



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

2016-17



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 16.07.2016 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 2016

SDM College (Autonomous), Ujire – 574240

Department of Biotech

Board of Studies – 2016 – 2017

Date: 16/07/2016

Status	Name	Signature
Chairman	Dr. B. A. Kumara Hegde Associate professor & HOD Department of Botany & Biotechnology SDM College, Ujire M: 9448842673	 16.07.2016
Internal members	Abhijeeth Badiger Assistant Professor Department of Biotechnology, SDMC, Ujire	 16/07/16
	Mrs. Prithvi S. Shirahatty Assistant Professor Department of Biotechnology, SDMC, Ujire	 16/07/16
Subject Experts	Dr. Suchetha Shetty Professor in Biochemistry, Dept. of Biochemistry KSHEMA, Derlakatte, Mangalore. M: 9448451318	 16/7/16
	Dr. Raghavendra Rao Associate Professor, Dept of Biotechnology Sikkim Manipal University SMY Building, Manipal M: 9905722623	— ABSENT —
Representative from industry/corporate sector/allied area relating to placement.	Dr. Avila D'Silva Director, EUCHEM Biologicals Pvt. Ltd. Plot No.10/ Shivalli Industrial area Alevoor Road Manipal-576104, M: 9448240099	— ABSENT —
Post Graduate meritorious, Alumni	Ms. Greeshma A.A., Research Scholar, PG. Dept. of Biotechnology, Mangalore University, Mangalore	 16/07/2016
University Nominee	Dr. Bharathi Prakash Associate Professor Dept. Micro Biology University College, Hampankatta Mangalore. M: 9448625117	 16/7/16



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UJIRE-574 240
DAKSHINA KANNADA, KARNATAKA STATE
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DEPARTMENT OF BIOTECHNOLOGY-UG
Proceedings of BOS meeting

Date: 16-07-2016
Time: 10.30 AM
Venue: Biotechnology Lab, SDM College, Ujire

AGENDA NO	AGENDA
Agenda 1 SDMCU /BIOTECH-BOS/2016-17/01/01	Reading the minutes of the previous BOS meeting & action taken report
Agenda 2 SDMCU /BIOTECH-BOS/2016-17/01/02	Analysis of the semester end examination result
Agenda 3 SDMCU /BIOTECH-BOS/2016-17/01/03	Change in the syllabus content
Agenda 4 SDMCU /BIOTECH-BOS/2016-17/01/04	Change in the question paper pattern
Agenda 5 SDMCU /BIOTECH-BOS/2016-17/01/05	Review of panel of examiners list
Agenda 6 SDMCU /BIOTECH-BOS/2016-17/01/06	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



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2.	Dr. Bharathi Prakash Assistant professor University College Hampankatta	University Nominee
3.	Dr. Suchetha Shetty Director , KSHEMA PVT. LTD, Deralakatte	Subject Expert
4.	Ms. Greeshma A A Research Scholar, PG. Dept. of Biotechnology, Mangalore University,	Alumni
5.	Mr. Abhijeeth S Badiger Assistant Professor , Department of Biotechnology , SDM College, Ujire	Member
6.	Ms. Prithvi Shirahatty Assistant Professor, Department of Biotechnology, SDM College, Ujire	Member

Members Absent:

1.	Dr. Avila D'Silva Director EUCHEM Biologicals Pvt. Lt. Udupi	Industrial Representative
2.	Dr. Raghavendra Rao Assistant professor, Department of Biotechnology Alva's College Moodabidri	Subject Expert

BOS chairperson welcomed the members and placed the agenda of the meeting.

Agenda 1

Reading the minutes of previous meeting & action taken report



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

- Inclusion of enzymes as analytical tools in paper I of semester I
- Exclusion of spectro-fluorometer from unit II of paper I of semester I
- Exclusion of the topic on cascade from unit III of paper III of semester III

The minutes and the action taken report were approved

Agenda 2

Analysis of the semester end examination result

The result of semester end examination was analyzed. The details of the results are as follows

I year – 96.14%

II year & III year – 100%

Agenda Approved

Agenda 3

Change in the syllabus content

After a thorough discussion the board consented to retain the existing syllabus.

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



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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

Agenda approved

(Annexure-1)

Agenda 4:

Change in question paper pattern

Decided to retain the same pattern of question paper

Agenda approved

Agenda 5:

Review of Panel of examiners list

Annexure 2

The list of examiners has been reviewed and approved.

Agenda 6:


Any other matter

Members made the following suggestions

- To strengthen students' research
- To motivate students' participation in industrial and leading institutional visits.
- To motivate students to take part in summer projects.
- To introduce projects to study and appreciate the significance of biostatistics.

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	<ol style="list-style-type: none">1. Biosphere2. Biomes and their characteristic3. Traditional use of plant resource4. Conservation strategies of medicinal plants
Plant Biotechnology & Environmental Biotechnology practical	<ol style="list-style-type: none">1. Bioremediation2. Microbiological treatment of wastes3. Biofertilizer production4. Pollution control measures

development during the last 4 years

Name of the Course	Topics	Employability/ Entrepreneurship/ Skill development
Biochemistry & Biophysics	<ol style="list-style-type: none">1. Electrophoresis,2. Centrifugation3. Qualitative estimation of Biomolecules	Employability
	<ol style="list-style-type: none">1. Spectroscopy2. Electrophoresis3. NMR & x-ray crystallography	Skill development
	<ol style="list-style-type: none">1. Microscopy2. Chromatography3. Electrophoresis4. Centrifugation5. Spectroscopy	Entrepreneurship
Biochemistry & Biophysics Practical	<ol style="list-style-type: none">1. Quantitative and qualitative estimations of Biomolecules	Skill development
Cell Biology & Genetics practical	<ol style="list-style-type: none">1. Counting of RBC and WBC	Skill development
Microbiology & Immunology	<ol style="list-style-type: none">1. Nutrient media and selective media2. Growth kinetics3. Antigen antibody reactions	Employability
	<ol style="list-style-type: none">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



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Annexure 2

S. D. M. College (Autonomuos), Ujire (D.K.)
Department of Biotechnology
List of Examiners - 2016-17

Sl no.	NAME	DESIGNATION
1.	Mr. Abhijeeth Badiger	Assistant Professor, Dept .of Biotechnology, SDM College, Ujire
2.	Mrs. Prithvi S Shirahatti	Assistant Professor, Department of Biotechnology, SDM College, Ujire
3.	Mrs. Renita D'Souza	Assistant Professor Dept. of Biotechnology St. Aloysius College, Mangalore
4.	Mrs. Amita Kumari	Assistant Professor, Dept. of Biotechnology St. Agnes College, Mangalore
5.	Dr. Rama Bhat	Assist Professor, Dept. Biotechnology Alva's College, Moodbidri
6.	Dr. Raghavaendra Rao	Associate Professor, Dept. of Biotechnology Sikkim – Manipal University. Manipal
7.	Dr. Shrinidhi Shetty	Assistant Professor Dept. of Biotechnology Alva's College, Moodbidri



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8.	Dr. Rashmi	Assistant Professor Dept. of Biotechnology Alva's College, Moodbidri
9.	Mr. Santosh Wilson	Assistant Professor Dept. of Biotechnology St Aloysius College, Mangalore
10.	Ms. Shweta Shetty	Assistant Professor Dept. of Biotechnology Alva's College, Moodbidri
11.	Mrs. Bharathi Prakash	Assistant Professor, Dept. of Microbiology University College, Hampankatta, Mangalore
12.	Mr. Melwyn	Assistant Professor, Dept. of Microbiology St. Aloysius College, Mangalore
13.	Ms Deepthi	HOD, Department of Biotechnology, Sri Bhuvanendra College, Karkala