



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

2019-20

SDM College, Ujire
(Autonomous)

Department of Biotechnology

Meeting of the Board of Studies on 13.06.2019 at 10.30 AM

Agenda

1. Reading the minutes of the previous BOS meeting & action taken report
2. Review of the New syllabus
3. Review of the List of examiners
4. Departmental achievement report
5. Any other Matter



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SDM College (Autonomous), Ujire – 574240 Department of Biotechnology Board of Studies – 2019 – 2020

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	ABSENT
	Shreesha Naik Bajpe Assistant Professor, Dept. of Biotechnology SDM College, Ujire	Shreesha Naik Bajpe.
	Dr. Maruthi K.R Assistant Professor, Dept. of Biotechnology SDM College, Ujire	
Subject Experts	Dr. Jayadev K. Associate Professor, Dept. of Biotechnology, Alva's College, Moodabidre, Ph: 9481319319	
Representative from industry/corporate sector/allied area relating to placement.	Dr. Avila D'souza Euchem Biological's 1st Floor, Sriram Tower's Santhekatte, NH-66 Udupi T.Q & District - 576105 M: 9448240099	 13/6/19
Post Graduate meritorious, Alumni	Mrs. Srividya Nitte University, Center for Science Education & Research (NUCSE) 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
(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: 13-06-2019

Time: 10.30 AM

Venue: Department of Biotechnology

AGENDA NO	AGENDA
Agenda 1 SDMCU /BIOTECH-BOS/2019-20/01/01	Reading the minutes of the previous BOS meeting & action taken report
Agenda 2 SDMCU /BIOTECH-BOS/2019-20/01/02	Review of the New syllabus
Agenda 3 SDMCU /BIOTECH-BOS/2019-20/01/03	Review of the List of examiners
Agenda 4 SDMCU /BIOTECH-BOS/2019-20/01/04	Departmental achievement report
Agenda 5 SDMCU /BIOTECH-BOS/2019-20/01/05	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. Avila D'Silva Director EUCHEM Biologicals Pvt. Lt. Udupi	Industrial Representative
4.	Dr. Jayadev K , Assistant professor Alvas College Moodabidri	Subject Expert
5.	Ms. Shrividya, Research scholar NUCSER, Nitte University Paneer Campus Deralakatte	Alumni



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6.	Mr. Abhijeeth S Badiger , Assistant Professor Department of Biotechnology , SDM College Ujire	Member
7.	Mr. Shrisha Naik, Assistant Professor Department of Biotechnology , SDM College Ujire	Member
8.	Dr. K R Maruthi, Assistant Professor Department of Biotechnology , SDM College Ujire	Member

Members Absent:

1.	Mr. Ganesh V Shendye, Assistant Professor, Department of Botany, SDM College Ujire	Member
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Agenda 1

Reading the minutes of the previous meeting & action taken report

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

- Incorporated the principles related to NMR & x-ray crystallography in paper-I
- Included analysis of mutation through one gene one enzyme hypothesis in Paper- II
- Incorporated the Bio-safety skills
- Organized the workshops to promote the hands-on training skills.

Board approved the minutes & action taken report.

Agenda 2

Review of the new syllabus

Annexure 1 & 2

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

- Overall downstream processing was included instead of selective topics in 3rd Elective paper
- Local diseases were mentioned as examples to explain in the 4th elective paper.
- Paper 5 title has been changed as Medicinal plant diversity and Bioethics by incorporating topics of IPR instead of botanical topics.
- Paper 7 title has been changed as Animal Biotechnology and Bioinformatics
- Topics were properly oriented in paper 1 and 3





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- Paper 6 title has been changed to Plant Biotechnology and Environmental Biotechnology
- Drug development protocol has been removed from paper 8 practical
- Journal indexing and plagiarism was added in the 1st elective paper

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. BSCBTV 131 BIOCHEMISTRY & BIOPHYSICS
2. BSCBTV 181 CELL BIOLOGY & GENETICS
3. BSCBTV 383 PHYTOCHEMISTRY & DRUG DEVELOPMENT
4. BSCBTV 331 MEDICINAL PLANT DIVERSITY & BIOETHICS
5. BSCBTCE 133 BIOSTATISTICS
6. BSCBTCE 183 FOOD SCIENCE & TECHNOLOGY
7. BSCBTOE 283 IMMUNE SYSTEM AND DISEASE MANAGEMENT

Papers focusing entrepreneurship

1. BSCBTV 231 MICROBIOLOGY & IMMUNOLOGY
2. BSCBTV 332 PLANT BIOTECHNOLOGY AND ENVIRONMENTAL BIOTECHNOLOGY
3. BSCBTCE 233 FERMENTATION TECHNOLOGY

Papers focusing skill development

1. BSCBTV 281 MOLECULAR BIOLOGY & RECOMBINANT DNA TECHNOLOGY
2. BSCBTV 381 ANIMAL BIOTECHNOLOGY & BIOINFORMATICS
3. All the practical papers



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Agenda 3

Review of the List of examiners

Annexure

3

Board updated and approved the list of examiners and the list is enclosed herewith

Dr. Maruthi K R Assistant professor, Department of Biotechnology, SDM College, Ujire has been included in the list of BOE.

Agenda 4

Departmental achievement report

The departmental achievement report related to the semester end exam results and workshops on skill-based activities was presented by the BOS chairman & placed it for approval.

Board approved the report

Agenda 5

Any other matter

Members made following suggestions

- To encourage summer projects and internships
- To encourage industrial visits and entrepreneurship

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 I

Highlights of the syllabus

Name of the courses(papers)	Topics which Highlight the Global, National, Local and Environmental issues
Medicinal Plant diversity & Bioethics (BSCBTV 331)	1. Biosphere 2. Biomes and their characteristic 3. Traditional use of plant resource 4. Conservation strategies of medicinal plants
Plant Biotechnology & Environmental Biotechnology practical (BSCBTP 333)	1. Bioremediation 2. Microbiological treatment of wastes 3. Biofertilizer production 4. Pollution control measures

Name of the Course & Code	Topics which Highlight the above issues	Employability/ Entrepreneurship/ Skill development
Biochemistry & Biophysics (BSCBTV 131)	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 (BSCBTP 132)	1. Quantitative and qualitative estimations of Biomolecules	Skill development
Cell Biology & Genetics practical (BSCBTP 182)	1. Counting of RBC and WBC	Skill development
Microbiology & Immunology (BSCBTV 231)	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 (BSCBTP 232)	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 (BSCBTv 281)	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 (BSCBTP 282)	1. Isolation of DNA & RNA 2. Quantitative analysis of DNA & RNA	Skill development
Medicinal Plant diversity & Bioethics (BSCBTv 331)	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 (BSCBTv 332)	1. Micropropagation techniques 2. Biofuels 3. Biopesticides 4. Pollution control measures	Employability
	1. Callus culture	Skill development



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	2. Haploid culture 3. Protoplast isolation	
	1. Production methods of Biofertilizer 2. Cryopreservation 3. Micropropagation	Entrepreneurship
Plant Biotechnology & Environmental Biotechnology practical (BSCBTP 333)	1. Sterilization techniques 2. Synthetic seed 3. Water analysis 4. Micropropagation	Skill development
Animal Biotechnology & Bioinformatics (BSCBTV 381)	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 (BSCBTV 383)	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 (BSCBTP 383)	1. Qualitative analysis 2. TLC 3. Bioinformatic tools 4. Soxhlet extraction	Skill development
Biostatistics (BSCBTCE 133)	1. Collection of data 2. Correlation	Employability
	1. Sampling techniques 2. Measures of dispersion	Skill development



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	3. Graphical and diagrammatic representation	
Food science & Technology (BSCBTCE 183)	1. Preservation techniques	Employability
	1. Aseptic packaging & Chemical method of food preservation	Entrepreneurship
Fermentation technology (BSCBTOE 233)	1. Fermented food products 2. Downstream processing	Employability
	1. Sterilization techniques	Skill development
	1. Production of Vitamin B12 2. Production of Alcohol	Entrepreneurship
Immune system & Disease management (BSCBTOE 283)	1. Blood grouping	Skill development



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Annexure 2

List of electives added

Electives papers added	Code	Paper	Semester
	BSCBTCE 133	BIOSTATISTICS	I
	BSCBTCE 183	Food science & Technology	II
	BSCBTCE 233	Fermentation technology	III
	BSCBTOE 283	Immune system and Disease management	IV