

Department of Biochemical Engineering and Biotechnology
Minutes of DRC Meeting N0 04/ 2017-2018
(DRC-04/2017-2018)

Nov 18, 2017

The fourth meeting of *Departmental Research Committee* (DRC) for the academic session 2017-2018 was held on **Friday, Nov 17th, 2017** at **3 pm** in the Committee Room (I- 230) of the Department.

The following members were present:

Prof. T. R. Sreekrishnan (*Chairperson*)
Prof. A. K. Srivastava
Prof. Prashant Mishra
Prof. Atul Narang
Prof. D. Sundar
Prof Ritu Kulshreshtha
Prof. Preeti Srivastava
Prof. Ravikrishnan Elangovan
Prof. Z. A. Shaikh
Prof. Ashish Misra
Prof. Shilpi Sharma (*Convenor*)

1. To confirm the minutes of the 3rd meeting of the DRC for the session 2017-2018 (*DRC-03/2017-2018*) held on Sept 20, 2017

The minutes of 3rd meeting of DRC 2017-18 held on 20th Sept 2017 were confirmed with the following modifications:

Item No 5: MTP evaluation guidelines and evaluation sheet template were attached as Annexures (DRC meeting 3a and 3b).

Item No 6: Besides formation of evaluation committees DRC requested the faculty members to fill up the Google spread sheet created by the MTP coordinator (<https://docs.google.com/spreadsheets/d/1I5JoVyEjm-sd7CKAuCeqriLn4-fnlnS8dwK5PGj4Wv8/edit#gid=0>) suggesting names of external examiners for final evaluation of MTP (Part II) latest by 25th November 2017.

2. To report the matters arising from minutes of Meeting No. 03/2017-2018 and action taken.
None.

3. Approval of new Ph.D. proposal by Prof Saroj Mishra
New project entitled “Characterization of laccase genes/ gene products from *Cyathus bulleri* and their applications in textile wastewater treatment” by Prof Saroj Mishra was approved.

4. Allotment of projects to new Ph.D. and MSR students (July 2017 entry)
As per decision taken in special DFB meeting held on 7th Nov 2017 Ph.D. topics were allotted to four Ph.D. students (Annexure 1).

5. Ph.D. student selection in December 2017

As the projects available for allotment to new Ph.D. students had specific requirement of students with engineering background, it was decided that only the students with such a background be shortlisted, if they meet the shortlisting criteria laid down by the committee for last selection (May 2017). Ph.D. coordinator informed the committee that the number of applicants with Biochemical Engineering or Chemical Engineering at Graduate or Post graduate level was less than 10 amongst the ~95 applications received. It was decided that for such a small number direct interviews will be held on 4th Dec 2017 from 10 am onwards.

Action: Ph.D. coordinator may issue Interview letters to shortlisted applicants

6. Constitution of SRC for Ph.D. students (July 2017 entry).

The Committee discussed and constituted the SRC for Ph.D. and MSR students of July 2017 entry as per Annexure 2.

7. Application received from Mr Navaneethan for part-time Ph.D. program in the department. Mr Navaneethan's interview was scheduled for 4th Dec 2017 at 9 am.

Action: Ph.D. coordinator may issue Interview letter

8. Scheduling the written Ph.D. comprehensive examination in January 2018

The committee decided to re-visit the agenda item once the DFB devices a new model for the same.

Action: HOD to take up the issue in next DFB meeting

9. Proposal for monitoring semester progress of research scholars (as discussed in BAP)

The proposal for monitoring semester progress of research scholars, as proposed by BAP, was discussed in detail by the committee. The committee had the following feedback:

- While SRC meeting for Ph.D. students should preferably be held every semester, only *ONE* SRC meeting should be mandatory in one year,
- With respect to uploading slides and complete progress report on the portal the members expressed their serious concern with respect to Data Protection.
- The committee was against the idea of seeking written concurrence from the SRC member who is unable to attend the SRC meeting.

10. Allotment of topic to student for BTP-II.

Ms Aditi Agarwal's (Entry No 2014BB10023) request to pursue BTP-II on the topic "Biological activity of natural drugs / Ashwagandha – implications in cancer research" under the mentorship of Prof. D. Sundar was considered favourably. This was subject to her receiving grade B or better in BTP-I.

11. To report the matters for ratification by the DRC

(a) Project proposals submitted by departmental faculty

S. No	Project Title	Project Investigators	Funding Agency
1	Upgradation of heavy crude oil and diesel by biodesulfurization using a microorganism with improved activity	Priyanka Aswal under mentorship of Prof P. Srivastava	SYST, DST
2	Engineering <i>Bacillus subtilis</i> for	Prof Ashish Misra	New Faculty Scheme,

	improved production of isoprene		IIT Delhi
3	Nanocarrier mediated delivery of microRNA for cancer treatment	Prof R. Kulshreshtha	FIRP, IIT Delhi
4	Stress-busting plant probiotic for pigeon pea (<i>Cajanus cajan</i>) under salt stress	Prof Shilpi Sharma	ICAR

The above projects were circulated to members, since no specific comments were received from the members on the proposal, the project was forwarded to Dean IRD and item was ratified in DRC.

14. Any other item with the permission of Chair
None.

The meeting ended with thanks to all members.

Shilpi Sharma
Convenor, DRC

Distribution

All DRC members and other DBEB faculty (by email)

Annexure 1

Allotment of topics to Ph.D. students of entry year 2017, Semester I, 2017-18

S. No	Student	Title	Supervisor
1.	Sneha Kumari	Study of myosin XI driven transport using single molecule imaging	Prof. R. Elangovan
2.	Soumya Rajpal	Nanoparticle-biomolecule hybrid systems for biosensor applications	Prof. P. Mishra
3.	Aakanksha Ahlawat	Characterization of laccase genes/gene products from <i>Cyathus bulleri</i> and their applications in textile wastewater treatment.	Prof. S. Mishra
4.	Anika Goyal	Production of biopolymers from gaseous substrates (CH ₄ :CO ₂ :Air)	Prof. A. K. Srivastava

Annexure 2

Student's Research Committee for Ph.D. students

Student	Chairman, SRC	Expert from within the department	Expert from outside the department	Supervisor
Indranil Mondol	Prof. P. Mishra	Prof. P. Srivastava	Prof. A. Chugh (KSBS, IITD)	Prof. R. Kulshreshtha
Shivani Khatri	Prof. S. Mishra	Prof. P. Srivastava	Prof. Hariprasad (CRDT)	Prof. S. Sharma
Dhvani Sandip Vora	Prof. P. Srivastava	Prof. R. Elangovan	Prof. A. Patel (KSBS, IITD)	Prof. D. Sundar
Priyanka Dubey	Prof. A. K. Srivastava	Prof. Z. Ahammad	Prof. Arun Kumar (Civil Engg)	Prof. T. R. Sreekrishnan
Rupsa Chatterjee	Prof. A. Misra	Prof. T. R. Sreekrishnan	Prof. A K Nema (Civil Engg)	Prof Z. Ahammad
Aditya Anand	Prof. Z. Ahammad	Prof. A. Misra	Prof J. Gomes (KSBS)	Prof. A. Narang
Arti Tyagi	Prof. R. Kulshreshtha	Prof. A. Misra	Prof K. Khare (Physics)	Prof. R. Elangovan
Anika Goyal	Prof. T. R. Sreekrishnan	Prof. Z. Ahammad	Prof. K. K. Pant (Chem Engg)	Prof. A. K. Srivastava
Soumya Rajpal	Prof. P. Srivastava	Prof. R. Kulshreshtha	Prof. S. Das (CARE)	Prof. P. Mishra
Sneha Kumari	Prof. S. Mishra	Prof. S. Nath	Prof V. Perumal (KSBS)	Prof. R. Elangovan
Aakanksha Ahlawat	Prof. P. Mishra	Prof. R. Kulshreshtha	Prof. B. Kundu (KSBS)	Prof. S. Mishra

Student's Research Committee for MSR students

Student	Chairman, SRC	Expert from within the department	Supervisor
Anubha Shukla	Prof. D. Sundar	Prof. P. Srivastava	Prof. R. Kulshreshtha
Mansi Arora	Prof. S. Mishra	Prof. S. Sharma	Prof. P. Srivastava
Shubham Dubey	Prof. D. Sundar	Prof. R. Kulshreshtha	Prof. S. Sharma
Jagat N. Prajapati	Prof Sunil Nath	Prof. P. Srivastava	Prof. R. Elangovan
Amanpreet K. Nagpal	Prof. R. Kulshreshtha	Prof. P. Srivastava	Prof. P. Mishra
Shruthi Lakshmi P.	Prof P. Mishra	Prof. P. Srivastava	Prof. S. Mishra

MTP course evaluation guidelines

MTP evaluations will be done **2 times** a semester based on the submission of a report and presentation made to the examiners. The 2nd evaluation for BBD852/854 will be in the presence of an external examiner. A soft copy of the report needs to be uploaded on [turnitin.com](https://www.turnitin.com) at least **3 days** before the evaluation.

Criteria for evaluation

Evaluation	BBD851/BBD853	BBD852/BBD854
1	<ul style="list-style-type: none">• Understanding of project• Literature survey• Initial work done (BBD851)	<ul style="list-style-type: none">• Work done and results• Presentation of results and discussion• Planning of future work
2	<ul style="list-style-type: none">• Work done (methodology and initial results)• Future course of work• Planning of future work	<ul style="list-style-type: none">• Overall understanding of project• Explanation of results• How the work done adds to the body of knowledge in the field

Please refer to the following documents for *guidelines on report writing and presentations*.

https://ocw.mit.edu/courses/biological-engineering/20-109-laboratory-fundamentals-in-biological-engineering-fall-2007/assignments/sci_writing_guid.pdf

<http://privateweb.iitd.ac.in/~sundar/drc/MTech-Presentation-Guidelines.pdf>

**Department of Biochemical Engineering and Biotechnology
IIT Delhi**

MTP Performance Evaluation (Semester Academic Year)

Name of examiner:

Signature:

#	Name of Student	Grade
1		
2		
3		
4		
5		
6		
7		
8		

Guidelines for awarding grades

Performance	Grade
Outstanding	A
Excellent	A-
Very Good	B
Good	B-
Average	C

Please award appropriate grade only based on the student's understanding of the subject area, work done, written report and presentation. The marks next to the grade are for use in assigning midterm marks and final grade by averaging.