

Department of Biochemical Engineering and Biotechnology
(DRC-5/2024-25)

24 Jan 2025

DRC Meeting No.5/2024-25 was held on 13 Jan 2025 in the DBEB Committee Room at 10 am.
The following members were present:

Prof. Shilpi Sharma (Chairperson)
Prof. Ritu Kulshreshtha
Prof. Preeti Srivastava
Prof. K.J. Mukherjee
Prof. Anjan Roy
Prof. Amit Das
Prof. Lucinda Doyle (Convenor)

Agenda Items

1. Confirmation of the minutes of the 4th meeting of the DRC for the session 2024-25 held on 19 Nov 2024 and e-DRC minutes dated 2 Jan 2025.
[The minutes were confirmed as circulated.](#)
2. Matters arising from the minutes of Meeting No. 4/2024-25 and e-DRC minutes dated 2 Jan 2025.
[None.](#)
3. Request of Saiganesh Nair (2024BEM2569) for conversion from M.Tech to MS.R. under the supervision of Prof. Preeti Srivastava.
[Based on fulfilment of the following criteria, the Committee approved the request.](#)
[Timing: > 1st Sem. & ≤ 3rd Sem](#)
[Eligibility: ≥ 12 credits of coursework.](#)
4. Request of Pragya Devi (2024BEM2568) for conversion from M.Tech to Ph.D. under the supervision of Prof. Atul Narang.
[Based on fulfilment of the following criteria, the Committee approved the request.](#)
[Timing: > 1st Sem.](#)
[Eligibility: ≥ 8.0 SGPA/CGPA & ≥ 12 credits of coursework.](#)
5. SRC approval of Palistha Tuladhar (2020BEZ8568) for conversion from Ph.D. to MS.R.
[In DRC Meeting No. 3/2024-25, the Committee recommended an SRC meeting be held. The Committee noted the meeting has now taken place and the SRC has approved the conversion. Hence the request of the student for the conversion is recommended.](#)

6. Supervisor allotment for M.Tech projects.
Based on consensus between students and respective supervisors, the following allotment was made:

S. No.	Student	Faculty Name
1	Aswini S. 2024BEM2575	Prof. Ishaan Gupta
2	Dev Garg 2024BEM2567	Prof. Lucinda E. Doyle
3	Harshita Jaiswal 2024BEM2570	Prof. Ritu Kulshreshtha
4	Aritra Ray 2024BEM2577	Prof. Priti Sinha
5	Charvi Dahiya 2024BEM2578	Prof. Prashant Mishra
6	Himanshu Kumar 2024BEM2576	Prof. Shilpi Sharma
7	Shail Priya 2024BEM2579	Prof. Atul Narang
8	Monika Awasthi 2024BEM2572	Prof Preeti Srivastava and Prof. D. Sundar
9	Trambak Guha 2024BEM2573	Prof. Jatin Panwar

7. Constitution/modification of SRCs.
The following SRC compositions were approved:

Name/Entry No	Supervisor	Chairperson	Internal expert	External expert
Ankita 2024BEZ8106	Prof. Atul Narang	Prof. Preeti Srivastava	Prof. K.J. Mukherjee	Prof. Shaunak Sen (EE)
Kreeti Pandey 2023BEZ8539	Prof. Ritu Kulshreshtha	Prof. R. Elangovan	Prof. Preeti Srivastava	Prof. Vivekanandan Perumal (KSBS)
Dhruvi Vats 2024BEZ8109	Prof. Lucinda Doyle and Prof. Rahul Mishra (CARE)	Prof. Preeti Srivastava	Prof. Priti Sinha	Prof. Pravin Ingole (Chemistry)
Shreya Sarkar 2024BEZ8110	Prof. Prashant Mishra and Prof. Amit Das	Prof. Preeti Srivastava	Prof. Jatin Panwar	Prof. Saurabh Raj (KSBS)

8. Synopsis of the Ph.D. thesis titled "Engineering of synthetic Bio-receptors for Rapid Detection of *Staphylococcus aureus*" submitted by Kritika Narula (2018BEZ8239).
Based on the recommendation of SRC, the Committee approved the synopsis. The

Committee also approved the panel of Examiners and authorised the Chairperson to forward the same to Dean (Academics).

Action: Supervisor to submit two hard copies of synopsis and one copy of the synopsis submission form to the Departmental Office for signature of DRC Chairperson. Supervisors are also to forward a soft copy of the same (signed copy of synopsis submission form), DRC minutes and synopsis to PG section (pg_eval@admin.iitd.ac.in) with a copy to DRC Chairperson.

9. Matters for ratification

- a. Plan of work of Tanya Bansal (2023BEZ2002) for thesis entitled “Characterization of plasmid replicons from *Rhodococcus* sp. IITD102”.
The plan of work was approved based on recommendation by the student’s SRC.
Action: Supervisor to ensure two hard copies of the Plan of Word document are submitted to the Department office for onward forwarding.
- b. Plan of work of Kapil Saini (2022BEZ8517) for thesis entitled “Biomimetic supramolecular receptor with tailor-made cavities for antimicrobial stewardship”.
The plan of work was approved based on recommendation by the student’s SRC.
Action: Supervisor to ensure two hard copies of the Plan of Word document are submitted to the Department office for onward forwarding.
- c. INAE poster submissions of the following students:
Asheemita Bagchi (2020BEZ8513)
Kritika Narula (2018BEZ8239)
Nidhi Nitin Patil (2019BEZ8669)
The above submissions were forwarded by the DRC Chairperson.
- d. Request of Abhilash Dasari (2020BEZ8510) for Ex-India leave from 1 Feb 2025 – 31 July 2025 to avail of the French-Indian Campus Mobility Program (Paris, France).
The Committee approved the request.
- e. Request of Aratrika Ghosh (2020BEZ8512) to avail Ex-India leave from 1 Oct 2024 – 30 Sep 2025 as part of Research-Sandwich Program, DAAD (Helmholtz-Zentrum Dresden-Rossendorf, Dresde, Germany).
The Committee approved the request.
- f. Request of Avantika Rai (2023BEZ8540) to utilise Ph.D. contingency fund to attend “Optical Microscopy & Spectroscopy for Bio-Molecules” workshop, 11 – 13 Dec 2024.
The Committee approved the request.

- g. Request of Chudamani Chandrakanta (2022BEZ8353) to avail Ph.D. contingency fund to present at the 93rd General meet of the Society of Biological Chemists of India SBC (I) Conference, Baroda, 27 – 29 December 2024.
[The Committee approved the request.](#)
- h. Request of Debashree Kar (2018BEZ8437) to avail RSTA to attend the 4th International Conference on Nanomaterials in Biology (ICNB-2025), University of Rajasthan, 3 – 6 Feb 2025.
[The Committee approved the request.](#)
- i. Request of Nidhi Nitin Patil (2019BEZ8669) for Ex-India leave from 20 – 26 Jan 2025 to attend Genetic Engineering for a Sustainable Future in Keystone, CO, USA.
[The Committee approved the request.](#)
- j. Request of Sagar Singh Gwal (2023BEM2005) to avail Ex-India leave from 12 – 18 Jan 2025 to attend workshop in UCL London, UK, organised in association with course SPV799 under the SPARC-funded project titled "Building Transformative Research Capabilities of Master's Students in Sustainability".
[The Committee approved the request.](#)
- k. Request of Shriya Grover (2022BEZ8359) to utilise Ph.D. contingency fund to attend DAE-BRNS Conference on Electrochemistry for Industry, Health and Environment, EIHE 2025, 21 – 25 Jan 2025, BARC, Mumbai.
[The Committee approved the request.](#)
- l. Request of Soumyadeep Paul (2023BEY7558) to avail Ex-India leave from 12 – 18 Jan 2025 to attend workshop in UCL London, UK, organised in association with course SPV799 under the SPARC-funded project titled "Building Transformative Research Capabilities of Master's Students in Sustainability".
[The Committee approved the request.](#)
- m. Request of Surbhi (2021BEZ8446) to avail Ex-India leave from 1 April 2025 – 30 June 2025 as part of the Sorbonne-IITD Exchange Program (Paris, France).
[The Committee approved the request.](#)
- n. Placement registrations of Ph.D students with OCS:
[The below applications for registration were received and forwarded by the DRC Chairperson.](#)
[Rashi Tyagi \(2020BEZ8525\)](#)
[Salila Pradhan \(2020BEZ8522\)](#)
- o. Project proposals submitted by faculty members.

S. No.	Project Name	Investigator	Funding Agency
1.	Enhancing cellulase enzyme production by Bioprocess and Genetic Engineering strategies	Prof. K.J.Mukherjee (PI) Dr. S. Ramalingam, Anna University, Chennai (co-PI)	HPCL
2.	Enhanced production of a novel saponin using an engineered Bacillus spp. IITD106	Ngangom Pravina Devi (PI) Prof. Preeti Srivastava (co-PI), Dr. Subhashish Das (co-PI)	DBT
3.	Development of cocktail of microbial enzymes for biodegradation of mixed plastic types	Dr. Pragya Kesarwani (mentor: Prof. Preeti Srivastava)	DBT-RA
4.	Microfluidic assessment of hypoxia mediated response of human red blood cells under dynamic flow conditions	Dr. Neelam Verma (PI) Prof. Kumari Priti Sinha (co-PI)	DBT BioCare
5.	Development of an algorithm for predicting cardiovascular co-morbidity in psoriasis: A global proteomic profiling approach	Dr. Medha Rajappa, JIPMER (PI) Dr. Savita Yadav, AIIMS (co-PI) Prof. Kumari Priti Sinha (co-PI)	DBT
6.	Rational designing and engineering of fluorescent, Specifically Targeted Antimicrobial Peptides (STAMPs) and evaluation of their antifungal, anti-virulence and antibiofilm potential against drug resistant fungal pathogens	Dr. Tulika Prasad (PI JNU) Prof. Prashant Mishra (PI IITD)	ICMR

The above projects were circulated to members. As no comments were received, the projects were forwarded to the concerned authorities, and the item was ratified.

10. Date of the next Ph.D. Comprehensive Exam.

It was decided to hold the written exam on 24 Feb (forenoon) and the oral exam on 25 Feb (forenoon). A DRC meeting will be held in the afternoon of 25 Feb 2025 to declare the results. Ph.D. coordinator was requested to collect suitable research articles from the respective supervisors.

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



Lucinda E. Doyle
DRC Convenor