

Department of Biotechnology

Members of Board of Studies 2016-2017

1. Head of the Department, Chairman, Board of Studies	Dr. T. Sai Krishna
2. All the Professors of the Department	Nil
3. One Associate Professor	Dr. A.V.N.Swamy
4. One Assistant Professor.	Dr. V. Aruna
5. Two experts in the subject from outside the college to be nominated by the Academic Council.	1. Prof. Ramesh Kumar, BOS, College of Technology, Osmania University, Hyderabad. 500007. 2. Dr. N. Madhusudhan Rao, Scientist, CCMB, Taranaka, Hyderabad 500007
6. One expert nominated by the Vice- chancellor, Osmania University.	1. Prof. Raja Rao, University College of Technology, O U. (Special Invitee) 2. Prof. Gopal Reddy, Department of Microbiology, OU, Hyderabad-500007.
7. One representative from industry/corporate sector/allied area relating to placement.	1. Dr. Y. Harish Kumar Reddy. Manager-R&D (Tech.Dev) Biological E. Ltd. Hyderabad.
8. One postgraduate eritorious alumnus to be nominated by the Principal.	1. Mr. Navneet Bung GSI-44, Innovation Lab, Tata Consultancy Services, Deccan Park, Madhapur, Hyderabad-500081.
(a) Experts from outside the college whenever special courses are to be formulated.	-
(b) Other members of staff of the same Dept.	1. Mr. C. Obula Reddy 2. Dr. G. Vijaya Laxmi

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Autonomous

DEPARTMENT OF BIOTECHNOLOGY

Date: 03-06-2016

AGENDA

Meeting of the Board of Studies in Biotechnology on 3rd June 2016.

1. Review of syllabus structure for IV/IV Sem- I & II (B.Tech) Biotechnology in the light of Autonomy
2. Review of Subject wise syllabus

IV/IV Sem-1

➤ Theory subjects-

- a. Down Stream Processing
- b. Animal Biotechnology
- c. Plant Biotechnology
- d. Bioprocess Dynamics and Control
- e. Principles and Practice of Management
- f. Elective-II
 - Pharmaceutical Biotechnology (From Core to Elective)
 - Genomics and Proteomics (Existing)
 - Cancer Biology (Existing)
 - Developmental Biology (Newly introduced)

➤ Labs-

- g. Tissue Culture Lab
- h. Downstream Processing Lab

➤ Project Seminar

IV/IV Sem-2

➤ Theory subjects-

- a. Bioprocess Economics and Plant Design
- b. Computer Application in Bioprocess
- c. Elective-III
 - Tissue Engineering (Newly introduced)
 - Food Biotechnology (From Core to Elective)
 - Molecular Modeling and Drug Designing (Existing)
 - Immunodiagnostics (Existing)
- d. Elective-IV
 - Nanobiotechnology (Newly introduced)
 - Biosensors and Bioelectronics (Existing)
 - Creativity, innovation and New Product Development (Existing)
 - Bioprocess Validation and Current Good Manufacturing Practices (Existing elective- 4/4 -I SEM)

- Project
- Seminar

3. To suggest methodologies for Innovative teaching
4. Suggest External examiners
5. To Co-ordinate Research & Training
6. Industry Institute interaction, MOU...etc.,

DSP Lab :- Homogenization

Lab = Mechanical Disruption Method

- Solvent precipitation
- Fractional Distillation
- Microfluidizer
- Salt precipitation change in pH
- Ammonia precipitation
- Adsorption precipitation change in pH

To Buy
Fracting
distillation
Tanks

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
GANDIPET, HYDERABAD - 75

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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
GANDIPET, HYDERABAD - 75**

Department of Biotechnology

3/6/16

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3/6/16

Minutes of Meeting:

⇒ Connectivity of courses shall be considered / considered to avoid repetitions:

Sem I DownStream process

Unit III Types of flow are included with cross flow, mixed flow and tangential flow filtration.

- change of Title - Retain the existing title as "Principles of Management Practices."

- Animals Tissue Culture

- Introduce the animal Tissue Culture experiments shall be included

- "Computer Applications in Bioprocess Industry/Industry"

~~this title shall~~

be made in place of the existing title

- 'Bioprocess economics and plant design

Unit I include economics of design

and

Unit II Economics related to effluent design

Elective III

Immunodiagnosics - (Purified vaccines

- conjugate, poly saccharide vaccines).

Food Biotechnology elective III is shifted to Elective IV,

so that 3 electives in ~~sem I & II~~ ^{sem I & II} are to be offered.

Food Biotechnology - Include food grade polymers

in unit I and food labelling &

Food Standard agencies in unit II

unit IV - various apps for drying and irradiation of food.

Tissue Engineering: Syllabus needs to be balanced

and elaborated

unit V - Tissue grafting in topic to be included

Elective IV
Biosoc
an

ie.

Nano Bi

Suggestion

Project seminar
Teacher workload
Opportunities
Counselor

Elective IV : Biosensors Validation
(8 Sem II) and CGMP - Include validation agencies in unit I

Expand unit II and III (Depth) Unit III Include CGMP/GDP (subject) WHO, DCGI

Unit V Safety & Biosafety levels (I to IV levels) Elective IV Biosensors and Biosensors

and creativity, Innovation & New product development ~~is~~ removed from proposed electives,

ie. In second sem only 3 electives are to be offered -

Nano Biotechnology

unit II needs to include one or two examples for each nanostructure.

Unit IV Title is changed to "General applications of Nano - Biotechnology"

Unit V Title is changed to Current Applications of Nano-Biotechnology

Suggestion for Project Seminar I

Project Seminar I which would be review of objectives and Review of project - shall be conducted after 10 weeks - Project allotment shall be allotted, finalized within two weeks after commencement of Semester Teacher workload impact is considered

Project Seminar II

Evaluation procedure - Profume for
Seminar - To be conducted with BES

Project evaluation for grading - procedure
existing needs to be

scripting language like Python may be introduced
in ~~III/IV~~ IV/IV Biotechnology as an elective.

- Bioinformatics may be offered as open elective
at IV/IV Sem II for CSE Department

Sudhy
3/6/16

V. Anurag
3/6/2016

Srinivas
3/6/2016

Narinet
3/6/2016

Ullas

VED
(Dr. Anuswarani)
3/6/16

03.06.2016.

V. Arune
3/6/2016

GVL
3/6/16
(Dr. G. Vijaya Lakshmi)

Typed and Sent the
Concerned members