



Sri Dharmasthala Manjunatheshwara College
(Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State

(Re-accredited by NAAC at "A" grade with CGPA 3.61 out of 4)

BOS Meeting Minutes

Department of Biotechnology

2018-19



Sri Dharmasthala Manjunatheshwara College (Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State

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SDM College, Ujire
(Autonomous)

Department of Biotechnology

Meeting of the Board of Studies on 07.08.2018 at 10.30 AM

Agenda

1. Reading the minutes of the previous BOS meeting & action taken report
2. Review of the syllabus – Incorporating skill components
3. Review of the question paper pattern
4. Review of the results 2017-18
5. Finalizing the list of Examiners
6. Implementation of CBCS regarding
7. Introduction of new subjects/components/units regarding
8. Any other matter



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SDM College (Autonomous), Ujire – 574240 Department of Biotechnology Board of Studies – 2018 – 2019

Chairman	Dr. B. A. Kumara Hegde Associate professor HOD of Botany & Biotechnology SDM College, Ujire	
Internal members	Abhijeeth Badiger, Assistant Professor Dept. of Biotechnology, SDM College, Ujire Ganesh V. Shendye Assistant Professor, Dept. of Biotechnology SDM College, Ujire Kruthika K.J., Assistant Professor, Dept. of Biotechnology, SDM College, Ujire Shreesha Naik Bajpe Assistant Professor, Dept. of Biotechnology SDM College, Ujire	
Subject Experts	Dr. Jayadev K. Associate Professor, Dept. of Biotechnology, Alva's College, Moodabidre, Ph: 9481319319	ABSENT
Representative from industry/corporate sector/allied area relating to placement.	Dr. Avila D'souza Director, EUCHEM Biologicals Pvt. Ltd. Plot No.10/ Shivalli Industrial area Alevoor Road, Manipal-576104, M: 9448240099	 7/8/2018
Post Graduate meritorious, Alumni	Mrs. Srividya Nitte University, Center for Science Education & Research (NUCSER) Paneer Campus, Deralakatte Mangalore – 575018, Ph: 8748996464	
University Nominee	Dr. Bharathi Prakash Associate Professor Dept. Micro Biology University College, Hampankatta, Mangalore	



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SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE (AUTONOMOUS)



UJIRE-574 240

DAKSHINA KANNADA, KARNATAKA STATE

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DEPARTMENT OF BIOTECHNOLOGY-UG

Proceedings of BOS meeting

Date: 07-08-2018

Time: 10.30 AM

Venue: Discussion room, SDM College, Ujire

AGENDA NO	AGENDA
Agenda 1 SDMCU /BIOTECH-BOS/2018-19/01/01	Reading the minutes of the previous BOS meeting & action taken report
Agenda 2 SDMCU /BIOTECH-BOS/2018-19/01/02	Review of the syllabus – Incorporating skill components
Agenda 3 SDMCU /BIOTECH-BOS/2018-19/01/03	Review of the question paper pattern
Agenda 4 SDMCU /BIOTECH-BOS/2018-19/01/04	Review of the results 2017-18
Agenda 5 SDMCU /BIOTECH-BOS/2018-19/01/05	Finalizing the list of Examiners
Agenda 6 SDMCU /BIOTECH-BOS/2018-19/01/06	Implementation of CBCS regarding
Agenda 7 SDMCU /BIOTECH-BOS/2018-19/01/07	Introduction of new subjects/components/units regarding





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Agenda 8	Any other matter
SDMCU /BIOTECH-BOS/2018-19/01/08	

Members present:

Sl. No.	Name & Address	Designation
1.	Dr. Kumara Hegde B.A HOD Department of Botany & Biotechnology SDM College Ujire	Chairperson
2.	Dr. Bharathi Prakash Assistant professor University College Hampankatta	University Nominee
3.	Dr. Suchetha Shetty Director , KSHEMA PVT. LTD, Deralakatte	Subject Expert
4.	Dr. Avila D'Silva Director EUCHEM Biologicals Pvt. Lt. Udupi	Industrial Representative
5.	Ms. Shrividya, Research Scholar, NUCER, Nitte University, Paneer Campus , Deralakatte	Alumni
6.	Mr. Ganesh V Shendye Department of Botany SDM College Ujire	Member
7.	Mr. Abhijeeth S Badiger, Assistant Professor Department of Biotechnology, SDM College Ujire	Member
8.	Ms. Krithika K J, Assistant Professor,	Member



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	Dept. of Biotechnology, SDM College, Ujire	
9.	Mr. Shrisha Naik Bajpe, Assistant Professor Department of Biotechnology, SDM College Ujire	Member

Members Absent:

1.	Dr. Jayadev K Assistant professor Department of Biotechnology Alvas College Moodabidri	Subject Expert
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Agenda 1

Reading the minutes of the previous meeting & action taken report

The minutes of the previous meeting was read by the BOS chairman & placed the action taken report for approval.

- Removed the topic tryptophan operon in paper IV of IV semester
- Modified the topic prokaryotic transcription and translation as complexity & difference in eukaryotic transcription and translation in Unit I of paper IV of IV semester.
- Modified HGP in detail as purpose and fulfillment of Human Genome project in unit IV of paper IV of IV semester.
- Modified drug intermediates as drug adulteration with popular adulterants in paper VIII of VI semester.
- Conducted orientation on basics of lab management.
- Trained the students to handle the instruments
- Conducted industrial visits

Board approved the minutes & the action taken report



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Agenda 2

Review of the syllabus – Incorporating skill components

(Annexure

1)

The board resolved to incorporate the following items in curriculum

- To organize orientation program on the basic instrumentation which includes the principle, purpose, parts of different basic instruments
- To conduct training programs maintain the aseptic condition of the laboratory.
- Hands on training regarding preparation of different types of media
- Orientation regarding lab safety, hazards & disposal of waste
- In paper I of semester I only application of NMR & Crystallography should be included instead of the detailed study
- In paper III of semester III water analysis practical should be included
- In paper III of semester III Only Role of MHC in graft rejection should be included instead of complete study of MHC

Board identified the topics that highlighted Environmental, Global, National and local issues. Following were the topics that highlighted the environmental issues

1. Biosphere
2. Biomes and their characteristic
3. Traditional use of plant resource
4. Conservation strategies of medicinal plants

Topics highlighting local, National and Global issues are

1. Human Genome Project
2. Biogeographic regions of India and Karnataka
3. Medicinal Plants conservation

Further the board reviewed the papers highlighting entrepreneurship, employability and skill development.

Following are the papers focusing employability, entrepreneurship and skill development.

Papers focusing employability

1. Paper 1 – Biochemistry and Biophysics
2. Paper 8 – Phytochemistry and drug development
3. Paper 5 – Medicinal Plant diversity
4. Paper 2 – Cell Biology & Genetics

Papers focusing entrepreneurship

1. Paper 3 – Microbiology & Immunology
2. Paper 6 – Medicinal Plant tissue culture technology & Environmental technology



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Papers focusing skill development

1. Paper 4 – Molecular Biology & rDNA technology
2. Paper 7 – Animal cell culture technology & Bioinformatics
3. All practical papers

The board reviewed the syllabus and resolved to make the above changes

Agenda 3

Review of the question paper pattern

The board resolved to retain the existing pattern of question paper

Agenda 4

Result analysis of the semester examination of 2017-18 was done. The detail of result is as follows

1st sem – 87.5%

2nd sem – 96.3%

3rd Sem – 100%

4th Sem – 94.12%

5th Sem – 97.37%

6th Sem – 100%

The board approved the agenda

Agenda 5

Finalizing the list of Examiners

(Annexure 2)

Board updated and approved the list of examiners with the following changes

Ms. Prithvi Shirahatty Assistant Professor, Department of Biotechnology, SDM College Ujire has been removed from the list as she left the institution.

The list was approved

Agenda 6

Implementation of CBCS regarding



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In view of CBCS to be implemented from the academic year 2019-20, it is resolved to adopt the new pattern and adhere to the modalities and regulations of Mangalore University in the academic year, 2019-20.

Agenda was approved

Agenda 7

Introduction of new subjects/components/units regarding

In view of anticipated guidelines from University Grants Commission regarding the changes in curriculum, the board has resolved not to introduce new subjects in the ensuing academic year.

Agenda was approved

Agenda 8

Any other matter

Members discussed on the recent developments and trends in Biotechnology.
Members suggested to update the list of references.

Meeting concluded with proposing vote of thanks to all the members.


Dr. Kumara Hegde B.A.
(B.O.S Chairperson)



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Annexure 1

Highlights of the syllabus

Name of the courses(papers)	Topic which Highlights the environmental, Global, Local and National issues
Medicinal Plant diversity & Bioethics	1. Biosphere 2. Biomes and their characteristic 3. Traditional use of plant resource 4. Conservation strategies of medicinal plants
Plant Biotechnology & Environmental Biotechnology practical	1. Bioremediation 2. Microbiological treatment of wastes 3. Biofertilizer production 4. Pollution control measures

development during the last 4 years

Name of the Course	Topics	Employability/ Entrepreneurship/ Skill development
Biochemistry & Biophysics	1. Electrophoresis, 2. Centrifugation 3. Qualitative estimation of Biomolecules	Employability
	1. Spectroscopy 2. Electrophoresis 3. NMR & x-ray crystallography	Skill development
	1. Microscopy 2. Chromatography 3. Electrophoresis 4. Centrifugation 5. Spectroscopy	Entrepreneurship
Biochemistry & Biophysics Practical	1. Quantitative and qualitative estimations of Biomolecules	Skill development
Cell Biology & Genetics practical	1. Counting of RBC and WBC	Skill development
Microbiology & Immunology	1. Nutrient media and selective media 2. Growth kinetics 3. Antigen antibody reactions	Employability
	1. Selective isolation of media	Skill development



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	2. Concepts of sterilization and disinfectants	
	1. Nutrient media and selective media 2. Growth kinetics 3. Antigen antibody reactions	Entrepreneurship
Microbiology & Immunology practical	1. Serial dilution 2. Nutrient media preparation	Skill development
	1. Blood grouping	Entrepreneurship
	1. Isolation and characterization of microbes	Employability
Molecular Biology & Recombinant DNA technology	1. Screening and selection of recombinants 2. Insertion inactivation 3. PCR	Employability
	1. Blotting techniques 2. Isolation and purification of DNA	Skill development
	1. Construction of cDNA libraries 2. Blotting techniques	Entrepreneurship
Molecular Biology & Recombinant DNA technology	1. Isolation of DNA & RNA 2. Quantitative analysis of DNA & RNA	Skill development
Medicinal Plant diversity & Bioethics	1. Traditional use of plant resource 2. Drug substitution and adulteration	Employability
	1. Introduction to Ayurvedic pharmacognosy	Skill development
	1. Types of IPR 2. Patenting	Entrepreneurship
Plant Biotechnology & Environmental Biotechnology	1. Micropropagation techniques 2. Biofuels 3. Biopesticides 4. Pollution control measures	Employability
	1. Callus culture 2. Haploid culture	Skill development



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	3. Protoplast isolation	
	1. Production methods of Biofertilizer 2. Cryopreservation 3. Micropropagation	Entrepreneurship
Plant Biotechnology & Environmental Biotechnology practical	1. Sterilization techniques 2. Synthetic seed 3. Water analysis 4. Micropropagation	Skill development
Animal Biotechnology & Bioinformatics	1. Cell lines 2. Bioreactors 3. Transfection of animal cells	Employability
	1. Media for animal cell culture 2. HAT selection 3. Primary cultures 4. Laboratory organization	Skill development
	1. Hepatitis B Vaccine production 2. Production of monoclonal antibodies	Entrepreneurship
Phytochemistry & Drug development	1. Chromatographic techniques 2. Principles and approaches of pharmaceutical chemistry 3. Clinical trials 4. Pharmacodynamics and pharmacokinetics	Employability
	1. Spectroscopy 2. Instrumentation	Skill development
	1. Drug development protocol	Entrepreneurship
Phytochemistry & Drug development practical	1. Qualitative analysis 2. TLC 3. Bioinformatic tools 4. Soxhlet extraction	Skill development