



**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**

### **2017-18**



# 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)

SDM College, Ujire  
(Autonomous)

Department of Biotechnology

Meeting of the Board of Studies on 04.09.2017 at 10.30 AM

## Agenda

1. Reading the minutes of the previous BOS meeting & action taken report
2. Analysis of the semester end examination result
3. Change in the syllabus content
4. Change in the question paper pattern
5. Review of panel of examiners list
6. Any other matter



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Ch\_BOS Letter 2017

**SDM College (Autonomous), Ujire – 574240**  
**Department of Biotech**  
**Board of Studies – 2017 – 2018**

Date: 04/09/2017

Status	Name	Signature
Chairman	Dr. B. A. Kumara Hegde Associate professor HOD of Botany & Biotechnology SDM College, Ujire,	
Internal members	Ganesh V. Shendye Assistant Professor, Department of Botany & Biotechnology, SDM College, Ujire  Abhijeeth Badiger, Assistant Professor Dept. of Biotechnology SDM College, Ujire  Mrs. Prithvi S. Shirahatty, Assistant Professor Department of Biotechnology, SDM College, Ujire  Ramya D.M., Assistant Professor Department of Biotechnology, SDM College, Ujire	   
Subject Experts	Dr. Suchetha Shetty Professor in Biochemistry, Dept. of Biochemistry KSHEMA, Derlakatte, Mangalore  Dr. Raghavendra Rao, Associate Professor, PG Dept of Biotechnology. Alva's College, Moodabidri	 4/9/2017
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	 4/9/2017
Post Graduate meritorious, Alumni	Ms. Greeshma A.A., Research Scholar, PG. Dept. of Biotechnology, Mangalore University, Mangalore	
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**  
(Re-Accredited by NAAC at 'A' Grade with CGPA 3.61 out of 4)  
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**DEPARTMENT OF BIOTECHNOLOGY-UG**  
**Proceedings of BOS meeting**

Date: 04-09-2017

Time: 10.30 AM

Venue: Biotechnology Lab, SDM College, Ujire

AGENDA NO	AGENDA
Agenda 1 SDMCU /BIOTECH-BOS/2017-18/01/01	Reading the minutes of the previous BOS meeting & action taken report
Agenda 2 SDMCU /BIOTECH-BOS/2017-18/01/02	Analysis of the semester end examination result
Agenda 3 SDMCU /BIOTECH-BOS/2017-18/01/03	Change in the syllabus content
Agenda 4 SDMCU /BIOTECH-BOS/2017-18/01/04	Change in the question paper pattern
Agenda 5 SDMCU /BIOTECH-BOS/2017-18/01/05	Review of panel of examiners list
Agenda 6 SDMCU /BIOTECH-BOS/2017-18/01/06	Any other matter

**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	Subject Expert





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	Director , KSHEMA PVT. LTD Deralakatte	
4.	Dr. Avila D'Silva Director EUCHEM Biologicals Pvt. Lt. Udupi	Industrial Representative
5.	Ms. Greeshma A A Research Scholar, PG. Dept. of Biotechnology, Mangalore University,	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. Ramya, Assistant Professor, Dept. of Biotechnology, SDM College, Ujire	Member

**Members Absent:**

1.	Dr. Raghavendra Rao Assistant professor Department of Biotechnology Alvas College Moodabidri	Subject Expert
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The Chairperson welcomed the members and placed the agenda before the board for discussion.

**Agenda 1**

**Reading the minutes of the previous meeting & action taken report**

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

- Activities conducted to strengthen students' research
- Motivated the students to participate in industrial and leading institutional activities by visits.
- Motivated the students to take part in summer projects.
- Introduced projects to study and appreciate the significance of biostatistics.



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The minutes and the action taken report were approved by the board.

## Agenda 2

### Analysis of the semester end examination result

Analysis of the semester end result has been done and the details of the results is as follows

I sem – 97.22%

II sem – 97.22%

III Sem – 94.87%

IV Sem – 100%

V Sem – 100%

VI Sem – 100%

Agenda Approved

## Agenda 3

### Change in the syllabus content

Annexure 1

After a thorough discussion it is resolved to make the following changes.

- To remove the topic tryptophan operon in paper IV of IV semester
- To modify the topic prokaryotic transcription and translation as complexity & difference in eukaryotic transcription and translation in Unit I of paper IV of IV semester.
- To modify HGP in detail as purpose and fulfillment of Human Genome project in unit IV of paper IV of IV semester.
- To modify drug intermediates as drug adulteration with popular adulterants in paper VIII of VI semester.

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.



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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

Papers focusing skill development

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

The syllabus with the above changes was approved

#### **Agenda 4**

##### **Change in the question paper pattern**

The board resolved to retain the existing pattern of question papers.

Agenda approved

#### **Agenda 5**

##### **Review of panel of examiners list**

The panel of examiners with no changes has been approved.

#### **Agenda 6**


##### **Any other matter**

Members made following suggestions

- To conduct orientation on basics of lab management.
- To train the students to handle the instruments
- To promote industrial visits

Agenda approved

Meeting concluded with proposing vote of thanks.

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





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Annexure I

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