

Department of Biochemical Engineering and Biotechnology
Departmental Research Committee Meeting Notice
(DRC-08/2021-2022)

April 04, 2022

The Eighth meeting of the *Departmental Research Committee* for the academic session 2021-2022 was held on Monday, April 04, 2022 at 3:00 pm via Microsoft Teams (DRC channel).

The following members were present:

Prof. Ritu Kulshreshtha (Chairperson)

Prof. D. Sundar

Prof. Atul Narang

Prof. K. J. Mukherjee

Prof. Preeti Srivastava

Prof. Ishaan Gupta

Following is the agenda of the meeting:

1. Confirmation of the minutes of 7th meeting of the DRC for the session 2021-2022 held on 24 February, 2021.

The minutes were confirmed as circulated

2. To report the matters arising from the minutes of Meeting No. 07/2021-2022.

None

3. Result of Paper I of written comprehensive exam conducted on 2 March, 2022.

Ms. Anuj Kumari (2020BEZ8633) and Ms. Deeksha Jain (2020BEZ8634) were declared to have passed the Paper I of Ph.D. comprehensive examination held on 2 March, 2022.

4. Request received from Prof. Ashish Misra to add Dr. Shyam Kumar Masakapalli (from IIT Mandi) as a co-supervisor for his PhD student Ms. Palistha Tuladhar (2020BEZ8568).

The committee asked Prof. Ashish Misra to provide justification for addition of Dr. Dr. Shyam Kumar Masakapalli (from IIT Mandi) as co-supervisor for his PhD student, Ms. Palistha Tuladhar (2020BEZ8568).

5. Request received from Mr. Shubham Dubey (2017BEZ7534) for Research Excellence Travel Award (RETA).

The Committee nominated Mr. Shubham Dubey (2017BEZ7534) for Research Excellence Travel Award (RETA) for Sem I, 2021-2022 on the basis of his academic excellence. His Ex-India leave request was also approved and forwarded to the Academic section.

(Action: DRC Chairperson to forward the nomination to Dean Academics)

6. Approval of new PhD and MSR proposals submitted by the DBEB faculty.

The PhD/MSR proposals submitted by DBEB faculty were approved by the DRC (Annexure I).

8. Discuss modalities to conduct upcoming PhD/MSR admissions

The Chairperson shared the note received from the Academic section for extending the special provisions, made by the Senate regarding PhD/PG Admissions for the Academic Years 2020-21 and 2021-22, to the PhD/PG Admissions for the Academic year 2022-23.

The committee decided the dates for PhD/MSR selections as 19 May, 2022 for MSR selection and 23 May-24 May, 2022 for PhD selections.

9. Matters for ratification:

(a) Project proposals submitted by faculty members

S. No	Project Name	Investigator	Funding Agency
1	Development of colorimetric immunoassay for detection of cholangiocarcinoma using peroxidase-mimetic activity of Pd@SiO ₂ core/shell nanoparticles	PI- Prof. Prashant Mishra Co-PI Dr. Ravi Mani Tripathi (Amity Institute of Nanotechnology)	SERB TARE
2	To investigate the combinatorial effect of gated, targeted and drug loaded mesoporous silica-E-selectin complex with anti-PD-1 therapy on breast cancer	PI- Prof. Prashant Mishra/ Dr. Pramod Kumar Gautam (AIIMS) Co-PI- Dr. Archana Singh (AIIMS)/Dr. Harlokesh Narayan Yadav (AIIMS)	MFIRP/IRD
3	Wastewater treatment and resource recovery using electrochemical anaerobic membrane bioreactor	Prof. Shaikh Ziauddin Ahammad Co-PI TRS	DST

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

- b) The request by Ms. Rashi for NOC for Raman-Charpak Fellowship programme 2022 was approved by the DRC chairperson and our HoD and was forwarded to JR(Academics) via reference no. IITD/BBCE/20327.

- c) The request by Mr. Deepak Sharma (2016BEZ8559) for Extended Financial Support beyond 5 years was forwarded to Academic Section via reference no. IITD/2022/BBCE/18144.
- d) Request received by following students for ex-India leave permission to attend Scientific Conferences was forwarded by the DRC Chairperson.
 - i. Ms. Swati Varshney to attend a conference "FEMS Conference on Microbiology", to be held in Belgrade, Serbia from 30 June to 2 July 2022 was forwarded by the DRC Chair.
 - ii. Shubham Dubey 2017BEZ7534 to attend ASM Microbe Conference, 2022 at Washington DC, USA 7th June to 16 June, 2022
 - iii. Priyanka 2016BEZ8005 to attend ASM Microbe Conference, 2022 at Washington DC, USA 7th June to 16 June, 2022
- e) Request received from Ms. Priyanka (2016BEZ8005) for Research Scholar Travel Award (RSTA) to attend a conference "FEMS Conference on Microbiology", to be held in Belgrade, Serbia from 30 June to 2 July 2022 was approved by the DRC.

10. Any other item with the permission of the Chair

(Approximate duration of the meeting is ~1.5 hour)

Distribution

All Faculty (by email)

Ritu Kulshreshtha
DRC Chairperson

PhD Topics**Annexure I**

	Supervisor 1	Supervisor 2	Topic
1	Prof. Ravi Krishnan Elangovan		Single cell imaging for rapid susceptibility assay
2	Prof. Ishaan Gupta		Functional consequences of bacterial epigenomics
3	Prof. Ritu Kulshreshtha	Prof. Vaishali Suri (AIIMS New Delhi)	Identification of the novel biomarkers and therapeutic targets in CNS tumors
4	Prof. Lucinda Elizabeth Doyle		Towards enhancing electron transfer between electroactive microorganisms and electrodes
5	Prof. Lucinda Elizabeth Doyle	Prof. Rahul Mishra, Centre for Applied Research in Electronics, IITD	Investigating spin-selective interactions between electroactive microorganisms and their environment
6	Prof. Prashant Mishra	Prof. Samaresh Das (CARE)	Biomarker based detection of acute ischemic strokes (AIS)
7	Prof. Prashant Mishra		Gated, targeted and dual drug loaded mesoporous silica-E-selectin complex for the triple negative breast cancer therapy

MSR Topics

	Supervisor 1	Supervisor 2	Topic
1	Prof. Ishaan Gupta		Functional consequences of bacterial epigenomics
2	Prof. Preeti Srivastava		Isolation and characterization of plastic depolymerizing/biodegrading bacteria