

Department of Biochemical Engineering and Biotechnology
Faculty Board Meeting (08/2016-17)

April 16, 2017

The 8th Departmental Faculty Board Meeting of 2016-17 was held on 30th March 2017 at 12 pm in the Departmental Committee Room (I-230). The following members were present:

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

Item No. 1. Confirmation of minutes of 7th DFB meeting (2016-17)

The minutes of the 7th DFB meeting (2016-17) were confirmed as circulated with the following changes.

Item No. 1 – Title changed to “Confirmation of minutes of 6th DFB meeting (2016-17)”

Item No. 4 – The listing of members for the DBT In-house Advisory committee modified as below.

- 1. Academic expert Prof. Rakesh Bhatnagar (JNU)/Prof. Ashok Dubey (NSIT)*
- 2. Industrial expert Dr. Gautam Ghosh (Panacea)/Dr. Aditya Basu (Novozymes)*

Item No. 6 – Mr. Mr Rohit Khandelwal (2015BEZ8355) added as TA for BBL433

Item No. 2. Matters arising from the above meeting

Item No. 4. Constitution of DBT advisory committee and nomination of Deputy Coord (SS)

Dr. Shilpi Sharma updated the board that the following had agreed to be members of the departmental DBT In-house Advisory committee –

- | | |
|----------------------|------------------------------|
| 1. Academic expert | Prof. Rakesh Bhatnagar (JNU) |
| 2. Industrial expert | Dr. Gautam Ghosh (Panacea) |

She also informed the board that the departmental DBT advisory committee meeting had been scheduled for 8th May 2017 from 10 am to 1 pm in Senate room.

Item No. 5. Floating courses for 1st semester (DS)

The board updated the courses and the list of faculty for teaching them in the 1st semester of 2017-18 [**Annexure 1**] with the following points:

1. Dr. Preeti Srivastava will not teach in the 2nd semester of 2017-18 because she will teach 2 courses in the 1st semester.
2. Dr. D. Sundar will be Course Coordinator for BBL735. However, Dr. Preeti Srivastava will help in training the lab staff to conduct BBL735 labs.

Item No. 9. Volunteers for renovation of seminar room, storekeeper office, and departmental library

The HOD informed the board that renovations with costs exceeding around Rs. 30 lakhs would be done by the CPWD (as opposed to Institute). Consequently, all large scale renovations in the department are expected to be postponed by several months.

Item No. 3. Revisiting discussion of PE credits in new curriculum

The board recommended that the finalized list of courses and templates for PE credit revisions be submitted to Prof. Saroj Mishra latest by 10th April 2017.

Dr. Ravikrishnan also updated the board about two new courses he plans to float:

1. Optics in life sciences
2. Bioentrepreneurship

[Action: Profs. SM (Chair), AKS, PM, PS]

Item No. 4. Discussion of minutes of Class Committee Meetings.

The minutes of the class committee meetings held in March 2017 were presented to the board [**Annexure 2**].

Item No. 5. Departmental budget requirements for the Financial Year 2017-18.

Due to shortage of time, there was insufficient discussion of the budget allocation request. It was recommended that the budget allocation request on the shared spreadsheet will be submitted (**Attachment “2017-03-27_Budget requirement template.xlsx”**). However, it is tentative, and will be taken up again in a subsequent DFB.

Item No. 6. Discussion on use of the departmental UG lab.

The head informed the board that the following items were missing from the UG lab:

- 1) Thermo micropipettes 0.2 to 2 μ l & 100 to 1000 μ l
- 2) Biorad Gel caster
- 3) Gel casting tray

The head also mentioned that multiple PhD students were using the UG lab for research. The board recommended that until further notice, access to the UG lab be restricted to UG students during regular practical hours.

Items No. 7-11

The board recommended that these items be taken up in the next DFB meeting because of the long time required in deliberating on the first 6 items.

Ashish Misra
Convener, DFB

Distribution

All DBEB faculty by email

Cc: Office file

Annexure 1

Courses to be floated in 1st Semester 2017-2018

Departmental Core Courses

Semester	Course Number	Course Name	Credit	L-T-P	Slot	Faculty
3	BBL131	Principles of Biochemistry	4.5	3-0-3	E	PM
3	BBL132	General Microbiology	4.5	3-0-3	D	SS
3	BBL133	Mass and Energy Balances in Biology	3	3-0-0	H	ZAS
5	BBL231	Molecular Biology and Genetics	4.5	3-0-3	D	PS
5	BBL331	Bioprocess Engineering	3	3-0-0	B	AKS
5	BBP332	Bioprocess Engineering Lab	1.5	0-0-3	P	AKS
7	BBL731	Bioseparation Engineering	4.5	3-0-3	C	GPA
7	BBL732	Bioprocess Plant Design	4	3-0-2	B	TRS
7	BBL733	Recombinant DNA Technology	3.5	2-0-3	D	RK

Other - Departmental Core Course

Semester	Course Number	Course Name	Credit	L-T-P	Slot	Faculty
3	BBN101	Introduction to Biochemical Engineering	1	0-0-2	NM	AN
7	BBD451	Major Project Part 1 (BB1)	3	0-0-6	P	SS
	BBQ301	Seminar Course – I	1	0-0-2	P	
	BBQ302	Seminar Course – II	1	0-0-2	P	
	BBD351	Design – non graded unit	1	0-0-2	A	TRS

Program Core Courses

Semester	Course Number	Course Name	Credit	L-T-P	Slot	Faculty
7	BBL734	Metabolic Regulation and Engineering	3	3-0-0	H	AM
9	BBL735	Genomics and Proteomics	3	2-0-2	D	DS
9	BBL737	Instrumentation and Analytical Methods in Bioengineering	3	2-0-2	B	SM/MNG

Other Program Core Courses

Semester	Course Number	Course Name	Credit	L-T-P	Slot	Faculty
9	BED851	Major Project Part 1 (BB)	6	0-0-12	P	SS
9	BED852	Major Project Part 2 (BB)	14	0-0-28	P	SS
9	BED853	Major Project Part 1 (BB)	4	0-0-8	P	SS
9	BED854	Major Project Part 2 (BB)	16	0-0-32	P	SS

Program Elective Courses

(1 course worth 4 credits is required) (ideally....students should be given options to choose from)

(Courses already offered in 2nd Sem 2016-2017 –

BBL740 Plant Cell Tech, BBL742 Biol Waste Treat, BBL745 Comb Biotech, BBL746 Curr Topics, BBL747 Bionano Tech, BBL749 Cancer Cell Biol)

Semester	Course Number	Course Name	Credit	L- T- P	Slot	Faculty
9	BBL741	Protein Science and Engineering	3	3-0-0	H	MNG/SM
9	BBL743	High Resolution Methods in Biotech	3	2-0-2	F	RKE
9	BBL750	Genome Engineering	3	2-0-2	H	PS

MSR and PhD Courses

Semester	Course Number	Course Name	Credit	L-T-P	Slot	Faculty
1	BED800	Major Project	40	0-0-80	P	RK
1	BEL810	Enzyme and Microbial Technology	3	3-0-0	J	VSB
1	BEL820	Downstream Processing	3	3-0-0	D	SN
1	BEL830	Microbial Biochemistry	3	3-0-0	H	SS
1	BEP840	Lab Tech in Microbial Biochemistry	2	0-0-4	P	MNG
1	BEL850	Advanced Biochemical Engineering	5	3-0-4	B	AN

BBQ courses

Semester	Course Number	Course Name	Credit	L-T-P	Slot	Faculty
1	BBQ301	Seminar Course – I	1	0-0-1		PKRC
1	BBQ302	Seminar Course –II	1	0-0-1		AM

Annexure 2

Minutes of the class committee meetings

2012 entry students

Students informed that some courses like Cancer Cell Biology, Genome Engineering, High Resolution Methods in Biotechnology, Recombinant DNA Technology, Environmental Biotechnology, etc are listed under OT category whereas they should be under the PE or DE category.

Students wanted to know the tentative dates for the M. Tech Project presentations.

2013 entry students

Students requested more than 2 PEs in the next semester and equipment for Bioseparation Engg labs.

2014 entry students

1. The topics on different types of reactors and the various mass balances previously studied in core courses CLL110 (Chemical Reaction Engineering) and BBL331 (Bioprocess Engineering) are being repeated in BBL433 (Enzyme Science and Engineering).

2. The two days of lectures for courses BBL431 and BBL432 could be permanently decided by the Coordinator. It was suggested that the faculty should send an EMAIL well in advance on the days for the lectures....rather than just announcing in the previous class.

3. Though the lab for BBL433 is for two hours, it usually runs beyond 2 hours due to shortage of pipettes and other minor equipment.

4. The possibility of floating BBL431 in slot C (as opposed to the current slot J) could be considered. This will help the students take HUL courses that are usually floated in 'J' slot.

5. The following courses could be considered for floating in the 1st semester 2017-2018: BBD non-graded courses - Design Credit Projects & BBL750 - Genome Engineering.

2015 entry students

No meeting was held because students did not show up for the meetings.

2016 entry students

Students did not respond to the email sent by the convener and no meeting was held as a result.