Department of Biochemical Engineering and Biotechnology
Faculty Board Meeting (03/2018-19)

November 6, 2018

The 3rd Departmental Faculty Board Meeting of 2018-19 was held on 29th October 2018, at 3 PM in the Departmental Committee Room (I-230). The following members were present:

1. Prof. Atul Narang Chairman
2. Prof. Saroj Mishra Member
3. Prof. A.K. Srivastava Member
4. Prof. Sunil Nath Member
5. Prof. T.R. Sreekrishnan Member
6. Prof. Prashant Mishra Member
7. Prof. D. Sundar Member
8. Prof. Shilpi Sharma Member
9. Prof. Preeti Srivastava Member
10. Prof. Ravikrishnan Elangovan Member
11. Prof. Z.A. Shaikh Member
12. Prof. Ashish Misra Convener

**Item No. 1. Confirmation of minutes of 2nd DFB meeting (2018-19)**

The minutes of the meeting were confirmed as circulated.

**Item No. 2. Matters arising from the above meeting**

*Item No. 6. Courses for Semester II-2018-19*

*The timetable in-charge shared the revised timetable for courses to be floated in Sem II-2017-18 (Annexure 1).*

**Item No. 3. B. Tech/Dual Degree seat re-appropriation starting AY 2019-2020**

The board deliberated this issue for a considerable period and recommended giving up all seats from the 5 year dual-degree (B.Tech + M.Tech) program as part of seat re-appropriation. The board recommended starting a 2 year M. Tech. program in its place and ending the currently run M.S. (Research) program.

**Item No. 4. Discussion of class committee meeting minutes**
The class committee meeting minutes of various batches (Annexure 2) were discussed with the following major points.

<table>
<thead>
<tr>
<th>Year</th>
<th>Issue</th>
<th>Board’s recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>- Floating of 4 credit PEs</td>
<td>- Courses with revised templates to offer 4 credit PEs had been sent to BAP</td>
</tr>
<tr>
<td></td>
<td>- Running of courses (BBL731, CLL252, BBL433, MTL102 and BBL432))</td>
<td>- Asked concerned faculty to take note of the issues raised by students</td>
</tr>
<tr>
<td></td>
<td>- Training and Placement</td>
<td>- Seconded suggestion of inviting industry speakers</td>
</tr>
<tr>
<td></td>
<td>- Data structures course</td>
<td>- Moving bioinformatics course to C slot</td>
</tr>
<tr>
<td>2016</td>
<td>- Data structures course</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>- BBN101 course missed lectures and attendance policy</td>
<td>- Sharing of time-table on noticeboard and requirement of 100% attendance for passing the course except in case of a genuine reason for not being able to attend specific lecture(s)</td>
</tr>
</tbody>
</table>

**Item No. 5. Increase of PhD supervision limit in department**

The board recommended increasing the departmental PhD supervision limit to 10 with the following conditions.

i. No change in departmental funding to each faculty.

ii. No increase in other departmental resources such as lab-space allotted to faculty.

iii. Charging faculty for use of departmental shared resources based on number of students using the resource per faculty

**Item No. 6. High rate of attrition amongst department doctoral students (based on DRC 02/2018-19 minutes under any other item)**

The board deliberated on this issue for some time and decided to take up this issue in detail in the next DFB.
Item No. 7. Lab and office space for new hire (Rohan Jain)

The board accepted Rohan’s request for office space (I-138) and lab space (pilot plant) per his email (Annexure 3)

Item No. 8. Any other issues

None

Ashish Misra
Convener, DFB

Distribution

All DBEB faculty by email

Cc: Office file
## Annexure 1

### Courses, Sem II, 2018-19

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Slot</th>
<th>Course Name (credits)</th>
<th>L-T-P structure</th>
<th>Course Coordinator</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBL341</td>
<td>H</td>
<td>Environmental Biotech (3)</td>
<td>3-0-0</td>
<td>SS</td>
<td>DE</td>
</tr>
<tr>
<td>BBL431</td>
<td>J</td>
<td>Bioprocess Technology (2)</td>
<td>2-0-0</td>
<td>ZAS</td>
<td>DC</td>
</tr>
<tr>
<td>BBL432</td>
<td>H</td>
<td>Fluid Solid Systems (2)</td>
<td>2-0-0</td>
<td>SN</td>
<td>DC</td>
</tr>
<tr>
<td>BBL433</td>
<td>D</td>
<td>Enzyme Science and Engg (4)</td>
<td>3-0-2</td>
<td>RE</td>
<td>DC</td>
</tr>
<tr>
<td>BBL434</td>
<td>C</td>
<td>Bioinformatics (3)</td>
<td>2-0-2</td>
<td>DS</td>
<td>DC</td>
</tr>
<tr>
<td>BBL443</td>
<td>J</td>
<td>Modeling and Simulation of Bioprocesses (4)</td>
<td>3-0-2</td>
<td>AM</td>
<td>DE</td>
</tr>
<tr>
<td>BBL445</td>
<td>E</td>
<td>Membrane Applications in Bioprocessing (3)</td>
<td>3-0-0</td>
<td>GPA</td>
<td>DE</td>
</tr>
<tr>
<td>BBL736</td>
<td>B</td>
<td>Dynamics of Microbial Systems (3)</td>
<td>3-0-0</td>
<td>AN</td>
<td>PC</td>
</tr>
<tr>
<td>BBL740</td>
<td>K</td>
<td>Plant Cell Technology (3)</td>
<td>2-0-2</td>
<td>AKS</td>
<td>DE*/PE</td>
</tr>
<tr>
<td>BBL742</td>
<td>D</td>
<td>Biological Waste Treatment (4)</td>
<td>3-0-2</td>
<td>TRS</td>
<td>DE*/PE</td>
</tr>
<tr>
<td>BBL745</td>
<td>J</td>
<td>Combinatorial Biotechnology (3)</td>
<td>3-0-0</td>
<td>PS</td>
<td>DE*/PE</td>
</tr>
<tr>
<td>BBL746</td>
<td>H</td>
<td>Current Topics in Biochem &amp; Biotech (3)</td>
<td>3-0-0</td>
<td>SM</td>
<td>DE*/PE</td>
</tr>
<tr>
<td>BBL747</td>
<td>E</td>
<td>Bionanotechnology (3)</td>
<td>3-0-0</td>
<td>PM</td>
<td>DE*/PE</td>
</tr>
<tr>
<td>BBL749</td>
<td>F</td>
<td>Cancer Cell Biology (4.5)</td>
<td>3-0-3</td>
<td>RK</td>
<td>DE*/PE</td>
</tr>
<tr>
<td>BBQ301</td>
<td>P</td>
<td>Seminar Course I</td>
<td></td>
<td>HOD</td>
<td></td>
</tr>
<tr>
<td>BBQ302</td>
<td>P</td>
<td>Seminar Course II</td>
<td></td>
<td>HOD</td>
<td></td>
</tr>
<tr>
<td>BBQ303</td>
<td>P</td>
<td>Seminar Course III</td>
<td></td>
<td>HOD</td>
<td></td>
</tr>
<tr>
<td>BBD452</td>
<td>P</td>
<td>BTP part II</td>
<td></td>
<td>RE</td>
<td></td>
</tr>
<tr>
<td>BBD895</td>
<td>P</td>
<td>MSR</td>
<td></td>
<td>RK</td>
<td></td>
</tr>
<tr>
<td>BBD851</td>
<td>P</td>
<td>MTP</td>
<td></td>
<td>AM</td>
<td></td>
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<tr>
<td>BBD852</td>
<td>P</td>
<td>MTP</td>
<td></td>
<td>AM</td>
<td></td>
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<tr>
<td>BBD853</td>
<td>P</td>
<td>MTP</td>
<td></td>
<td>AM</td>
<td></td>
</tr>
<tr>
<td>BBD854</td>
<td>P</td>
<td>MTP</td>
<td></td>
<td>AM</td>
<td></td>
</tr>
</tbody>
</table>

* DE for 4 year B. Tech. program students.
Subject: Re: Class committee meeting minutes
From: Zia Shaikh <zia@iitd.ac.in>
Date: 10/26/2018 7:00 PM
To: Ashish Misra <ashishmisra@dbeb.iitd.ac.in>
CC: "Ashok K. Srivastava" <ashokks@dbeb.iitd.ac.in>

Dear Ashish,
Pls see below students concern.
1. Too many PEs in their 9th semester. They asked for more PEs of 4 credits to avoid taking more number of courses. This will allow them to give more time to their MTP work.
Regards,
Zia

--
Dr. Shaikh Ziauddin Ahammad
Associate Professor,
Block 1, Room # 135,
Department of Biochemical Engineering and Biotechnology
IIT Delhi, Hauz Khas, New Delhi -110016
Tel: +91 11 2659 1006
Fax: +91 11 2658 2282
Email: zia@iitd.ac.in
Skype: zia.iitd

On 26-Oct-2018, at 6:16 PM, Ashish Misra <ashishmisra@dbeb.iitd.ac.in> wrote:

Dear class committee meeting conveners,

Please send me the minutes of your meetings for discussion in the upcoming DFB.

Regards,

Ashish

--
Ashish Misra
Assistant Professor
Department of Biochemical Engineering and Biotechnology
IIT Delhi
Hauz Khas
New Delhi, 110016
Email: ashishmisra@iitd.ac.in
The Class Committee Meeting for 2015 Entry Batch took place on 25th October 2018 at 3:30 pm in the Departmental Committee room. Following members were present:

1. Prof. Sunil Nath  Chairman
2. Prof. Ritu Kulshreshtha  Member
3. Prof. D. Sundar  Faculty Convener
4. Prof. Atul Narang  Head of the Department
5. Prof. T.R. Sreekrishnan  Special Invitee
6. Prof. Ravi Elangovan  Special Invitee
7. Prof. Preeti Srivastava  Time Table Incharge
8. Mr Prince Agarwal  Group Representative
9. Ms Asmita Pahade  Group Representative
10. Ms Divya Garg  TNP Nucleus Coordinator (Invited)
11. Mr Jashan Sing Suri  Gen. Secy. SAC (Invited)
12. Mr Arnav Karan  Student Convener

- **Item No. 1:** Discussion on Current Semester’s Courses
  - BBL731: The Course Coordinator noted the feedback from the students to make the course more structured.
  - No comments were received for other courses of this semester.

  
  *Action: Course Coordinator BBL731 (Prof. SN)*

- **Item No. 2:** Department Electives for Next Semester
  - Timetable Incharge presented the list of courses for the next semester. Faculty members showed their concern about current slotting of the courses and requested the timetable In-charge to revisit the current slotting.

  *Action: Timetable In-charge (Prof. PS)*

  - Head asked the students not to ask the Timetable In-charge or the head to keep changing the slots. The discussion will be held only once per semester after that no requests will be entertained

  *Action: Timetable In-charge (Prof. PS) and Student Convener*
• **Item No. 3:** Feedback on Previous Semesters’ courses
  
  o **CLL252:** The students have presented their concern with the course. The students pointed out that the course has very little content and has unsatisfactory teaching. The Committee acknowledged the concern as it has been raised in the past as well. The Head said he would take necessary action for the same.

  *Action: Head of the Department (Prof. AN)*

  o **BBL433:** The course coordinator acknowledged students concern and will take necessary action.

  *Action: Course Coordinator BBL433 (Prof. RE)*

  o **MTL102:** The students showed their concern about the course being abstract, and a numerical method course would be better than the current offering. Faculty members did agree on the abstractness of the course but were not in consensus with the numerical method being the correct alternative. A statistics course or a course which uses modern numerical computing environment like MATLAB would be a better alternative suggested by Head. This feedback would be noted for the mid-term curriculum review.

  *Action: Head of the Department (Prof. AN)*

  o **CLP302:** The students feel they are inadequately prepared for the course, especially in the fluid mechanics part. Committee asked the Student Convener to prepare a document highlighting the differences between the Fluid-Particle Mechanics (CLL331) and Fluid-Solid System Course (BBL432). (Refer to Annexure I for the document).

  *Action: Head of the Department (Prof. AN) and Student Convener*  

• **Item No. 5:** Issues with Department Training and Placement
  
  o The students showed their concern regarding the brochure not being uploaded. The faculty in-charge of the TNP acknowledged the concern. Faculty-in-charge pointed out that the students could do a better job with the brochure and calling the companies for our department.

  *Action: TNP Faculty In-charge (Prof. RE) & Nucleus Coordinator*

  o The Head informed the students that a budget of ₹ 30,000 (for Travel) would be allotted for inviting people from biotech/pharma-
related companies to give a seminar at the department. It provides an incentive for them to offer Jobs and Internships to students. Head asked the students to follow this up with Prof. D Sundar

*Action: TNP Faculty In-charge (Prof RE) & Nucleus Coordinator*

- **Item No. 6: F Slot for Data Structures Course**
  - Students highlighted that slot for COL106 if vacated would help many students. The Faculty member showed their concern on the slotting. Prof. D Sundar asked the students to give appropriate slotting such that it will not disrupt the current system.

  *Action: Student Convener*

- **Item No. 7: STIC Dinner**
  - Committee asked the Student Convener to follow up with Head’s office, decide the date and inform all the students and faculty member about the Dinner.

  *Action: Student Convener*

The meeting ended with a vote of thanks to all the members.

**Arnav Karan**
Student Convener
2015 Entry Batch

**Distribution:**
1. All the members of the meeting via email
2. Head’s office
Annexure I

The following has been prepared with respect to what has been taught in the courses in Academic Year 2017-18.

The content of CLL331:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Introduction to Suspension (Colloidal Suspension and Particulate Suspensions)</td>
</tr>
<tr>
<td>2.</td>
<td>Stokes Flow (recap)</td>
</tr>
<tr>
<td></td>
<td>- Reversibility</td>
</tr>
<tr>
<td></td>
<td>- Instantaneity</td>
</tr>
<tr>
<td></td>
<td>- Linearity</td>
</tr>
<tr>
<td>3.</td>
<td>The three sphere problems</td>
</tr>
<tr>
<td></td>
<td>- Sphere in rotational flow</td>
</tr>
<tr>
<td></td>
<td>- Sphere in uniform flow</td>
</tr>
<tr>
<td></td>
<td>- Sphere in extensional flow</td>
</tr>
<tr>
<td>4.</td>
<td>Non-spherical particles in uniform flow</td>
</tr>
<tr>
<td>5.</td>
<td>Behaviour at high Reynolds number (drag coefficient)</td>
</tr>
<tr>
<td>6.</td>
<td>Separation of particles based on Size/Density in dilute suspensions</td>
</tr>
<tr>
<td>7.</td>
<td>Batch and continuous settling</td>
</tr>
<tr>
<td>8.</td>
<td>Thickener</td>
</tr>
<tr>
<td></td>
<td>- Critically loaded Thickener</td>
</tr>
<tr>
<td></td>
<td>- Underloaded Thickener</td>
</tr>
<tr>
<td></td>
<td>- Overloaded Thickener</td>
</tr>
<tr>
<td>9.</td>
<td>Droplets/Bubbles in fluid</td>
</tr>
<tr>
<td>10.</td>
<td>Particles in microfluidic channels</td>
</tr>
<tr>
<td>11.</td>
<td>Packed Beds</td>
</tr>
<tr>
<td>12.</td>
<td>Fluidisation</td>
</tr>
<tr>
<td>13.</td>
<td>Filtration</td>
</tr>
</tbody>
</table>

The content of BBL432:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Basic Thermodynamics (Gibbs Phase Rule)</td>
</tr>
<tr>
<td>2.</td>
<td>Flow Through Porous Media (Filtration)</td>
</tr>
<tr>
<td>3.</td>
<td>Precipitation (Solubility)</td>
</tr>
<tr>
<td>4.</td>
<td>Salting in and Salting Out</td>
</tr>
<tr>
<td>5.</td>
<td>Polyelectrolyte and Protein Interaction (based on pH)</td>
</tr>
<tr>
<td>6.</td>
<td>Introduction to packed bed</td>
</tr>
</tbody>
</table>
Minutes of Class Committee Meeting
held on 26th October 2018.

Meeting Headed by: Prof. Shilpi Sharma
Prof. Prashant Mishra

1. Regarding change in slot of Bioinformatics from F to C.
The proposal of changing the slot of Bioinformatics from F to C was put up since many students
wanted to take Data Structures course in F slot. Moreover, in CAIC meeting held on 14th
September it was discussed that curriculum was designed such that every department keeps
F slot free in either 4th or 6th semester so that every student gets a chance to opt for this
course.

2. Discussion regarding current semester courses
The review regarding the current semester courses was already taken by class committee
coordinator and no issues were being faced by students.

Jivesh Madan
(Class Committee Coordinator)

Anshul Mandawat
(Group-3 Representative)

Prateek Agnihotri
(Group-4 Representative)
Subject: Re: Class committee meeting at 5 PM in DBEB seminar room
From: Ashish Misra <ashishmisra@dbeb.iitd.ac.in>
Date: 10/26/2018 7:38 PM
To: Atul Narang <anarang@dbeb.iitd.ac.in>, "T.R.Sreekrishnan" <sree@dbeb.iitd.ac.in>

Dear Prof. Sree and Atul,

The class committee meeting for 2017 entry students was held at 5 PM in DBEB seminar room today in my presence. There were around 10 students who raised the following issues.

1. BBN101 course. Students mentioned that on multiple occasions, (most recently on 25-10), no classes were held and students were not informed about this either. Students waited for a half hour and left after that. Also, students asked about attendance policy of the course for passing it.

2. Possibility of moving core courses to allow students to take a data structures course: Students were informed that this would not be possible.

Regards,

Ashish

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On 10/25/2018 8:02 PM, Ashish Misra wrote:

Dear Students,

I have been informed that many of you have microbiology lab till 5 PM. We will reschedule the meeting for 5 PM.

Regards,

Ashish

On 10/25/2018 6:56 PM, Ashish Misra wrote:

Dear Students,

We will be having a class committee meeting for your batch at 4 PM tomorrow in the DBEB seminar room.

Regards,

Ashish

--

Ashish Misra
Assistant Professor
Department of Biochemical Engineering and Biotechnology
IIT Delhi
Hauz Khas
New Delhi, 110016
Email: ashishmisra@iitd.ac.in
A meeting of 2018 entry students of Departmental, 4 year B. Tech and Dual Degree course was held on 23rd October, 2018 at 5 pm in the seminar Room of the Department to elect Class Committee Coordinator and Group Representatives. 25 students came for this meeting and the following students were elected:

(i) **Group Representatives:**

- Group A: Sanaz Agarwal
- Group B: Shrajay Dixit

(ii) **Class Committee Coordinator**

Yashasvee Chandra

The constitution may kindly be noted.

(Prof. Saroj Mishra)
Chairperson, Class Committee
Entry year 2018

(Dr. Preeti Srivastava)
Convenor, Class Committee
Entry year 2018

Through: Head, DBEB

AR (UGS)
Subject: Fwd: Office space and Lab
From: Zia Shaikh <zia@iitd.ac.in>
Date: 10/26/2018 7:28 PM
To: Ashish Misra <ashishmisra@dbeb.iitd.ac.in>

FYI...

Begin forwarded message:

From: Rohan Jain <rohanjain.iitd@gmail.com>
Subject: Re: Office space and Lab
Date: 26 October 2018 at 6:19:38 PM IST
To: Head <hoddbeb@admin.iitd.ac.in>, Atul Narang <anarang@dbeb.iitd.ac.in>, Atul Narang <narang.at@gmail.com>
Cc: zia <zia@iitd.ac.in>, sree@dbeb.iitd.ac.in

Dear Atul,

Regarding the laboratory space, is the space in the pilot plant free or available? If yes, I would like to use that space to develop my laboratory. Please let me know.

Best regards,
Rohan

On Tue, Oct 23, 2018 at 1:19 PM Rohan Jain <rohanjain.iitd@gmail.com> wrote:

Dear Atul,

Hope you are doing well.

I remember you asking me to select the office space and laboratory space.

For the office space, I would like to have PKRC’s former room. For the laboratory space, what options do I have? One other question is what courses will I teach? Or in which engineering courses, department need the most support? As discussed earlier, how about downstream processing? But please note that I would need access to laboratories for whatever course I teach.

Please let me know your thoughts.

I look forward to hearing from you.

Best regards,
Rohan