Dated: 2nd July 2020

The ninth meeting of Departmental Research Committee (DRC) for the academic session 2019-2020 was held on 2nd 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 1st June 2020, and special meeting held on 5th June 2020.
The minutes of the 8th meeting of DRC for the session 2019-2020 held on 1st 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 5th 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 1st round of interview as per the eligibility criteria finalised by DRC in its 8th 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: 14th July 2020, 11 AM
- Stage 1 interview for the shortlisted candidates: 17th July 2020, 9 AM onwards
- Shortlisting for stage 2 by DRC: 20th July 2020, 11 AM
- Stage 2 interview for final selection: 22-23rd 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 8th 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 30th 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 30th July 2020, 12 noon.


<table>
<thead>
<tr>
<th>Name</th>
<th>Date of Synopsis</th>
<th>Title of thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 13th July 10 AM onwards, as per academic calendar. The deadline for submission of reports by the students was 4th July 2020.

7. To report the matters for ratification by the DRC
(a) Project proposals submitted by departmental faculty

<table>
<thead>
<tr>
<th>S. No</th>
<th>Project Title</th>
<th>Project Investigator</th>
<th>Funding Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Development of a sensor for presence of SARS-CoV2 virus in the municipal wastewater</td>
<td>RJ</td>
<td>DBT (Indo Australia Biotechnology Fund)</td>
</tr>
<tr>
<td>2</td>
<td>Simultaneous monitoring of different wastewaters for pesticide detection using a multichambered microbial fuel cell biosensor</td>
<td>Dr Karthik Aiyer, (Institute Postdoc under the mentorship of LED)</td>
<td>DBT (IYBA)</td>
</tr>
<tr>
<td>3</td>
<td>Development of Genome engineering tools for Gordonia based on recombination machinery from phages</td>
<td>PS</td>
<td>DBT</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name (Entry No)</th>
<th>Visiting University</th>
<th>Extended Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navaneethan R.* (2017BEZ8438)</td>
<td>NTHU, Taiwan</td>
<td>16.05.2020 – 15.07.2020</td>
</tr>
</tbody>
</table>

*Request of extension with fellowship
The committee approved the requests.

8. Any other item with the permission of Chair
(a) Progress of 2018 entry M.S.(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
Convenor, DRC

Distribution
DRC members (by email)
# Shortlisting of candidates for 1st round of interview towards selection for Ph.D. program of DBEB

### Category
- **General**
- **OBC**
- **EWS**
- **SC**
- **ST**
- **PH**
- **Total**

<table>
<thead>
<tr>
<th>Category</th>
<th>No. of applications received</th>
<th>No. of direct admission</th>
<th>No. of candidates shortlisted for stage 1 interview</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Total</td>
</tr>
<tr>
<td>General</td>
<td>178</td>
<td>324</td>
<td>502</td>
</tr>
<tr>
<td>OBC</td>
<td>71</td>
<td>92</td>
<td>163</td>
</tr>
<tr>
<td>EWS</td>
<td>27</td>
<td>22</td>
<td>49</td>
</tr>
<tr>
<td>SC</td>
<td>48</td>
<td>34</td>
<td>82</td>
</tr>
<tr>
<td>ST</td>
<td>3</td>
<td>13</td>
<td>16</td>
</tr>
<tr>
<td>PH</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>327</td>
<td>485</td>
<td>812</td>
</tr>
</tbody>
</table>

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Annexure 1
## Details of candidates shortlisted for M.S.(Res) programme of DBEB

<table>
<thead>
<tr>
<th>Category</th>
<th>No. of applications received</th>
<th>No. of direct admission</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>General</td>
<td>65</td>
<td>62</td>
</tr>
<tr>
<td>OBC</td>
<td>20</td>
<td>18</td>
</tr>
<tr>
<td>EWS</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>SC</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>ST</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>PH</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>99</strong></td>
<td><strong>89</strong></td>
</tr>
</tbody>
</table>
Modality for Advance selection of NIT undergraduate students to Ph.D. programme at DBEB, IIT Delhi

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

2. Selection process
   50% weightage for their Statement-of-Purpose (SOP)*
   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 3rd 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)