

BVC/BOS-Biotech/2019-20

23<sup>rd</sup> Nov, 2019

To  
Dr. A Røja Rani  
Principal,  
University College for Women,  
Koti,  
Hyderabad.

Sir/Madam,

Sub : Meeting of BOS - Department of Biotechnology.

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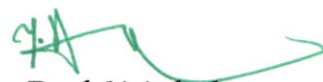
The meeting of Board of Studies, Department of Biotechnology is scheduled on 26.11.2019 at 3.00 pm in Committee Room, MBA Block. We request you to make it convenient to attend the meeting.

We look forward for your presence and valuable contribution.

Thanking you,



Yours Sincerely



Prof. Y Ashok  
Principal



## Bhavan's Vivekananda College

of Science, Humanities & Commerce  
Sainikpuri, Secunderabad – 500094  
Autonomous College - Affiliated to Osmania University  
(Accredited with 'A' grade by NAAC)

To

30.03.2019

The Head,  
Department of Genetics & Biotechnology  
BVC.

Sir/Madam,

As per the guidelines of UGC, the Board of Studies of Biotechnology is constituted as follows:

SL.No.	Name / Designation	Designation in BOS
1.	Dr. Jyothi Nayar Head, Department of Botany/Genetics/Biotechnology, BVC	Chairperson
2.	Dr. A Roja Rani Professor, Dept. of Genetics & Biotechnology Osmania University, Hyd.	OU Nominee
3.	Ms.M Archana Lecture, Biotechnology, Loyola Degree & PG College, Old Alwal, Secunderabad.	Subject Expert
4.	Dr.Arun Kumar Asst. Professor, Dept. of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad.	Subject Expert
5.	Dr.Ch. Madhurarekha Head Proteomics, Sandor Life Sciences Pvt. Ltd.	Industry Expert
6.	Ms.T Nandita CSIR-SRF, CCMB, Tarnaka, Hyderabad.	Alumni
7.	Md.Qudrathulla Khan B.Sc (BtGC) II Year	Student
8.	Dr. S Nagamanju Lecturer in Biotechnology, BVC	Member

Thanking you,

Yours Sincerely,

  
Prof. Y Ashok  
PRINCIPAL

G



Bharatiya Vidya  
**Bhavan**

(Founded in 1938 by Kulapati Dr. K.M. Munshi)

**BHAVAN'S VIVEKANANDA COLLEGE**  
**of Science, Humanities & Commerce**

Estd : 1993 AFFILIATED TO OSMANIA UNIVERSITY  
AUTONOMOUS COLLEGE

SAINIKPURI, SECUNDERABAD - 500 094. Ph : 27111611, 27115878

Date :

BVC/BOS-Gen/2019-20

12<sup>th</sup> April, 2019

To

Dr. A Roja Rani  
Principal,  
University College for Women,  
Koti, Hyderabad

Sir/Madam,

Sub : Nomination of member for BOS -Genetics. and *Biotechnology.*  
Ref : Ltr. No.41/CDC/37/OU/2015 dt.29/05/2015,

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With reference to the above mentioned letter, we have been communicated the conferment of autonomous status to our college. We are constituting the Board of Studies, in Department of Genetics and Biotechnology as per the UGC guidelines. In this regard, we request you to be a member of Board of Studies (OU Nominee), Department of Genetics and Biotechnology.

We look forward for your acceptance of our request.

Thanking you,

Yours Sincerely

Prof. Y Ashok  
Principal

## **Resolutions of the Seventh Board of Studies Meeting Department of Genetics and Biotechnology**

26-11-2019

The Seventh Board of Studies meeting for Biotechnology was conducted on 26-11-2019 at 3.00 pm in the Committee Room, MBA block, Bhavan's Vivekananda College of Science, Humanities & Commerce to discuss the following agenda:

1. Review of Semester VI syllabus - Paper VI and Paper VI A.
2. Employability and Skill development of the courses.
3. Any other points.

Members present:

1. Dr. Jyothi Nayar, Chairperson BOS, Dept of Genetics & Biotechnology Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Dr. A Roja Rani: University Nominee: Principal, University College for Women, Koti, Hyderabad.
3. Ms. M Archana: Subject Expert: Lecturer, Biotechnology, Loyola Academy. Old Alwal, Secunderabad
4. Dr. Ch. Madhurarekha : Expert from Industry: Consultant, LCMS, Tenet Diagnostics, Banjara Hills, Hyderabad.
5. Ms. T Nandita: Alumnus: CSIR-SRF, CCMB, Tarnaka, Hyderabad.
6. Mr. Md Qudrathulla Khan: Student Member: B. Sc. BtGC (Student), Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Hyderabad.
7. Faculty members of Biotechnology. Dept. of Genetics & Biotechnology, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

Dr. Jyothi Nayar, the Chairperson, BoS welcomed the members of the BoS for the seventh board of studies meeting.

The following points were discussed as per the agenda and resolved as follows.

1. Review of Semester VI – Papers VI & VI A.
    - It was decided that in Semester VI, Papers VI and VI A would be followed as per the syllabus without any changes.
  2. Employability and skill development of courses
    - The employability of the Core Courses and skill development of the SEC and GE courses were approved and well appreciated by Prof. A. Roja Rani.
    - Prof Roja Rani suggested that the SEC and GE courses should be more practical oriented and involve students in field and group activities.
- I. Molecular Biology BT 533
- i.. Knowledge of rDNA technology helps procuring jobs dealing with diagnosis of various diseases based on PCR technique  
Students get placements in various hospitals like Asian Institute of Gastroenterology, Global Hospitals, Kamineni etc..
- II. Animal and Plant Biotechnology Bt 533A
- i. In-depth Knowledge and understanding of applications of biotechnological tools and principles helps students to develop skills in cell and tissue culture helping them to

procure jobs in various institutions and companies carrying out production and synthesis of transgenic plants and animals

Students will get employed in biotech companies like Biological E, Bharat Biotech, Wockhardt. They can even go for their own start ups.

### III. Genetic Engineering and Immunology BT 633

i.. Practical skills gained on immunological techniques like ELISA helps students to get jobs in various pathological labs in hospitals and institutes.

Students can get employed in Indian Immunologicals, Shantha Biotechnics Ltd, anacea Biotec.

### IV. Industrial and Environmental Biotechnology BT 633A

i. A profound knowledge gained in Microbial biotechnology helps them procure jobs in Fermentation industries including organizations dealing with bioremediation like sewage treatment.

Students get placements in various Research and development companies like Biocon Biocon Ltd, Serum Institute of India Ltd

### V. Integrated Pest Management SE333

i. Gain employability as quality control personnel in identifying the key pests infesting the crop plants. Manage to incorporate IPM program in controlling the pest infestation.

Students will get placed at places like Piramal Group, Rasi Seeds (P) Ltd.

### VI. Bioinformatics SE433

i. Get employed as bioinformatitions in running the BLAST programme for identifying the homologous sequences in the database for the unknow sequence. As bioinformaticians can perform phylogenetic analysis to trace the evolution of the gene.

Students will get placed at places like CDFD, IISc Bangalore, CCMB etc

### VII. Plant Tissue Culture SE533

i. Plant tissue culture helps students take up technical jobs in all institutes associated with tissue culturing of various crops to meet the agricultural demands and also take up tissue culturing all endangered species.

Students can look for oppportunities at institutes like ICRISAT, IARI, RRI etc

### VIII. Fermentation Technology SE633

i. Fermentation technology places students in companies associated with fermentation technology. All pharmacy companies associated with antibiotic and metabolite production are accessible to them for employability at places like Dr Reddy's, Biocon Biocon Ltd

### IX. Food Adulteration GE533

i. Gain employability as technical staff in identifying the key adulterants in various foods in the market. Gets employment as quality control inspectors and control the food adulteration.

They can look for jobs at Nestle, Heritage Group, Hatsun Agro Product Ltd.

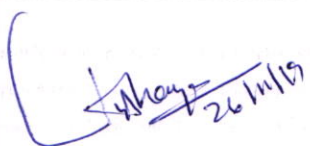
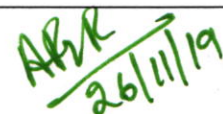

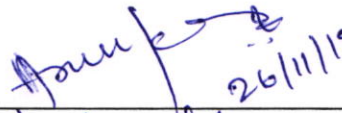


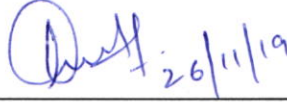
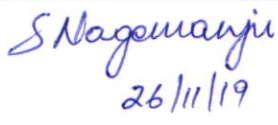
3. Any other points:

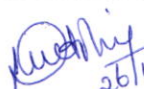
30 classes are allotted for each of the SEC and GE courses of which 15 classes are scheduled for theory and 15 classes for field work/practical work.

2 credits are assigned for each of these courses (SEC and GE).

ii. It was decided in the Governing Body Meeting of the College that the revised credit system and the syllabus proposed by Osmania University would be implemented from the academic year 2020-2021 as the communication was given in July 2019 and classes for the first year had commenced in June 2019.

The meeting was concluded by the vote of thanks proposed by Dr. Jyothi Nayar, Chairperson BoS, Biotechnology, Dept of Genetics, and Biotechnology.

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics & Biotechnology Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee: Dr. A ROJA RANI Principal, University College for Women, Koti, Hyderabad	
3.	Subject Expert Ms. M ARCHANA, Lecturer, Biotechnology, Loyola Academy. Old Alwal, Secunderabad.	
4.	Subject Expert: Dr. ARUN KUMAR, Assistant Professor, Dept. of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad.	
5.	Expert from Industry: Dr. Ch. MADHURAREKHA, Consultant, LCMS, Tenet Diagnostics, Banjara Hills, Hyderabad.	
6.	Alumnus: Ms. T NANDITA, CSIR-SRF, CCMB, Tarnaka, Hyderabad.	
7.	Student Member: Mr. Md QUDRATHULLA KHAN, B. Sc. BtGC (Student), Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Hyderabad.	
8.	DR S NAGAMANJU, Member, Board of Studies, Department of Genetics & Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

9.	<b>Ms. METILDA ROSALIN</b> Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	 26/11/19.
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The above members approved the resolutions made during the board of studies meeting for Genetics held on 26/11/2019.

**Seventh Board of Studies Meeting  
Department of Genetics and Biotechnology**

The Seventh Board of Studies meeting for Biotechnology was conducted on 26-11-2019 at 3.00 pm in the Committee Room, MBA block, Bhavan's Vivekananda College of Science, Humanities & Commerce.

The following members attended the meeting:

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics & Biotechnology Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	 26/11/19
2.	University Nominee: Dr. A ROJA RANI Principal, University College for Women, Koti, Hyderabad	 26/11/19
3.	Subject Expert Ms. M ARCHANA, Lecturer, Biotechnology, Loyola Academy. Old Alwal, Secunderabad.	 26/11/19.
4.	Subject Expert: Dr. ARUN KUMAR, Assistant Professor, Dept. of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad.	 26/11/19
5.	Expert from Industry: Dr. Ch. MADHURAREKHA, Consultant, LCMS, Tenet Diagnostics, Banjara Hills, Hyderabad.	X 
6.	Alumnus: Ms. T NANDITA, CSIR-SRF, CCMB, Tarnaka, Hyderabad.	 Nandita
7.	Student Member: Mr. Md QUDRATHULLA KHAN, B. Sc. BtGC (Student), Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Hyderabad.	 26/11/19
8.	DR S NAGAMANJU, Member, Board of Studies, Department of Genetics & Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	 26/11/19
9.	Ms. METILDA ROSALIN Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	 26/11/19.



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE, SAINIKPURI,  
SECUNDERABAD.**

**Autonomous College**

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**(Accredited with 'A' grade by NAAC)**

**Department of Genetics, Biotechnology and Botany**

**Subject: Biotechnology (Optional)**

**(BSc. Life Sciences)**

**REVISED LIST OF EXAMINERS (w.e.f.2019-2020)**

1. Papers I & II:
1. Mrs. B. Deepika, Lecturer, Dept of Biotechnology,  
Nizam College, Basheerbagh, Hyderabad  
9866133047
  2. Mrs. A. Jaya Madhuri  
Lecturer, Department of Biotechnology,  
Loyola Academy, Degree & PG College,  
Old Alwal, Secunderabad.  
9849442334  
[madhuriadabala@gmail.com](mailto:madhuriadabala@gmail.com)
  3. Dr. S. Someshwar Rao,  
Assistant Professor  
Department of Genetics and Biotechnology,  
Osmania University.  
7729822608  
[somu2u@gmail.com](mailto:somu2u@gmail.com)
2. Papers III & IV:
1. Dr. Sambashiva  
Lecturer, Dept of Biotechnology,  
Nizam College, Basheerbagh, Hyderabad  
8978282097
  2. Mrs. M. Archana  
Lecturer, Department of Biotechnology,  
Loyola Academy, Degree & PG College,  
Old Alwal, Secunderabad.  
8790541423  
[archana.miryala13@gmail.com](mailto:archana.miryala13@gmail.com)
  3. Mrs. N. Kavitha  
Lecturer, Department of Biotechnology,  
Sujatha Degree College for Women, Chapal Road, Hydeabad.  
9949987216

  
**CHAIRPERSON**  
**BOS in Genetics/Biotechnology**  
**Bhavan's Vivekananda College**  
**Sainikpuri**



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE, SAINIKPURI,  
SECUNDERABAD.**

**Autonomous College**

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**(Accredited with 'A' grade by NAAC)**

**Department of Genetics, Biotechnology and Botany**

**Subject: Biotechnology (Optional)**

**(BSc. Life Sciences)**

**REVISED LIST OF EXAMINERS (w.e.f.2019-2020)**

**3. Papers V & VI:**

1. Dr. S. Prashant,  
Assistant Professor  
Department of Genetics and Biotechnology,  
Osmania University.  
9849667490  
[prashanthsingam@gmail.com](mailto:prashanthsingam@gmail.com)
2. Dr Maheshwari,  
Lecturer in Department of Genetics  
Koti Womens College.  
8125380624  
[rajamanikyam.maheshwari@gmail.com](mailto:rajamanikyam.maheshwari@gmail.com)
3. Mrs. Deepa, HoD, Dept of Biotechnology,  
St. Francis Degree college for Women, Hyderabad

**4. Papers V A & VI A:**

1. Mrs. Sugandhamala,  
Lecturer, Department of Biotechnology,  
St. Pious Degree College for Women, Hyderabad.
2. Dr. C. C. Giri  
CPMB, Osmania University  
040-27014508  
[giriccin@yahoo.co.in](mailto:giriccin@yahoo.co.in)
3. Dr. Padmalatha,  
HoD, Department of Biotechnology,  
St. Pious Degree College for Women, Hyderabad.

**Note: The names of Examiners may be added or deleted subject to their availability by the Chairperson, BoS, Biotechnology, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.**

*APR*

*J. Naya*

**CHAIRPERSON  
BoS in Genetics/Biotechnology  
Bhavan's Vivekananda College  
Sainikpuri**

Notice

25. 04. 2019

Department of Genetics & Biotechnology

VJBOARD OF STUDIES MEETING- BIOTECHNOLOGY

There will be a Board of Studies meeting for Biotechnology on 25<sup>th</sup> April, 2019 at 2:30 pm in the Committee Room, MBA Block. All the members are requested to attend the same.

The agenda for the meeting is as follows:

1. Revision of Semester I Paper I and Semester II Paper II syllabus.
2. Discussion of Course Objectives and Course Outcomes.
3. Any other points.

Dr. Jyothi Nayar

Chairperson, BoS & HoD  
Department of Genetics,  
Biotechnology & Botany,  
Bhavan's Vivekananda College  
of Science, Humanities &  
Commerce,  
Sainikpuri, Secunderabad  
500094.

Copy to:

1. Dr. A Roja Rani

Principal, University College for Women, Koti, Hyderabad

2. Subject Expert: Ms. M Archana,

Lecturer, Biotechnology, Loyola Academy. Old Alwal, Secunderabad

3. Subject Expert: Dr. Arun Kumar,

Assistant Professor, Dept. of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad.

4. Expert from Industry: Dr. Ch. Madhurarekha,

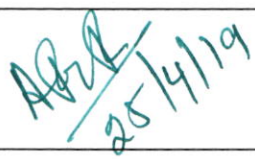

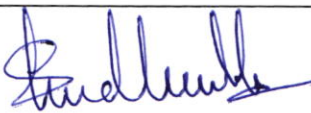
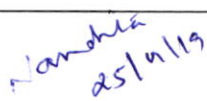

Consultant, LCMS, Tenet Diagnostics, Banjara Hills, Hyderabad.

5. Alumnus: Ms. T Nandita, CSIR-SRF, CCMB, Tarnaka, Hyderabad.

6. Student Member: Mr. Md Qudrathulla Khan, B. Sc. BtGC (Student), Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Hyderabad.

7. Principal of the College: Prof. Y Ashok, Principal, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

The Board of Studies meeting for Biotechnology held on 25-04-2019 was attended by:

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee: Dr. A ROJA RANI Principal, University College for Women, Koti, Hyderabad	
3.	Subject Expert: Ms. M ARCHANA, Lecturer, Biotechnology, Loyola Academy. Old Alwal, Secunderabad.	
4.	Subject Expert: Dr. ARUN KUMAR, Assistant Professor, Dept. of Animal Sciences, School of Life Sciences, University of Hyderabad, Hyderabad.	Absent
5.	Expert from Industry: Dr. Ch. MADHURAREKHA, Consultant, LCMS, Tenet Diagnostics, Banjara Hills, Hyderabad.	
6.	Alumnus: Ms. T NANDITA, CSIR-SRF, CCMB, Tarnaka, Hyderabad.	
7.	Student Member: Mr. Md QUDRATHULLA KHAN, B. Sc. BtGC (Student), Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Hyderabad.	
8.	Dr. S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

## Resolutions of the Sixth Board of Studies Meeting Department of Genetics and Biotechnology

25-04-2019

The Sixth Board of Studies meeting was conducted on 25-04-2019 at 2.30 pm in the Committee Room, MBA block, Bhavan's Vivekananda College of Science, Humanities & Commerce to discuss the following agenda:

1. Revision of Semester I Paper I and Semester II Paper II syllabus.
2. Discussion of Course Objectives and Course Outcomes.
3. Any other points.

Members present:

1. Dr. Jyothi Nayar, Chairperson BOS, Dept of Genetics & Biotechnology Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Dr. A Roja Rani: University Nominee: Principal, University College for Women, Koti, Hyderabad.
3. Ms. M Archana: Subject Expert: Lecturer, Biotechnology, Loyola Academy. Old Alwal, Secunderabad
4. Dr. Ch. Madhurarekha : Expert from Industry: Consultant, LCMS, Tenet Diagnostics, Banjara Hills, Hyderabad.
5. Ms. T Nandita: Alumnus: CSIR-SRF, CCMB, Tarnaka, Hyderabad.
6. Mr. Md Qudrathulla Khan: Student Member: B. Sc. BtGC (Student), Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Hyderabad.
7. Faculty members of Biotechnology. Dept. of Genetics & Biotechnology, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

Dr. Jyothi Nayar, the Chairperson, BoS welcomed the members of the BoS for the sixth board of studies meeting.

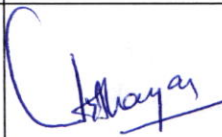
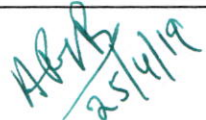

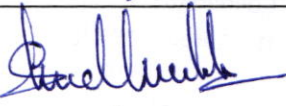
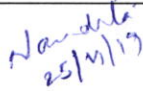

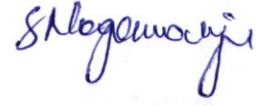
The following points were discussed as per the agenda and resolved as follows.

1. Approved the syllabi for Semester I and II both theory and practicals for the academic year 2019-2020.
  - In Paper I, Unit I, the contents for the topics were specified and a practical on slide preparation of animal, plant and fungal cells was included.
  - In Paper II syllabus, the unit III on biostatistics was replaced with Fundamentals of cell culture, accordingly in practicals media preparation and culturing of cells, Viability tests of cells and Sequence homology search using the BLAST program were included
2. 5% changes were made in Paper I and 25% in Paper II syllabus.
3. Title of paper II was changed from "Nucleic acids, Biostatistics and Bioinformatics" to "Nucleic acids, Cell culture and Bioinformatics"
3. The course objectives and course outcomes were discussed and approved.
4. The Board approved the new panel of examiners and in case of urgency authorized the Chairperson, BoS, to appoint in consultation with the Principal of the College, qualified examiners outside the approved list. Such arrangements were however to be reported to the BoS in the next immediate meeting.

The meeting was concluded by the vote of thanks proposed by Dr. Jyothi Nayar, Chairperson BoS, Genetics, Dept of Genetics, and Biotechnology.

*APR*

*Jyothi Nayar*  
CHAIRPERSON  
BOS in Genetics and Biotechnology  
Bhavan's Vivekananda College  
Sainikpuri

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics & Biotechnology Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee: Dr. A ROJA RANI Principal, University College for Women, Koti, Hyderabad	
3.	Subject Expert Ms. M ARCHANA, Lecturer, Biotechnology, Loyola Academy. Old Alwal, Secunderabad.	
4.	Expert from Industry: Dr. Ch. MADHURAREKHA, Consultant, LCMS, Tenet Diagnostics, Banjara Hills, Hyderabad.	
5.	Alumnus: Ms. T NANDITA, CSIR-SRF, CCMB, Tarnaka, Hyderabad.	
6.	Student Member: Mr. Md QUDRATHULLA KHAN, B. Sc. BtGC (Student), Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Hyderabad.	
7.	DR S NAGAMANJU, Member, Board of Studies, Department of Genetics & Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

The above members approved the resolutions made during the board of studies meeting for Genetics held on 25/04/2019.

Notice

29. 03. 2018

Department of Genetics & Biotechnology

V BOARD OF STUDIES MEETING- BIOTECHNOLOGY

There will be a Board of Studies meeting for Biotechnology on 29<sup>th</sup> March, 2018 at 2:30 pm in the Committee Room, MBA Block. All the members are requested to attend the same.

The agenda for the meeting is as follows:

1. Finalisation of Semester V – Papers V & VI and Semester VI - Paper VII & VIII syllabus
2. Finalisation of the syllabus for Generic Elective.
3. Any other points.

Dr. Jyothi Nayar

Chairperson, BoS & HoD  
Department of Genetics,  
Biotechnology & Botany,  
Bhavan's Vivekananda College  
of Science, Humanities &  
Commerce,  
Sainikpuri, Secunderabad  
500094.

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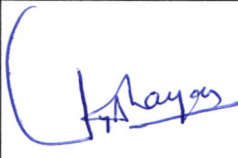

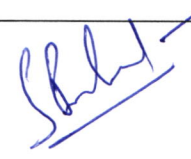
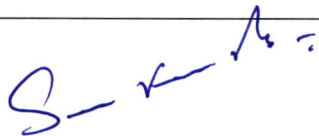
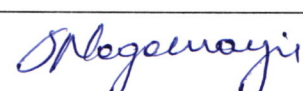

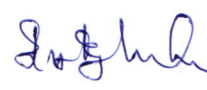
1. Dr. A Roja Rani, Professor,  
Chairperson, BoS - Biotechnology,  
Department of Genetics & Biotechnology, Osmania University, Hyderabad.

2. Subject Expert: Dr. Singam Prashant  
Assistant Professor, Biotechnology  
Department of Genetics & Biotechnology, Osmania University, Hyderabad.

3. Expert from Industry: Dr Samir Kumar Roy  
Head-RESEARCH:  
Nagarjuna Fertilizers and Chemicals Limited. Hyderabad, India.

4. Principal of the College: Prof. Y Ashok, Principal, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

The Board of Studies meeting for Biotechnology held on 29-03-2018 was attended by:

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee : Dr. A ROJA RANI, Professor, Chairperson, BoS - Biotechnology, Department of Genetics & Biotechnology, Osmania University, Hyderabad.	
3.	Subject Expert: Dr. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: Dr SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
6.	Dr S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
7.	Dr M PRAVEENA Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
8.	Special Invitee: Mr B H RAGHUNANDAN BSc BtGC III year Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	



## **Resolutions of the Fifth Board of Studies Meeting**

### **Department of Biotechnology**

29-03-2018

The Fifth Board of Studies meeting was conducted on 29-03-2018 at 2.30 pm in the Committee Room, MBA block, Bhavan's Vivekananda College of Science, Humanities & Commerce to discuss the following agenda:

1. Finalisation of Semester V – Papers V & VI and Semester VI - Paper VII & VIII syllabus
2. Finalisation of the syllabus for Generic Elective.
3. Any other points.

Members present:

1. Dr. Jyothi Nayar, Chairperson BOS, Dept of Genetics & Biotechnology Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Prof. A Roja Rani, University Nominee, Professor, Chairperson BoS - Biotechnology, Dept. of Genetics & Biotechnology, Osmania University.
3. Dr. S. Prashant, Subject Expert, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
4. Industry Expert: Dr. Samir Kumar Roy, Head-Research, Nagarjuna Fertilizers and Chemicals Limited, Hyderabad.
5. Faculty members of Biotechnology. Dept of Genetics & Biotechnology Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
6. Special Invitee: Mr. B H Raghunandan BSc BtGC III year.

Dr. Jyothi Nayar, the Chairperson, BoS welcomed the members of the BoS for the fifth board of studies meeting.



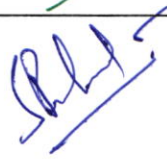
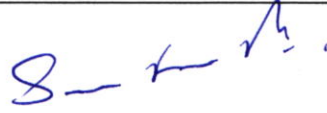


The following points were discussed as per the agenda and resolved as follows.

1. Finalization of Semester V – Papers V & VI and Semester VI - Paper VII & VIII syllabus.
  - Semester V - Paper VI  
Unit I Sterilization topic was removed and topics in the Units I, II III and IV were rearranged.
  - Semester VI – Paper VIII  
Unit I It was resolved to rename the unit as Industrial Biotechnology- Bioreactors and Fermentation Technology. Industrially important microbes and strain improvement is included.  
Unit III – It was resolved to rename the unit as Environmental Biotechnology – Energy Resources and Nanotechnology.  
Unit IV – It was resolved to rename the unit as Microbial Analysis and Bioremediation.  
In Units I & III, the topics were rearranged.
2. As per the CBCS pattern it was resolved to include generic elective course with 2 credits.
  - It was decided to include the following generic elective course:-

- i) Food Preservation and Adulteration.
- The syllabus for the GE was unanimously approved by the members of the BoS.
- It was resolved to follow GE from 2018-'19 onwards.

3. It was resolved to conduct the practical examinations for 25 marks only as it carries 1 credit per Semester from 2018-19 onwards.

The meeting was concluded by the vote of thanks proposed by Dr.Jyothi Nayar, Chairperson BoS, Genetics, Dept of Genetics, Biotechnology and Botany.

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics & Biotechnology Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee: Dr. A ROJA RANI, Professor, BoS- Biotechnology, Department of Genetics & Biotechnology, Osmania University, Hyderabad.	
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
5.	DR S NAGAMANJU Member, Board of Studies, Department of Genetics & Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
6.	DR M PRAVEENA Member, Board of Studies, Department of Genetics & Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

The above members approved the resolutions made during the board of studies meeting for Genetics held on 29/03/2018.

Notice

21. 03. 2017

Department of Genetics, Biotechnology & Botany.

IV BOARD OF STUDIES MEETING- BIOTECHNOLOGY

There will be a Board of Studies meeting for Biotechnology on 27<sup>th</sup> March, 2017 at 11:00 am in the Seminar Hall, Biochemistry Block. All the members are requested to attend the same.

The agenda for the meeting is as follows:

1. Finalisation of the syllabus for Skill Enhancement courses.
2. Any other points.

Dr. Jyothi Nayar

Chairperson, BoS & HoD  
Department of Genetics,  
Biotechnology & Botany,  
Bhavan's Vivekananda College  
of Science, Humanities &  
Commerce,  
Sainikpuri, Secunderabad  
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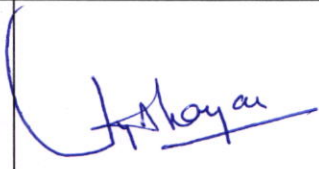


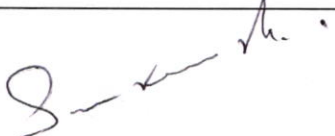


1. University Nominee: Dr H. Surekha Rani, Assistant Professor,  
Department of Genetics, Osmania University.

2. Subject Expert: Dr. Singam Prashant  
Assistant Professor, Biotechnology  
Department of Genetics, Osmania University.

3. Expert from Industry: Dr Samir Kumar Roy  
Head-RESEARCH:  
Nagarjuna Fertilizers and Chemicals Limited. Hyderabad, India.

4. Principal of the College: Prof. Y Ashok, Principal, Bhavan's Vivekananda College of Science,  
Humanities & Commerce, Sainikpuri, Secunderabad.

The Board of Studies meeting for Biotechnology held on 27-03-2017 was attended by:

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
6.	MS. T S RAJINI., Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

## Resolutions of the Fourth Board of Studies Meeting Department of Biotechnology

27-03-2017

The Fourth Board of Studies meeting was conducted on 27-03-2017 at 11.00 am in the Seminar Hall, Biochemistry Block, Bhavan's Vivekananda College of Science, Humanities & Commerce to discuss the following agenda:

1. Finalisation of the syllabus for Skill Enhancement courses.
2. Any other points.

### Members Present:

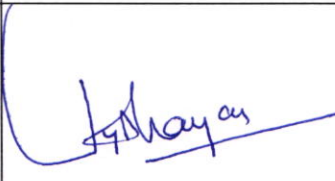


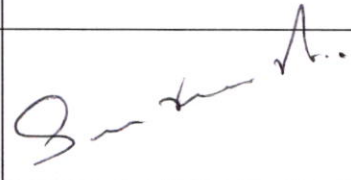

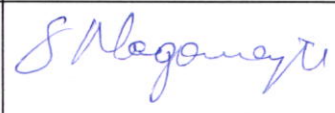
1. Dr. Jyothi Nayar, Chairperson BoS, Dept of Genetics, Biotechnology & Botany, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Dr. H. Surekha Rani, BoS O.U., University Nominee, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
3. Dr. S. Prashant, Subject Expert, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
4. Industry Expert: Dr. Samir Kumar Roy, Head-Research, Nagarjuna Fertilizers and Chemicals Limited, Hyderabad.
5. Faculty members of Biotechnology, Dept. of Genetics, Biotechnology & Botany, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

Dr. Jyothi Nayar, the Chairperson, BoS welcomed the members of the BoS for the fourth board of studies meeting.

The following points were discussed as per the agenda and resolved as follows.

1. As per the CBCS pattern it was resolved to include skill enhancement courses for Semesters III, IV, V & VI.
2. It was decided to include the following skill enhancement courses:-
  - i) Integrated Pest Management
  - ii) Bioinformatics
  - iii) Plant Tissue Culture and
  - iv) Fermentation and Alcohol Technology.
3. The syllabus for the SEC was approved with minor changes.
  - i) Integrated Pest Management: to include bio-pesticides and experiments using neem extract
  - ii) Bioinformatics: to include phylogenetic analysis
  - iii) Plant Tissue Culture: to include meristem culture and good lab practices in the practical sessions and
  - iv) Fermentation and Alcohol Technology: Change in the title to Fermentation Technology and to include screening for microbes in theory and culturing of yeast in practicals.
4. It was resolved to follow SEC from 2017-'18 onwards with 2 credits.
5. The members of BoS also authorized the Chairperson, BoS, to appoint in consultation with the Principal of the College, qualified examiners outside the approved panel in case of urgency. However such arrangements should be reported to the BoS in the next immediate meeting.

The meeting was concluded by the vote of thanks proposed by Dr. Jyothi Nayar, Chairperson BoS, Biotechnology, Dept. of Genetics, Biotechnology and Botany.

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
6.	MS. T S RAJINI., Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

The resolutions made in the BoS meeting for Biotechnology held on 27<sup>th</sup> March, 2017 was approved by the above members.

**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE, SAINIKPURI, SECUNDERABAD.**

**Autonomous College**

**Affiliated to OSMANIA UNIVERSITY, Hyderabad.**

**(Accredited with 'A' grade by NAAC)**

**Department of Genetics, Biotechnology and Botany**

**Subject: Biotechnology (Optional)**

**(BSc. Life Sciences)**

**LIST OF EXAMINERS**

- 1. Papers I & II:**
- 1. Mrs. B. Deepika, Lecturer, Dept of Biotechnology,  
Nizam College, Basheerbagh, Hyderabad**
  - 2. Mrs. A. Jaya Madhuri  
Lecturer, Department of Biotechnology,  
Loyola Academy, Degree & PG College,  
Old Alwal, Secunderabad.**
  - 3. Dr. S. Someshwar Rao,  
Assistant Professor  
Department of Genetics and Biotechnology,  
Osmania University**
- 2. Papers III & IV:**
- 1. Dr. Sambashiva  
Lecturer, Dept of Biotechnology,  
Nizam College, Basheerbagh, Hyderabad**
  - 2. Mrs. M. Archana  
Lecturer, Department of Biotechnology,  
Loyola Academy, Degree & PG College,  
Old Alwal, Secunderabad.**
  - 3. Mrs. N. Kavitha  
Lecturer, Department of Biotechnology,  
Sujatha Degree College for Women, Chapal Road, Hyderabad.**

*H. Suresh Reddy*

*[Signature]*

Head of The Department  
Dept. of Botany, Genetics & Biotechnology  
BVC, Sainikpuri

**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE, SAINIKPURI, SECUNDERABAD.**

**Autonomous College**

**Affiliated to OSMANIA UNIVERSITY, Hyderabad.**

**(Accredited with 'A' grade by NAAC)**

**Department of Genetics, Biotechnology and Botany**

**Subject: Biotechnology (Optional)**

**(BSc. Life Sciences)**

**LIST OF EXAMINERS**

**3. Papers V & VII:**

- 1. Dr. S. Prashant,  
Assistant Professor  
Department of Genetics and Biotechnology, Osmania University**
- 2. Dr Venkateshwara Rao,  
CPMB, Osmania University.**
- 3. Mrs. Deepa, HoD, Dept of Biotechnology,  
St. Francis Degree college for Women, Hyderabad**

**4. Papers VI & VIII:**

- 1. Mrs. Sugandhamala,  
Lecturer, Department of Biotechnology,  
St. Pious Degree College for Women, Hyderabad.**
- 2. Dr. C. C. Giri  
CPMB, Osmania University**
- 3. Dr. Padmalatha,  
HoD, Department of Biotechnology,  
St. Pious Degree College for Women, Hyderabad.**

**Note: The names of Examiners may be added or deleted subject to their availability by the Chairperson, BoS, Biotechnology, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.**

*H. Suresh Kumar*

*[Signature]*

Head of The Department  
Dept. of Botany, Genetics & Biotechnology,  
BVC, Sainikpuri



Notice

23.06.16

Department of Genetics, Biotechnology & Botany.

III BOARD OF STUDIES MEETING- BIOTECHNOLOGY

There will be a Board of Studies meeting for Biotechnology on 24<sup>th</sup> June, 2016 at 12:00 noon in the Committee Room MBA Block. All the members are requested to attend the same.

The agenda for the meeting is as follows:

1. To adopt CBCS with effect from the academic year 2016-'17.
2. The Biotechnology syllabus for BSc I year Semester I and II for both theory and practicals to be finalised under the CBCS for implementation with effect from the academic year 2016-'17.
3. Any other point.

Dr. Jyothi Nayar

Chairperson, BoS & HoD  
Department of Genetics,  
Biotechnology & Botany,  
Bhavan's Vivekananda College  
of Science, Humanities &  
Commerce,  
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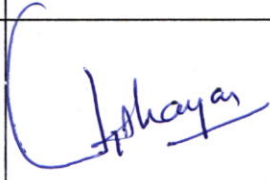

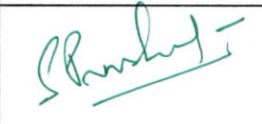
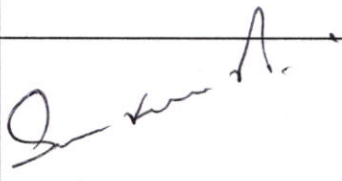
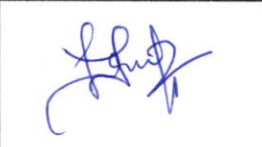
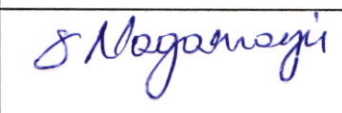
1. University Nominee: Dr H. Surekha Rani, Assistant Professor,  
Department of Genetics, Osmania University.

2. Subject Expert: Dr. Singam Prashant  
Assistant Professor, Biotechnology  
Department of Genetics, Osmania University.

3. Expert from Industry: Dr Samir Kumar Roy  
Head-RESEARCH:  
Nagarjuna Fertilizers and Chemicals Limited. Hyderabad, India.

4. Principal of the College: Prof. Y Ashok, Principal, Bhavan's Vivekananda College of Science,  
Humanities & Commerce, Sainikpuri, Secunderabad.

The Board of Studies meeting for Biotechnology held on 24-06-2016 was attended by:

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
6.	MS. SHRUTI N., Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

## **Resolutions of the Third Board of Studies Meeting Department of Biotechnology**

24-06-2016

The Third Board of Studies meeting was conducted on 24-06-2016 at 12.00 noon in the Committee Room, MBA block, Bhavan's Vivekananda College of Science, Humanities & Commerce to discuss the following agenda:

1. To adopt CBCS with effect from the academic year 2016-'17.
2. The Biotechnology syllabus for BSc I year Semester I and II for both theory and practicals to be finalised under the CBCS for implementation with effect from the academic year 2016-'17.
3. Any other point.

### **Members Present:**

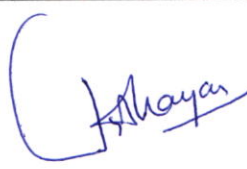


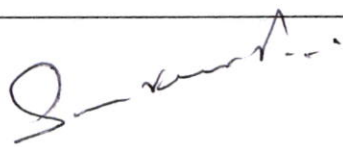
1. Dr. Jyothi Nayar, Chairperson BoS, Dept of Genetics , Biotechnology & Botany, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Dr. H. Surekha Rani, BoS O.U., University Nominee, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
3. Dr. S. Prashant, Subject Expert, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
4. Industry Expert: Dr. Samir Kumar Roy, Head-Research, Nagarjuna Fertilizers and Chemicals Limited, Hyderabad.
5. Faculty members of Biotechnology, Dept. of Genetics , Biotechnology & Botany, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

Dr. Jyothi Nayar, the Chairperson, BoS welcomed the members of the BoS for the third board of studies meeting.

The following points were discussed as per the agenda and resolved as follows.

1. It was resolved to follow the CBCS pattern, allotting appropriate credits to each course.
2. It was decided to allot 1 credit for one hour of theory class and 1 credit for two hours of practical sessions. Each course will have 4+1 =5 credits per week.
3. It was resolved to follow the same syllabus for both theory and practicals as approved in the previous BoS meeting held on 17-03-2016 for the batch admitted in the academic year 2016-'17 and onwards.

The meeting was concluded by the vote of thanks proposed by Dr. Jyothi Nayar, Chairperson BoS, Biotechnology, Dept of Genetics, Biotechnology and Botany.

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
6.	MS. SHRUTI N., Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

The resolutions made in the BoS meeting for Biotechnology held on 24<sup>th</sup> June, 2016 was approved by the above members.

Notice

15.03.16

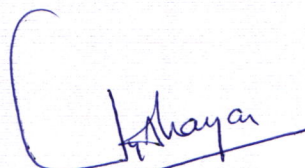
Department of Genetics, Biotechnology & Botany.

II BOARD OF STUDIES MEETING- BIOTECHNOLOGY

There will be a Board of Studies meeting for BIOTECHNOLOGY on 17th March, 2016 at 11:30 am in the Committee Room, MBA Block. All the members are requested to attend the same.

The agenda for the meeting is as follows:

1. Finalisation of II and III year syllabus.
2. Finalisation of III year Elective Papers.
3. Any other point.



**Dr. Jyothi Nayar**

Chairperson ,BoS & HoD  
Department of Genetics,  
Biotechnology & Botany,  
Bhavan's Vivekananda College  
of Science, Humanities &  
Commerce,  
Sainikpuri, Secunderabad.

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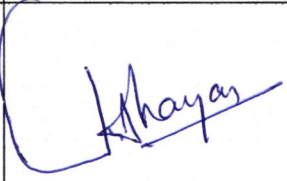

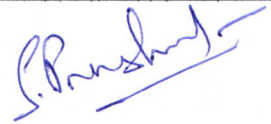
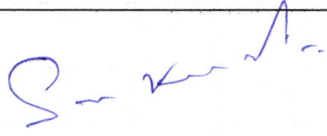
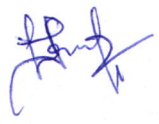

1. University Nominee: Dr H. Surekha Rani, Assistant Professor,  
Department of Genetics, Osmania University.

2. Subject Expert: Dr. Singam Prashant  
Assistant Professor, Biotechnology  
Department of Genetics, Osmania University.

3. Expert from Industry: Dr Samir Kumar Roy  
Head-RESEARCH:  
Nagarjuna Fertilizers and Chemicals Limited. Hyderabad, India.


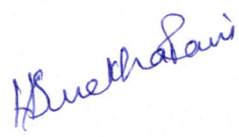
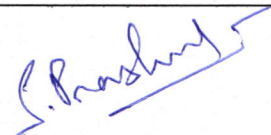



4. Principal of the College: Prof. Y Ashok, Principal, Bhavan's Vivekananda College of Science,  
Humanities & Commerce, Sainikpuri, Secunderabad.

The Board of Studies Meeting for <sup>BIOTECHNOLOGY</sup> Genetics held on 17<sup>th</sup>, March 2016 was attended by:

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
6.	MS. SHRUTI N., Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

BIOTECHNOLOGY

The Board of Studies Meeting for Genetics held on 17<sup>th</sup>, March 2016 was attended by:

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
6.	MS. SHRUTI N., Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

**Resolutions of the Second Board of Studies Meeting  
Department of Biotechnology**

18-03-2016

The Second Board of Studies meeting was conducted on 17-03-2016 at 11.30 a.m. in the Committee Room, MBA block, Bhavan's Vivekananda College of Science, Humanities & Commerce, to discuss the following agenda:

1. To finalize the II and III year syllabus- Sem III, IV, V & VI.
2. To finalize the syllabus for elective papers: VI A, VI B, VIII A and VIII B.
3. Any other issues.

**Members Present:**

1. Dr. Jyothi Nayar, Chairperson BoS, Dept of Genetics , Biotechnology & Botany, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Dr. H. Surekha Rani, BoS O.U., University Nominee, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
3. Dr. S. Prashant, Subject Expert, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
4. Industry Expert: Dr. Samir Kumar Roy, Head-Research, Nagarjuna Fertilizers and Chemicals Limited, Hyderabad.
5. Faculty members of Biotechnology, Dept. of Genetics , Biotechnology & Botany, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

Dr. Jyothi Nayar, the Chairperson, BoS welcomed the members of the BoS for the second board of studies meeting. She appraised them of the successful completion of Semester I for the first batch of students admitted in 2015-'16 under autonomy. She also informed them that the result for Biotechnology Paper I – Cell Biology and Genetics was 100%.

The resolutions made during the meeting were as follows:

**Agenda 1. To finalize the II and III year syllabus- Sem III, IV, V & VI.**

- The syllabus approved in the previous BoS meeting (17/6/15) was recommended to be followed for II year Sem III Paper III- Biochemistry & Sem IV Paper IV- Microbiology and Biophysical Techniques and III year Sem V, Paper V- Molecular Biology from the academic year 2016-17 onwards for both theory and practicals.
- For III yr, Sem VI, Paper VII - Genetic Engineering and Immunology, the previously approved syllabus (17/6/15) will be followed from 2016-17 onwards



with some changes – topics 1 and 2 to be interchanged under Unit III -Basics of Immunology . It was suggested that Innate and adaptive immunity, Multi gene organization of Ig genes be included in the same unit and in Unit IV- humoral and cell-mediated immunity to be included.

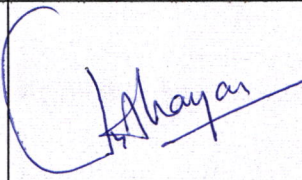
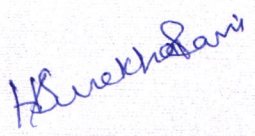
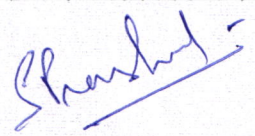
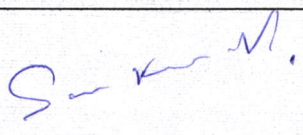
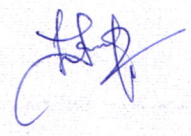
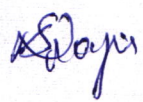
**Agenda 2. To finalize the syllabus for elective papers: VIA, VI B, VIIIA and VIII B.**

- It was proposed to introduce elective papers in the III year, Sem V paper VI and Sem VI paper VIII. The electives introduced were Paper VI A- Animal and Plant Biotechnology, Paper VI B - Medical Microbiology; Sem VI Paper VIII A- Industrial and Environmental Biotechnology and VIII B- Enzyme Technology. The draft syllabus for the elective papers was put up in the meeting for discussion.
  - The theory and practical syllabus for elective papers Paper VI A- Animal and Plant Biotechnology and Paper VI B - Medical Microbiology was approved to be implemented from 2016-'17 onwards.
  - As per the suggestion of the BoS members, in the Elective paper VIII A - Industrial and Environmental Biotechnology under Unit III the topic Nanotechnology was replaced Biodiversity and in Unit IV - Environmental Biotechnology - Bioremediation, the subtopics In-situ and Ex-situ bioremediation and Phyto-remediation was included.
  - In the elective Paper VIII B – in addition to Enzyme technology it was suggested that Medical biotechnology also be added and the syllabus for both theory and practical of Medical Biotechnology have been suggested and approved by the members of BoS. The title of the elective Paper VIII A will be Enzyme Technology and Medical Biotechnology.
- The syllabus for I year was approved for the batch admitted in 2015 -'16 onwards.
  - The syllabi for II and III year was approved from 2016-'17 onwards.

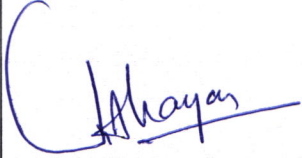


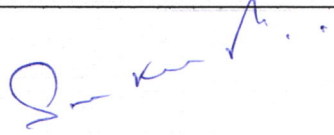


**Agenda 3. Any other issues.**

- The members of BoS recommended the adoption of CBCS system at the earliest.
- The members of BoS also authorized the Chairperson, BoS, to appoint in consultation with the Principal of the College, qualified examiners outside the approved panel in case of urgency. However such arrangements should be reported to the BoS in the next immediate meeting.

The meeting was concluded by the vote of thanks proposed by Dr.Jyothi Nayar, Chairperson BoS, Biotechnology, Dept of Genetics, Biotechnology and Botany.

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	
6.	MS. SHRUTI N., Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

The resolutions made in the BoS meeting for Biotechnology held on 17<sup>th</sup> March, 2016 was approved by the above members.

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	
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7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

The resolutions made in the BoS meeting for Biotechnology held on 17<sup>th</sup> March, 2016 was approved by the above members.

Notice

15.06.15

Department of Genetics, Biotechnology & Botany.

BOARD OF STUDIES MEETING

There will be a Board of Studies meeting for BIOTECHNOLOGY on 17th June, 2015 at 11:30 am in the Committee Room. All the members are required to attend the same.

The agenda for the meeting is as follows:

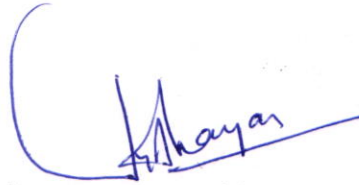
1. Discussion and Finalisation of the syllabus.

2. Pattern of Question Paper.

- External Examination

- Internal Examinations

3. Any other point.



Dr. Jyothi Nayar

Chairperson ,BoS & HoD  
Department of Genetics,  
Biotechnology & Botany,  
Bhavan's Vivekananda College  
of Science, Humanities &  
Commerce,  
Sainikpuri, Secunderabad.

Copy to:

1. University Nominee: Dr H. Surekha Rani, Assistant Professor,  
Department of Genetics, Osmania University.

2. Subject Expert: Dr. Singam Prashant  
Assistant Professor, Biotechnology  
Department of Genetics, Osmania University.

3. Expert from Industry: Dr Samir Kumar Roy  
Head-RESEARCH:  
Nagarjuna Fertilizers and Chemicals Limited. Hyderabad, India.

4. Alumnus: Ms Sirisha Manne  
Research Analyst  
Central Grain Analysis Lab.

5. Principal of the College: Prof. Y. Ashok, Principal, Bhavan's Vivekananda College of Science,  
Humanities & Commerce, Sainikpuri, Secunderabad.

**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE, SAINIKPURI, SECUNDERABAD.**

**Autonomous College**

**Affiliated to OSMANIA UNIVERSITY, Hyderabad.**

**(Accredited with 'A' grade by NAAC)**

**Department of Genetics, Biotechnology and Botany**

**Subject: Biotechnology (Optional)**

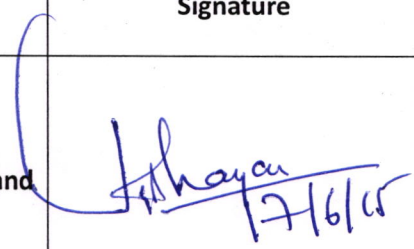
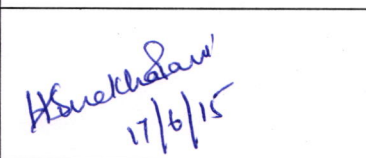
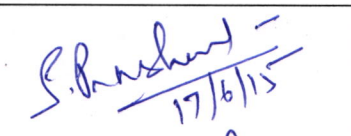
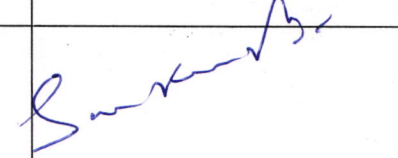
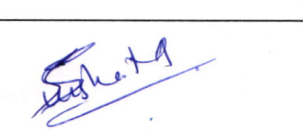
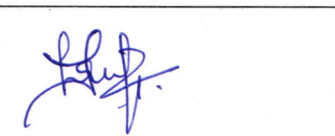
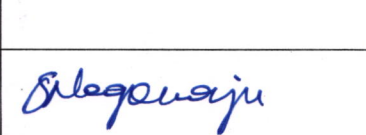
**(BSc. Life Sciences)**

**BOARD OF STUDIES – MEMBERS**

S.No.	NAME AND DESIGNATION	PHONE NUMBER and e-mail ID
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	9989692792  jyothinayars@yahoo.com
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	9866620067  surekharanih@yahoo.co.in
3.	Subject Expert: Dr S PRASHANT Assistant Professor, Biotechnology. Department of Genetics & Biotechnology,	9849667490  prashantsingam@gmail.com
4.	Expert from Industry: DR SAMIR KUMAR ROY Head-RESEARCH: Nagarjuna Fertilizers and Chemicals Limited., Hyderabad, India.	08008883714  titu1959@hotmail.com SamirKumarRoy@nagarjuna
5.	ALUMNUS: MS SIRISHA MANNE Research Analyst Central Grain Analysis Lab.	9494252977  agroup.com
6.	MS. SHRUTI N., Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	9908208514  shruti.de25@gmail.com
7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	9000908980

BIOTECHNOLOGY

The Board of Studies Meeting for Genetics held on 17<sup>th</sup>, June 2015 was attended by:

S.No.	NAME AND DESIGNATION	Signature
1.	Dr JYOTHI NAYAR, Chairperson , Board of Studies, Head, Dept. Of Genetics, Biotechnology & Botany. Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	 17/6/15
2.	University Nominee : DR. H SUREKHA RANI Assistant Professor, Department of Genetics & Biotechnology, Chairperson, BoS – Biotechnology, Osmania University	 17/6/15
3.	Subject Expert: DR. SINGAM PRASHANT Assistant Professor, Biotechnology, Department of Genetics & Biotechnology, Osmania University	 17/6/15
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## RESOLUTIONS OF THE BOARD OF STUDIES MEETING

18-6-2015

Board of Studies meeting in Biotechnology (UG) was held on 17-6-2015 at 11:30 a.m. in the Committee Room, MBA block, Bhavan's Vivekananda College

### Members Present:

1. Dr. Jyothi Nayar, Chairperson BOS, Dept of Genetics, Biotechnology & Botany, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Dr. H. Surekha Rani, BoS O.U., University Nominee, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
3. Dr. S. Prashant, Subject Expert, Assistant Professor, Dept of Genetics and Biotechnology, Osmania University.
4. Industry Expert: Dr. Samir Kumar Roy, Head-Research, Nagarjuna Fertilizers and Chemicals Limited, Hyderabad.
5. Alumini: Ms. Sirisha Manne, Research Analyst, Central Grain Analysis Lab, Hyderabad.
6. Faculty members of Biotechnology. Dept of Genetics, Biotechnology & Botany, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

### Agenda 1: Discussions for changes in the Draft Syllabus

The resolutions regarding the changes in the draft syllabus for Biotechnology Paper I, II, III, IV, V, VI, VII & VIII are as follows:

1. All the papers must contain a minimum of six topics.
2. In P-I practicals, DNA estimation and graphical representation of data must be shifted to P-II.
3. In P-II, Unit I, all DNA topics to be covered first before RNA topics.
4. In P-II, Unit III must include all Biostatistics topics only.
5. In P-II, Unit IV must include only Bioinformatics topics.
6. In P-II practicals must include polytene chromosomes experiment.
7. In P-III must include only Biochemistry topics, Microbiology units must be shifted to the next paper. Unit I must include Carbohydrates and Proteins.
8. In P-III practicals, that qualitative test of sugars and lipids must be separated.
9. In P-IV, names of the units must be changed instead of Biophysical Techniques I and II.
10. In P-IV practicals, estimation of protein must be shifted to P-III practicals.
11. In P-V, P-VII, the topics must be elaborated with examples.
12. In P-VIII practicals, Leukocytes culture experiment must be shifted to P-VII practicals.

## Agenda 2: Examination Pattern

1. All the members of the BOS unanimously agreed to the Semester End theory exam pattern as proposed in the draft.
2. Examination pattern for Internal assessment I & II (Theory) was suggested by the OU nominee as follows:
  - 10 MCQs  $10 \times 1/2 = 5$
  - F/B  $10 \times 1/2 = 5$
  - VSA  $5 \times 1 = 5$
  - Essay with Internal Choice = 10
  - Total = 25
  - The remaining 5 marks for Assignment/ Seminar can be retained as proposed in the original draft.
3. Model for Internal Practical Assessment (Continuous Internal Assessment)
  - Good Lab Practices - 5
  - Reporting results & Inference - 5
  - Record- 5
  - Total- 15
4. Pattern for Semester End Practical examination.
  - Conduction of experiments major and minor/ problems - 20 marks
  - Spots-10
  - Viva-5
  - Total-35 Marks.

## Agenda 3:

1. Field trips and guest lectures for the students must be incorporated.
2. Students visit to the industries must be encouraged and inculcate in-house projects.
3. Suggestion to purchase a bench top Bioreactor.



S.No.	NAME AND DESIGNATION	Signature
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7.	DR S NAGAMANJU Member, Board of Studies, Department of Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.	

The above members approved the resolutions made during the board of meeting for Biotechnology held on 17-06-2015.

