

Department of Biochemical Engineering and Biotechnology
Minutes of the Departmental Faculty Board Meeting
(DFB-06/2024-2025)

09/01/2025

The sixth meeting of the *Departmental Faculty Board* for the academic session 2024-2025 was held on **Wednesday, January 8th, 2025** at **03:00 PM** in the Committee Room of the Department.

The following members were present during the meetings:

Prof. Ritu Kulshreshtha, Chairperson
Prof. Sunil Nath
Prof. Preeti Srivastava
Prof. Ravikrishnan Elangovan
Prof. Ashish Misra
Prof. Ishaan Gupta
Prof. Priti Sinha
Prof. Anjan Roy
Prof. Jatin Panwar
Prof. Amit Das, Convener

Item 1: Confirmation of minutes of the 5th DFB meeting held on December 11th and 13th, 2024

*The minutes of previous meeting (DFB-05 of 2024-25) held on **December 11th and 13th, 2024** were confirmed as circulated.*

Item 2: Phasing out of CLL courses

HOD, DBEB informed the DFB that the HOD, ChE has sent a letter describing the plan for phasing out of the CLL courses from DBEB UG curriculum. The letter describes a schedule for the phasing out starting next semester. DFB pointed out that this plan is okay for new curriculum students where our plan is that the CLL courses will be revamped and/or merged with new BBL courses and DBEB faculty will teach them. We have already taken over CLL252 from last semester. We are also currently in process of hiring new faculty to take up this teaching load. However, this planned phasing out right now will create big problems for the BB1 students who are currently in 1st, 2nd and 3rd year of their tenure as they will still remain in the old curriculum. Therefore, DFB recommended that HOD, ChE be requested to postpone the phasing out plan for all old curriculum students of DBEB which is till Semester 2 of 2027-2028.

Item 3: Revision of the UpGrad proposal

The DFB discussed possible revisions of the UpGrad proposal to reduce the requested budget to Rs. 1 cr. Prof Ashish, Prof Priti, and Prof Jatin will revise the requirements for labs of biochemical engg courses and the remaining budget may be dedicated for improving labs of Biotech/computational courses.

Item 4: INTENT proposal

Prof Ravi apprised the DFB of the plans to revise the INTENT proposal as suggested by Dean planning to include more companies. He presented a list of 23 companies and details of the proposed 5 lakh budget for BIOSPERE 2025. He also proposed that four panels are planned for the expanded 2-day BIOSPERE 2025 on

- * Biomanufacturing*
- * Precision Medicine*

** Environmental Biotechnology and Sustainability*

** Pedagogy for Biotechnology Education*

The revised proposal (attached as annexure 1) will be shared with Dean planning.

Item 5: Curriculum revision

DFB discussed the list of courses proposed for the new curriculum. Prof Preeti informed the DFB that many of the mergers have been met with disagreement by a few senior faculty members. Especially, the course on transport phenomena is strongly suggested to maintain in the new curriculum instead of disseminating among 3 different courses. DFB further suggested that Bioseparation engg should be renamed as Mass transfer and Bioseparation engg. Environmental Biotechnology has been recommended to be an elective. Finally, DFB recommended that the biochemical engineering faculty members discuss among themselves and suggest a list of essential biochemical engineering courses latest within one week. Prof Priti Sinha is requested to coordinate this meeting. The final list will be circulated and shared with distinguished Alumni for comments/suggestions.

Item 6: Sorbonne University-IITD Indo-French Research Centre

HOD informed the DFB about the concept note for Sorbonne U-IITD Indo-French Research Centre and several questions asked by the Dean, International Programme. DFB noted that no faculty was consulted at the ideation stage and also felt that the concept note needs to extensively revised. The general feeling was that a common health research centre should be established in Sonipat wherein apart from Sorbonne University other national/international collaborations in the area of precision medicine may be integrated.

Following is the response from DFB:

Question 1. Are the verticals in the Concept Note relevant to the Academic Unit's research programme? (Verticals 1, 2 and 3 in the proposal for the three Bio-academic Units and the vertical 4 for HSS)

Response: Yes, the proposed verticals 2 and 3 do align with some faculty members of DBEB. The verticals 2 and 3 also align with DBEB vision document.

Question 2: At this point does the Academic Unit (independently or through the institute) have any strategic partnership which require teaching/research/joint grants, strategic consolidated partnership which is funded by the other side/partner?

Response: Yes, several Indo-French collaborations are active or has happened in past through MFIRP grants or, exchange programs – involved faculty: Prof Ishaan, Prof Prashant and Prof Ritu.

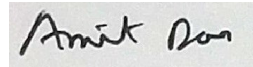
Question 3: How much space is your academic unit occupying currently in Sonipat? How many faculty of your Academic Unit are working in Sonipat full-time? How many labs does your academic unit have at Sonipat? How many students are working at Sonipat? Which academic programme is running in Sonipat?

Response: No space is currently occupied in Sonipat except utilization of some facilities therein.

Question 4: How much space does your academic unit actively require in Sonipat in the next 6 months, 1yr, 5 years?

Response: Yes, we may require space in next 5 years in view of planned expansion of the department as described in the vision document.

The meeting ended with a vote of thanks to the chairperson.

A handwritten signature in black ink on a light gray rectangular background. The signature reads "Amit Das" in a cursive, slightly slanted script.

**Amit Das,
DFB Convener**



Indian Institute of Technology Delhi

Application for the



IIT Delhi's Initiative to InTENSify Industry Research & Technology Collaborations

1. **Name of the academic unit:** Department of Biochemical Engineering and Biotechnology
2. **Coordinator for the INTENT Program (HoD or faculty nominated by faculty board):** HOD
3. **Technical topics and industry sectors to be covered:**

Biotechnology today has a far-reaching impact in diverse areas such as: health sciences and technology, diagnostics, food and agriculture, environment, consumer products, etc. The department has identified the following research areas for industry interaction, as these are focus areas identified in a recent vision exercise.

1. Biomanufacturing (Enzyme bioreactors, Biomolecular engineering, Bioprocess technology, Metabolic engineering)
2. Environmental Biotechnology (Technologies for bio sustainability, Microbiome research)
3. Computational and Systems biology (Quantitative biology, Synthetic biology)
4. Health Sciences and Technology (Nanobiotechnology, Disease diagnostics and Therapeutics)

4. **Objectives:**

- a. Organizing Biosphere with one day dedicated to industry interaction (10+ Industry personnel).
- b. Industry site visit (2 sites)
- c. Organizing talks from industry experts (5 experts)

5. **Tentative schedule of the roundtable meeting/workshop**

Tentative agenda for 2 day workshop (28 Feb-1 March, 2025)

S.No	Topic	time
1	Introduction to DBEB	1 hr
2	Industry-oriented teaching/CEP programs	1.5 hr
3	Panel on Biomanufacturing	1.5 hr
4	Panel on Precision Healthcare	1.5 hr
5	Panel on Environmental Biotechnology	1.5 hr

6. **List of faculty participants**

Name	Area of specialization
Everyone	

7. List of industries to be invited:

List of Companies expected to participate:

S.No	Organization
1	Reliance life science
2	Biocon
3	Dr Reddy
4	Advanced Enzyme Technologies
5	Panacea Biotech
6	Novartis
7	Strand Lifescience
8	TCS Lifescience
9	Karkinos
10	MedGenome
11	OmniBRx
12	Wrig Nanosystem
14	IOCL
15	Hindustan Unilever
16	GAIL
17	BPCL
18	ITC Ltd
19	ASSOCHAM
20	Henkel Gmbh
21	Bristol Myers Squibb
22	Bencos Research Solutions
23	Premas Biotech

8. Budget

Sr. No	Expenditure details	Budget requirements
1.	Travel, accommodation and hospitality	2 L
2.	Workshop (100 participants, 4 days)	2 L
3.	Stationery etc	1 L
	Total	5 L

See Annexure I for guidelines on the activities that can be funded

9. Expected outcomes

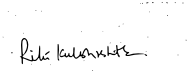
- Number of industry expert visits
- Number of industries engaged
- Number of Students engaged

- Joint projects

10. Declaration:

This proposal has been prepared in consultation with the faculty board. I will myself will coordinate OR the academic unit has appointed Prof. Ravikrishnan Elangovan to coordinate, the organization of this INTENT roundtable meeting/workshop. Our department/center/school will complete the necessary payments and submit a report in prescribed formation, within 3 months of completion of the roundtable meeting/workshop .

Name and Signature of the Head of the Academic Unit



Ritu Kulshreshtha