



**DAYANANDA SAGAR UNIVERSITY  
SCHOOL OF BASIC AND APPLIED SCIENCES**

DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc. BIOCHEMISTRY, DSU

DATE: 30.01.2016,

TIME: 10: 00 AM TO 01:00PM

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

**AGENDA OF THE MEETING:**

1. Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.
2. Approval of the panel of examiners for the academic year 2016-17.
3. Approval of pattern of theory papers for End Semester examination.
4. Any other concerning matter, with the permission of the Chairperson.

**BOS Members:**

1. Dr. Sunil S. More  
Chairman – B.O.S.  
Dean - SBAS,  
Dayananda Sagar University,  
Bangalore - 560078
2. Prof. K. R. Siddalinga Murthy  
External Member,  
Professor, Department of Biochemistry,  
Bangalore University,  
Bangalore - 560001
3. Prof. Rita Christopher,  
External Member,  
Professor and Head,  
Department of Neurochemistry,  
National Institute of Mental Health and Neuro Sciences  
Bangalore - 560029

4. Dr. Saraswati  
Internal Member,  
Assistant Professor, Biochemistry,  
Dayananda Sagar Institutions.
5. Prof. K. V. Ramesh  
Internal Member,  
Professor, Dept. of Biochemistry,  
Dayananda Sagar Institutions.
6. Dr. Pradipta Banerjee,  
Convener & Internal Member,  
Assistant Professor, Biochemistry,  
Dayananda Sagar University.

**Proceedings of the B.O.S Meeting of B.Sc. Biochemistry, Dayananda Sagar University, held on 30.01.2016**

- The meeting of the Board of Studies of Biochemistry was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 30.01.2016 from 10:00 am
- The Chairman welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
- The agenda of the meeting was briefed by the Convener.
- The Board took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.

*Agenda 1:* The approved syllabus for III and IV semester syllabus is as per **Annexure I**.

*Agenda 2:* The approved list of panel of examiners is as per **Annexure II**.

*Agenda 3:* The approved pattern of question paper for end semester examination is as per **Annexure III**.

- The meeting was concluded with the Chairman thanking all the members for their time and suggestions

4. Dr. Saraswati  
Internal Member,  
Assistant Professor, Biochemistry,  
Dayananda Sagar Institutions.
5. Prof. K. V. Ramesh  
Internal Member,  
Professor, Dept. of Biochemistry,  
Dayananda Sagar Institutions.
6. Dr. Pradipta Banerjee,  
Convener & Internal Member,  
Assistant Professor, Biochemistry,  
Dayananda Sagar University.

**Proceedings of the B.O.S Meeting of B.Sc. Biochemistry, Dayananda Sagar University, held on 30.01.2016**

- The meeting of the Board of Studies of Biochemistry was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 30.01.2016 from 10:00 am.
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**Agenda 1: Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.**

- To teach basic ideas of all the instrumentation techniques listed in the syllabus for Biochemistry III semester Theory Paper – Physico-Analytical Techniques.
- Changing the name of experiment 1, “Fluid analysis” to “Qualitative analysis of normal and abnormal components of urine” in Biochemistry IV semester Practical Paper.
- Inclusion of clinical samples including Maple syrup urine disease and phenylketonuria along with their specific detection method in Experiment 1, urine analysis, Clinical

Biochemistry practical, semester IV. One of the board members has agreed to help with the protocol.

- Estimation of fructose to be replaced by the more clinically important estimation of glucose by Miller's method in Clinical Biochemistry practical, semester IV.
- Estimation of lactose to be replaced by the more clinically important estimation of calcium by alizarin S method in Clinical Biochemistry practical, semester IV.
- Time limitations for the practical secessions during examination to be removed.
- Re-distribution of marks in Semester III Bio-analytical Separations practical.

*The syllabus of III and IV semester B.Sc. Biochemistry after incorporation of all the suggested modifications is as per Annexure I.*

**Agenda 2: Approval of the panel of examiners for the academic year 2016-17.**

The board approved the panel of examiners, and has suggested incorporation of experience and field of specialization for each examiner.

*The approved list of examiners with their details of experience and field of specialization is as per Annexure II.*

**Agenda 4: Approval of pattern of theory papers for End Semester examination.**

*The board approved the pattern of question paper for end semester examination Annexure III.*

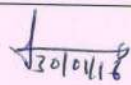
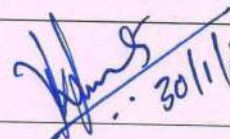

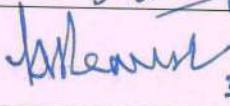
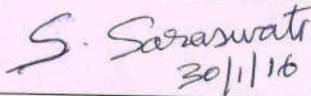
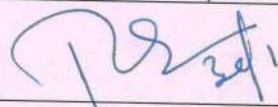
**Agenda 5: With the permission of Chariman, approval for minimum pass percentage for end semester examination**

*The board suggested the minimum pass percentage for end semester examination should be Forty percentage (40%).*

Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

Members Present (BOS Biochemistry)

| Sl. No. | Name of the member          | Signature  |
|---------|-----------------------------|--|
| 1       | Dr. Sunil S. More           | <br>30/1/16   |
| 2       | Dr. K. R. Siddalinga Murthy | <br>30/1/2016 |
| 3       | Dr. Rita Christopher        | <br>30/1/2016 |
| 4       | Dr. K. V. Ramesh            | <br>30/1/16    |
| 5       | Dr. Saraswati               | <br>30/1/16    |
| 6       | Dr. Pradipta Banerjee       | <br>30/1/16   |

Members Absent:



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

**Proceedings of the B.O.S Meeting of B.Sc. Chemistry, Dayananda Sagar University, held on 27.01.2016**

- The meeting of the Board of Studies of Chemistry was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 30.01.2016 from 11:00 am
- The Chairman, welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
- The agenda of the meeting was briefed by the Convener.
- The Board took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.

**Agenda 1:**

*The syllabus of I and II semester B.Sc. Chemistry after fine tuning, hour allocation, unitization and incorporation of all the suggested modifications is as per Annexure I.*

**Agenda 2:**

Proposed III and IV semester syllabus of academic year 2016-17 for consideration and approval. Following the suggestions, changes were made in the syllabus.

**III Semester**

- Unit I Chemical Kinetics was replaced with Surface Chemistry and allotted 7 hours of teaching.
- Unit II Thermodynamics was rearranged and allotted 12 Hours of teaching.
- Unit III Metallurgy was rearranged and allotted hours 5 of teaching.
- Unit VII Alcohols and Thiols shifted to Unit VI and nomenclature was included. Allotted 7 hours of teaching.
- Unit VI Aldehydes and Ketones shifted to Unit VII and rearranged. Allotted 8 hours of teaching.
- Unit VIII Phenols was rearranged.
- In Practicals III, experiment no 7 and 13 were removed.
- Experiments were reorganized.

**Semester IV**

- Unit II Surface chemistry was replaced with Colloids. Allotted 6 hours of teaching.

- b. Unit III Solid State, Defects in Solids and Types of Liquid Crystals (Smectic, Nematic and Cholestric) were included.
- c. Unit IV, Removal of Fluorides in water was included.
- d. Unit V, Steel chapter was rearranged. Chemical composition of steel was included.
- e. Unit VI Nuclear and Radiochemistry was rearranged and radioactive series (Qualitative approach) was included.
- f. Unit VII Carboxylic acids and their derivatives allotted teaching hours were increased to 8.
- g. In Practical IV an experiment, separation of phosphate / borate ions was included.

*The syllabus of III and IV semester B.Sc. Chemistry after incorporation of all the suggested modifications is as per Annexure II.*

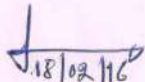
**Agenda 3:**

*The approved list of examiners with their details of experience and field of specialization is as per Annexure III.*

**Agenda 4:**

*The board approved the pattern of question paper for end semester examination Annexure IV.*

- The meeting was concluded with the Chairman thanking all the members for their time and suggestions



The Chairman,  
BOS Chemistry,  
School of Basic and Applied Sciences,  
Dayananda Sagar University,  
Bangalore 560078.

Proceedings of the B.O.S Meeting of B.Sc. ~~Chemistry~~ Dayananda Sagar University, held on 30.01.2016

- The meeting of the Board of Studies of ~~Chemistry~~ was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 30.01.2016 from 11:00 am
- The Chairman, welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
- The agenda of the meeting was briefed by the Convener.
- The Board took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.

*Agenda 1:*

The approved syllabus copy of I and II semester after fine tuning, hour allocation and unitization is as per **Annexure I**.

*Agenda 2:*

The approved syllabus for III and IV semester syllabus is as per **Annexure II**.

*Agenda 3:*

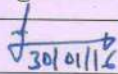

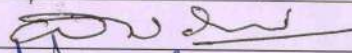
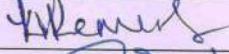
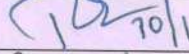
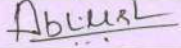
The approved list of panel of examiners is as per **Annexure III**.

*Agenda 4:*


The approved pattern of question paper for end semester examination is as per **Annexure IV**.

- The meeting was concluded with the Chairman thanking all the members for their time and suggestions

**Members Present**

| Sl. No. | Name of the member      | Signature  |
|---------|-------------------------|--|
| 1       | Dr. Sunil More          | <br>30/01/16 |
| 2       | Prof. Nagaraju N        |              |
| 3       | Dr. D.N Rao             |              |
| 4       | Dr. Ramesh K V          |              |
| 5       | Dr. Pradeepta Bannerjee | <br>30/01/16 |
| 6       | Mr. Abhilash N          |              |

**Members Absent:** NIL

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

**Proceedings of the B.O.S Meeting of B.Sc. Zoology, Dayananda Sagar University, held on 29.01.2016**

- The meeting of the Board of Studies of Microbiology was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 27.01.2016 from 11:00 am
- The Chairman, welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
- The agenda of the meeting was briefed by the Convener.
- The Board took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.

**Agenda 1: Fine tuning, unitization and allocation of hours of the existing I and II semester syllabus, and unit numbers to the existing syllabus.**

The board approved the fine tuning, hour allocation and unitization of I and II semester syllabus.

The objective and learning objective has been incorporated.

The following modifications have been suggested in I and II semester syllabus:

- I semester syllabus

Unit II – Sub Kingdom Protista (Phylum Protozoa)- cilia, flagella, pseudopodia has been incorporated in Locomotion section. Life cycle has been connected to Parasitic protozoans, so the fine-tuned version became Life cycle of Parasitic protozoans.

Unit III – Phylum Porifera – *Leucosolenia* has been added as an example study in General Organization.

Unit IV – Phylum Cnidaria – *Hydra* has been added as an example study in General Organization. Nerve Net has also been added.

Unit V – Phylum Platyhelminthes – *Planaria* has been added as an example study in General Organization.

*Wuchereria bancrofti* has been moved to its place in Unit VI.

Unit VI – Phylum Nematoda – *Wuchereria bancrofti* life cycle has been added.

Unit VII – Phylum Annelida – *Earthworm* has been added as an example study in General Organization.

Unit VIII – Phylum Arthropoda – Pyla has been added as an example study in General Organization.

- II semester syllabus

Unit VII – Indian Bull Frog has been added as an example study.

*The syllabus of I and II semester B.Sc. Zoology after fine tuning, hour allocation, unitization and incorporation of all the suggested modifications is as per Annexure I.*

**Agenda 2: Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.**

The III and IV semester syllabus was presented to the Board members for consideration and approval.

The objective and learning objective has been incorporated.

The board members reviewed the syllabus of III and IV semester in detail and have suggested the following modifications:

- III semester syllabus

Unit I – Cytology – Plasma membrane has been moved in front of cell organelles, so that Structure and function section start with plasma membrane and followed by cell organelles.

Plastid has been removed.

Theories in Cancer cell section have been removed and types of cancer based upon origin have been added.

Unit II – Histology – Tissues: definitions and reviewed of different types has been modified to Tissues: Epithelial, Glandular, Muscle, and Nervous

All the V.S., C.S., T.S., L.S. has been removed.

Tongue with reference to mucosa papillae and taste bud has been modified to Tongue-mucosa papillae and taste bud.

Alimentary canal: Basic histological organization with reference to esophagus has been modified to Alimentary canal: esophagus.



**DAYANANDA SAGAR UNIVERSITY  
SCHOOL OF BASIC AND APPLIED SCIENCES**

DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc.GENETICS, DSU

DATE: 29.01.2016,

TIME: 10: 00 AM TO 12:00PM

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


**AGENDA OF THE MEETING:**

1. Fine tuning, unitization and allocation of hours of the existing I and II semester syllabus, and unit numbers to the existing syllabus.
2. Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.
3. Approval of the panel of examiners for the academic year 2016-17.
4. Approval of pattern of theory question paper for End Semester examination.
5. Any other concerning matter, with the permission of the Chairperson.

**BOS Members:**

1. Dr. Sunil More  
Chairman – B.O.S.  
Dean - SBAS,  
Dayananda Sagar University.
2. Prof. S. N. Dharwardkar  
Dept. of Zoology  
KLE Nijalingappa College,  
Rajajinagar,  
Bangalore -10.
3. Dr. Vani R  
Department of Biotechnology,  
Jain University,  
Bangalore - 11

4. Dr. Sahabudeen S  
Internal Member,  
Associate Professor  
Dept. of Engineering Biotechnology  
Dayananda Sagar Institutions  
Bangalore.
5. Dr. Anand Prakash  
Internal Member,  
Asst. Professor, Dept. of Microbiology  
Dayananda Sagar University  
Bangalore.
6. Dr. Shyamala K. V.,  
Convener,  
Asst. Professor, Dept. of Genetics  
Dayananda Sagar University  
Bangalore.

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

**Proceedings of the B.O.S Meeting of B. Sc. Genetics, Dayananda Sagar University, held on 29.01.2016**

- The meeting of the Board of Studies of Genetics was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 29.01.2016 from 10:00 am
- The Chairman, welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
- The agenda of the meeting was briefed by the Convener.
- The Board took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.

*Agenda 1:*

The approved syllabus copies of I and II semester after fine tuning, hour allocation and unitization is as per **Annexure I**.

*Agenda 2:*

The approved syllabus for III and IV semester syllabus is as per **Annexure II**.

*Agenda 3:*

The approved list of panel of examiners is as per **Annexure III**.

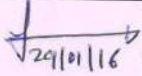

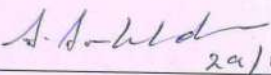
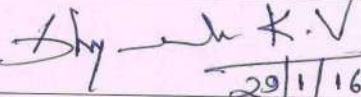
*Agenda 4:*

The approved pattern of question paper for end semester examination is as per **Annexure IV**.

- The meeting was concluded with the Chairman thanking all the members for their time and suggestions

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

Members Present - BOS GENETICS

| Sl. No. | Name of the member    | Signature  |
|---------|-----------------------|--|
| 1       | Dr. Sunil More        | <br>29/01/16   |
| 2       | Dr. S. N. Dharwardkar | <br>29/01/2016 |
| 3       | Dr. Vani R            | Vani R<br>29/1/16  |
| 4       | Dr. Sahabudeen S      | <br>29/1/16    |
| 5       | Dr. Anand Prakash     | Anand<br>29.01.16  |
| 6       | Dr. Shyamala K. V.    | <br>29/1/16    |

Members Absent: NIL



Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

**Proceedings of the B.O.S Meeting of B. Sc. Genetics, Dayananda Sagar University, held on 29.01.2016**

- The meeting of the Board of Studies of Genetics was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 29.01.2016 from 10:00 am
- The Chairman, welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
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**Agenda 1: Fine tuning, unitization and allocation of hours of the existing I and II semester syllabus, and unit numbers to the existing syllabus.**

- In I semester syllabus, “**references list**” has to be included after theory and practical syllabus.
- In the I semester theory syllabus, Unit I “**autoradiography and flow cytometry**” has to be removed and “**two photon microscopy**” should be incorporated
- In I semester practical syllabus, Unit 5 “**gram negative bacteria**” should be incorporated in the syllabus.

*The syllabus of I and II semester B.Sc. Genetics after fine tuning, hour allocation, unitization and incorporation of all the suggested modifications is as per Annexure I.*

**Agenda 2: Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.**

The III and IV semester syllabus was presented to the Board members for consideration and approval.

The board members reviewed the syllabus of III and IV semester in detail and have suggested the following modifications.

- In III semester theory syllabus, Unit IV “**Creighton and McClintock experiments in maize**” has to be removed
- In Unit IV “**Punnett square**” should be incorporated
- In Unit VI “**Genetic diseases and disorders**” should be incorporated

- In III semester practical syllabus, Unit I order of “**Media Preparation and Cleaning and Sterilization of bottles**” has to be changed
- In IV semester theory syllabus, Unit III “**Organelle genome - chloroplast and mitochondria**” should be incorporated
- In Unit V “**types and classification of transposable elements**” should be incorporated
- In IV semester practical syllabus, Unit II “**examples of DNA isolation materials**” should be replaced by “**plant and animal tissues**”.
- In Unit IV “**PAGE experiment**” should be removed
- In Unit IV “**Agarose gel electrophoresis**” experiment has to be changed from demonstration to **performance**.
- In Unit V Identification of point mutation on the given representation has to be removed.

*The syllabus of III and IV semester B.Sc. Genetics after incorporation of all the suggested modifications is as per **Annexure II**.*

**Agenda 3: Approval of the panel of examiners for the academic year 2016-17.**

The board members approved the panel of examiners and have suggested incorporation of experience and field of specialization for each examiner.

*The approved list of examiners with their details of experience and field of specialization is as per **Annexure III**.*

**Agenda 4: Approval of pattern of theory question paper for End Semester examination.**

*The board approved the pattern of question paper for end semester examination **Annexure IV**.*

**Agenda 5: With the permission of Chariman, approval for minimum pass percentage for end semester examination**

*The board suggested the minimum pass percentage for end semester examination should be **Forty percentage (40%)**.*

Sd/-  
Dr. Sunil S. More  
Dean and Chairman (B.O.S)



**DAYANANDA SAGAR UNIVERSITY  
SCHOOL OF BASIC AND APPLIED SCIENCES**

DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc. MICROBIOLOGY, DSU

DATE: 27.01.2016,

TIME: 11: 00 AM TO 01:00PM

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

**AGENDA OF THE MEETING:**

1. Fine tuning, unitization and allocation of hours of the existing I and II semester syllabus, and unit numbers to the existing syllabus.
2. Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.
3. Approval of the panel of examiners for the academic year 2016-17.
4. Approval of pattern of theory papers for End Semester examination.
5. Any other concerning matter, with the permission of the Chairperson.

**BOS Members:**

1. Dr. Sunil More  
Chairman – B.O.S.  
Dean - SBAS,  
Dayananda Sagar University, Bangalore
2. Prof. Manjunath K  
External Member  
Professor, Dept. of Post-Graduate Studies in Biotechnology and Microbiology  
Bangalore University, Bangalore
3. Dr. P.S. Shastry,  
External Member  
Associate Professor and HOD,  
Vijaya College, 11<sup>th</sup> main road,  
Jayanagar 4<sup>th</sup> Block,  
Bengaluru - 11

4. Dr. G. A. Ravishankar  
Internal Member  
VP, R&D, Life Sciences  
Dayananda Sagar Institutions, Bangalore.
5. Dr. Anu Sharma  
Internal Member  
Asst. Professor, Dept. of Biotechnology  
Dayananda Sagar University, Bangalore.
6. Dr. Anand Prakash  
Internal Member,  
Asst. Professor, Dept. of Microbiology  
Dayananda Sagar University, Bangalore.
7. Dr. Shobha.K. Jayanna,  
Internal Member,  
Head – P.G. Department of Microbiology,  
Dayananda Sagar Institutions, Bangalore.
8. Dr. Gautham S. A.,  
Convener & Internal Member  
Asst. Professor, Dept. of Microbiology  
Dayananda Sagar University, Bangalore.



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

**Proceedings of the B.O.S Meeting of B.Sc. Microbiology, Dayananda Sagar University, held on 27.01.2016**

- The meeting of the Board of Studies of Microbiology was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 27.01.2016 from 11:00 am.
- The Chairman, welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
- The agenda of the meeting was briefed by the Convener.
- The Board suggested the necessary modifications on all the agendas of the meeting after a detailed deliberation.

**Agenda 1: Fine tuning, unitization and allocation of hours of the existing I and II semester syllabus, and unit numbers to the existing syllabus.**

The board approved the fine tuning, hour allocation and unitization of I and II semester syllabus.

The following modifications have been suggested in the I and II semester syllabus

- In I semester syllabus, Unit I – History and Development of Microbiology the *“contributions of national and international scientists”* has to be modified to *“contributions of”*
- In II semester syllabus, Unit II – Special Microbial Forms *“A precise account of”* has to be modified to *“General Account of”*.
- In Unit IV - Eukaryotic Microbes,
  - a) Algae – *“contributions of scientists”* has to be modified to *“Contributions of”*, *“Applications of algae”* should be incorporated in the syllabus.
  - b) Fungi – Historical developments in the field of mycology, *“Contributions of Prof. K.C. Mehta, Prof. C.V. Subramanian, and Prof Manoharachary”* and *“Applications of fungi”* should be incorporated in the syllabus.
- In II semester practicals – *“Cultivation of Algae”* should be incorporated as the 10<sup>th</sup> practical.

*The syllabus of I and II semester B.Sc. Microbiology after fine tuning, hour allocation, unitization and incorporation of all the suggested modifications is as per Annexure I.*

**Agenda 2: Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.**

The III and IV semester syllabus was presented to the Board members for consideration and approval.

The board members reviewed the syllabus of III and IV semester in detail and have suggested the following modifications.

- Reclassification of III and IV semester syllabus and change in paper title.
- For III Semester the Paper Title "*Microbial Genetics, Molecular biology and Instrumentation*" has to be modified to "*Microbial Physiology, Microbial Genetics and Instrumentation*".
- For IV semester the Paper title "*Microbial Physiology and Recombinant DNA technology*" has to be modified to "*Molecular Biology and Recombinant DNA technology*".
- The III semester practical paper title has to be modified to "*Microbial Physiology and Microbial Genetics*".
- The IV semester practical paper title "*Microbial Physiology and Recombinant DNA Technology*" has to be modified to "*Molecular Biology and Recombinant DNA Technology*".
- The syllabus be reclassified with appropriate theory and practical sessions based on the modified paper titles.
- The division of the paper into parts A, B and C has to be deleted.
- Unitization of each paper should not exceed 10 units and the numbering of unit has to be continuous irrespective of the division of the paper.
- Kit based experiments to be included for molecular biology and recombinant DNA technology practical sessions.

*The syllabus of III and IV semester B.Sc. Microbiology after incorporation of all the suggested modifications is as per Annexure II.*

**Agenda 3: Approval of the panel of examiners for the academic year 2016-17.**

The board approved the panel of examiners, and has suggested incorporation of experience and field of specialization for each examiner.

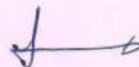
*The approved list of examiners with their details of experience and field of specialization is as per Annexure III.*

**Agenda 4: Approval of pattern of theory papers for End Semester examination.**

*The board approved the pattern of question paper for end semester examination Annexure IV.*

**Agenda 5: With the permission of Chariman, approval for minimum pass percentage for end semester examination**

*The board suggested the minimum pass percentage for end semester examination should be Forty percentage (40%).*



**Dr. Sunil S. More**

**Dean and Chairman (B.O.S)**

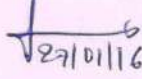
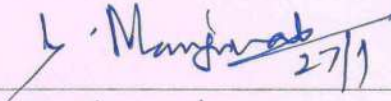
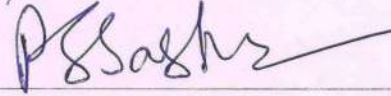

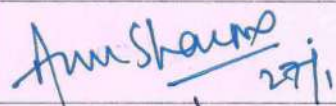
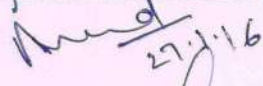
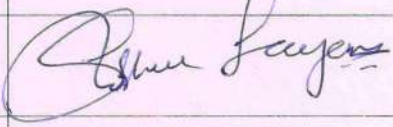
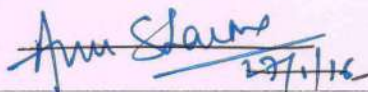
Dean

**Life Sciences**

**Dayananda Sagar University,**


**K.S. Layout, Bangalore - 560 078.**

Members Present - (B.O.S. MICROBIOLOGY)

| Sl. No. | Name of the member     | Signature   |
|---------|------------------------|---|
| 1       | Dr. Sunil More         | <br>27/01/16  |
| 2       | Prof. Manjunath K      | <br>27/1      |
| 3       | Dr. P.S. Shastry       |               |
| 4       | Dr. G. A. Ravishankar  |               |
| 5       | Dr. Anu Sharma         | <br>27/1      |
| 6       | Dr. AnandPrakash       | <br>27.1.16   |
| 7       | Dr. Shobha. K. Jayanna |              |
| 8       | Dr. Gautham S. A.      | <br>27/1/16 |

  
27/1/16

Members Absent: NIL

  
Dr. Sunil S More  
Professor & Dean  
School of Basic & Applied Sciences,  
Davananda Sagar University,  
K. S. Layout, Bengaluru-7B.



**DAYANANDA SAGAR UNIVERSITY  
SCHOOL OF BASIC AND APPLIED SCIENCES**

DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc.BIOTECHNOLOGY, DSU

DATE: 27.01.2016,

TIME: 10: 00 AM TO 12:00PM

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

**AGENDA OF THE MEETING:**

1. Fine tuning, unitization and allocation of hours of the existing I and II semester syllabus, and unit numbers to the existing syllabus.
2. Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.
3. Approval of the panel of examiners for the academic year 2016-17.
4. Approval of pattern of theory papers for End Semester examination.
5. Any other concerning matter, with the permission of the Chairperson.

**BOS Members:**

1. Dr. Sunil More  
Chairman – B.O.S.  
Dean - SBAS,  
Dayananda Sagar University
2. Prof. P. Kondaiah  
Professor, Dept. of Molecular Reproduction, Development and Genetics,  
IISc., Bangalore
3. Prof. Manjunath K  
External Member  
Professor, Dept. of Post-Graduate Studies in Biotechnology and Microbiology  
Bangalore University, Bangalore
4. Dr. G. A. Ravishankar  
Internal Member  
VP, R&D, Life Sciences  
Dayananda Sagar Institutions.

5. Dr. Gautham S. A  
Internal Member  
Asst. Professor, Dept. of Microbiology  
Dayananda Sagar University
6. Dr. Anand Prakash  
Internal Member,  
Asst. Professor, Dept. of Microbiology  
Dayananda Sagar University
7. Dr. Muralidhar.T.S.,  
Internal Member,  
Head – P.G. Department of Biotechnology,  
Dayananda Sagar Institutions.
8. Dr. Anu Sharma,  
Convener & Internal Member  
Asst. Professor, Dept. of Biotechnology  
Dayananda Sagar University

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

**Proceedings of the B.O.S Meeting of B.Sc.Biotechnology, DayanandaSagar University, held on 27.01.2016**

- The meeting of the Board of Studies of Biotechnology was held in the Board Room, CIL, Dr. C.D. Sagar Centre For Life Sciences on 27.01.2016 from 10:00 am
- The Chairman, welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
- The agenda of the meeting was briefed by the Convener.
- The Board took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.

*Agenda 1:*

The approved syllabus copy of I and II semester after fine tuning, hour allocation and unitization is as per **Annexure I**.

*Agenda 2:*

The approved syllabus for III and IV semester syllabus is as per **Annexure II**.


*Agenda 3:*

The approved list of panel of examiners is as per **Annexure III**.

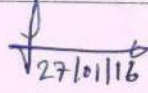
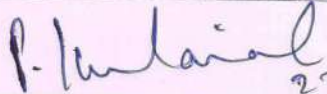
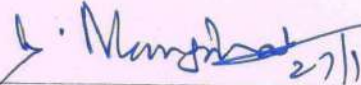

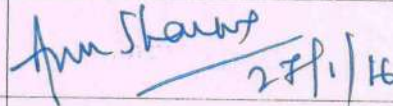
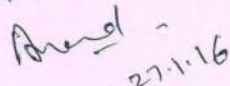


*Agenda 4:*

The approved pattern of question paper for end semester examination is as per **Annexure IV**.

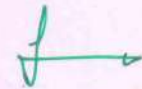
- The meeting was concluded with the Chairman thanking all the members for their time and suggestions

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

Members Present (B.D.S. - BIOTECHNOLOGY)

| Sl. No. | Name of the member           | Signature   |
|---------|------------------------------|---|
| 1       | Dr. Sunil More               | <br>27/01/16  |
| 2       | Prof. P Kondaiah             | <br>27/1/2016 |
| 3       | Prof. Manjunath K            | <br>27/1/16   |
| 4       | Dr. G. A. Ravishankar        | <br>27.1.2016 |
| 5       | Dr. Anu Sharma<br>(Convener) | <br>27/1/16   |
| 6       | Dr. Anand Prakash            | <br>27.1.16   |
| 7       | Dr. Muralidhar. T.S.         | <br>27/1/16  |
| 8       | Dr. Gautham S. A.            | <br>27/1/16 |

Members Absent: - NIL -



Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
K. J. Somaiya Sagar University,  
K. J. Somaiya Layout, K. J. Somaiya - 78.



**DAYANANDA SAGAR UNIVERSITY  
SCHOOL OF BASIC AND APPLIED SCIENCES  
DEPARTMENT OF CHEMISTRY**

DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc. Chemistry, DSU

DATE: 30.01.2016,

TIME: 11: 00 AM TO 01:00PM

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

**AGENDA OF THE MEETING:**

1. Fine tuning, unitization and allocation of hours of the existing I and II semester syllabus, and unit numbers to the existing syllabus.
2. Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.
3. Approval of the panel of examiners for the academic year 2016-17.
4. Approval of pattern of theory papers for End Semester examination.
5. Any other concerning matter, with the permission of the Chairperson.

**BOS Members:**

1. Dr. Sunil More  
Chairman – B.O.S.  
Dean - SBAS,  
DayanandaSagarUniversity
2. Prof. Nagaraju N  
External Member  
HOD, Department of Chemistry, St.Joseph College (Autonomous), Bangalore.
3. Prof. D.N.Rao,  
External Member  
HOD Dept of Chemistry, MSRIT, Bangalore.
4. Prof. K.V. Ramesh  
Internal Member  
HOD, PG Dept of Biochemistry, DSCBS.
5. Mr.Abhilash N  
Convenor.  
Lecturer, Department of Chemistry, DSCBS.



**DAYANANDA SAGAR UNIVERSITY  
SCHOOL OF BASIC AND APPLIED SCIENCES**

DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc. ZOOLOGY, DSU  
DATE: 29.01.2016,  
TIME: 11: 30 AM TO 01:30 PM  
VENUE: BOARD ROOM, CIL, Dr. C.D. SAGAR CENTRE FOR LIFE SCIENCES.

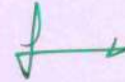
**AGENDA OF THE MEETING:**

1. Fine tuning, unitization and allocation of hours of the existing I and II semester syllabus, and unit numbers to the existing syllabus.
2. Proposing III and IV semester syllabus of academic year 2016-17 for consideration and approval.
3. Approval of the panel of examiners for the academic year 2016-17.
4. Approval of pattern of theory papers for End Semester examination.
5. Any other concerning matter, with the permission of the Chairperson.

**BOS Members:**

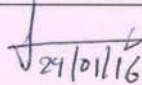
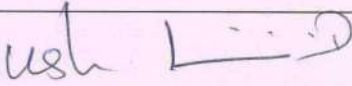

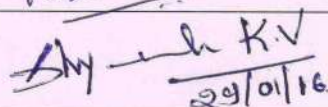
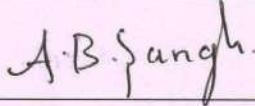

1. Dr. Sunil More  
Chairman – B.O.S.  
Dean - SBAS,  
Dayananda Sagar University
2. Dr. Usha Anandhi  
Professor,  
Department of Zoology,  
Bangalore University,  
Bangalore, Karnataka
3. Dr. Devraj T.M.  
Professor and HOD,  
Department of Zoology  
Government Science College,  
Nrupatunga Road, Bangalore

4. Dr. Shyamala K.V.  
Internal Member  
Asst. Professor, Dept. of Biotechnology  
Dayananda Sagar University
5. Dr. Asheera Banu Sangli  
Internal Member,  
Professor, U.G. Department of Zoology,  
Life Sciences, Dayananda Sagar Institutions
6. Dr. Anand Prakash  
Convener,  
Asst. Professor, Dept. of Microbiology  
Dayananda Sagar University




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

Members Present - BOS ZOOLOGY

| Sl. No. | Name of the member      | Signature  |
|---------|-------------------------|--|
| 1       | Dr. Sunil More          | <br>29/01/16 |
| 2       | Dr. Usha Anandhi        |              |
| 3       | Dr. Devraj T.M          |              |
| 4       | Dr. Shyamala K.V.       | <br>29/01/16 |
| 5       | Dr. Asheera Banu Sangli |              |
| 6       | Dr. Anand Prakash       | <br>29.1.16  |

Members Absent: - Nil -

  
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., DSU

DATE: 13.01.2018

TIME: 9: 30 AM TO 12:00PM

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

**AGENDA OF THE MEETING:**

1. Proposing III and IV semester M.Sc., Biotechnology, Microbiology and Biochemistry syllabus of academic year 2017-18 for consideration and approval.
2. Proposing hour reduction in B.Sc syllabus from existing 52 hours to 44 hours for the academic year 2019-20.
3. Proposing existing B.Sc syllabus for fine tuning.
4. Proposing new examination scheme from the existing 40:60 to 50:50 internals to end semester exams for B.Sc., course combinations for the academic year 2019-2011.
5. Any other concerning matter, with the permission of the Chairman.

**BOS Members:**

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. Dr. Ravindra Gudihal  
External Member,  
Lead Scientist – Biopharma  
Agilent Technologies India Pvt. Ltd.  
Ph: 9945177344  
Email: [rgudihal@gmail.com](mailto:rgudihal@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](mailto: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](mailto: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](mailto:rita@nimhans.kar.nic.in)
7. Dr. Sidhalingamurthy  
External Member,  
Professor, Dept of Biochemistry, Bangalore University,  
Bangalore  
Ph: 080-22961349  
Email: [krsmurthy2001@yahoo.com](mailto:krsmurthy2001@yahoo.com)
8. Dr. Nagaraju N  
External Member,  
HOD & Associate Professor, Department of Chemistry,  
St. Joseph College (Autonomous), Bangalore  
Ph: 9886765760  
Email: [nagarajun@yahoo.com](mailto:nagarajun@yahoo.com)
9. Dr. Gautham S. A.  
Internal Member,  
Asst. Professor - Microbiology  
Department of Biological Sciences  
DayanandaSagarUniversity, Bangalore.

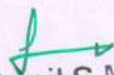
10. Dr. Shyamala K. V.  
Internal Member,  
Asst. Professor - Genetics,  
Department of Biological Sciences  
Dayananda Sagar University, Bangalore.

**Invited Members:**

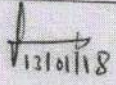
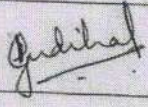
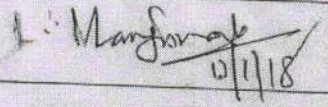

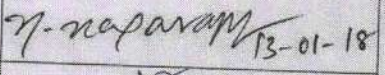

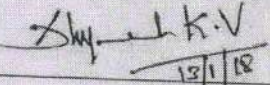
11. Dr. Anu Sharma  
Internal Member,  
Asst. Professor - Biotechnology  
Department of Biological Sciences  
Dayananda Sagar University, Bangalore.

12. Dr. Pradipta Banerjee  
Internal Member,  
Asst. Professor - Biochemistry  
Department of Biological Sciences  
Dayananda Sagar University, Bangalore.


13. Dr. Santosh Choudhari  
Internal Member,  
Asst. Professor - Chemistry  
Department of Biological Sciences  
Dayananda Sagar University, Bangalore.

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

Members Present:

| Sl. No. | Name of the Member   | Signature   |
|---------|----------------------|---|
| 1.      | Dr. Sunil More       | <br>13/01/18   |
| 2.      | Dr. Harish Pai       | - Absent -  |
| 3.      | Dr. Ravindra Gudihal |                |
| 4.      | Dr. P Kondaiah       | - Absent -  |
| 5.      | Dr. Manjunath K      | <br>13/1/18   |
| 6.      | Dr. Rita Christopher | - Absent -  |
| 7.      | Dr. Sidhalingamurthy |              |
| 8.      | Dr. Nagaraju N       | <br>13-01-18 |
| 9.      | Dr. Gautham S. A.    | <br>13-1-18  |
| 10.     | Dr. Shyamala K. V.   | <br>13/1/18  |

Members Absent: 1) Dr. Harish Pai  
2) Dr. P. Kondaiah  
3) Dr. Rita Christopher.

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

**Proceedings of the B.O.S Meeting of B. Sc., Dayananda Sagar University, held on 13.01.2018**

- The meeting of the Board of Studies of was held in the Board Room, CIL, Dr. C.D. Sagar Centre for Life Sciences on 13.01.2018 from 9:30 am.
- The Chairman, welcomed all the members of the board, introduced the external and internal members and initiated the meeting.
- The agenda of the meeting was briefed by the chairman.
- The Board took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.

Agenda 1:

**Proposing III and IV semester M.Sc., Biotechnology, Microbiology and Biochemistry syllabus of academic year 2017-18 for consideration and approval.**

- The board after a thorough deliberation suggested the following corrections in the syllabus of M.Sc. courses. The subject wise suggestions and corrections incorporated are as listed below

**BIOTECHNOLOGY: [ Annexure- 1a]**

**III Semester**

**ANIMAL BIOTECHNOLOGY - 17MBT303**

- Module III - Transgenic animals Concept of Artificial Tissue Printing should be incorporated

**METABOLISM OF BIOMOLECULES - 17MBT321**

- Module III: Amino acid and nucleotide metabolism
- To specify the De novo and salvage pathway of purines and pyrimidine

**GENOMICS AND PROTEOMICS - 17MBT322**

- Module III: Proteomics - Change MALDI-TOF to Mass Spectroscopy
- Include Concept of MudPIT (Multidimensional Protein Identification Technology)
- Remove “Yeast two hybrid system, protein micro array”

**IV Semester**

**BIOPROCESS TECHNOLOGY - 17MBT401**

- Module III: Upstream and Downstream Processing
- Include concept of 'Rheology of fermentation media'

#### **MEDICAL GENETICS AND CYTOGENETICS - 17MBT422**

- Change the course title of the paper from Medical genetics and cytogenetics to "Human Disease Genetics"

#### **BIOPROCESS TECHNOLOGY - 17MBT471**

- Include "Demonstration of batch fermenter"

#### **BIOCHEMISTRY: [ Annexure- 1b]**

##### **III Semester**

#### **Metabolism of Nitrogen Compounds: 17MBC302**

- The title of the paper was renamed as "metabolism of nitrogen compounds" rather than Metabolism of proteins and nucleic acids.
- Module: II - SCID was added.
- Module: IV - Regulations of the amino acids were incorporated.

#### **Ecology and developmental biology: 17MBC305**

- Ecology and developmental biology (soft core) was reformatted and made uniform throughout the program including the course matrix.

#### **Membrane Biochemistry and Nanoscience: 17MBC321**

- Module I - was renamed as Membrane lipids rather than lipid properties.
- Module III - was suggested to be reframed and restructured into the following order: synthesis, property and applications with specific example of nanoparticle application in biology.
- Module III: The words "Brief account" on nanolithography was incorporated instead of the phrase "brief idea".
- Module IV: Nanotechnology application to include specific example of nanobiosensors.
- Module IV: STM and AFM – The words "Principle and applications" have to be included before the techniques.

#### **Plant and Microbial Secondary Metabolites: 17MBC322**

- Module I - Gel-filtration chromatography instead of gel-chromatography.

- Module II - The experts suggested to choose one phytochemical (terpenoids or flavonoids) and describe the techniques needed to identify that particular compound.
- Module II - The words “application” has to be included before the techniques.
- Module II – Change MALDI-TOF to Mass Spectroscopy
- Module IV - Metabolites for food fortification. Definition and specific examples of food additives to be included.

#### **Molecular Biology & Immunotechniques: 17MBC371**

- Isolation and estimation of DNA from only estimation.
- Isolation of immunoglobulins from serum has been incorporated.

#### **Protein Biochemistry: 17MBC372**

- Isoelectric focusing (IEF) was incorporated.

#### **IV Semester**

#### **Genetic Engineering and Biotechnology: 17MBC401**

- Module IV: Safety and handling of PCR was added.

#### **Food Biochemistry and Nutrition: 17MBC421**

- Module III - Nutraceuticals spelling was finalized.
- Module III - FSSAI and health claims regulatory bodies were incorporated.
- Module IV - Functional foods – specific exams of millets were added.

#### **Clinical Biochemistry and Bioengineering: 17MBC422**

- Module I: Diabetes, muscle dystrophy, atherosclerosis and renal failure were added.
- Module II: Regulatory and quality assurance of drugs was incorporated.
- If possible, in third semester industrial visits were suggested by the BOS panel.

#### **MICROBIOLOGY: [ Annexure- 1c]**

#### **III Semester**

- **Medical Microbiology - 17MMB301**

Module 1: It has been suggested to include epidemiology of emerging and re-emerging diseases.

Module 3: It has been suggested prion infections to be separated from viral infections.

Module 4: It has been suggested to incorporate PCR diagnostics and biosafety measures.

- **Industrial Microbiology - 17MMB303**

Module 3– Upstream Processing: It has been suggested to incorporate rheology of fermentation media.

- **Applied Microbiology - 17MMB322**

It has been suggested to incorporate any other elective paper such as Pharmaceutical Microbiology instead of Applied Microbiology during the next complete revision of course matrix.

#### **IV Semester**

- **Clinical Microbiology - 17MMB421**

It has been suggested to include care and handling of pathogens, biological materials and disposal.

- **Microbial Biotechnology - 17MMB422**

It has been suggested to exclude Human genome project and incorporate Yeast Genome Project.

It has been suggested to modify GMO to Genetically Modified Microorganisms

- **Agriculture microbiology and phytopathology - 17MMB471**

It has been suggested to incorporate the below practicals

1. Quality control assessment of biofertilizers (vialibity and shelf life).

2. Study of liquid and solid carrier material.

The suggested modifications and corrections have been accepted and have been duly incorporated in all the papers. The modified syllabus of III and IV semester courses is as per **Annexure Ia, Ib and Ic** for Biotechnology, Biochemistry and Microbiology respectively.

#### Agenda 2:

#### **Proposing hour reduction in B.Sc syllabus from existing 52 hours to 44 hours for the academic year 2019-20.**

- After deliberation the board members suggested that the B.Sc. syllabus for all the courses is exhaustive and in consideration to the number of available working days to offer the course in a semester, they have suggested and approved to appropriately reduce the B.Sc syllabus hours from 52 to 44 for the academic year 2019-20. The attachment is as per **Annexure II.**

Agenda 3:

**Proposing existing B.Sc syllabus for fine tuning.**

**Chemistry**

**V Semester:**

**Paper: Physical Chemistry and Cheminformatics - 15CH301**

- Unit VI: Cheminformatics II the topic regarding “Quantitative Structure-Property Relations; Descriptor Analysis; Structure-Spectra correlations; Prediction of NMR, IR and Mass spectra” was removed.

**VI Semester**

**Paper: Inorganic & Analytical Chemistry - 15CH302**

- Unit IV: Spectroscopy II topic regarding “Predicting the structure of the simple organic compounds using the principles of above spectroscopic techniques” was included.

The suggested modifications have been accepted and incorporated in the papers. The modified chemistry syllabus of V and VI semester B.Sc., course is as per **Annexure III**

Agenda 4:

**Proposing new examination scheme from the existing 40:60 to 50:50 internals to end semester exams for B.Sc., course combinations for the academic year 2019-20.**

New examination scheme 50:50 internals to end semester exams for B.Sc., course combinations was presented to the Board members for consideration and approval. The board members were skeptic regarding the equal weightage of CIA and SEE. However they have suggested the following to be incorporated before initiating the new pattern.

Suggestions:

- New examination scheme requires very strong and transparent evaluation system.
- Monitoring of the documents should be kept open for everybody.
- Overall performance of internals and end semester exams should be matched.
- The committee strongly felt that research of the faculty will be affected as the proposed scheme requires continuous evaluation and monitoring by the faculty.
- Continuous examination will be helpful in improving the student's attendance.

Implementation of new proposed examination scheme is possible only if above mentioned criteria are met - **Annexure IV**.

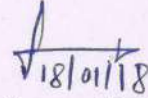
Agenda 5:

**Any other concerning matter, with the permission of the Chairman.**

BOS members strongly recommended for the formation of Institutional Bio-safety and ethical committee as the courses involve handling of bio hazardous material. Which is mandatory for all the accreditation and regulatory processes.

**Date: 13.01.2018**

**Place: Bangalore**

  
18/01/18

**Chairman BOS**

**Dr. Sunil S More**

**Professor & Dean**

**School of Basic & Applied Sciences,**

**Dayananda Sagar University,**

**K. S. Layout, Bengaluru-78.**

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

Date: 06/12/2107

To  
The Vice-Chancellor  
Dayananda Sagar University,  
Bangalore.

Through Proper Channel

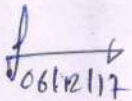
Sub: Seeking your approval for agenda items as per Annexure – I for the upcoming BOS meeting.

Respected Sir,

The Board of Studies meeting for School of Basic and Applied Sciences is scheduled to be held on 13<sup>th</sup> Jan, 2018. The Agenda items as per Annexure – I of the BOS meeting has been attached with the letter. I request you to kindly approve agenda items for the same.

With Kind Regards

Yours faithfully,

  
06/12/17

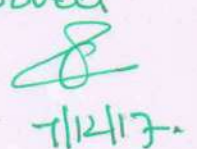
Dr. Sunil More

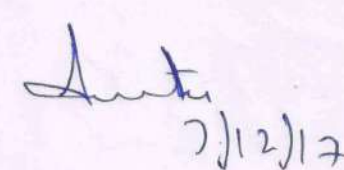
Dr. Sunil S More  
Professor & Dean

School of Basic & Applied Sciences,  
Dayananda Sagar University,  
K. S. Layout, Bengaluru-78.

→ VC Sir  
For kind approval.

OK  


  
7/12/17

  
7/12/17





**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., DSU

DATE: 13.01.2018

TIME: 9: 30 AM TO 12:00PM

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

**AGENDA OF THE MEETING:**

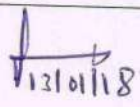
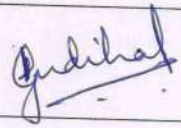
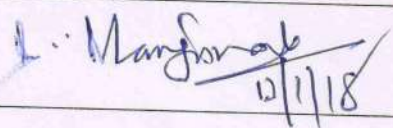

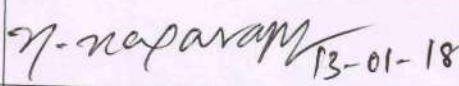
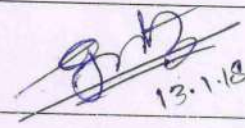
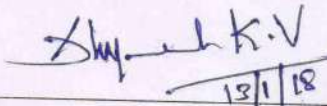
1. Proposing of III and IV semester M.Sc., Biotechnology, Microbiology and Biochemistry syllabus of academic year 2017-18 for consideration and approval.
2. Proposing hour's reduction in B.Sc syllabus from existing 52 hours to 44 hours for the academic year 2019-20.
3. Fine tuning in the existing B.Sc syllabus.
4. Proposing new examination scheme from the existing 40:60 to 50:50 internals to end semester exams for B.Sc., course combinations for the academic year 2018-19.
5. Any other concerning matter, with the permission of the Chairman.

2019-20

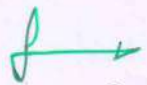
Sd-

Chairman BOS

**Members Present:**

| Sl. No. | Name of the Member   | Signature  |
|---------|----------------------|--|
| 1.      | Dr. Sunil More       | <br>13/01/18  |
| 2.      | Dr. Harish Pai       | - Absent -   |
| 3.      | Dr. Ravindra Gudihal |               |
| 4.      | Dr. P Kondaiah       | - Absent -   |
| 5.      | Dr. Manjunath K      | <br>13/1/18  |
| 6.      | Dr. Rita Christopher | - Absent -   |
| 7.      | Dr. Sidhalingamurthy |             |
| 8.      | Dr. Nagaraju N       | <br>13-01-18 |
| 9.      | Dr. Gautham S. A.    | <br>13.1.18 |
| 10.     | Dr. Shyamala K. V.   | <br>13/1/18 |

**Members Absent:** 1) Dr. Harish Pai  
2) Dr. P. Kondaiah  
3) Dr. Rita Christopher.

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



**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., DSU

DATE: 09.02.2019

TIME: 9: 30 AM TO 12:00PM

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

**AGENDA OF THE MEETING:**

1. Proposing new course matrix scheme for all six semesters BSc as per choice based credit system (CBCS) guidelines.
2. Proposing new course matrix scheme for all four semesters MSc as per CBCS guidelines.
3. Approval of 1 year BSc syllabus as per CBCS.
4. Approval of 1 year MSc syllabus as per CBCS.
5. Any other concerning matter, with the permission of the Chairman.

**BOS Members:**

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. Dr Sundaram P M  
Product Manager  
Biopharma, Waters India Pvt Ltd.  
Peenya Industrial Area, Bengaluru  
Ph : 7619500273  
Email : [hisundarji@gmail.com](mailto: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](mailto: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](mailto:Ushamanjunath58@rediffmail.com)
  
6. Dr. Rita Christopher  
External Member,  
Professor and Head, Department of Neurochemistry,  
National Institute of Mental Health and Neuro Sciences,  
Bangaluru  
Ph: 080-26995163/62  
Email: [rita@nimhans.kar.nic.in](mailto:rita@nimhans.kar.nic.in)
  
7. Dr. Sidhalingamurthy .*K.R*  
External Member,  
Professor, Dept of Biochemistry, Bangalore University,  
Bangalore  
Ph: 080-22961349, 9845655197  
Email: [krsmurthy2001@yahoo.com](mailto:krsmurthy2001@yahoo.com)
  
8. Dr Girish S K  
Professor and Chairman  
Department of Biochemistry  
Tumkur University ,BH Road  
Tumkuru, Karnataka- 572103  
Ph : 9964080540  
Email : [ksgbaboo@gmail.com](mailto: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](mailto:anirudha.lakshminarasimhan@gmail.com)

10. Dr. Anu Sharma  
Internal Member,  
Asst. Professor - Biotechnology  
Department of Biological Sciences  
Dayananda Sagar University, Bangalore. X

11. Dr. Gautham S. A.  
Internal Member,  
Asst. Professor - Microbiology  
Department of Biological Sciences X  
DayanandaSagarUniversity, Bangalore.

12. Dr. Nagaraju N  
External Member,  
HOD & Associate Professor, Department of Chemistry,  
St. Joseph College (Autonomous), Bangalore  
Ph: 9886765760  
Email: [nagarajun@yahoo.com](mailto:nagarajun@yahoo.com)



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

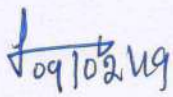
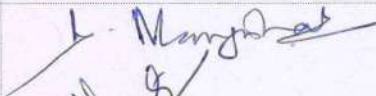
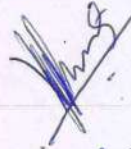
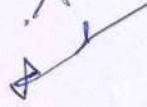
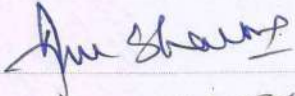
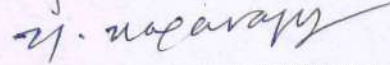
DOCUMENT TITLE: BOARD OF STUDIES MEETING of B.Sc. and M.Sc., DSU

DATE: 09.02.2019

TIME: 9: 30 AM TO 12:00PM

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

Members present

| Name                             | Designation     | Signature   |
|----------------------------------|-----------------|---|
| Dr. Sunil More                   | Chairman        |   |
| Dr. Manjunath K                  | External member |   |
| Dr. Sidhalingamurthy             | External member |  |
| Dr Anirudha<br>Lakshminarasimhan | External member |  |
| Dr. Anu Sharma                   | Internal member |   |
| Dr. Nagaraju N                   | External member |   |

Members Absent :

1. Dr Harish Pai
2. Dr P. Kondaiah
3. Dr Sundaram P M
4. Dr. Rita Christopher.
5. Dr Girish S K.
6. Dr Gautham S A.

**Proceedings of the B.O.S. Meeting of Dayananda Sagar University, held on 09.02.2019**

- The meeting of the board studies was held in C.D. Sagar Building on 09.02.2019 from 10.00 am.
- The chairman welcomed all the members of the board, introduced the members and initiated the meeting.
- The agenda of the meeting was briefed by chairman.
- The Board took up the appropriate decisions on all the agendas of the meeting after a detailed deliberation.

**Agenda 1:** Proposing new course matrix scheme for all six semesters B.Sc. as per choice based credit system (CBCS) guidelines. **(Annexure 1)**

- The board members suggested to include basic life science course as common subject for the all the combinations. The suggestion was included in the B.Sc. course matrix. No separate course was created instead changes included in the existing papers.
- Board members suggested to change the name of ability enhancement course 'English' to 'Communicative English'.
- The new course matrix for the B.Sc. was appreciated and approved by the B.O.S. members.

**Agenda 2:** Proposing new course matrix scheme for all four semesters M.Sc. as per CBCS guidelines. **(Annexure 2)**

- The new course matrix for the M.Sc. was appreciated and approved by the B.O.S. members.

**Agenda 3:** Approval of 1 year B.Sc. syllabus as per CBCS. (**Annexure 3**)

- A blow up syllabus was presented before the BOS members. After detailed deliberation BOS members suggested few changes in the papers of 1st semester such as basic chemistry paper and fine tuning was suggested in paper Basic genetics (19BS103). However Cell Biology, Basic Genetics and all associated labs were well appreciated and approved without any changes.
- The 2nd semester BSc common blow up syllabus of life science was presented before the BOS member. After deliberation corrections were suggested in few modules and fine tuning suggested in hour allocations in subjects like general microbiology and analytical techniques, basic biochemistry papers and practicals pertaining to core subjects were approved without any changes.

**Agenda 4:** Approval of 1 year M.Sc. syllabus as per CBCS. (**Annexure 4a, 4b and 4c**)

- A blow up syllabus of MSc first year was presented before the BOS members after detailed deliberation. Members suggested few changes in the following syllabus of Biochemistry, Biotechnology and microbiology papers.
- BOS appreciated the common syllabus for 1st sem and 2 core papers in 2nd semester uniformly across all the 3 PG programmes.
- This will prevent redundancy of the paper and enhance higher skills for advance studies, placements and competitive exams.
- A blow up syllabus of 1st semester common M.Sc. syllabus was presented before the BOS members and they suggested fine tuning in Fundamentals of Chemistry, Biomolecules, Genetic engineering and module restructuring was suggested for General Microbiology paper.
- However the associated labs were well appreciated with no changes.

- For soft core and skill enhancement courses member felt the core should be expected in bioinformatics lab to get hands on skills which should lead to complete understanding of real time problems.
- Two common papers, Molecular Biology and Analytical techniques in 2<sup>nd</sup> semester of MSc were presented before the members. After detail deliberations members appreciated and approved the syllabus.
- In MSc Biochemistry, for Human Physiology and Metabolism I fine tuning was suggested. Respective labs in the semester were approved without any changes.
- Complete syllabus of Genetic Engineering and Advanced Cell Biology, was presented and fine tuning was suggested in Genetic Engineering course by BOS members and associated labs were appreciated and approved.
- Complete syllabus of Prokaryotic and Eukaryotic Microbiology, Microbial Physiology was presented and fine tuning was suggested by BOS members and associated labs were appreciated and approved.
- Minor title correction in 2nd semester MSc Microbiology lab course - Prokaryotic and Eukaryotic Microbial Physiology was changed to Prokaryotic and Eukaryotic Microbiology and Microbial physiology.

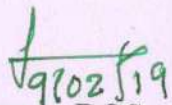
**Agenda 5:** Any other concerning matter, with the permission of the Chairman.

- Detailed scheme of evaluation of B. Sc. Courses for theory and practical's have been placed before BOS members and approved. **(Annexure 5)**
- Question paper pattern for the end semester examination of B. Sc. Courses has been placed before BOS. members and approved. **(Annexure 6)**
- A new question paper pattern for the end semester examination of M. Sc. Courses has been placed before BOS members and approved. **(Annexure 7)**

The Chairman of the BOS thanked all the externals and internals for their time and valuable suggestion for revising the UG and PG syllabus of Biological Sciences.

Date:

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

live the dream

Innovation Campus  
Hosur Main Road, Kudlu Gate  
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+91-80-49092924, 49092908  
Fax: +91-80-42201997  
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,<br>Dayananda Sagar University<br>Email Id: drsunil-sbas@dsu.edu.in<br>Mobile No : 9481787729                             | Chairperson |
| 2     | Dr. Harish Pai       | Associate Director, Research Development,<br>BIOCON, Bengaluru<br>Email Id:harishvpai@gmail.com<br>Mobile No - 9902161509  | Member      |
| 3     | Dr. Sundaram P M     | Product Manager, Biopharma Waters India Pvt Ltd., Bengaluru<br>Email Id:hisundarji@gmail.com<br>Mobile :7619500273   | Member      |
| 4     | Dr. P Kondaiah       | Professor, Dept of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bengaluru<br>Email Id:paturu@mrdg.iisc.ernet.in<br>Contact No:080-293 2688   | Member      |
| 5     | Dr Manjunath K       | Professor. Dept of Post Graduate Studies in Biotechnology & Microbiology, BU<br>Email Id:ushamanjunath58@rediffmail.com<br>Mobile:9611434966                                   | Member      |
| 6     | Dr.Rita Christopher  | Professor & Head Dept of Neurochemistry, National Institute of Mental Health and Neuro Sciences, Bengaluru<br>Email Id: rita@nimhans.kar.nic.in<br>Contact No:080-26995163 /62 | Member      |
| 7     | Dr. Sidhalingamurthy | Professor, Dept of Biochemistry,<br>Bangalore University<br>Email Id:krsmurhty2001@yahoo.com<br>Contact No:080-22961349  | Member      |

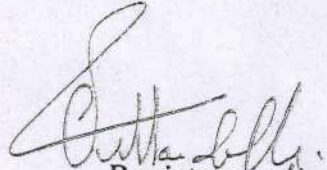
Contd.

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

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

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

  
Registrar 2/10/2020  
Dr. Puttamadappa C.  
Registrar  
Dayananda Sagar University  
Bangalore

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 1<sup>st</sup> 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 2<sup>nd</sup> 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.
7. Also, as per the instructions of the Vice Chancellor, we have reframed the course matrix and syllabus for the B.Sc. and M.Sc. programs. We request your approval on the same.

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 1<sup>st</sup> year syllabus

ANNEXURE 5 – Minor Degree Courses

5A – Bioinformatics

5B – Molecular Biotechnology


5C – Food Science


ANNEXURE 6 – Short term certificate courses


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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.


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#### **9 attachments**


 **Agenda 20-21scheme (1).docx**  
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 **ANNEXURE 2.docx**  
98K


 **ANNEXURE 3 (1).docx**  
100K

 **ANNEXURE 4.doc**  
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 **ANNEXURE 1.docx**  
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 **ANNEXURE 5C.docx**  
62K

 **ANNEXURE 5B.docx**  
76K

 **ANNEXURE 6.docx**  
51K

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**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]

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**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]

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 **ANNEXURE 4.doc**  
145K

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**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]

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**SUNDAR** <hisundarji@gmail.com>

Wed, Jul 22, 2020 at 3:01 PM

<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]

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**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]

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**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 one could do.

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>; ushamanjanath58@rediffmail.com  
<ushamanjanath58@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 <rpais@dsu.edu.in>; 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, ushamanjanath58@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 1<sup>st</sup> 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 60:40 scheme)
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 1<sup>st</sup> 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,  
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Email: [harishvpai@gmail.com](mailto:harishvpai@gmail.com)
3. DrSundaram P M  
Product Manager  
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4. Dr. P Kondaiah

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5. Dr. Manjunath K  
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Bangalore  
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9. DrAnirudhaLakshminarasimhan  
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10. Dr. Roshan K. Pais  
Internal Member  
Assistant Professor

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[rpais@dsu.edu.in](mailto: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](mailto: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

23/07/2020

**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.

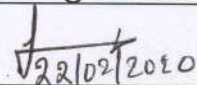

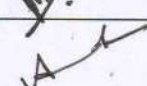

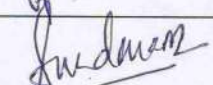
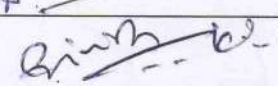
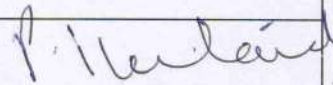

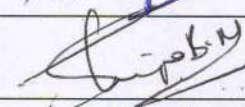
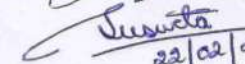
Documentation Title: 7th Board of Studies Meeting of B.Sc and M.Sc, DSU

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:

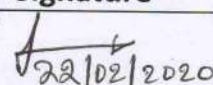

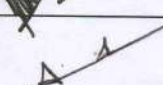
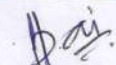
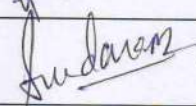
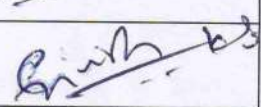
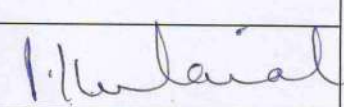
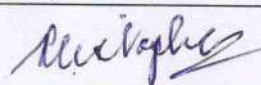
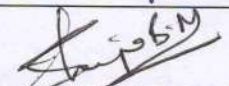
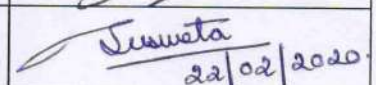
| Sl.Nos. | Name of the members               | Designation     | Signature  |
|---------|-----------------------------------|-----------------|--|
| 1       | Dr. Sunil S More                  | Chairman        | <br>22/02/2020              |
| 2       | Dr. Manjunath K                   | External Member | ABSENT   |
| 3       | Dr. Sidhalingamurthy              | External Member |                            |
| 4       | Dr. Anirudha<br>Lakshminarasimhan | External Member |                            |
| 5       | Dr. Harish Pai                    | External Member |                           |
| 6       | Dr. Sundaram P.M                  | External Member |                           |
| 7       | Dr. Girish S K                    | External Member |                           |
| 8       | Dr. Nagaraju. N                   | External Member | ABSENT   |
| 9       | Dr. P Kondaiah                    | External Member |                           |
| 10      | Dr. Rita Christopher              | External Member |                           |
| 11      | Dr. Shilpa B M                    | Internal Member |                           |
| 12      | Dr. Susweta Das                   | Internal Member | <br>Susweta<br>22/02/2020 |



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        | <br>22/02/2020              |
| 2       | Dr. Manjunath K                | External Member | ABSENT   |
| 3       | Dr. Sidhalingamurthy           | External Member |                            |
| 4       | Dr. Anirudha Lakshminarasimhan | External Member |                           |
| 5       | Dr. Harish Pai                 | External Member |                           |
| 6       | Dr. Sundaram P.M               | External Member |                           |
| 7       | Dr. Girish S K                 | External Member |                           |
| 8       | Dr. Nagaraju. N                | External Member | Absent   |
| 9       | Dr. P Kondaiah                 | External Member |                           |
| 10      | Dr. Rita Christopher           | External Member |                           |
| 11      | Dr. Shilpa B M                 | Internal Member |                           |
| 12      | Dr. Susweta Das                | Internal Member | <br>Susweta<br>22/02/2020 |



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

DOCUMENT TITLE: 7<sup>th</sup> 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 2<sup>nd</sup> year B.Sc. syllabus as per CBCS.
2. Approval of 2<sup>nd</sup> year M.Sc. syllabus as per CBCS.
3. 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.

12/02/2020

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:**

1. Proposing new course matrix scheme for BSc (Applied Biology) four years program as per choice-based credit system (CBCS) guidelines.
2. Approval for 1<sup>st</sup> year BSc syllabus as per new course matrix for the new BSc Applied Biology program.
3. Approval for BSc 2<sup>nd</sup> year syllabus (3<sup>rd</sup> and 4<sup>th</sup> semester) as per course matrix for the 2020-2021 batch.
4. Approval for BSc 3<sup>rd</sup> year syllabus (5<sup>th</sup> and 6<sup>th</sup> 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 6<sup>th</sup> semester for 2019-20 Batch.
6. MSc Human Genetics - Approval for 2<sup>nd</sup> 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](mailto:harishvpai@gmail.com)

3. Dr Sundaram P M  
Product Manager  
Biopharma, Waters India Pvt Ltd.  
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Bengaluru  
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4. Dr. P Kondaiah  
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5. Dr. Manjunath K  
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6. Dr. Rita Christopher  
External Member,  
Professor and Head, Department of Neurochemistry,  
National Institute of Mental Health and Neuro Sciences,  
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| Name of the BOS Member – <b>PRESENT</b> |  |
|---|--|
|---|--|

- |    |                                |
|----|--------------------------------|
| 1. | Dr. Sunil More                 |
| 2. | Dr. P Kondaiah                 |
| 3. | 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 - <b>ABSENTEES</b> |  |
|---|--|
|---|--|

- |    |                      |
|----|----------------------|
| 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:

| <b>Sl. No</b> | <b>Name of members</b>            | <b>Designation</b> | <b>Signature</b> |
|---------------|-----------------------------------|--------------------|------------------|
| 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<br>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 (5<sup>th</sup> and 6<sup>th</sup> semester), BSc 2020-2021 (3<sup>rd</sup> and 4<sup>th</sup> semester), MSc (Genetics) syllabus for 2<sup>nd</sup> 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 2<sup>nd</sup> year syllabus (3<sup>rd</sup> and 4<sup>th</sup> 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 2<sup>nd</sup> year (4<sup>th</sup> 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 3<sup>rd</sup> year syllabus (5<sup>th</sup> and 6<sup>th</sup> semester) as per course matrix for the 2019-2020 batch. **(ANNEXURE 2)**

- For the 6<sup>th</sup> 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 6<sup>th</sup> Semester, MATERIAL SCIENCE (19OE3602) was advised to change the Title from “Material Science to INDUSTRIAL MATERIALS (19OE3602)”. Since, the latter denoted the subject as vast area the title has been changed on the advice of the BOS members as **INDUSTRIAL MATERIALS (19OE3602)**.
- **Elective paper I** in 5<sup>th</sup> Semester, **Health and Diseases (19OE3502)** has been revised as per the suggestions.

**AGENDA III:** Change of elective paper from Industrial Biotechnology to **Principles of Clinical Toxicology (19OE3601)** in course matrix of BSc 6<sup>th</sup> semester for 2019-20 Batch.

- As per the course matrix the subject Industrial Biotechnology reflected the syllabus almost similar to Fermentation technology (**19OE3601**).
- Hence, with the permission and after the syllabus approval the paper has been approved for **PRINCIPLES OF CLINICAL TOXICOLOGY-19OE3601** for 6<sup>th</sup> 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-(19OE3601)** is open to students who have a course of Animal and Clinical Physiology.

**AGENDA IV:** MSc Human Genetics - Approval for 2<sup>nd</sup> 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 4<sup>th</sup> 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 4<sup>th</sup> 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, 6<sup>th</sup> 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, 4<sup>th</sup> 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)**

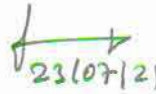
- The four years program as per choice-based credit system (CBCS) guidelines was discussed with the Board of members.
- Committee members suggested that there is a **need for further detailed deliberation** with respect to the course matrix pertaining to addition of Basics and taking in consideration 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 7<sup>th</sup> and 8<sup>th</sup> semesters instead of Dissertation/Minor project.

**AGENDA VII:** Approval for 1<sup>st</sup> 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 1<sup>st</sup> 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**

  
23/07/21

**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  
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, 4<sup>th</sup> 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 3<sup>rd</sup> year syllabus (5<sup>th</sup> and 6<sup>th</sup> semester) as per course matrix for the 2020-2021 batch.
3. Fine tuning in course matrix of 5<sup>th</sup> and 6<sup>th</sup> semester for the 2020-2021 batch.
4. Fine tuning in existing M.Sc. syllabus
5. Discussion on Feedback about curriculum from stakeholders

**BOS MEMBERS:**

1. Dr. Sunil More  
Chairman - B.O.S.  
Dean - SBAS,  
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| <b>List BOS Members – Attended</b> |                                |
|------------------------------------|--------------------------------|
| 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                  |

| <b>BOS Members - Not Attended</b> |                      |
|-----------------------------------|----------------------|
| 1.                                | Dr. Rita Christopher |
| 2.                                | Dr. GirishK.S        |



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

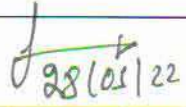
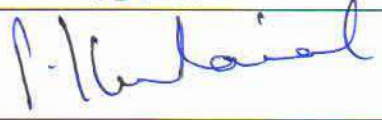
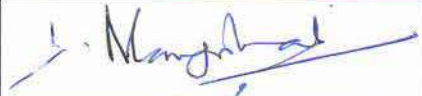



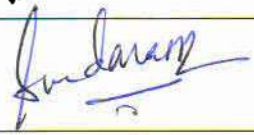



**DOCUMENT TITLE:** 'Board of Studies Meeting' regarding, B.Sc. Program and the approval of new B.Sc. HONS. Program (complied with UGC guidelines), School of Basic and Applied Sciences, DSU

**DATE:** 28-05-2022

**TIME:** 9.30 AM

**VENUE:** CD Sagar building #10, 4<sup>th</sup> 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        |   |
| 2      | Dr. P Kondaiah                 | External member |  |
| 3      | Dr. Manjunath K                | External member |   |
| 4      | Dr. Sidhalingamurthy           | External member |  |
| 5      | Dr. Anirudha Lakshminarasimhan | External member |  |
| 7      | Dr. Harish Pai                 | External member |  |
| 8      | Dr. Sundaram P M               | External member |  |
| 9      | Dr. Ravishankar G.A.           | Special Invitee |   |
| 10     | Dr. Ganapati Bhat              | Internal member |  |
| 11     | Dr. Ajay Nair                  | Internal member |  |

**Proceedings of the 10<sup>th</sup> 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, 4<sup>th</sup> 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 6<sup>th</sup> semester which include all the aspects of **proteomics, genomics, lipidomics and metabolomics**

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

Minor modification and fine tuning in the proposed 5<sup>th</sup> and 6<sup>th</sup> 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**)

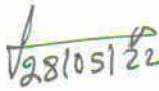






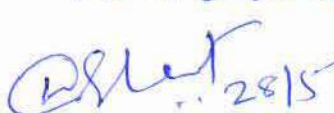

**From the existing syllabus of paper ‘PRINCIPLES OF ENZYMOLOGY AND METABOLISM (20MBT5323)’ fine tuning and revision was done. (ANNEXURE 3)**

**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.**

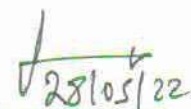
All the suggested modifications/changes were incorporated during the time of BOS meeting.

**BOS Committee members,**

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

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**