEM)

Duration- 14 days /2 weeks in Industries, Hospitals and research institution

Evaluation scheme includes 50 marks (CIA 20 & ESE 30 marks) with 2 credits

Mode: Students supposed to submit report.

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8).PROJECT (VI SEM)

a) Project may be individual or a group project with a maximum of three students.

b) In case of group projects, the individual project report of each student should specify the individual's contribution to the group project

Evaluation scheme includes 50 marks (CIA 20 & ESE 30 marks) with 2 credits

Mode of evaluation:

CIA-Periodic reviews and Presentations

ESE- Poster submission and Viva voce

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9) **Recommendation of previous BOS:** Syllabus designed on Choice based credit system (CBCS) and Outcome based education (OBE) is presented and implemented from 2020 batch onwards and the Board members recommended to split and introduce the practical based on theory papers in **semester wise** for academic year (2022-23) and details of the **semester Practicals** mentioned below

S.No	Course category	Semester	Course Name	Overall credits	Marks		
					CIE	ESE	Total marks
Part III	Core Practical	I	Major Practical I Nutritional Biochemistry	2	50	50	100
	Allied	1	Allied Practical I Chemistry-I	2	50	50	100
	Core Practical	II	Major Practical II Cell Biology	2	50	50	100
	Allied	II	Allied Practical II Chemistry-II	2	50	50	100
	Core Practical	III	Major Practical III Chemistry of Biomolecules	2	50	50	100
	Allied Practical	III	Allied Practical III Microbiology I	2	50	50	100
	Core Practical	IV	Major practical IV Biochemical techniques	2	50	50	100
	Allied Practical	IV	Allied practical IV Microbiology II	2	50	50	100
	Core Practical	V	Major Practical V Enzymology & Intermediary metabolism	2	50	50	100
	Core Practical	V	Major Practical VI Molecular biology & Physiology	2	50	50	100
	Core Practical	VI	Major Practical VII- Clinical biochemistry	2	50	50	100
	Core Practical	VI	Major Practical VIII- Bioinformatics and Immunology	2	50	50	100

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10) As per the Recommendation of previous BOS members baskets of value-added course offered for the academic year 2022-23 and the same course offered for the students admitted from 2020 & 2021 batches.

- a) **Ethnomedicine and Herbal Technology**
- b) **Clinical laboratories techniques**
- c) **Essential Bioinformatics Skills**
- d) **Application of r-DNA Technology in Industries**
- e) **Nano-Biotechnology and its Application**
- f) **Bioinstrumentation and its Applications in Lifesciences industry**
- g) **Research Methodology and Scientific writing**

Members recommended to have the course duration for **30 hours** and a certificate to be given to students. It involves both theory and practical sessions. It should be conducted beyond class hours either internally or externally as per UGC norms.

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11. **Open elective course** offered to the Biotechnology department is **Therapeutic Nutrition and First aid** and the open elective course opted from Biotechnology department is **Public health & Hygiene**

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12. Final year UG Projects subjected to Plagiarism check

APPROVED

13. Course outcome of all the courses limited to 5 in number (CO1-CO5) in order to calculate Course outcome attainment(OBE)

14. No specific issues raised in the Course exit survey by students and Faculty feedback of the curriculum. Hence no specific issues needed to be incorporated in the syllabus.



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S.No	Details of the BOS Members		Signature
1	Chairman	Dr.P.T.Srinivasan, Head, Department of Biochemistry DG Vaishnav College Chennai 106	
2	Vice chancellor Nominee	Dr. A.J Vanisree, Professor, Dept of Biochemistry, University of Madras, Maraimalai campus, Chennai-25	
3	Subject Expert 1	Dr.E.P Sabina, Associate Professor Sr, Dept of Biomedical Sciences, Vellore Institute of Technology, Vellore campus	
4	Subject Expert 2	Dr.S.K.M Habeeb, Associate Professor, Department of Genetic Engineering, SRM Institute of Science & Technology, Kattankulathur,	
5	Industrial Expert	Dr.Vasan Samandamurthy , Chief Executive Officer, India Alliance, Hyderabad,	ABSENT
6	Alumni	Dr.Anand, Lab Director, Iris Laboratories & Director, R &D, Hexacare Lifesciences,Chennai.	

Department Faculty members (Internal members)

S.No	Name of the faculty members	Signature
1	Dr.R.Uma, MSc,MPhil,MSc(BI),Phd,SLET	Senior member
2	Dr.D.Saravanan, MSc,MPhil,BEd,PhD	Member
3	Dr.M.Kavitha, MSc,MPhil,BEd,NET,SET,PhD	Member
4	Dr.Ms.Sangeetha Sathyanarayan, MSc,MPhil,SET,MSc(Psychology).PhD	Member
5	Ms.S.Vaidehi, MSc,MPhil,MSc(BI),SET	Member
6	Ms.K.Nagalakshmi, MSc,MPhil,SLET,NET	Member
7	Dr.G.Sriram Prasath,MSc,PhD,NET	Member
8	Ms M. Maria Caroline Rebellow, MSc,MPhil,NET	Member
9	Dr.D.S.Pushpa Rani, MSc,MPhil,MS,PhD	Member
10	Dr.Mr.D.Venkatesh, MSc,MPhil,PhD	Member

Inbox (678) - hod-bio-chemistry: x Meet - DDGDVC-UG & PG B: x +

meet.google.com/ika-smmx-ufu

Dr. R. Uma Asst. Prof. is presenting

The document content is as follows:

council

3.CBCS / OBE / SEM Practicals

4.Courses - Employability, Skill and Entrepreneurship

5.DG-

1 year - Internship: 2 weeks / 2credits

II- Field work

III- Project

6.PG -

1 year - Internship(II sem) - 4 weeks / assessment- viva voce - Marks awarded in III Sem

II - Project

7.VAC:

- 1) Clinical Lab Techniques
- 2) Ethnomedicine & Herbal technology

3) BIOINFORMATICS

Bioinformatics resources and file formats

Sequence analysis, alignment

Phylogenetics

Participants: Habib M, Sabina evan prince, Bio Chemistry Mr. ..., Sriram Prasath, Biochemistry Ms. ..., Anand Duraiswamy, Vani Elango, 4 others, You.

3:07 PM | DDGDVC-UG & PG Biochemistry- BOS - Me...

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DEPARTMENT OF BIOCHEMISTRY

Board of Studies- MSc Biochemistry

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2) Continuous internal assessment CIA comprised for 50 marks which include CIA I& II(Tests) -30 marks, CIA III (generic skill)-15 marks and attendance -05 marks for the students admitted from 2021 batch onwards

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Q.No.11K3(Internal choice)

Q.No.12 K3 (Internal choice)

Q.N0.13 K4(Internal choice)

Q.N0.14 K4(Internal choice)

Section C (2X10=20 Marks)

Q.No 15 K6 Compulsory question from I unit

Q.No.16 K5(Internal choice)

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4) The third component of CIA-III -Generic skills based on **evaluation of the higher levels of learning** for 15 marks.

K5 Evaluate for PG courses/ K6 Create for PG courses

Internal evaluation methodologies for CIA III adopted



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	Core Practical	I	Major Practical II Enzymes and Plant biochemistry	2	50	50	100
	Core Practical	II	Major Practical III Analytical biochemistry & Microbiology	2	50	50	100
	Core Practical	II	Major Practical IV Molecular biology and ,Physiology and Nutrition	2	50	50	100
	Core Practical	III	Major Practical VII- Advanced Clinical Biochemistry	2	50	50	100
	Core Practical	III	Major Practical VIII- Bioinformatics and Immunology	2	50	50	100

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6) As per the Recommendation of previous BOS members baskets of value-added course offered for the academic year 2022-23 and the same course offered for the students admitted from 2021 batch

- a) **Ethnomedicine and Herbal Technology**
- b) **Clinical laboratories techniques**
- c) **Medicinal Plant Bioinformatics & Computer Aided Drug Discovery**
- d) **Emerging trends & development of targeted therapies in Cancer treatment**
- e) **Application of Mammalian Cell Culture in Drug Discovery**
- f) **Molecular Diagnostics – Current applications and Future trends**
- g) **Nano-Biotechnology and its Application**
- h) **Research Methodology and Scientific writing**

Members recommended to have the duration for **30 hours** and a certificate to be given to students. It involves both theory and practical sessions. It should be conducted beyond class hours either internally or externally as per UGC norms.

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7).**Open elective course** offered to the Biotechnology and Microbiology department is

Life style disease and Management and Healthcare management

Open elective course opted from Biotechnology department - **Public health & Hygiene**

Open elective course opted from Microbiology department -**Biofertilizer Technology and Organic Farming**

APPROVED

8) Final year PG Projects subjected to Plagiarism check **APPROVED**

9) Course out come of all the courses limited to 5 in number (CO1-CO5) in order to calculate Course outcome attainment(OBE)

10).No specific issues raised in the Course exit survey by students and Faculty feedback of the curriculum. Hence no specific issues needed to be incorporated in the syllabus.



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1	Chairman	Dr.P.T.Srinivasan, Head, Department of Biochemistry DG Vaishnav College Chennai 106	
2	Vice chancellor Nominee	Dr. A.J Vanisree, Professor, Dept of Biochemistry, University of Madras, Maraimalai campus, Chennai-25	
3	Subject Expert 1	Dr.E.P Sabina, Associate Professor Sr, Dept of Biomedical Sciences, Vellore Institute of Technology, Vellore campus	
4	Subject Expert 2	Dr.S.K.M Habeeb, Associate Professor, Department of Genetic Engineering, SRM Institute of Science & Technology, Kattankulathur,	
5	Industrial Expert	Dr.Vasan Samandamurthy , Chief Executive Officer, India Alliance, Hyderabad,	ABSENT
6	Alumni	Dr.Anand, Lab Director, Iris Laboratories & Director, R &D, Hexacare Lifesciences,Chennai.	

Department Faculty members (Internal members)

S.No	Name of the faculty members	Signature
1	Dr.R.Uma, MSc,MPhil,MSc(BI),Phd,SLET	Senior member
2	Dr.D.Saravanan, MSc,MPhil,BEd,PhD	Member
3	Dr.M.Kavitha, MSc,MPhil,BEd,NET,SET,PhD	Member
4	Dr.Ms.Sangeetha Sathyanarayan, MSc,MPhil,SET,MSc(Psychology).PhD	Member
5	Ms.S.Vaidehi, MSc,MPhil,MSc(BI),SET	Member
6	Ms.K.Nagalakshmi, MSc,MPhil,SLET,NET	Member
7	Dr.G.Sriram Prasath,MSc,PhD,NET	Member
8	Ms M. Maria Caroline Rebellow, MSc,MPhil,NET	Member
9	Dr.D.S.Pushpa Rani, MSc,MPhil,MS,PhD	Member
10	Dr.Mr.D.Venkatesh, MSc,MPhil,PhD	Member

