

**Department of Biochemical Engineering and Biotechnology**  
**MINUTES OF DRC MEETING**  
(DRC-09/2019-2020)

Dated: 2<sup>nd</sup> July 2020

The ninth meeting of *Departmental Research Committee* (DRC) for the academic session 2019-2020 was held on 2<sup>nd</sup> July 2020 at 11.00 am by video conferencing

The following members were present:

Prof. Shilpi Sharma (*Chairperson*)

Prof. T. R. Sreekrishnan

Prof. D. Sundar

Prof. Ritu Kulshrestha

Prof. Preeti Srivastava

Prof. Rohan Jain

Prof. R. Elangovan (*Convenor*)

1. To confirm the minutes of the 8th meeting of the DRC for the session 2019-2020 held on 1<sup>st</sup> June 2020, and special meeting held on 5<sup>th</sup> June 2020.

The minutes of the 8th meeting of DRC for the session 2019-2020 held on 1<sup>st</sup> June 2020 and special DRC meeting held on 5th June 2020 were confirmed as circulated.

2. To report the matters arising from minutes of Meeting No. 08/2019-2020, and special DRC meeting dated 5<sup>th</sup> June 2020

None reported.

3. Selection of students for departmental Ph.D. and MSR programmes for Sem I, 2020-21 entry

**PhD programme**

The PhD Coordinator presented the details of applications received from P.G. section, and details of candidates shortlisted for 1<sup>st</sup> round of interview as per the eligibility criteria finalised by DRC in its 8<sup>th</sup> meeting (Annexure 1).

Following schedule was chalked out related to selection of Ph.D. students for Sem I, 2020-21:

- Briefing of DBEB faculty members for stage 1 selection: **14<sup>th</sup> July 2020, 11 AM**
- Stage 1 interview for the shortlisted candidates: **17<sup>th</sup> July 2020, 9 AM onwards**
- Shortlisting for stage 2 by DRC: **20<sup>th</sup> July 2020, 11 AM**
- Stage 2 interview for final selection: **22-23<sup>rd</sup> July 2020, 9 AM onwards**

**M.S.(Res)**

The MSR Coordinator presented the details of applications received from P.G. section, and details of candidates shortlisted as per the eligibility criteria for admissions finalised by DRC in its 8<sup>th</sup> meeting (Annexure 2).

**Applications from International students for Ph.D. and M.S.(Res) Programmes**

Interview of international applications for the programmes was scheduled for **30<sup>th</sup> July 2020 at 11 am.**

4. Advance selection of NIT students for Ph.D. programme at DBEB, under a recently launched scheme The scheme of direct recruitment of NIT students for Ph.D. programme was discussed. Modality of selection of NIT students for Ph.D. programme of the department was finalised (Annexure 3). The PhD Coordinator apprised the board of three applications for evaluation. Interview for the candidates was scheduled for **30<sup>th</sup> July 2020, 12 noon.**

5. Synopsis report submitted by Jananee Jaishankar (2015BEZ8350).

Name	Date of Synopsis	Title of thesis
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Jananee Jaishankar (2015BEZ8350)	26 <sup>th</sup> June 2020	Isolation and molecular characterization of promoters from <i>Gordonia</i>
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Based on the recommendation of the students SRC the committee approved the synopsis. The Committee also approved the panel of Examiners and authorized the Chairperson to forward the same to Dean Academics.

*(Action: Thesis Supervisor to send the following documents to the DRC Convener: (a) Filled-in form for Ph.D. synopsis submission & Appointment of Examiners (b) 2 hard copies of the Synopsis and (c) soft copy of the Synopsis by email)*

6. Update on BTP and MTP evaluation for students opting for AGP

Committee was updated on the list of AGP students who have opted for Audit Pass and Credit for BTP and MTP. DRC decided to conduct of presentation for students who have opted for Credit on **13<sup>th</sup> July 10 AM** onwards, as per academic calendar. The deadline for submission of reports by the students was **4<sup>th</sup> July 2020**.

7. To report the matters for ratification by the DRC

(a) Project proposals submitted by departmental faculty

S. No	Project Title	Project Investigator	Funding Agency
1	Development of a sensor for presence of SARSCoV2 virus in the municipal wastewater	RJ	DBT (Indo Australia Biotechnology Fund)
2	Simultaneous monitoring of different wastewaters for pesticide detection using a multichambered microbial fuel cell biosensor	Dr Karthik Aiyer, (Institute Postdoc under the mentorship of LED)	DBT (IYBA)
3	Development of Genome engineering tools for <i>Gordonia</i> based on recombination machinery from phages	PS	DBT

The above projects were circulated to members, since no specific comments were received the projects were forwarded to Dean IRD and the item was ratified.

(b) Extension of Ex India Leave application

Name (Entry No)	Visiting University	Extended Duration
Navaneethan R.* (2017BEZ8438)	NTHU, Taiwan	16.05.2020 – 15.07.2020
Arif Nissar Zargar (2016BEZ7504)	DTU Denmark	24.07.2020– 24.10.2020

\*Request of extension with fellowship

The committee approved the requests.

8. Any other item with the permission of Chair

(a) Progress of 2018 entry MS(Res) students: It was decided to get an update of the progress of the four 2018 entry M.S.(Res) students. M.S.(Res) coordinator was requested to mail the students to come up with their plan for thesis submission in consultation with their respective supervisors.

Ravikrishnan E  
Convener, DRC

### **Distribution**

DRC members (by email)

**Shortlisting of candidates for 1<sup>st</sup> round of interview towards selection for Ph.D. programme  
of DBEB**

Category	No. of applications received			No. of direct admission			No. of candidates shortlisted for stage 1 interview		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
General	178	324	502	-	-	-	64	121	185
OBC	71	92	163	-	-	-	31	36	67
EWS	27	22	49	-	-	-	7	10	17
SC	48	34	82	-	-	-	14	15	29
ST	3	13	16	-	-	-	1	8	9
PH	0	0	0	-	-	-	0	0	0
Total	327	485	812				117	190	307

**Details of candidates shortlisted for M.S.(Res) programe of DBEB**

Category	No. of applications received			No. of direct admission		
	Male	Female	Total	Male	Female	Total
General	65	62	127	4	6	10
OBC	20	18	38	1	5	6
EWS	6	5	11	0	0	0
SC	6	3	9	0	1	1
ST	2	1	3	0	0	0
PH	0	0	0	0	0	0
<b>Total</b>	<b>99</b>	<b>89</b>	<b>188</b>	<b>5</b>	<b>12</b>	<b>17</b>

**Modality for Advance selection of NIT undergraduate students to Ph.D. programme at DBEB, IIT Delhi**

**1. Shortlisting criteria**

- 6<sup>th</sup> semester B.Tech. in Biotechnology / Chemical Engineering with a CGPA > 8.0
- 8<sup>th</sup> semester Dual degree in Chemical Engineering with a CGPA > 8.0

**2. Selection process**

50% weightage for their Statement-of-Purpose (SOP)<sup>#</sup>

50% weightage for performance in interview

Questions in interview:

- Favourite subject (mentioned in their SOP), weightage: 25%
- Aptitude questions, weightage: 25%
- Research area (mentioned in their SOP), weightage: 25%\*
- Communication skills & motivation, weightage: 25%

*\*Please note that this should be benchmarked as an undergraduate 3<sup>rd</sup> year student*

***#Statement of purpose (Maximum 2 pages in single spacing, do not change the margins, font size should be 11 point)***

*(Please answer the following questions in the SOP and delete all the instructions below)*

- What has been your learning in your B.Tech. degree so far? Which courses did you enjoy the most?
- What is your motivation for doing Ph.D.?
- Do you have any research experience till now? If yes, what kind?
- If selected, with which faculty of Department of Biochemical Engineering and Biotechnology will you be interested in working, and why?
- Which research problem will you like to address and why? How will you target that problem? Be as specific as possible. (For reference, see the Ph.D. projects floated for the upcoming semester, also feel free to contact faculty)
- What skills would you like to learn during your Ph.D.? How will these skills help you in your future career?
- What are your goals after Ph.D.? (Please feel free to write what you really want to do)