

## Department of Biochemical Engineering and Biotechnology

### Minutes of DRC meeting

(DRC-4/2021-2022)

Dated: 16<sup>th</sup> Nov 2021

The fourth meeting of the Departmental Research Committee (DRC) for the academic session 2021-2022 was held on 16<sup>th</sup> Nov 2021 at 3 pm by video conferencing.

The following members were present:

Prof. Shilpi Sharma (Chairperson)

Prof. D. Sundar

Prof. T. R. Sreekrishnan

Prof. K. J. Mukherjee

Prof. Ritu Kulshreshtha

Prof. Preeti Srivastava

Prof. Ishaan Gupta

Prof Madhuresh Sumit (Convenor)

1. To confirm the minutes of the 3<sup>rd</sup> meeting of the DRC for the session 2021-2022 held on 14<sup>th</sup> Oct 2021, and special DRC meeting held on 27<sup>th</sup> Oct 2021.

*The minutes were confirmed as circulated.*

2. To report the matters arising from minutes of Meeting No. 03/2021-2022 and special DRC meeting (27<sup>th</sup> Oct 2021).

*Agenda item 1, Special DRC meeting dated 27<sup>th</sup> Oct 2021: DRC Chairperson apprised the committee that Dean Academics was consulted as decided in special DRC meeting held on 27<sup>th</sup> Oct 2021. Based on his suggestion, decision will be taken for Agenda item 3 in DRC meeting 4/2021-22.*

3. Assignment of new supervisors to students mentored by Dr. Rohan Jain

*New supervisors were assigned to students mentored by Dr. Rohan Jain, as per Annexure 1. Based on requests received from the students and the new faculty supervisors, it was decided that Dr. Rohan Jain will serve as the co-supervisor for these students.*

4. Re-constitution of SRCs of Ph.D. and MSR students

*SRC members were assigned in place of Prof. Rohan Jain for selected doctoral students as per Annexure 2.*

5. New Ph.D. projects by faculty members

*The following new projects proposed by Prof Preeti Srivastava were approved for Ph.D. students:*

- Understanding the mechanism of asymmetric cell division in *Rhodococcus erythropolis*

- Delineating the mechanism of activation of *dsz* operon for biodesulfurization of organosulfurs

*The list of projects available for Ph.D. students of entry Sem II, 2021-22 has been compiled as Annexure 3.*

6. Shortlisting criteria for Ph.D. selection for Entry Sem II, 2021-22

*The shortlisting criteria for Ph.D. selection for Entry Sem II, 2021-22 was finalised as per Annexure 4. It was decided to upload the list of shortlisted candidates and the projects available on departmental website by 19<sup>th</sup> Nov 2021.*

7. Minutes of SSC meetings for selection of postdoc for recruitment cycles July-Dec 2020 and Jan-June 2021

*The minutes of meetings of SSC for postdoc for (i) applications received in recruitment cycle July-Dec 2020, (ii) applications received in recruitment cycle Jan-June 2021, and (iii) request received from Dr Kartik Aiyer for an extension, were ratified by DRC.*

8. To report the matters for ratification by the DRC

(a) Project proposals submitted by faculty members

S. No.	Project Name	Investigators	Funding Agency
1	A smart photoresponsive wound dressing to provide early and quick detection of pathogens and on-demand	Farheen Akhtar, Mentor: PM	DHR-ICMR Young Scientist
2	Mitigation of biotic stresses in arable land by soil transplantation from disease suppressive soils.	Annapurna Bhattacharjee, Mentor: SS	DST-SYST

*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) Request received from Arti Tyagi (2017BEZ8290) for RSTA and ex-India leave to attend international conference, "Optics and Biophotonics in Low Resource Settings VIII" to be held in San Francisco, USA in Jan 2022

*The request for RSTA and ex-India leave to participate in international conference, "Optics and Biophotonics in Low Resource Settings VIII" to be held in San Francisco, USA in Jan 2022 was recommended.*

9. Any other item with the permission of Chair

*None*

Shilpi Sharma

**Circulation to DFB (by email)**

**Annexure 1****Assignment of new supervisors to Ph.D., MSR and MTP students**

<b>Name of student and Entry No</b>	<b>Title</b>	<b>New Supervisor</b>
<b>Ph.D.</b>		
Aratrika Ghosh 2020BEZ8512	Development of siderophores immobilized magnetic material for the recovery of germanium from industrial wastewater and solid waste	TRS
Kolli Venkata Supraja 2020BEZ8516	Development of algae based slow release fertilizer	ZA
Rewati Dixit 2019BEZ8187	Recovery of selenium from wastewater for its application as slow-release fertilizer	TRS
<b>MSR</b>		
Nandita Fuloria 2020BEY7517	Identification and production of siderophores that can selectively and sensitively bind to rare earth elements	ZA
<b>M.Tech</b>		
Kshitij Sahu 2017BB50060	LCA for torrefaction of microalgal biomass for generation of biofuel using GREET	TRS

**Annexure 2****Re-constitution of SRCs due to resignation of a faculty member**

Name and entry no of student	Supervisor (/s)	Chairperson	Internal Expert	External Expert
Aratrika Ghosh 2020BEZ8512	TRS & RJ	LED	ZAS	B. Alappat (Civil)
Koli Venkata Supraja 2020BEZ8516	ZAS & RJ	PS	TRS	Arun Kumar (Civil)
Rewati Dixit 2019BEZ8187	TRS & RJ	SS	ZAS	Wazed Ali (Textile)
Nikita Deshwal 2020BEY8519	ZAS	TRS	AM	Arun Kumar (Civil)