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Web: www.dsu.edu.in

Ref: DSU/REG/2020-21/63

Date:

03.10.2020

NOTIFICATION

Sub: Re-constitution of Board of Studies for the Bachelor of Science (BSc) and Master of Sciences (MSc) under School of Basic and Applied Sciences - Dayananda Sagar University, Bengaluru.

In supersession of previous notification in this regard vide; No. DSU/2018-19/BOS dt 22.05.2018 and in accordance with Section 22(vi), 28 and 32(i) of the Dayananda Sagar University Act 2012, the Vice Chancellor is pleased to re-constitute the Board of Studies for the Bachelor of Science (BSc) and Master of Sciences (MSc) under School of Basic and Applied Sciences of Dayananda Sagar University, Bengaluru comprising of following:

Board of Studies in School of School of Basic and Applied Sciences - BSc/MSc

Sl.No	Name	Affiliation & Contact details	Designation
1	Dr. Sunil S More	Professor & Dean, School of Basic & Applied Sciences, Dayananda Sagar University Email Id: drsunil-sbas@dsu.edu.in Mobile No: 9481787729	Chairperson
2	Dr. Harish Pai	Associate Director, Research Development, BIOCON, Bengaluru Email Id:harishvpai@gmail.com Mobile No - 9902161509	Member
3	Dr. Sundaram P M	Product Manager, Biopharma Waters India Pvt Ltd., Bengaluru Email Id:hisundarji@gmail.com Mobile:7619500273	Member
4	Dr. P Kondaiah	Professor, Dept of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bengaluru Email Id:paturu@mrdg.iisc.ernet.in Contact No:080-293 2688	Member
5	Dr Manjunath K	Professor. Dept of Post Graduate Studies in Boitechonology & Microbiology, BU Email Id:ushamanjunath58@rediffmail.com Mobile:9611434966	Member
6	Dr.Rita Christopher	Professor & Head Dept of Neurochemistry, National Insitute of Mental Health and Neuro Sciences, Bengaluru Email Id: rita@nimhans.kar.nic.in Contact No:080-26995163 /62	
7	Dr. Sidhalingamurthy	Professor, Dept of Biochemistry, Bangalore University Email Id:krsmurhty2001@yahoo.com Contact No:080-22961349	

Contd.

8	Dr. Girish K	Professor & Chairman, Dept of Biochemistry, Tumkur University,	Member
		Email Id:ksgbaboo@gmail.com Mobile:9964080540	
9	Dr.Anirudha Lakshminarasimhan	Senior Scientist, Tata Institute of Genetics & Society, Bengaluru Email	Member
		ld:anirudha.lashminarasimhan@gmail.com Mobile:9980757821	
10	Dr Shilpa B M	Asst Professor, School of Basic & Applied Science, Dayananda Sagar University	
11	Dr Suswetha Das	Asst Professor, School of Basic & Applied Science, Dayananda Sagar University	
12	Dr. Nagaraju N	HOD & Assoicate Professor, Dept of Chemistry, St Joseph College (Autonomous), Bengaluru Email Id:nagarajun@yahoo.com	

The term of the Board shall be Three (3) years from the date of this notification or till reconstitution.

The Board shall follow the guidelines stipulated by the university, from time to time, in all academic issues to be decided by it.

To, The Concerned

Dr. Puttamadappa 6.

Registrar

Dayananda Sagar University

CC:PS to VC / CFO / CIO / COE / The concerned Dean/Principal, DSU





Syllabus revision of BSc and MSc programs and aproval of MSc in Human Geneticsthe

8 messages

Dr. Sunil S <drsunil@dsu.edu.in>

Thu, Jul 16, 2020 at 11:50 AM

To: harishvpai@gmail.com, hisundarji@gmail.com, paturu@mrdg.iisc.ernet.in, ushamanjunath58@rediffmail.com, rita@nimhans.kar.nic.in, krsmurthy2001@yahoo.com, ksgbaboo@gmail.com, anirudha lakshminarasimhan anirudha.lakshminarasimhan@gmail.com>, rpais@dsu.edu.in, Archana S Rao <archanasrao@dsu.edu.in>

Dr Sunil S. More, Professor and Dean, School of Basic and Applied Sciences, Dayananda Sagar University

July 15, 2020

Respected Board of Studies Members

Sub: Approval for the reframed B.Sc.-M.Sc. course matrix and syllabus

Greetings from Dayananda Sagar University,

Due to the present pandemic situation, we are unable to organize BOS meeting in our college premises. Regretting this, we are here with approaching you for your valuable inputs on the curriculum. The following are some of the key areas, from syllabus, that we would be profoundly grateful if you would give us your valued feedback on:

1. Nonetheless, following directions from our new honorable Vice Chancellor, we were instructed to revise the curriculum structure across all the courses in the School of Basic and Applied Sciences (SBAS), DSU. We have therefore reframed the course matrix without making significant alterations to the course content. But we have accommodated a project component, along with a research methodology paper, in the final semester of our UG programs as per instructions. It is therefore our humble request to our esteemed BOS members to kindly give us the quintessential inputs for the course matrix, and thereby guide us towards making the necessary improvisations, if any.

2. As per the new course matrix, BSc 1st year syllabus has been made with minor changes in the approved syllabus of 19-20 scheme. Hence it is requested to give the inputs and with no change

suggested, kindly approve the same.

3. As per guidelines from our honorable Vice Chancellor, and the academic experts of DSU, we are required to implement a 60 CIA (internal) and 40 SEE (external) scheme across all disciplines of DSU. Hence, the existing 2nd year syllabus of B.Sc., which was approved in the last BOS meeting, held during February 2020, has been changed over so slightly in the course matrix. We would like to bring the afore said to your kind notice and appreciate if you would endorse the same. Kindly note, that the existing final year syllabus has not been changed.

4. The above scheme of 60:40, holds in good stead with the P.G programs too. Hence a minor change in course matrix has been done, without altering anything in the syllabus across all the

three PG courses. We request your approval on the same.

5. The Govt. of Karnataka and higher education council has allocated more P.G seats to SBAS, DSU. Consequentially, the management has decided to start M.Sc. in Human Genetics from this year onwards. The course matrix of the same for all the four semesters is submitted herewith. We look forward to your necessary inputs and kind consent.

6. Please refer to the attached syllabus for M.Sc. in Human Genetics. As with our other 2019-20 syllabus, the first year's syllabus is common. The second semester however includes 2 core

papers which are provided in annexure. Kindly suggest and approve.

simultaneously with the regular B.Sc. program. The basic premise for such an initiation is that this program will attract students from disciplines across DSU, enabling them to gain extra knowledge along with their regular degrees.

However, this will not be offered to our own students. It is intended to be a weekend program that will be spread across 4 semesters bearing 18 credits, as a minor degree upon a separate

registration.

8. We are also including short certificate courses for B.Sc. Biological Science students to sharpen their skills in some of the allied subjects. This is also being proposed with the new BSc scheme. The short course will entail a 20hours of theory followed by evaluation. This will be offered across all the semesters (1-5) for our new BSc scheme. Kindly go through the contents and give us your inputs and approval.

It again goes without saying that truly appreciate your valued input and counsel in improving the curriculum of SBAS, DSU. Thank you for the constant support and guidance.

Kindly give your feedback by July 21, 2020 so that we can incorporate the suggestions accordingly and submit before academic council.

Thanking again for your valuable time and great association with DSU.

ATTACHMENTS:

ANNEXURE 1 - New BSc Course Matrix and Syllabus

ANNEXURE 2 – BSc Course Matrix (2019-2020 Scheme)

ANNEXURE 3 – MSc Course Matrix (2019-2020 Scheme)

ANNEXURE 4 - MSc HumanGenetics Course Matrix and 1st year syllabus

ANNEXURE 5 – Minor Degree Courses

5A - Bioinformatics

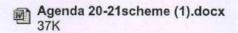
5B - Molecular Biotechnology

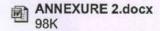
5C - Food Science

ANNEXURE 6 - Short term certificate courses

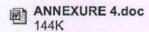
Thanks and Regards, Dr. Sunil S. More, Professor and Dean, School of Basic and Applied Sciences, Dayananada Sagar University, Shavige Malleshawara Hills, Kumaraswamy Layout,Bangalore-560078 Mob:9481787729,8073246552 Office: 080- 42161772, 080-42161620.

9 attachments

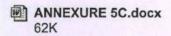


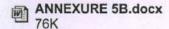


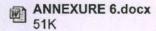
ANNEXURE 3 (1).docx



ANNEXURE 1.docx







anirudha lakshminarasimhan <anirudha.lakshminarasimhan@gmail.com> To: "Dr. Sunil S" <drsunil@dsu.edu.in>

Thu, Jul 16, 2020 at 3:50 PM

Sure Sunil. I will go through it and get back to you.

Thanks and Regards, Anirudha [Quoted text hidden]

Dr.Rita Christopher <rita@nimhans.ac.in> To: drsunil@dsu.edu.in

Thu, Jul 16, 2020 at 2:21 PM

Dear Sir

Thank you for your email regarding syllabus for BSc and MSc Human Genetics programs. I have made some minor changes in the Module 2 of 20MHG5202, related to Inborn Errors of Metabolism

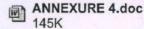
I approve the rest of the syllabus
I have attached the corrected version

With best regards

Dr Rita Christopher
Dean of Faculty (Basic Sciences) &
Professor, Department of Neurochemistry
National Institute of Mental Health & Neuro Sciences (NIMHANS)
Bengaluru - 560029, India
Tel: 91-80-26995163

Fax: 91-80-26564830 [Quoted text hidden]

[Quoted text hidden]



anirudha lakshminarasimhan <anirudha.lakshminarasimhan@gmail.com> To: "Dr. Sunil S" <drsunil@dsu.edu.in> Tue, Jul 21, 2020 at 6:57 PM

Dear Dr. Sunil More,

This is to indicate my approval for the reframed Bsc and Msc course matrix and syllabus,

Thanks and Regards,

Anirudha Lakshminarasimhan Tata Institute for Genetics and Society, India

[Quoted text hidden]

<anirudha.lakshminarasimhan@gmail.com>, rpais@dsu.edu.in, Archana S Rao <archanasrao@dsu.edu.in>

Dear Dr. Sunil,

Apologies for the delay. The reframed B.Sc and M.Sc course matrix and syllabus looks good. Approved from my end.

Regards, Sundaram Merck Life Science Pvt Bangalore.

On Thu, Jul 16, 2020 at 11:51 AM Dr. Sunil S <drsunil@dsu.edu.in> wrote: [Quoted text hidden]

Girish Kesturu <ksgbaboo@gmail.com> To: "Dr. Sunil S" <drsunil@dsu.edu.in>

Wed, Jul 22, 2020 at 3:39 PM

Dear Sir, I have gone through the syllabus and didn't find anything for modification. Therefore, I am approving the same. Sorry for the delay.

With warm regards

Girish

[Quoted text hidden]

Paturu Kondaiah <paturu@alum.iisc.ac.in>
To: "Dr. Sunil S" <drsunil@dsu.edu.in>

Wed, Jul 22, 2020 at 4:55 PM

Dear Dr Sunil

Sorry for the delay in my response. This mail was delivered to "junk folder" and hence did not see. The changes are fine. I wish a presentation was made to appreciate the modifications. But due to the prevailing circumstances this is

Best wishes Kondaiah

(Please note the change in my E-mail ID)

Paturu Kondaiah, PhD, FNA
INSA Senior Scientist
Dept. of Molecular Reproduction, Development and Genetics
Biological Sciences Bldg. GB-01
Indian Institute of Science
Bangalore - 560012, India
E-mail: paturu@alum.iisc.ac.in
Tel: 91-80-22932688; FAX: 91-80-23600999

From: Dr. Sunil S <drsunil@dsu.edu.in>

Sent: 16 July 2020 11:50

To: harishvpai@gmail.com <harishvpai@gmail.com>; hisundarji@gmail.com <hisundarji@gmail.com>; Paturu Kondaiah <paturu@alum.iisc.ac.in>; ushamanjunath58@rediffmail.com <ushamanjunath58@rediffmail.com>; rita@nimhans.kar.nic.in <rita@nimhans.kar.nic.in>; krsmurthy2001@yahoo.com <krsmurthy2001@yahoo.com>; ksgbaboo@gmail.com <ksgbaboo@gmail.com>; anirudha lakshminarasimhan <anirudha.lakshminarasimhan@gmail.com>; rpais@dsu.edu.in <rp>; Archana S Rao <archanasrao@dsu.edu.in> Subject: Syllabus revision of BSc and MSc programs and aproval of MSc in Human Geneticsthe

External Email
[Quoted text hidden]

Cc: hisundarji@gmail.com, paturu@mrdg.iisc.ernet.in, ushamanjunath58@rediffmail.com, rita@nimhans.kar.nic.in, krsmurthy2001@yahoo.com, ksgbaboo@gmail.com, anirudha lakshminarasimhan <anirudha.lakshminarasimhan@gmail.com>, rpais@dsu.edu.in, Archana S Rao <archanasrao@dsu.edu.in>

Dear Dr. Sunil,

Kindly excuse for the delay from my side. I am in agreement with the reframed B.Sc and M.Sc course matrix and syllabus. You may consider it approved from my end.

Thanks, Harish [Quoted text hidden]



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE: BOARD OF STUDIES MEETING, DSU

DATE: 15-07-2020

AGENDA OF THE MEETING:

1. Proposing new course matrix scheme for all six semesters of BSc as per choice based credit system (CBCS) guidelines

2. Approval of 1st year BSc syllabus as per new course matrix

3. Minor changes in the course matrix of BSc (2019-2020 scheme) in CIA: SEE (from 50:50 to

4. Minor changes in the course matrix of MSc (2019-2020 scheme) in CIA: SEE (from 50:50 to 60:40 scheme)

5. Approval for new MSc programme - MSc Genetics course matrix

6. Approval for 1st year syllabus for MSc Genetics

7. Approval for minor degree (Bioinformatics, Molecular Biotechnology, Food Science)

8. Approval for short term certificate courses

1. Dr. Sunil More Chairman - B.O.S. Dean - SBAS, DayanandaSagar University, Bangalore.

2. Dr. Harish Pai External Member, Associate Director, Research & Development, Biocon, Bangalore Ph: 9902161509 Email: harishvpai@gmail.com

3. DrSundaram P M Product Manager Biopharma, Waters India Pvt Ltd. Peenya Industrial Area, Bengaluru Ph: 7619500273 Email: hisundarji@gmail.com

4. Dr. P Kondaiah

Professor, Dept of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore 080-293 2688 paturu@mrdg.iisc.ernet.in

5. Dr. Manjunath K

External Member,

Prof., Dept. of Post- Graduate Studies in Biotechnology & Microbiology,

Bangalore University

Ph: 9611434966

Email: Ushamanjunath58@rediffmail.com

6. Dr. Rita Christopher

External Member,

Professor and Head, Department of Neurochemistry,

National Institute of Mental Health and Neuro Sciences,

Bengaluru

Ph: 080-26995163/62

Email: rita@nimhans.kar.nic.in

7. Dr. Sidhalingamurthy

External Member,

Professor, Dept of Biochemistry, Bangalore University,

Bangalore

Ph: 080-22961349, 9845655197

Email: krsmurthy2001@yahoo.com

8. Dr Girish S K

Professor and Chairman

Department of Biochemistry

TumkurUniversity, BH Road

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Ph: 9964080540

Email: ksgbaboo@gmail.com

9. DrAnirudhaLakshminarasimhan

Senior scientist

Tata Institute for Genetics and Society.

Rajiv Gandhi Nagar

Kodigehalli, Bengaluru

Karnataka 65

Phone: 9980757821

Email: anirudha.lakshminarasimhan@gmail.com

10. Dr. Roshan K. Pais

Internal Member

Assistant Professor

Department of Biotechnology School of Basic and applied Sciences DSU, Bangalore rpais@dsu.edu.in

11. Dr. Archana S. Rao
Internal Member
Assistant Professor
Department of Biotechnology
School of Basic and applied Sciences
DSU, Bangalore
archanasrao@dsu.edu.in

Proceedings of the B.O.S Meeting Dayananda Sagar University, held on 15.07.2020

Due to the present pandemic situation, it was not possible to hold the BOS meeting in the campus. The revised course matrix and syllabus for BSc and MSc, newly formed syllabus of MSc (Genetics), minor degree and certificate courses were sent to BOS members via email for their valuable inputs, providing them with a weeks' time. All the members have suggested no changes in the proposed syllabus, barring one minor change which is mentioned below:

Annexure 4:

Module 2: Inborn Errors of Metabolism

In disorders of aminoacid metabolism – Oculocutaneous albinism is replaced with Maple Syrup Urine Disease (as suggested by Dr. Rita Christopher).

I thank all the BOS members, for investing valuable time and giving constructive inputs in our new curriculum development. In spite of the difficulties of present pandemic situation the timely completion of the assignment is very much appreciated.

Date:23-07-2020

Place:Bangalore

Chairman BOS

Dr. Sunil S More
Professor & Dean
School of Basic & Applied Sciences,
Dayananda Sagar University,
K, S. Layout, Bengaluru-78



DAYANANDA SAGAR UNIVERSITY School of Basic and Applied Sciences, Kumaraswamy Layout, Bangalore-560 111.

Documentation Title: 7th Board of Studies Meeting of B.Sc and M.Sc, DSU

Date:

22.02.2020

Time:

9:30 A.M to 1:00 P.M

Venue:

Board Room, CIL, Dr. CD Sagar, Centre for Life Sciences

Members Present:

Sl.Nos.	Name of the members	Designation	Signature
1	Dr. Sunil S More	Chairman	V22/02/2020
2	Dr. Manjunath K	External Member	ABSENT
3	Dr. Sidhalingamurthy	External Member	Mrs.
4	Dr. Anirudha Lakshminarasimhan	External Member	A
5	Dr. Harish Pai	External Member	You
6	Dr. Sundaram P.M	External Member	Judnam
7	Dr. Girish S K	External Member	einstel
8	Dr. Nagaraju. N	External Member	ABSENT
9	Dr. P Kondaiah	External Member	Merlei
10	Dr. Rita Christopher	External Member	Chillephis
11	Dr. Shilpa B M	Internal Member	John H
12	Dr. Susweta Das	Internal Member	Junita 2020



DAYANANDA SAGAR UNIVERSITY School of Basic and Applied Sciences, Kumaraswamy Layout, Bangalore-560 111.

Documentation Title: 7th Board of Studies Meeting of B.Sc and M.Sc, DSU

Date:

22.02.2020

Time:

9:30 A.M to 1:00 P.M

Venue:

Board Room, CIL, Dr. CD Sagar, Centre for Life Sciences

Members Present:

Sl.Nos.	Name of the members	Designation	Signature
1	Dr. Sunil S More	Chairman	122/02/2020
. 2	Dr. Manjunath K	External Member	ABSENT
3	Dr. Sidhalingamurthy	External Member	Pring.
4	Dr. Anirudha Lakshminarasimhan	External Member	A
5	Dr. Harish Pai	External Member	poj.
6	Dr. Sundaram P.M	External Member	Judanen.
7	Dr. Girish S K	External Member	Brish
8	Dr. Nagaraju. N	External Member	Absent
9	Dr. P Kondaiah	External Member	Illulaia
10	Dr. Rita Christopher	External Member	Ruballe
11	Dr. Shilpa B M	Internal Member	Jabon .
12	Dr. Susweta Das	Internal Member	Jumata 202 202



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE: 7th BOARD OF STUDIES MEETING of B.Sc. and M.Sc., DSU

DATE: 22.02.2020

TIME: 9: 30 AM TO 1:00PM

VENUE: BOARD ROOM, CIL, Dr. C.D. SAGAR CENTRE FOR LIFE SCIENCES.

AGENDA OF THE MEETING:

- 1. Approval of 2nd year B.Sc. syllabus as per CBCS.
- 2. Approval of 2nd year M.Sc. syllabus as per CBCS.
- Approval for the change of course title "Food and Industrial Microbiology (19MMB5302)" to "Industrial, Food and Dairy Microbiology" and to retain the same course code.
- 4. Any other concerning matter, with the permission of the Chairman.

Dr. Sunil S More
Professor & Dean
School of Basic & Applied Sciences,
Dayananda Sagar University,
K. S. Layout, Bengaluru-78.



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc. and M.Sc., School of Basic and Applied Sciences, DSU

DATE: 24/04/2021 TIME: 9.30 AM

VENUE: Online through zoom link

AGENDA OF THE MEETING:

- Proposing new course matrix scheme for BSc (Applied Biology) four years program as per choice-based credit system (CBCS) guidelines.
- Approval for 1st year BSc syllabus as per new course matrix for the new BSc Applied Biology program.
- 3. Approval for BSc 2nd year syllabus (3rd and 4th semester) as per course matrix for the 2020-2021 batch.
- 4. Approval for BSc 3rd year syllabus (5th and 6th semester) as per course matrix for the 2019-2020 batch.
- 5. Change of elective paper from Industrial Biotechnology to Clinical Toxicology in course matrix of BSc 6th semester for 2019-20 Batch.
- 6. MSc Human Genetics Approval for 2nd year syllabus.
- 7. Any other matter with the permission of Chair.

BOS MEMBERS:

- 1. Dr. Sunil More
 Chairman B.O.S.
 Dean SBAS,
 Dayananda Sagar University,
 Bengaluru.
- 2. Dr. Harish Pai
 External Member,
 Associate Director,
 Research & Development, Biocon,

Bengaluru.

Ph: 9902161509

Email: harishvpai@gmail.com

Dr Sundaram P M 3.

Product Manager

Biopharma, Waters India Pvt Ltd.

Peenya Industrial Area.

Bengaluru

Ph: 7619500273

Email: hisundarji@gmail.com

4. Dr. P Kondajah

Professor, Dept of Molecular Reproduction, Development and Genetics, Indian Institute of Science.

Bengaluru.

080-293 2688

paturu@mrdg.iisc.ernet.in

Dr. Manjunath K 5.

External Member,

Professor

Dept. of Post- Graduate Studies in Biotechnology & Microbiology,

Bangalore University

Ph: 9611434966

Email: Ushamanjunath58@rediffmail.com

6. Dr. Rita Christopher

External Member,

Professor and Head, Department of Neurochemistry,

National Institute of Mental Health and Neuro Sciences,

Bengaluru

Ph: 080-26995163/62

Email: rita@nimhans.kar.nic.in

Dr. Sidhalingamurthy 7.

External Member,

Professor, Dept of Biochemistry.

Bangalore University.

Bengaluru.

Ph: 080-22961349, 9845655197

Email: krsmurthy2001@yahoo.com

8. Dr Girish S K

Professor and Chairman

Department of Biochemistry

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BH Road

Tumkuru, Karnataka- 572103

Ph: 9964080540

Email: ksgbaboo@gmail.com

9. Dr Anirudha Lakshminarasimhan

Senior scientist

Tata Institute for Genetics and Society.

Rajiv Gandhi Nagar

Kodigehalli,

Bengaluru

Karnataka 65

Phone: 9980757821

Email: anirudha.lakshminarasimhan@gmail.com

10. Dr. Dinesh M Gowda

Internal Member

Assistant Professor

Department of Genetics.

School of Basic and applied Sciences

DSU, Bangalore

dineshmgowda1@gmail.com

11. Dr. Manjula N G

Internal Member

Assistant Professor

Department of Microbiology.

School of Basic and applied Sciences

DSU, Bangalore.

manjulang-sbas@dsu.edu.in

Name of the BOS Member - PRESENT

- 1. Dr. Sunil More
- 2. Dr. P Kondaiah
- Dr. Harish Pai
- 4. Dr. Sundaram P M
- 5. Dr. Manjunath K
- 6. Dr Girish S K
- 7. Dr. Anirudha Lakshminarasimhan
- 8. Dr. Dinesh M Gowda
- 9. Dr. Manjula N G

Name of the BOS Member - ABSENTEES

- 1. Dr. Sidhalingamurthy
- 2. Dr. Rita Christopher



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc. and M.Sc., School of Basic and Applied Sciences, DSU

DATE: 24/04/2021 **TIME**: 9.30 AM

VENUE: Online Meeting, through zoom link

Members present:

Sl.	Name of members	Designation	Signature
No			
1	Dr. Sunil More	Chairman	
2	Dr. P Kondaiah	External member	
3	Dr. Harish Pai	External member	
4	Dr. Sundaram P M	External member	
5	Dr. Manjunath K	External member	
6	Dr Girish S K	External member	
7	Dr. Anirudha Lakshminarasimhan	External member	
8	Dr. Dinesh M Gowda	Internal member	
9	Dr. Manjula N G	Internal member	

Proceedings of the B.O.S Meeting Dayananda Sagar University, held on 24.04.2021

Due to the present pandemic situation, it was not possible to hold the BOS meeting in the campus. The meeting was held through virtual meet. The revised syllabus for BSc 2019-2020 (5th and 6th semester), BSc 2020-2021 (3rd and 4th semester), MSc (Genetics) syllabus for 2nd year, certificate courses and Course matrix for New BSc 4 years Program (Applied Biology) was sent to the BOS members via email for their kind perusal.

- The Board of studies meet was conducted virtually through zoom link on 24.04.2021 from 9.30 am.
- The Chairman, Dr Sunil S More welcomed all the members of the board and initiated the meeting.
- The agenda of the current meeting was briefed by the Chairman.
- Board Members took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.
- The course matrix needs to be revised and therefore the syllabus has been kept for further consideration.

AGENDA I: Approval for BSc 2nd year syllabus (3rd and 4th semester) as per course matrix for the 2020-2021 batch. (ANNEXURE 1)

- A comprehensive syllabus was presented before the BOS members during the online meet.
- After detailed deliberation, BOS members suggested few changes in the papers. APPLIED GENETICS (20GN2401) for 2nd year (4th semester) has been revised as per the suggestions given by the members. The Module 2, now includes both animal and plant tissue culture concepts as earlier version had only on plant tissue culture.
- Module 4 has been renamed from "Genetics in Medical and Industry" to
 "Genetics in medical and Industrial Biotechnology".
- TECHNIQUES IN rDNA TECHNOLOGY-LAB (20BT2371): Practical were fine-tuned with the suggestions given by BOS members. Where in, the word "chemical" has been deleted from the practical component like chemically competent cells and chemical transformation.

AGENDA II: Approval for BSc 3rd year syllabus (5th and 6th semester) as per course matrix for the 2019-2020 batch. (ANNEXURE 2)

- For the 6th Semester paper 19GN3601 APPLIED GENETICS AND GENOMICS that was presented during the meet was asked to modify with respect to the Module 4. As per the suggestions given, the module 4 includes a component on Proteomics.
- Elective paper II in 6th Semester, MATERIAL SCIENCE (190E3602) was advised to change the Title from "Material Science to INDUSTRIAL MATERIALS (190E3602)". Since, the latter denoted the subject as vast area the title has been changed on the advice of the BOS members as INDUSTRIAL MATERIALS (190E3602).
- Elective paper I in 5th Semester, Health and Diseases (190E3502)
 has been revised as per the suggestions.

AGENDA III: Change of elective paper from Industrial Biotechnology to Principles of Clinical Toxicology (190E3601) in course matrix of BSc 6th semester for 2019-20 Batch.

- As per the course matrix the subject Industrial Biotechnology reflected the syllabus almost similar to Fermentation technology (190E3601).
- Hence, with the permission and after the syllabus approval the paper has been approved for PRINCIPLES OF CLINICAL TOXICOLOGY-190E3601 for 6th semester instead of Fermentation technology.
- BOS members also suggested to include the Eligibility criteria for the open electives.
- Eligibility criteria for PRINCIPLES OF CLINICAL TOXICOLOGY-(190E3601) is open to students who have a course of Animal and Clinical Physiology.

AGENDA IV: MSc Human Genetics - Approval for 2nd year syllabus. (ANNEXURE 3)

BOS members suggested to modify the paper "20MHG5371-LABORATORY EXERCISE IN MEDICAL AND CANCER GENETICS". It was advised by the members to delete the 4th experiment-"Isolation of mRNA by triazole method." The necessary changes have been made as per suggestions.

- Title of elective paper "20MHG5322-HUMAN BEHAVIORAL AND REPRODUCTIVE GENETICS" was suggested to change as "DEVELOPMENTAL AND REPRODUCTIVE GENETICS" (20MHG5322)". The title and two modules of the syllabus for the same has been modified as per the suggestions received from the BOS members.
- Title of 4th module of the paper "DEVELOPMENTAL AND REPRODUCTIVE GENETICS" has been modified as per the suggestions of the BOS members as "GENETICS OF INFERTILITY AND ASSISTED REPRODUCTIVE TECHNIQUES" instead of "GENETICS OF INFERTILITY AND REPRODUCTIVE OPTIONS".

AGENDA V: Any other matter with the permission of Chair.

• FERMENTATION TECHNOLOGY (19BT3601) BSc -2019, 6th Semester.

The module has been added with the heading as follows.

Module 1: Introduction to fermentation technology as heading.

• INDUSTRIAL, FOOD AND DAIRY MICROBIOLOGY (20MB2401)
BSc-2020, 4th Semester.

Approval for the change of course title from Food and Industrial Microbiology (20MB2401) to "Industrial, Food and Dairy Microbiology (20MB2401) and to retain the same course code.

 Short certificate courses were approved by the BOS members after revising the number of hours to be increased to 30 hours.

AGENDA VI: New proposed course matrix scheme for BSc (Applied Biology).

(ANNEXURE 4)

- The four years program as per choice-based credit system (CBCS) guidelines was discussed with the Board of members.
- Committee members suggested that there is a need for further detailed deliberation with respect to the course matrix pertaining to addition of Basics and taking in consideration with other departments.
- BOS members also suggested that the similar core subjects can be planned simultaneously with the other BSc programs.
- Members suggested to add Project I and Project II in the 7th and 8th semesters instead of Dissertation/Minor project.

AGENDA VII: Approval for 1st year BSc syllabus as per new course matrix for the new BSc Applied Biology program.

- The course matrix needs to be revised and therefore the syllabus has been kept for further consideration.
- With respect to this in coming weeks we plan to hold a meeting for reviving the Course matrix and the Syllabus for 1st year.
- Hence, the New program needs few more discussions and meetings to make the course and syllabus better for the New BSc 4 years program.

We, thank all the BOS members, for investing their valuable time and giving constructive inputs for the curriculum development. In spite of all the difficulties in this present pandemic situation the timely completion of the assignment is very much appreciated.

Date:24-04-2021 Place: Bangalore

Chairman BOS

Dr. Sunil S More
Professor & Dean
School of Basic & Applied Sciences
Dayananda Sagar University.
K. S. Layout, Bengaluru-782



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE: 'Board of Studies Meeting' regarding, B.Sc. Program and the approval of new B.Sc. HONS. Program (complied with UGC guidelines), School of Basic and Applied Sciences, DSU

DATE: 28-05-2022 **TIME**: 9.30 AM

VENUE: CD Sagar building #10, 4th Floor, CIL Hall, KS Layout, Banashankari

II stage, Bengaluru-560 111

AGENDA OF THE MEETING:

- 1. Approval for the implementation of new B.Sc. HONS. four year degree program, complied with UGC- guidelines with an exit option every year, including approval of the course matrix and syllabi for first three semesters for the same.
- 2. Approval for BSc 3rd year syllabus (5th and 6th semester) as per course matrix for the 2020-2021 batch.
- 3. Fine tuning in course matrix of 5th and 6th semester for the 2020-2021 batch.
- 4. Fine tuning in existing M.Sc. syllabus
- 5. Discussion on Feedback about curriculum from stakeholders

BOS MEMBERS:

- Dr. Sunil More
 Chairman B.O.S.
 Dean SBAS,
 Dayananda Sagar University,
 Bengaluru.
- Dr. P Kondaiah
 Professor, Dept of Molecular Reproduction, Development and Genetics, Indian Institute of Science.
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3. Dr. Manjunath K

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Professor

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4. Dr. Rita Christopher

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Professor and Head, Department of Neurochemistry, National Institute of Mental Health and Neuro Sciences.

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External Member.

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9. Dr Sundaram P M

Product Manager

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Peenya Industrial Area.

Bengaluru

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10. Prof. G.A Ravishankar

Special Invitee

Vice President R&D Life Sciences

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11. Dr. Ganapati G Bhat

Internal Member

Assistant Professor

Department of Biochemistry.

School of Basic and applied Sciences

DSU, Bangalore

ganapati.bhat@dsu.edu.in

12. Dr. Ajay Nair

Internal Member

Assistant Professor

Department of Genetics.

School of Basic and applied Sciences

DSU, Bangalore.

ajay-sbas@dsu.edu.in

List BOS Members - Attended

- 1. Dr. Sunil More
- 2. Dr. P Kondaiah
- 3. Dr. Manjunath K
- 1. Dr. Sidhalingamurthy
- 4. Dr. Anirudha Lakshminarasimhan
- 5. Dr. Harish Pai
- 6. Dr. Sundaram P M
- 7. Dr. Ravishankar
- 8. Dr. Ganapati Bhat
- 9. Dr. Ajay Nair

BOS Members - Not Attended

- 1. Dr. Rita Christopher
- 2. Dr. GirishK.S



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE: 'Board of Studies Meeting' regarding, B.Sc. Program and the approval of new B.Sc. HONS. Program (complied with UGC guidelines), School of Basic and Applied Sciences, DSU

DATE: 28-05-2022 TIME: 9.30 AM

VENUE: CD Sagar building #10, 4th Floor, CIL Hall, KS Layout, Banashankari

II stage, Bengaluru-560 111

Members attended the BOS meeting:

Sl. No	Name of members	Designation	Signature
1	Dr. Sunil More	Chairman	28(01)22
2	Dr. P Kondaiah	External member	1. Waland
3	Dr. Manjunath K	External member	1. Mangalati
4	Dr. Sidhalingamurthy	External member	Ini.
5	Dr. Anirudha Lakshminarasimhan	External member	Ad
7	Dr. Harish Pai	External member	Har
8	Dr. Sundaram P M	External member	Judaren
9	Dr. Ravishankar G. A.	Special Invitee	GA dain
10	Dr. Ganapati Bhat	Internal member	PS/128/5
11	Dr. Ajay Nair	Internal member	A

Proceedings of the 10th B.O.S Meeting, School of Basic and Applied Sciences, Dayananda Sagar University, held on 28.05.2022

'Board of Studies' meeting was held at CD Sagar building #10, 4th Floor, CIL Hall regarding the B.Sc. Program and the approval of new B.Sc. HONS. Program (complied with UGC-NEP guidelines).

- The meeting was started at the said venue on 28-05-2022 from 9.30 AM
- The BOS Chairman, Dr Sunil S More welcomed all the members of the board and initiated the meeting.
- The agenda of the current meeting was briefed by the BOS Chairman.
- The Board Members, after critical deliberations on the program and courses, took appropriate decisions on each agenda.
- The changes suggested by BOS external members were incorporated immediately during the meeting itself and corrected in our soft copy.
- **AGENDA I:** Approval for the implementation of new B.Sc. HONS. Four year degree program, complied with UGC- NEP guidelines with an exit option every year, including approval of the 4 year course matrix and syllabi for first three semesters for the same. **(ANNEXURE 1)**
- The first three semester syllabi of the new NEP program along with the scheme of course matrix was presented in detail before the BOS committee during the meeting.
- After critical deliberations, BOS members suggested few changes in the courses as mentioned below,
- In the first semester course matrix the courses like **Cell Biology and Essentials of Biochemistry** were swapped between first and second semesters.
- The **course 'Biochemical Calculations'** is divided and merged through first three papers of the first semester and new course are introduced by the individual departments as per the suggestions of the BOS committee
- The Course Name **Fundamentals of Chemistry I & II** has been renamed as **Chemistry I and II** in first and third semesters respectively as per the suggestions of BOS committee.

- In Basic microbiology Practicals, the practicals on micrometry was removed as per the suggestions of BOS committee.
- In genetics the course **reproductive genetics** and **medical genetics** was removed as per the suggestions of BOS committee the course, **'Population Genetics'** and genomics was introduced as a new subject
- As per the suggestion of BOS committee new course has been added at 6th semester which include all the aspects of proteomics, genomics, lipidomics and metabolomics

AGENDA II & III: Approval and modification for BSc 3rd year Course matrix and syllabus of 2020 scheme (5th and 6th semester) of our existing batch (**ANNEXURE 2a, 2b, & 2c)**

Minor modification and fine tuning in the proposed 5th and 6th semester syllabus of 2020 scheme was suggested and it is incorporated in the complete syllabus- ANNEXURE 2a, 2b, & 2c

AGENDA IV: Fine tuning in existing M.Sc. syllabus. **(ANNEXURE 3)**

From the existing syllabus of paper 'PRINCIPLES OF ENZYMOLOGY AND METABOLISM (20MBT5323)' fine tuning and revision was done. (ANNEXURE 3)

AGENDA V: Discussion on Feedback about curriculum from stakeholders

After detailed deliberations about the syllabus from different stakeholders and the positive and negative points were highlighted and the revised version is incorporated in the existing new syllabus of four year degree program. All the suggested modifications/changes were incorporated during the time of BOS meeting.

BOS Committee members,

- 1. Dr. Sunil S. More
- 128105122
- 2. Dr. P Kondaiah
- 1- Ruharal
- 3. Dr. Manjunath K
- 4. Dr. Sidhalingamurthy
- 5. Dr. Anirudha Lakshminarasimhan
- n + 10/3

7. Dr. Harish Pai

- Par
- 8. Dr. Sundaram P M
- PM Judanem
- 9. Dr. Ravishankar 6.- A.
- 10. Dr. Ganapati Bhat
- 11. Dr. Ajay Nair

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We, thank all the BOS members, for spending their valuable time and giving constructive inputs for the advancement of the curriculum.

Date: 28-05-2022 Place: Bangalore Chairman BOS



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE:

'Board of Studies Meeting' regarding approval of syllabus for 3rd and 4th year of B.Sc. HONS. Program (complied with UGC guidelines) and modification/revision of course matrix for the next batch for B.Sc. HONS

School of Basic and Applied Sciences, DSU

DATE: 16-08-2023 TIME: 9.30 AM

VENUE: Online mode (Google meet)

AGENDA OF THE MEETING:

 Approval for B.Sc. HONS syllabus (4th to 8th semesters) as per the approved course matrix for the on-going batch (2022-2023).

 Approval for the revision of course matrix and corresponding syllabi of first two semesters B.Sc. HONS program (2023 -2024 onwards).

BOS MEMBERS:

1. Dr. Sunil S. More

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5. Dr. Sharps J.

Assistant Probuser
Department of Bookenistry
School of Book and Applied Sciences
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DAY ANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

Board of Studies Meeting' regarding approval of 1) lighus for 4" to 8" semesters of B.Sc. HONS. Program (2022-2023) (complied with UGC guidelines) and modification revision of course matrix and the syllabus for the first two semesters of the for B.Sc. HONS (2023-2024)

School of Basic and Applied Sciences, DSU

DATE: 16-08-2023 TIME: 9.30 AM VENUE: Online mode:

Google Meet joining info link: https://meet.google.com/gag-bjcf-flu

AGENDA OF THE MEETING:

 a. Approval for B.Sc. HONS syllabus (4th to 8th semesters) as per the approved course matrix for the on-going batch (2022-2023).

 Approval for fine-tuning of title and course code for electives in B.Sc. HONS syllabus as per the approved course matrix (2022-2023).

 Approval for the revision of course matrix and corresponding syllabi of first two semesters of B.Sc. HONS program (2023 -2024 onwards).

BOS MEMBERS:

Dr. Sunil S. More
 Chairman - B.O.S.
 Dean - SBAS.
 DayanandaSagar University.
 Bengaluru
 Email:dean-sbas@dsu.edu.in

2. Dr. K. N. Balaji

Professor
Department of Microbiology and Cell Biology. Indian Institute of Science, Bangalore, Karnataka, India – 560050
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3. Dr. P Kondajah

Professor, Dept of Molecular Reproduction, Development and Genetics, Indian Institute of Science.

Bengaluru.

Ph: 080- 293 2688

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Dr. K. R. Siddolinga Murthy

Profesior, Deput Biochemistry. Bangaline University. Bengaluna

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Dr. Azirudha Lakshminurasimban

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8. Prof. V Krishnamurthy

Research Professor

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List BOS Members - Attended 1. Dr. Sunil More 2. Dr. K. N. Balaji 3. Dr. P Kondajah Dr. K. R. Siddalinga Murthy 4. 5. Dr. Anirudha Lakshminarasimhan 6. Dr. Sundaram P M 7. Prof V. Krishnamurthy 8. Dr. Seema Tharannum 9. Dr. Aneesa Fasim 10. Dr. Susweta Das 11. Dr. Santosh Choudhari BOS Members - Not Attended 1. Dr. Harish Pai



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES.

DOCUMENT TITLE: 11th BOS meeting of SBAS
'Board of Studies Meeting' regarding approval of syllabus for 3th and 4th year of B.Sc. HONS. Program (complied with UGC guidelines) and modification/revision of course matrix for the next batch for B.Sc. HONS. School of Basic and Applied Sciences. DSU

DATE: 16-08-2023 **TIME: 9.30 AM**

VENUE: Online mode:

Google Meet joining info link: https://meet.google.com/gqg-bjcf-fto

Members attended the BOS meeting:

SI. No	Name of members	Designation	Signature
1	Dr. Sunil More	Chairman	Attended virtually
2	Dr. K. N. Balaji	External member	Attended virtually
3	Dr. P Kondaiah	External member	Attended virtually
4	Dr. K. R. Siddalinga Murthy	External member	Attended virtually
5	Dr. Anirudha Lakshminarasimhan	External member	Attended virtually
6	Dr. Sundaram P M	External member	Attended virtually
7	Prof. V. Krishnamurthy	Internal member	Attended virtually

8	Dr. Seema Tharannum	Internal Member	Attended virtually
9	Dr. Ancesa Fasim	Internal member	Attended virtually
0	Dr. Susweta Das	Internal member	Attended virtually
11	Dr. Santosh Choudhari	Internal member	Attended virtually

Other Invitees attended:

- 1. Dr.Sangcetha Gowda (Asst Prof, Chemistry)
- 2. Dr. Ganapati Bhat (Asst Prof Biochem.)
- 3. Dr. Dinesh S M (Asst Prof Genetics)
- 4. Dr. Manjula N G(Asst Prof Micrbio.)
- 5. Dr. Ajay Nair (Asst Prof Biochem.)
- 6. Dr. Archana S Rao (Asst Prof Microbio.)
- 7. Dr. Vincetha M S (Asst Prof Biotech.)
- 8. Dr. Triveni K (Asst Prof Biotech.)
- 9. Dr. Arpi Dey (Asst Prof Biochem.)
- 10. Dr. Bhavya J (Asst Prof Biochem.)
- 11. Dr. Pronoma Biswas (Asst Prof Genetics.)
- 12. Ms. Bibi Ayesha (Alumni representative)
- 13. Ms. Asimta Saha (Student representative)

Proceedings of the 11th B.O.S Meeting, School of Basic and Applied Sciences, Dayananda Sagar University, held on 16.08.2022

'Board of Studies' meeting was held on 16th August 2023 via virtual mode regarding the approval of syllabus for 4th to 8th semester of B.Sc. Hons. Program (2022-2023) and approval of new B.Sc. HONS. Program (2023-2024) course matrix and syllabus for the first two semesters (complied as per UGC guidelines).

- The meeting was held online on 16-08-2023 and started at 9.30 AM
- The BOS Chairman, Dr Sunil S More welcomed all the members of the board and initiated the meeting.

- The BOS Chairman briefed the agenda of the current meeting.
- The Board Members, after critical deliberations on the program and courses, suggested appropriate corrections in curriculum on each agenda.

AGENDA I:

1a. Approval for BSc. Hons. 4th, 5th, 6th, 7th and 8th semester syllabus (ANNEXURE 1a)

The 4 to 8th semesters syllabi of the NEP program were presented in detail before the BOS committee during the meeting.

After critical deliberations, BOS members suggested few changes in the courses as mentioned below:

- The BOS members suggested to rectify all the grammatical errors in the document.
- In the course "Human Anatomy and pathology" systemic diseases topic was added.
- In the course "Human physiology", the experiments were reshuffled and placed in sequential manner.
- In the course "Metabolism-II" the experiment "Estimation of creatinine "was reframed to "Estimation of creatinine by Fiske Subbraow method".
- In the course, Bioethics and IPR, the title of module 2 was changed to "Intellectual property rights and regulations".
- In the course- Enzymology the topics transcriptional and translational regulation were removed and enzyme inhibitors as drugs topic was included.
- In the course, Immunology the topic- induced innate responses was changed to induced innate immune responses.
- In the course "Toxicology" the topic- toxicity of male and female was changed to gender specific diversity of toxins.
- The course title "Basic principles of multi-omics" was changed to "Principles of Multi-omics". In module 4 "Omics-applications and future perspectives was included".
- In "Genetic engineering" the topics GFP/RFP was included.
- In Signal transduction subject Introduction to hormones, autocrine, paracrine and endocrine signalling was added
- For every major papers of 6C, a total of 07 experiments were suggested by the BOS
 members in place of 06 experiments and the experiment titles were reframed and
 changes were incorporated in the revised syllabus.
- With respect to Module 3 of course Immunology (22BT3501), the sequence of content was reshuffled as APC, Target cell, MHC followed by antigen processing and presentation instead of antigen processing and presentation followed by APC, Target cell, MHC.

- In place of primary cell culture from fibroblast cells/liver cells/chick embryo experiment in animal biotechnology (22BT3502), preparation of hepatocyte experiment was suggested and the changes were incorporated.
- In the course Food Technology (22BT4701), Food adulterations have been incorporated and the experimental component of analysis of coffee and tea has been removed.
- In the course Medical Biotechnology (22BT4702) Module 1, Parasitic diseases-Amoebiasis and malaria were included. Under the component of viral diseases-AIDS was replaced with Corona. Under Module II, transcriptome analysis has been introduced in place of microarray. In Module III under protein therapeutics, in place of asperginase, glucoccrebrosidase has been suggested and CRISPR Cas9 applications in genetic disorders were suggested in place of breast cancer.
- In course Agriculture Biotechnology (22BT4703). Integrated pest management-Insect pheromones were included under Biopesticides of Module I.
- In Plant physiology and Biochemistry minor corrections were suggested.
- The syllabus of Genetics course was suggested to be restructured and revised completely. The corrections are as mentioned below-
 - The modules 2, 3 and 4 in Cytogenetics were revised to remove redundancy as per the suggestions of the Board. The topics banding techniques and chromosome breakage analysis were added.
 - In Developmental Biology, specific developmental theories were added in Module 1 to enrich the content. Reproductive biology content was removed from Module 3 and topics related to regenerative medicine were added.
 - The syllabus for Quantitative Genetics was completely revised to eliminate redundancy and establish a distinct identity from Population Genetics.
 - Module 3 was removed from the Microbial Genetics curriculum and a new module focusing on Microbiome was added.
 - Human Genetics syllabus was revised and Genetic Counselling was added in the syllabus.
 - o In Behavioural Genetics the topic Brain ischemia was removed and Drosophila behaviour was added.
 - o In Complex Traits and Gene Networks, the topic ENCODE was removed.
- The minor corrections were suggested in Microbiology syllabus.
- The chemistry syllabus was approved with minor changes.

1b. Approval for fine-tuning of course code and course name for the minor papers.

- The BOS members after deliberations approved the changes.
 In Biochemistry honours program minor paper Enzymology to Enzyme and protein chemistry with change in course code from 22BY3601 changed to 22BY3603.
- In Biotechnology honours under the minor courses offered the course titles Plant Biotechnology (22BT2404), Animal Biotechnology (22BT3503) and Industrial

Biotechnology (22BT3603) was renamed as Plant Biotechnology (Minor), Animal Biotechnology (Minor) and Industrial Biotechnology (Minor), respectively.

 The minor course titles Inorpanic Chemistry (22CY2401), Physical Chemistry (22CY3503) and Organic Chemistry (22CY3603) were renamed as Coordination Compounds, Physical Chemistry for Biological Sciences (22CY3503) and Organic Chemistry for Biological Sciences (22CY3603), respectively.

AGENDA II: Approval for the revision of course matrix and corresponding syllabi of first two semesters B.Sc. HONS program (2023 -2024 onwards) (ANNEXURE 2).

After discussions, we have incorporated the advice of BOS committee with some minor modifications suggested as follows:

- In cell biology paper cell death pathways were removed and basics of cell signalling pathways are introduced.
- In Biological Chemistry paper Module 1 the suggested new topic Oxygen-Haemoglobin Dissociation Curve has been included.
- In Module 2- the example of the topic First Law of thermodynamics (oxidation of fat) was changed to example-oxidation of tristearin.
- In Module 5- the topic trans-esterification reaction was included.
- In practical session, 2 experiments were included.

All the suggested modifications/changes were incorporated during the time of BOS meeting.

BOS Committee members,

- 1. Dr. Sunil More
- 2. Dr. K. N. Balaji
- 3. Dr. P Kondaiah
- Dr. K. R. Siddalinga Murthy
- 5. Dr. Anirudha Lakshminarasimhan
- 6. Dr. Sundaram P M
- 7. Prof. V. Krishnamurthy

- 8. Dr. Seema Tharannum
- 9. Dr. Ancesa Fasim
- 10. Dr. Susweta Das
- 11. Dr. Santosh Choudhari

We, thank all the BOS members, for spending their valuable time and giving constructive inputs for the advancement of the curriculum.

Date: 16-08-2023 Place: Bangalore

> Chairman BOS Professor and Dean SBAS-DSU

Dr. Sunil S More
Professor & Dean
School of Basic & Applied Sciences,
Dayananda Sagar University.
K. S. Layout, Bengaluru-78



12th Board of Studies (BOS) DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE:

'Board of Studies Meeting' regarding approval of syllabus for 3rd and 4th semester of B.Sc. HONS. (NEP) Program (complied with UGC guidelines), modification/revision of syllabi for the next batch for M.Sc. and Discussion on implementing SEP over NEP as per GoK order

School of Basic and Applied Sciences, DSU

DATE: 25-05-2024 TIME: 10.30 AM VENUE: Online mode

AGENDA OF THE MEETING:

- Approval for B.Sc. HONS syllabus (3rd and 4th semesters) as per the approved course matrix for the on-going batch (NEP 2023-2024).
- 2. Approval of fine tuning of the M.Sc. syllabus (2024-25)
- 3. Discussion on implementing SEP over NEP as per Government of Karnataka order
- 4. Result analysis and discussion
- 5. Any other matter with the permission of chairman.

List of BOS members attended meeting (virtualy):

S. No.	Members	Designation	Signature
1	Dr. Sunil More	Chairman	++
2	Dr. K. N. Balaji	Professor MCB, IISc	Bar
3	Dr. P Kondaiah	Rtd Professor, MRD, IISc	P.Kulaial

4	Dr. Anirudha Lakshminarasimhan	Director (R&D), Laurus Bio (a subsidiary of Lauras Labs)	g. W
5	Dr. Sundaram P M	Product Manager, Biopharma Waters India Pvt Ltd	Judanen
6	Dr. Ramesh Galigekere	Dean Academics, S&T, DSU	sprand_
7	Dr. Aneesa Fasim	Associate Professor, Department of Biochemistry, SBAS, DSU	Average
8	Dr. Santosh Choudhari	Associate Professor, Department of Chemistry, SBAS, DSU	Doder.
9	Dr Anoop Markande	Assistant Professor, Department of Microbiology, SBAS, DSU	adand
10	Dr. Shristi Ram	Assistant Professor, Department of Microbiology, SBAS, DSU	Shait

List of BOS members-Not Attended

Dr. K. R. Siddalinga Murthy	Professor, Dept of Biochemistry, Bangalore university
Dr. Harish Pai	Associate Director, R&D, Biocon
Dr. Susweta Das	Associate Professor, Department of Biotechnology, SBAS, DSU
	Murthy Dr. Harish Pai



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School of Basic and Applied Sciences, DSU

DATE: 25-05-2024 TIME: 10.30 AM VENUE: Online mode

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- 3. Discussion on implementing SEP over NEP as per Government of Karnataka order
- 4. Result analysis and discussion
- 5. Any other matter with the permission of chairman

BOS MEMBERS:

1. Dr. Sunil S. More

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List of BOS members- Attended	
1	Dr. Sunil More
2	Dr. K. N. Balaji
3	Dr. P Kondaiah

4	Dr. Anirudha Lakshminarasimhan
5	Dr. Sundaram P M
6	Dr. Ramesh Galigekere
7	Dr. Aneesa Fasim
8	Dr. Santosh Choudhari
	List of BOS members-Not Attended
1	Dr. K. R. Siddalinga Murthy
2	Dr. Harish Pai
3	Dr. Susweta Das



DAYANANDA SAGAR UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

DOCUMENT TITLE:

'Board of Studies Meeting' regarding approval of syllabus for 3rd and 4th semester of B.Sc. HONS. (NEP) Program (complied with UGC guidelines), modification/revision of syllabi for the next batch for M.Sc. and Discussion on implementing SEP over NEP as per GoK order

School of Basic and Applied Sciences, DSU

DATE: 25-05-2024 TIME: 10.30 AM

VENUE: Online mode (https://meet.google.com/uif-qphx-vrq)

Proceedings of the 12th B.O.S Meeting, School of Basic and Applied Sciences, Dayananda Sagar University, held on 25.05.2024

'Board of Studies' meeting was held on 25th May 2024 through Virtual mode regarding the approval of syllabus for 3rd and 4th sem of B.Sc. HONS. (NEP) Program (as per UGC guidelines), modification/fine-tuning of courses for the M.Sc. curriculum and discussion on implementing SEP over NEP as per Government of Karnataka, Higher education instructions.

- The meeting was held online on 25-05-2024 and started at 10.30 AM.
- The BOS Chairman, Dr Sunil S More welcomed all the members of the board and initiated the meeting.
- The BOS Chairman briefed the agenda of the current meeting.
- The Board Members, after critical deliberations on the program and courses, took appropriate decisions on each agenda.

AGENDA I: Approval for B.Sc. HONS syllabus (3rd and 4th semesters) as per the approved course matrix for the on-going batch (NEP 2023-2024).

- The rearrangement of Bloom's taxonomy levels for all the courses was suggested and incorporated wherever applicable.
- The third and fourth semester major and minor syllabus with electives were discussed in detail
 and the courses that were approved in the 2022 NEP syllabus were not changed, however, the
 newly introduced elective papers in minor were discussed and minor heading corrections were
 suggested as shown below:

Specific changes:

- 1. In Biochemistry, Biochemistry in Health and Disease (IV sem), the heading of Module 5 "other diseases" was suggested to be replaced with "Metabolic disorders" and incorporated. And in Module 4, the heading "Cardiovascular disease" to be replaced with "Biochemistry of cardiovascular disease" was suggested.
- In Microbiology, Parasitology and Epidemiology (IV sem), the topic "Geographic medicine: Implications application and future perspective" in module 5: Epidemiology" has been incorporated as per suggestions.

The corrected final copy of semesters 3 and 4 is enclosed as Annexure I.

AGENDA II: Approval of fine-tuning of the M.Sc. syllabus (2024-25)

For the first semester syllabus of M.Sc. Biological Science program at SBAS, is common across all disciplines. The courses in first semester common syllabus, pertaining to 20MSC5101: Fundamentals of Chemistry and 20MSC5104: General Microbiology, Module 1 content has been modified as per the member's suggestion. 20MSC5104: General Microbiology Paper, module rearrangement has been done as per board suggestions. The fine tuned syllabus is enclosed as Annexure II (IIA- Biochemistry, IIB-Biotechnology, IIC- Microbiology and IID- Human Genetics).

AGENDA III: Discussion on implementing SEP over NEP as per the Government of Karnataka order

Detailed deliberation took place to implement SEP over NEP and members opined to have Honor's program as per NEP, considering the interest of students to pursue a Four year's Honor's program. The final confirmation of having a **triple major**, **three-year course** (which was approved in the year 2021 can be adapted based on SEP guidelines and GoK order) to the BSc aspirants of 2024-2025 will be based on the directions from the State Government.

AGENDA IV: Result analysis and discussion

The result analysis was discussed for 2 NEP batches and compared with triple major, three year BSc courses. The members appreciated the result analysis and suggested having a subject wise analysis, which to all the Board members, the details are being shared.

AGENDA V: Any other matter with the permission of the Cchairman

The members discussed about result analysis which will help in analyzing the teacher quality and student quality of the School.

After detailed deliberation (virtually), the changes/ corrections/ suggestions have been incorporated based on the Board.

BOS Committee members,

- 1. Dr. Sunil More
- 2. Dr. K. N. Balaji
- 3. Dr. P Kondaiah
- 4. Dr. Anirudha Lakshminarasimhan
- 5. Dr. Sundaram P M
- 6. Dr. Ramesh Galigekere
- 7. Dr. Aneesa Fasim
- 8. Dr. Santosh Choudhari

We, thank all the BOS members, for spending their valuable time and giving constructive inputs for the advancement of the curriculum.

Date: 25-05-2024 Place: Bangalore Chairman BOS