

**Department of Biochemical Engineering and Biotechnology**

**Minutes of Special DRC meeting**

(2021-2022)

Dated: 3<sup>rd</sup> Dec 2021

A special meeting of the Departmental Research Committee (DRC) for the academic session 2021-2022 was held on 3<sup>rd</sup> Dec 2021 at 4 pm by video conferencing.

The following members were present:

Prof. Shilpi Sharma (Chairperson)

Prof. D. Sundar

Prof. T. R. Sreekrishnan

Prof. Atul Narang

Prof. K. J. Mukherjee

Prof. Ritu Kulshreshtha

1. Shortlisting of applicants for Stage 2 of Ph.D. selection

*Online Viva was conducted in the forenoon of 3<sup>rd</sup> Dec 2021 as Stage 1 of selection of students for departmental Ph.D. programme. Out of a total of 137 applicants shortlisted for the 1<sup>st</sup> round, 102 candidates appeared for the Viva. Based on the performance of candidates, the cut off marks were decided for drawing the final list of students for Interview as Stage 2 scheduled for 7<sup>th</sup> Dec 2021. A total of 16 candidates were shortlisted for the 2<sup>nd</sup> round / Final interview.*

*Based on the allocation of Institute Assistantship @ 5.5 per faculty, it was decided that each faculty member in the department will be allocated not more than 6 Ph.D. students who would be hired based on Institute Assistantship (Vacancy position of Institute Assistantships as on 30-11-2021 is enclosed herewith)*

2. Request received for change in SRC composition of Sounak Dasgupta (2021BEZ8010)

*In view of the request made by Prof. K. J. Mukherjee, the Ph.D. supervisor of Sounak Dasgupta, his SRC composition was changed. The new composition is as follows:*

*Chairperson*

*Prof. Atul Narang*

*Internal Expert*

*Prof. Ashish Misra*

*External Expert*

*Prof. T. K. Chaudhary, KSBS*

*Supervisor*

*Prof. K. J. Mukherjee*

3. Synopsis of Ph.D. thesis of Swati Varshney (2016BEZ8325) entitled "Studies on bacterial diversity on fabrics"

*The Committee discussed and approved the synopsis submitted by the Ph.D. student Ms Swati Varshney. The Committee also approved the panel of Examiners and authorized the Chairperson to forward the same to Dean (Academics).*

*(Action: 1 Thesis supervisor to send the following documents to the DRC Chairperson: (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) (Action 2: Upon receipt of the above documents, Chairperson DRC to forward it to Dean-Academics)*

4. Plan of work of Ph.D. students:

- (a) Rashi Tyagi (2020BEZ8525) - Thesis title: Designing a synthetic microbial community for biocontrol of pathogen, and
- (b) Salila Pradhan (2020BEZ8522) - Thesis title: Rhizospheric engineering for sustainable agriculture

*The plan of work for Rashi Tyagi and Salila Pradhan was approved based on recommendation by their respective SRCs. The date for Paper 2 of written comprehensive examination was noted as 25<sup>th</sup> October 2021, and that of oral comprehensive examination was 22<sup>nd</sup> Nov 2021.*

5. New PhD project by faculty member

*A new Ph.D. project proposed by Prof. Ishaan Gupta, "Dissecting molecular biology through single-molecule sequencing", was circulated to all DRC members. The same was approved for allotment to Ph.D. students.*

6. Allotment of Ph.D. topic to Nirmal Singh Mahar (2020BEZ7518)

*Nirmal Singh Mahar was assigned the Ph.D. topic "Dissecting molecular biology through single-molecule sequencing" under the supervision of Prof. Ishaan Gupta.*

7. Allotment of Ph.D. topic to Soumya Sahai Saxena (2021BEZ8009)

*Based on the interest expressed by Ms. Soumya Sahai Saxena (2021BEZ8009) to work in the research area of Plant Microbe interactions and the concurrence given by Prof. Shilpi Sharma, Ms. Saxena was assigned the Ph.D. topic "Engineering rhizospheric microbiota through compost amendment for enhanced suppressiveness against pathogens" to work under the mentorship of Prof Shilpi Sharma and Dr Pascal Piveteau, INRAE, France.*

Shilpi Sharma

**Circulation to DFB (by email)**

Department/ Centre/ School	*Sanctioned Faculty Strength	Institute Assistantship @ 5.5 per faculty															Total Institute Assistantship			Total of All Categories# @10 per faculty		
		GEN			SC			ST			OBC			EWS			S	P	V	S	P	V
		S	P	V	S	P	V	S	P	V	S	P	V	S	P	V						
Applied Mechanics	38	85	41	44	31	4	27	16	0	16	56	9	47	21	6	15	209	60	149	380	96	284
D.B.E.B	18	40	30	10	15	1	14	7	0	7	27	5	22	10	0	10	99	36	63	180	74	106
Chemical Engg.	41	91	63	28	34	14	20	17	7	10	61	22	39	23	7	16	226	113	113	410	236	174
Chemistry	40	89	51	38	33	1	32	17	1	16	59	14	45	22	6	16	220	73	147	400	227	173
Civil Engg.	68	151	82	69	56	12	44	28	2	26	101	26	75	37	2	35	374	124	250	680	275	405
Computer Sci. and Engg.	43	96	18	78	35	0	35	18	0	18	64	4	60	24	0	24	237	22	215	430	49	381
Electrical Engg.	74	185	139	46	61	11	50	31	1	30	110	40	70	41	2	39	407	193	214	740	448	292
Hum. and Soc. Sci.	34	76	44	32	28	9	19	14	2	12	50	7	43	19	2	17	187	64	123	340	188	152
Mathematics	38	85	25	60	31	0	31	16	1	15	56	16	40	21	2	19	209	44	165	380	88	292
Management Studies	25	56	60	-4	21	8	13	10	1	9	37	11	26	14	2	12	138	82	56	250	218	32
Mechanical Engg.	64	143	57	86	53	7	46	26	6	20	95	27	68	35	2	33	352	99	253	640	212	428
Physics	63	140	51	89	52	9	43	26	0	26	94	23	71	35	5	30	347	88	259	630	277	353
Textile and Fibre Engg.	34	76	32	44	28	6	22	14	1	13	50	18	32	19	0	19	187	57	130	340	101	239
Materials Sci. and Engg.	16	36	39	-3	13	5	8	7	2	5	24	14	10	9	3	6	88	63	25	160	94	66
Dept of Design	10	22	13	9	8	2	6	4	1	3	15	4	11	6	0	6	55	20	35	100	37	63
C.A.R.E.	14	31	26	5	12	1	11	6	0	6	21	6	15	8	2	6	77	35	42	140	71	69
C.A.S.	23	51	28	23	19	2	17	9	0	9	34	3	31	13	0	13	127	33	94	230	68	162
C.B.M.E.	15	33	34	-1	12	0	12	6	0	6	22	5	17	8	0	8	83	39	44	150	57	93
D.E.S.	30	67	42	25	25	1	24	12	1	11	45	19	26	17	1	16	165	64	101	300	94	206
C.R.D.T.	16	36	28	8	13	7	6	7	2	5	24	17	7	9	0	9	88	54	34	160	132	28
C.A.R.T	21	47	15	32	17	2	15	9	0	9	31	2	29	12	0	12	116	19	97	210	28	182
SeNSE	13	29	19	10	11	2	9	5	0	5	19	2	17	7	0	7	72	23	49	130	33	97
School of Biological Sc.	20	45	33	12	17	0	17	8	0	8	30	3	27	11	1	10	110	37	73	200	84	116
TRIPP Centre	0	3	3	0	1	1	0	0	0	0	2	3	-1	0	1	-1	6	8	-2	14	12	2
NRCVEE *	0	1	7	-6	1	0	1	0	0	0	1	0	1	0	1	-1	3	8	-5	7	12	-5
B.S.T.T.M.*	0	25	29	-4	8	1	7	4	0	4	13	7	6	3	0	3	53	37	16	80	78	2
Amar Nath School of I.T.*	0	15	13	2	4	0	4	2	0	2	8	3	5	1	0	1	28	16	12	50	48	2
school of Inter-disciplinary Research*	0																				75	
School of Public Policy	10	22	10	12	8	0	8	4	0	4	15	1	14	6	0	6	55	11	44	100	21	79
School of Artificial Intelligence	10	22	5	17	8	0	8	4	0	4	15	0	15	6	2	6	55	7	48	100	1	99
Optics and Photonics Centre	0																					
<b>Total</b>	<b>778</b>	<b>1797</b>	<b>1037</b>	<b>760</b>	<b>656</b>	<b>106</b>	<b>550</b>	<b>328</b>	<b>28</b>	<b>300</b>	<b>1179</b>	<b>311</b>	<b>868</b>	<b>433</b>	<b>47</b>	<b>389</b>	<b>4369</b>	<b>1529</b>	<b>2840</b>	<b>7931</b>	<b>3434</b>	<b>4572</b>

\* Faculty Strength for NRCVEE, B.S.T.T.M, Amar Nath School of I.T. and SiRe is not shown as they do not have Permanent Faculty.

# This includes all Institute Assistantship, Part Time, Sponsored, QIP, IPFP, RA on Projects, PRMF etc.

Both the vacancy position will be filled later. 1.12.21

Supdt (P) J. R. K. Reddy 1/12/21

Dean Academics 1/12/21