

**NATIONAL BOARD OF ACCREDITATION**

Data Capturing Points of the Program Applied for NBA Accreditation– Tier I/II UG (Engineering) Institute Programs

<b>Program Name</b> : Biotechnology	<b>Discipline</b> : Engineering & Technology
<b>Level</b> : Under Graduate	<b>Tier</b> : 1
<b>Application No</b> : 11719	<b>Date of Submission</b> : 06-04-2026

**PART A- Profile of the Institute**

<b>A1. Name of the Institute:</b> Vellore Institute of Technology	
Year of Establishment : 1984	Location of the Institute: Vellore
<b>A2. Institute Address:</b> Katpadi – Tiruvalam Road, Vellore - 632014	
City:Vellore	State:Tamil Nadu
Pin Code:632014	Website:www.vit.ac.in
Email:iis@vit.ac.in	Phone No(with STD Code):0416-2202030
<b>A3. Name and Address of the Affiliating University (if any):</b>	
Name of the University : Not Applicable	City:
State :	Pin Code: 0
<b>A4. Type of the Institution:</b> Deemed University	
<b>A5. Ownership Status:</b> Self financing	

**A6. Details of all Programs being Offered by the Institution:**

- No. of UG programs: **26**
- No. of PG programs: **33**

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Architecture	UG	Architecture	2015	--	Architecture
2	Architecture	PG	Architecture	2023	--	Architecture
3	Computer Application	PG	Master in Computer Applications	1994	--	Computer Science and Engineering
4	Engineering & Technology	PG	Applied Computational Fluid Dynamics	2022	--	Mechanical Engineering
5	Engineering & Technology	PG	Artificial Intelligence and Machine Learning	2025	--	Computer Science and Engineering
6	Engineering & Technology	PG	Automotive Electronics	2006	--	Electronics Engineering
7	Engineering & Technology	PG	Automotive Engineering	2004	2024	Mechanical Engineering
8	Engineering & Technology	PG	Biomedical Engineering	2003	--	Electronics Engineering
9	Engineering & Technology	PG	Biotechnology	2003	--	Biotechnology
10	Engineering & Technology	UG	Biotechnology	2001	--	Biotechnology
11	Engineering & Technology	PG	CAD/CAM	1999	--	Mechanical Engineering
12	Engineering & Technology	UG	Chemical Engineering	1994	--	Chemical Engineering
13	Engineering & Technology	UG	Civil Engineering	1984	--	Civil Engineering
14	Engineering & Technology	PG	Communication Engineering	2003	2023	Electronics Engineering
15	Engineering & Technology	PG	Computer Science & Engineering (Information Security)	2016	2025	Computer Science and Engineering
16	Engineering & Technology	PG	Computer Science & Engineering (Integrated)	2019	--	Computer Science and Engineering
17	Engineering & Technology	UG	Computer Science and Business System	2019	--	Computer Science and Engineering

18	Engineering & Technology	UG	Computer Science and Engineering	1993	--	Computer Science and Engineering
19	Engineering & Technology	PG	Computer Science and Engineering	1999	--	Computer Science and Engineering
20	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2023	--	Computer Science and Engineering
21	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence and Data Engineering)	2024	--	Computer Science and Information Technology
22	Engineering & Technology	PG	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	2019	--	Computer Science and Engineering
23	Engineering & Technology	PG	Computer Science and Engineering (Big Data Analytics)	2016	2025	Computer Science and Engineering
24	Engineering & Technology	UG	Computer Science and Engineering (Bioinformatics)	2002	--	Computer Science and Engineering
25	Engineering & Technology	UG	Computer Science and Engineering (Block Chain Technology)	2019	2025	Computer Science and Engineering
26	Engineering & Technology	PG	Computer Science and Engineering (Cyber Security)	2025	--	Computer Science and Engineering
27	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2024	--	Computer Science and Information Technology
28	Engineering & Technology	PG	Computer Science and Engineering (Data Science)	2019	--	Computer Science and Engineering
29	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2019	--	Computer Science and Engineering
30	Engineering & Technology	UG	Computer Science and Engineering (Information Security)	2016	2025	Computer Science and Engineering
31	Engineering & Technology	UG	Computer Science and Engineering (Internet of Things)	2019	2025	Computer Science and Engineering
32	Engineering & Technology	PG	Construction Technology and Management	2018	--	Civil Engineering
33	Engineering & Technology	PG	Control and Automation	2013	--	Electrical Engineering
34	Engineering & Technology	UG	Electrical & Electronics Engineering	1994	--	Electrical Engineering
35	Engineering & Technology	UG	Electrical and Computer Science Engineering	2023	--	Electrical Engineering
36	Engineering & Technology	UG	Electronics & Communication Engineering	1984	--	Electronics Engineering
37	Engineering & Technology	UG	Electronics & Instrumentation Engineering	1999	--	Electrical Engineering
38	Engineering & Technology	UG	Electronics and Communication Engineering (Biomedical Engineering)	2018	--	Electronics Engineering
39	Engineering & Technology	PG	Electronics and Communication Engineering (Intelligent Communication Systems)	2023	--	Electronics Engineering

40	Engineering & Technology	UG	Electronics Engineering (VLSI Design and Technology)	2023	--	Electronics Engineering
41	Engineering & Technology	PG	Embedded Systems	2013	--	Electronics Engineering
42	Engineering & Technology	UG	Health Sciences and Technology	2024	--	Health Science and Water Engineering
43	Engineering & Technology	UG	Information Technology	1998	--	Computer Science and Information Technology
44	Engineering & Technology	PG	Internet of Things and Sensor Systems	2019	2025	Electronics Engineering
45	Engineering & Technology	PG	Manufacturing Engineering	2010	2025	Mechanical Engineering
46	Engineering & Technology	UG	Mechanical Engineering	1984	--	Mechanical Engineering
47	Engineering & Technology	UG	Mechanical Engineering (Automotive Engineering)	2010	2024	Mechanical Engineering
48	Engineering & Technology	PG	Mechanical Engineering (Cyber Physical Systems)	2019	2023	Mechanical Engineering
49	Engineering & Technology	UG	Mechanical Engineering (Electric Vehicles)	2024	--	Mechanical Engineering
50	Engineering & Technology	UG	Mechanical Engineering(Manufacturing Engineering)	2021	2025	Mechanical Engineering
51	Engineering & Technology	PG	Mechatronics	2001	--	Mechanical Engineering
52	Engineering & Technology	PG	Nanotechnology	2006	2023	Electronics Engineering
53	Engineering & Technology	PG	Power Electronics & Drives	2001	--	Electrical Engineering
54	Engineering & Technology	PG	Smart Manufacturing	2025	--	Mechanical Engineering
55	Engineering & Technology	PG	Smart Mobility	2024	--	Mechanical Engineering
56	Engineering & Technology	PG	Software Engineering	2001	--	Computer Science and Information Technology
57	Engineering & Technology	PG	Structural Engineering	2006	--	Civil Engineering
58	Engineering & Technology	PG	VLSI Design	2003	--	Electronics Engineering
59	Management	PG	Master of Business Administration	1994	--	Management

**A7. Programs to be considered for Accreditation vide this Application:**

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Biotechnology	No	Biotechnology	UG
Civil Engineering	No	Civil Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.  
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record
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## PART-B: Program information

**B1. Provide the Required Information for the Program Applied For:**

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMI ARROVAL D
1	Biotechnology	UG	2001 / --	60	Yes	2018	180	2018	F.No. Southe 4463932166 1

Sanctioned Intake for Last Five Years for the Biotechnology	
Academic Year	Sanctioned Intake
2025-26	180
2024-25	180
2023-24	180
2022-23	180
2021-22	180
2020-21	180

List of the Allied Departments/Cluster and Programs:

### B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	Dr Suneetha V
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

### B3. Program Details

Table No.B3.1: Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	180	180	180	180	180	180	180
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	171	232	144	218	281	179	190
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	0	0	0	0	0
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	3	1	3	1	3	8	7
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	174	233	147	219	284	187	197

CAY= Current Academic Year. CAYm1= Current Academic Year Minus 1 CAYm2= Current Academic Year Minus 2. LYG= Last Year Graduate. LYGm1= Last Year Graduate Minus 1. LYGm2= Last Year Graduate Minus 2.

### B4. Enrolment Ratio in the First Year

Table No. B4.1: Student enrolment ratio in the 1st year.

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2025-26 (CAY)	180	171	3	96.67
2024-25 (CAYm1)	180	232	1	129.44
2023-24 (CAYm2)	180	144	3	81.67

Average [ (ER1 + ER2 + ER3) / 3 ] = 102.59% 100

**B5. Success Rate of the Students in the Stipulated Period of the Program**

Table No.B5.1: The success rate in the stipulated period of a program.

Item	(2021-22) LYG	(2020-21) LYGm1	(2019-20) LYGm2
A*=(No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	284.00	187.00	197.00
B=No. of students who graduated from the program in the stipulated course duration	267.00	178.00	189.00
Success Rate (SR)= (B/A) * 100	94.01	95.19	95.94

Average SR of three batches ((SR\_1+ SR\_2+ SR\_3)/3): 95.05

**B6. Academic Performance of the First-Year Students of the Program**

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1( 2024-25 )	CAYm2( 2023-24 )	CAYm3 ( 2022-23 )
Mean of CGPA or mean percentage of all successful students(X)	8.29	8.21	8.10
Y=Total no. of successful students	233.00	147.00	219.00
Z=Total no. of students appeared in the examination	233.00	147.00	219.00
API [X*(Y/Z)]	8.29	8.21	8.10

Average API [ (AP1+AP2+AP3)/3 ] : 8.20

**B7: Academic Performance of the Second Year Students of the Program**

Table No.B7.1: Academic Performance of the Second Year Students of the Program.

Academic Performance	CAYm1 ( 2024-25 )	CAYm2 ( 2023-24 )	CAYm3 ( 2022-23 )
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.33	7.90	7.63
Y=Total no. of successful students	147.00	219.00	284.00
Z=Total no. of students appeared in the examination	147.00	219.00	284.00
API [ X * (Y/Z) ]	7.33	7.90	7.63

Average API [ (AP1 + AP2 + AP3)/3 ] : 7.62

**B8. Academic Performance of the Third Year Students of the Program**

Table No.B8.1: Academic Performance of the Third Year Students of the Program

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	8.18	7.94	8.05
Y=Total no. of successful students	219.00	284.00	187.00
Z=Total no. of students appeared in the examination	219.00	284.00	187.00
API [ X*(Y/Z) ]:	8.18	7.94	8.05

Average API [ (AP1 + AP2 + AP3)/3 ] : 8.06

**B9. Placement, Higher Studies, and Entrepreneurship**

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	284.00	187.00	197.00
X=No. of students placed	119.00	73.00	89.00
Y=No. of students admitted to higher studies	128.00	88.00	81.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	86.97	86.10	86.29

Average Placement Index = (P\_1 + P\_2 + P\_3)/3: 86.45 Placement Index Points:

## PART C: Faculty Details in Department and Allied Departments

### (Data to be filled in for the Department and Allied Departments)

**C1. Faculty details of Department and Allied Departments**

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The c on w/ Desig as Profe Asso Profe if any
1	Dr Suneetha V	XXXXXXXX60D	Ph.D	Sri Padmavati Mahila Visvavidyalayam, Tirupati	Microbial technology and Bioprocess engineering/Enzyme and Industrial Technology	29/04/2006	19.11	Lecturer	Professor	02/09
2	Dr. Amitava Mukerjee	XXXXXXXX16K	Ph.D	Indian Institute of Science ,Bangalore	Nano Eco- Toxicology, Nanomaterials, Environmental remediation	02/01/2007	19.2	Assistant Professor	Professor	01/03
3	Dr.Kartikeyan S	XXXXXXXX50A	Ph.D	Vellore Institute of Technology	Microbial Biotechnology	13/12/2001	24.3	Lecturer	Professor	01/07
4	Dr. Siva R	XXXXXXXX80D	Ph.D	Bharathidasan University	Plant Biotechnology and Molecular biology	05/01/2006	20.2	Lecturer	Professor	02/09
5	Dr Abul Kalam Azad Mandal	XXXXXXXX26L	Ph.D	IIT Kharagpur	Nanotechnology/ Phytochemistry/ Medical Biotechnology/ Genomics/ Non-coding RNA	15/04/2010	15.11	Associate Professor	Professor	01/09
6	Dr Gothandam K.M	XXXXXXXX60G	Ph.D	Bharathiar University	Genomics, Natural products, functional genomics	30/07/2007	18.8	Lecturer	Professor	01/09
7	Dr Ramanathan K	XXXXXXXX41C	Ph.D	Vellore Institute of Technology	Bioinformatics and Machine learning	04/02/2005	21.1	Lecturer	Professor	01/07
8	Dr Shanthi C	XXXXXXXX86M	Ph.D	University of Madras	Proteins and Peptides; enzymes; Protein based biomaterials	22/04/2005	20.11	Lecturer	Professor	01/01
9	Dr Suresh P.K	XXXXXXXX80R	Ph.D	University of Cincinnati, Ohio (USA)	Environmental Health/Toxicology	30/04/2009	16.10	Professor	Professor	30/04
10	Dr Rasool M	XXXXXXXX27M	Ph.D	University of Madras	Immunology, Autoimmune Disorder, Immunotherapeutics	19/06/2009	16.9	Assistant Professor	Professor	01/07
11	Dr Ramalingam C	XXXXXXXX63P	Ph.D	Tamil Nadu Agricultural University	Food Science and Technology	26/12/2007	18.3	Assistant Professor	Professor	01/09
12	Dr Kavitha Thirumurugan	XXXXXXXX95C	Ph.D	Tamil Nadu Agricultural University	medical biotechnology	20/10/2008	17.5	Assistant Professor	Professor	01/09
13	Dr Rajasekaran C	XXXXXXXX83Q	Ph.D	Hemwati Nandan Bahuguna Garhwal University	Plant Physiology	03/05/2006	19.10	Lecturer	Professor	01/07
14	Dr. Mrudula P	XXXXXXXX83F	Ph.D	Vellore Institute of Technology	Nanoremediation, bioremediation, bioprocess engineering	25/04/2002	23.11	Lecturer	Professor	01/07
15	Dr Shanthi V	XXXXXXXX11C	Ph.D	Vellore Institute of Technology	Computational biology	18/09/2009	16.6	Assistant Professor	Professor	01/07
16	Dr Sabina EP	XXXXXXXX47R	Ph.D	Vellore Institute of Technology	Biochemistry	01/06/2004	21.9	Lecturer	Professor	01/07
17	Dr Arnold Emerson I	XXXXXXXX77E	Ph.D	Vellore Institute of Technology	Computational biology	26/03/2004	22	Lecturer	Professor	01/07
18	Dr Venkat Kumar S	XXXXXXXX70Q	Ph.D	Vellore Institute of Technology	Environmental biotechnology	28/04/2005	20.11	Lecturer	Professor	01/07
19	Dr Sivakumar A	XXXXXXXX75R	Ph.D	Vellore Institute of Technology	Medical biotechnology	05/09/2005	20.6	Lecturer	Professor	01/07
20	Dr Ramesh Pathy M	XXXXXXXX68K	Ph.D	Vellore Institute of Technology	Bioprocess technology	23/04/2007	18.11	Lecturer	Professor	01/07
21	Dr Debasish Mishra	XXXXXXXX04N	Ph.D	IIT Kharagpur	Biomedical Biomimetics, Biomaterials, Tissue Engineering and Regenerative Medicine	22/07/2013	12.8	Assistant Professor	Professor	01/07
22	Dr Sudindara Doss C	XXXXXXXX38M	Ph.D	Vellore Institute of Technology	Protein engineering and Bioinformatics	17/04/2002	23.11	Lecturer	Professor	01/07

23	Dr Amit Kumar Jaiswal	XXXXXXXX60A	Ph.D	IIT Bombay	Biomaterials and Tissue Engineering	06/06/2013	12.9	Assistant Professor	Professor	01/07
24	Dr Tamizhselvi R	XXXXXXXX41P	Ph.D	University of Madras	Cancer Biology	01/07/2011	14.8	Associate Professor	Professor	02/07
25	Dr Priti Talwar	XXXXXXXX44G	Ph.D	Max Planck Institute for Informatics and Saarland University, Germany	Natural Sciences	02/01/2023	3.3	Assistant Professor	Professor	11/01
26	Dr Jitendra Satija	XXXXXXXX19F	Ph.D	IIT Bombay	Biomedical Engineering	15/07/2013	12.8	Assistant Professor	Professor	01/07
27	Dr Suthindhiran K	XXXXXXXX10J	Ph.D	Vellore Institute of Technology	Marine Biotechnology/Cell Biology	01/02/2010	16.1	Assistant Professor	Professor	01/07
28	Dr Sangeetha Subramanian	XXXXXXXX75M	Ph.D	Vellore Institute of Technology	Environmental Biotechnology, Bio nanotechnology and water treatment	01/02/2005	21.1	Lecturer	Professor	01/07
29	Dr Kalaivani T	XXXXXXXX74J	Ph.D	Vellore Institute of Technology	Pharmacological properties of medicinal plants	03/05/2006	19.10	Lecturer	Professor	01/07
30	Dr Anand Prem Rajan	XXXXXXXX12D	Ph.D	Bharathiar University	Bioremediation, Biodiversity, Geomicrobiology	14/12/2006	19.3	Lecturer	Professor	01/07
31	Dr Subathradevi C	XXXXXXXX38L	Ph.D	SASTRA University	Microbial Biotechnology	14/06/2007	18.9	Lecturer	Professor	01/07
32	Dr Venkatraman M	XXXXXXXX66B	Ph.D	University of Kerala	Applied Sc (Biotechnology)	01/07/2011	14.8	Assistant Professor	Professor	01/07
33	Dr George Priya Doss C	XXXXXXXX34R	Ph.D	Vellore Institute of Technology	Bioinformatics, AMR, Nano informatics	07/10/2009	16.5	Assistant Professor	Professor	01/07
34	Dr Everette Jacob Remington N	XXXXXXXX70A	Ph.D	Tamil Nadu Dr.M.G.R.Medical University	Basic Medical Sciences, Gene therapy of hematological disorders	01/06/2016	9.9	Associate Professor	Professor	01/07
35	Dr Sajitha Lulu S	XXXXXXXX41J	Ph.D	Vellore Institute of Technology	Computational Systems biology	03/05/2006	19.10	Lecturer	Associate Professor	01/07
36	Dr Jayasri M.A	XXXXXXXX13F	Ph.D	Vellore Institute of Technology	Biotechnology/Biochemistry	14/10/2009	16.5	Assistant Professor	Associate Professor	02/07
37	Dr Sudhakaran R	XXXXXXXX55Q	Ph.D	Thiruvalluvar University	Marine Biotechnology	26/03/2012	14	Assistant Professor	Associate Professor	01/07
38	Dr Gayathri M	XXXXXXXX85G	Ph.D	Vellore Institute of Technology	Biochemistry/Biotechnology	30/08/2010	15.6	Assistant Professor	Associate Professor	01/07
39	Dr Reena Rajkumari B	XXXXXXXX74A	Ph.D	Tamil Nadu Dr.M.G.R.Medical University	Clinical Microbiology and Immunology	05/05/2009	16.10	Assistant Professor	Associate Professor	01/07
40	Dr Jabez Osborne W	XXXXXXXX59A	Ph.D	Vellore Institute of Technology	Environmental biotechnology	30/08/2010	15.6	Assistant Professor	Associate Professor	01/07
41	Dr Rajiniraja M	XXXXXXXX37F	Ph.D	Vellore Institute of Technology	Bioinformatics, Pharmacoinformatics and Applied Biotechnology	03/01/2011	15.3	Assistant Professor	Associate Professor	02/01
42	Dr John Thomas	XXXXXXXX11N	Ph.D	Thiruvalluvar University	Aquaculture and marine biotechnology	01/03/2013	13.1	Lecturer	Associate Professor	01/07
43	Dr Kali Kishore Reddy Tetala	XXXXXXXX60B	Ph.D	Wageningen University, The Netherlands	Mcroarray, Polymers materials	31/01/2014	12.2	Assistant Professor	Associate Professor	02/01
44	Dr Ramesh N	XXXXXXXX37E	Ph.D	Bharathidasan University	medical microbiology	01/07/2016	9.8	Assistant Professor	Associate Professor	01/07
45	Dr Priyankar Sen	XXXXXXXX06K	Ph.D	Aligarh Muslim University	Protein isolation purification and characterization	12/09/2012	13.6	Assistant Professor	Associate Professor	01/07
46	Dr Sunita Nayak	XXXXXXXX22D	Ph.D	IIT Kharagpur	Tissue engineering and biomaterials	01/07/2013	12.8	Assistant Professor	Assistant Professor	
47	Dr.Sabareesh V	XXXXXXXX46R	Ph.D	Indian Institute of Science	Ph.D in Molecular Biophysics with specialization in Biomolecular Mass Spectrometry of Peptides, Prot	17/01/2013	13.2	Assistant Professor	Assistant Professor	

48	Dr Nalini E	XXXXXXXX93H	Ph.D	Vellore Institute of Technology	Microbiology, Molecular Biology	29/06/2020	5.9	Assistant Professor	Assistant Professor	
49	Dr. Anbalagan M	XXXXXXXX17H	Ph.D	Indian Institute of Science	Molecular Endocrinology, Cancer Biology	02/05/2011	14.10	Associate Professor	Professor	02/07
50	Dr. Kannabiran	XXXXXXXX54B	Ph.D	University of Madras	Biochemistry	04/06/2004	21.9	Lecturer	Professor	31/12
51	Dr. Krishnan V	XXXXXXXX22K	Ph.D	Weizmann Institute of Science, Rehovot, Israel	Biological Chemistry	03/09/2009	16.7	Associate Professor	Professor	01/09
52	Dr. Kanagavel DeepanKumar	XXXXXXXX83K	Ph.D	Yeungnam University, South Korea	Biomaterials for biomedical applications	14/12/2022	3.3	Associate Professor	Associate Professor	
53	Dr.Mohana Priya A	XXXXXXXX54A	Ph.D	Vellore Institute of Technology	Systems Biology, Bioinformatics	09/06/2006	19.9	Lecturer	Associate Professor	01/07
54	Dr. Mythili S	XXXXXXXX20C	Ph.D	Vellore Institute of Technology	Plant Biotechnology, Endophytes	01/04/2002	24	Lecturer	Professor	01/07
55	Dr.Rajasekaran R	XXXXXXXX15B	Ph.D	Vellore Institute of Technology	Computational Biochemistry	18/12/2006	19.3	Lecturer	Professor	01/07

Table No.C2: Faculty details of Allied Departments for the past 3 years including CAY.

**C2. Student-Faculty Ratio (SFR)**

No. of UG(Engineering) programs in Department including allied departments/ clusters (UGn):

UG1=1st UG program

UGn=nth UG program

**B**= No. of Students in UG 2nd year (ST)

**C**= No. of Students in UG 3rd year (ST)

**D**= No. of Students in UG 4th year (ST)

No. of PG (Engineering) programs in Department including allied departments/ clusters (PGm):

PG1=1st PG program.

PGm=mth PG program

**A**= No. of Students in PG 1st year

**B**= No. of Students in PG 2nd year

Student Faculty Ratio (**SFR**) = S/F

S= No. of students of all programs in the Department including all students of allied departments/clusters.

**No. of students (ST)**=Sanctioned Intake (SA)+ Actual admitted students via lateral entry including leftover seats (L) if any (limited to 10 % of SA)

Students who admitted under supernumerary quotas (SNQ, EWS, etc) will not be considered in calculating SFR value. Those students are exempted.

**F**=Total no. of regular or contractual faculty members (Full Time) in the Department, including allied departments/clusters (excluding first year faculty (The faculty members who have a 100% teaching load in the first-year courses)).

No. of UG Programs in the Department1 No. of PG Programs in the Department1

Table No.C2.1: Student-faculty ratio.

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	180	180	180
UG1.C	180	180	180
UG1.D	180	180	180
<b>UG1: Biotechnology</b>	<b>540</b>	<b>540</b>	<b>540</b>
PG1.A	54	54	54
PG1.B	54	54	48
<b>PG1: Biotechnology</b>	<b>108</b>	<b>108</b>	<b>102</b>
DS=Total no. of students in all UG and PG programs in the Department	648	648	642
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	<b>S1= 648</b>	<b>S2= 648</b>	<b>S3= 642</b>
DF=Total no. of faculty members in the Department	55	55	55
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	<b>F1= 55</b>	<b>F2= 55</b>	<b>F3= 55</b>
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	<b>SFR1= 11.78</b>	<b>SFR2= 11.78</b>	<b>SFR3= 11.67</b>
Average SFR for 3 years	<b>SFR= 11.74</b>		

**C3. Faculty Qualification**

- Faculty qualification index (FQI) =  $2.5 * [(10X + 4Y)/RF]$  where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.

- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents:  $(RF=S/20)$ .

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	$FQ = 2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	55	0	32.00	42.97
2024-25(CAYm1)	55	0	32.00	42.97
2023-24(CAYm2)	55	0	32.00	42.97

#### C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required =  $1/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per C2 of this documents.}$
- RF2= No. of Associate Professors required =  $2/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- RF3= No. of Assistant Professors required =  $6/9 * \text{No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents.}$
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

Table No.C4.1: Faculty cadre proportion details.

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	3.00	39.00	7.00	13.00	21.00	3.00
2024-25	3.00	39.00	7.00	13.00	21.00	3.00
2023-24	3.00	34.00	7.00	16.00	21.00	5.00
Average	RF1=3.00	AF1=37.33	RF2=7.00	AF2=14.00	RF3=21.00	AF3=3.67

#### C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Brigitte Vannier	Professor	University of Poitiers France	Natural product Technology	120.00
2	Wilner Martinez Lopez	Professor	Clemente Estable Biological research Institute Uruguay	Genotoxicity testing for environmental monitoring and human health	108.00
3	Thomas Efferth	Professor	Johannes gutenberg University Mainz Germany	Advancement in Phytotherapeutics	50.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Marie Genevieve Dijoux-Franca	Professor	Claude Bernard University Lyon-1	Drug Discovery and NMR	50.00
2	Roger Besancon	Professor	Claude Bernard University of Lyon-1	Molecular Pharmacology	50.00
3	Venkatesan Rajaram	Senior Researcher	University of Oulu Finland	Protein and Structural biology	86.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Virinder Parmar	Professor	Medge Evers College City, University of New York	Design and Development Energy Systems	60.00

#### C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)
1	No. of peer reviewed journal papers published	708	736	602

2	No. of peer reviewed conference papers published	8	7	16
3	No. of books/book chapters published	147	96	104

**C7. Sponsored Research Project**

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Ramesh N	Dr. Sivakumar A	SBST	Generation of Bacteriophages for Combating Bacterial Infections of the Skin and Musculoskeletal System	ICMR	36 Months	43589817.00
Dr. Patel Trupti Navinchandra		SBST	Microsatellite instability across various tumor types: diagnostic criteria, methods of detection, and bio-clinical associations	DST	36 Months	13664792.00
Dr. Arunkumar Pitchaimani	Dr. Raunak Kumar Das	CBCMT	Personalized Mitochondria as a Therapeutic Vehicle: An Organelle Mediated Gene Delivery Platform for the Treatment of Alzheimer Disease.	ICMR	24 Months	13348901.00
Dr. Rashmi Kataria		SBST	Valorisation of potato peel waste for bioplastic production and extraction of Suberin components.	DBT	60 Months	11360000.00
Dr. George Priya Doss C	Dr. Monica Subashini M and Dr. Sasikumar K	SBST	Explainable Artificial Intelligence (XAI) to identify the Synergistic Antimicrobial combinations for the treatment of carbapenem-resistant Acinetobacter baumannii.	ICMR	36 Months	11100000.00
Dr. Sankar Ganesh D	Dr. Naveen Kumar P	SBST	Understanding the role fo propionic acid in regulating PPAR-gamma and lipoprotein lipase (LPL) in Poly cystic ovary syndrome (Pro-PPL)	ICMR	12 Months	6259696.00
Dr. Anbalagan M		SBST	Development and evaluation of Ape1 degrading peptide to sensitize genotoxic drug resistance tumor cells for apoptosis	ANRF	36 Months	5287440.00
Dr. Reena Rajkumari B	Dr. Balaji Balakrishnan	SBST	Enhancing therapeutic outcomes in Asthma through Tryptophan Microbiome Metabolites mediated immune modulation via NF-kB/AhR pathway	ICMR	12 Months	3563300.00
Dr. Pranav		CNBT	Chiral Carbon-based nanohybrids system as a bifunctional theranostics platform against neurodegenerative diseases	ICMR	12 Months	2812096.00
Dr. Aanchal Mittal	Dr. Jeevitha G C	SBST	Renovation of Banana peel wastes for the development of novel active food packaging.	CSIR	36 Months	2258600.00
Dr. Priyanka Srivastava	Dr. Raunak Kumar Das	CNBT	Fabrication of sheet nanoemulgel for treating open surface wounds, particularly for subjects presenting delayed wound healing and pressure sores	DBT	12 Months	1048870.00
Dr. Chandra Sekaran N	Dr. Sridharan T B and Dr. John Thomas	CNBT	Essential Oil Nanoemulsion encapsulated Biopolymer as an effective delivery system towards stored pest control.	AICTE	12 Months	200000.00
						Amount received (Rs.):114493512.00



PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Ramesh N	Dr. Sivakumar A	SBST	Bacteriophage Cocktails for the Treatment of Acute Respiratory Infections Caused by MDR ESKAPE Pathogens	ICMR	36 Months	3783990.00
Dr. Ponraj P		SBST	Engineering Conditional Synthetic Signalling between Plant and Rhizosphere Bacteria.	DBT	36 Months	8316000.00
Dr. Prakash Kumar Shukla		CBST	Structural functional and regulatory studies of ubiquitin-conjugating enzymes involved in chromatin modification	DBT-RAMALINGASAMI FELLOWSHIP	36 Months	8316000.00
Dr. Chandra Sekaran N	Dr. Jayakrishna K, Dr. Arulvel S and Dr. John Thomas	CNBT	Preparation and characterization of poly(2-methoxyethyl acrylate)/Nano-hydroxyapatite/ZnO nanocomposite coating for reducing bio-leaching and bio-film formation in SS316L orthopaedic implants	ICMR	12 Months	6146546.00
Dr. Sudha Ramaiah	Dr. Anand A	SBST	Deciphering the efficacy of emerging therapeutic agents against multi-drug resistant ESKAPE pathogens through molecular characterisation, systems and structural biology approaches	ICMR	36 Months	6039362.00
Dr. Nalini E	Dr. Gothandam K.M	SBST	Membrane vesicles of lactobacillus species to treat oral pathogens-an induced cross-talk between the microbiota and oral pathogens	ICMR	36 Months	6032085.00
Dr. Loganathan Rangasamy	Dr. Geetha Manivasagam, Ramesh N, and Dr. Anjaneyulu U	SBST	Design and development of siderophore-macrolide antibiotic conjugates to combat multidrug resistance (MDR) gram-negative bacterial infections	ICMR	36 Months	5268585.00
Dr. Ganesh V	Dr. Gnanasambandan R	SBST	Phosphorylation dependent regulation of Arginine and Glutamine-rich protein 1 (ARGLU1) by P21 activated kinase 1 (PAK1) - a regulatable molecular switch with therapeutic potential in breast cancer	DST-SERB	36 Months	5232120.00
Dr. Renold Elsen S	Dr. Geetha Manivasagam	CBCMT	Anti-thrombotic super-hemophobic surfaces	DST	24 Months	5022900.00
Dr. Chandra Sekaran N	Dr. George Priya Doss C	SBST	Formulation and characterization of diabetic wound healing gauze using PDGF-eugenol nanocomposites for diabetic foot ulcer (DFU) – a 3D bioprinting approach	ICMR	36 Months	4921736.00

Dr. Arunkumar Palaniappan	Dr. Sankar Ganesh D	SBST	3D printed nano-engineered sublingual patch with viral-mimetic nanoparticles for non-invasive delivery of Insulin	ICMR	12 Months	4669785.00
Dr. Senthil Kumar A	Dr. Jayaprakash N S and Dr. Krishnan V	CBST	Development of Rapid and High Sensitivity Electrochemical Covid-19 Diagnosis Platform	ICMR	36 Months	4027320.00
Dr. Amit Kumar Jaiswal	Dr. Arunkumar Palaniappan	CBCMT	Injectable dental biomaterial with osteogenic and antimicrobial properties- an attempt towards indigenization of multifunctional dental biomaterial	ICMR	18 Months	3951000.00
Dr. Ramalingam C	Dr. Senthil Kumar A	SBST	Diffusion-based Time Temperature Indicators for Frozen Foods in the Defence Food Supply Chain	DRDO	36 Months	3741240.00
Dr. Niroj Kumar Sahu	Dr. Arunkumar Palaniappan	CBCMT	Functionalised graphene quantum dots iron oxide formulation for the therapeutic assessment of 3D triple-negative breast cancer model in hyperthermia condition	ICMR	12 Months	3314085.00
Dr. Jitendra Satija	Dr. Senthilkumar S And Debasish Mishra	SBST	Bimetallic plasmonic nanoparticles based ultrasensitive fiber-optic immunosensor for chlamydia trachomatis detection	ICMR	24 Months	3079454.00
Dr. Jitendra Satija	Dr. Senthilkumar S	CNBT	Biocatalytically triggered plasmonic nanoparticle etching based fiber optic immunosensor for early detection of neurodegenerative disease biomarker	DST-SERB	12 Months	3032820.00
Dr. Anjaneyulu U		CBCMT	Click Chemistry Induced Cell-Laden 3D Hydrogel Integrated Orthopaedic Implants to Combat Infections and Osteointegration Failure	SERB-SRG	24 Months	3023372.00
Dr. Naveen Kumar P		SBST	A novel tumor suppressor miRNA-3154 attenuates Pancreatic Ductal Adenocarcinoma (PDAC) through inhibiting Cancer Stem Cells (CSCs) propagation by targeting multiple oncogenic drivers YAP1, KRAS, MYC and RELA	DST-SERB	24 Months	3005247.00
Dr. Sabareesh V		CBST	Immunometabolomics in the quest for comprehending protection and pathogenesis in tuberculosis	ICMR	36 Months	2791000.00
Dr. Ganesh V	Dr. Gnanasambandan R	SBST	Long-term effects of repeated ovulation induction- induced changes in hormone sensitive organs-an experimental study	DBT	36 Months	2733360.00

	Dr. Rohit	SBST	Risk assessment of Increased disinfection practice and its role in mediating the spread of antibiotic resistance	DST-SERB	24 Months	2708782.00
Dr. Kannan P		SBST	Deciphering the role of small RNAs in transposon silencing during male gametophyte development in rice.	DST-SERB	24 Months	2624032.00
Dr. Suthindhiran K	Dr. Jayasri M.A	SBST	Preparation and Evaluation of Wound Dressing Material and Topical Ointment Using Magnetosome Conjugated Lemon Grass Extract (MLGE)	ICMR	24 Months	2511694.00
Dr. Chandra Sekaran N	Dr. Sridharan T B and Dr. Amitava Mukherjee	CNBT	Ecotoxicological studies of micro & nanoplastics, on its vectorization of other pollutants and synergistic impact of nanoplastics and ocean acidification-A microcosm Approach	Ministry of Earth Sciences	36 Months	2477120.00
Dr. Faraz Ahmad	Dr. Siva R	SBST	Neuroprotective effects of agmatine on dysregulation of major matrix metalloproteinase (MMP) isoforms induced by chronic maternal separation in a rodent model of developmental stress	DST-SERB	36 Months	2392250.00
Dr. Anand A	Dr. Sudha Ramaiah	SBST	The effect of acquired bacterial mutations on metabolism and fitness of multi-drug resistant pathogenic bacteria by genomics, systems biology, and machine learning approaches.	ICMR	36 Months	2390076.00
Dr. George Priya Doss C	Dr. Sasikumar K	SBST	Evaluation of an artificial intelligence-based prediction model for identifying causes of acute febrile illness	ICMR	24 Months	2344008.00
Dr. Arunkumar Palaniappan	Dr. Sushma Kumari	CBCMT	Development of Concentration Gradient Microfluidic Needle Patch for Combinatorial Diabetic Therapy	DBT	18 Months	2292498.00
Dr. Dhanasingh Immanuel		CBST	Combating Antimicrobial Resistance (AMR) in Vibrio sp. by targeting vibrio antibiotic resistance (var) regulon: Structural and biochemical characterization of var regulon activator and metallo-beta-lactamase in V. cholerae and V. vulnificus	SERB	36 Months	2253000.00
Dr. Siva R	Dr. Usha S And Rajasekaran C	SBST	Developing a sustainable socio-economy through the restoration of sacred groves of the Malayali community in the Kalrayan hills of South India	IGES-MOEJ, Japan	12 Months	2169826.00

Dr. Balaji Balakrishnan	Dr. Everette Jacob Remington N	SBST	Development of unfolded protein response (UPR) modulated HEK293 cells for improved recombinant Adeno-associated virus (AAV) production	DBT	18 Months	1891213.00
Dr. Satarupa Banerjee		SBST	AI-guided identification and validation of a target for differentiation therapy in colon cancer	DST-SERB	18 Months	1812014.00
Dr. Amit Kumar Jaiswal		CBCMT	Development of Self-feeding hydrogel-based Bio-Ink formulation for 3D bioprinting	DST-SERB	24 Months	1705881.00
Dr. Renold Elsen S	Dr. Sunita Nayak	SBST	Development Of Marine Species-Derived Hydroxyapatite-Based Scaffold Using Robocasting For Bone Regeneration And Targeted Drug Delivery For Orthopaedic-Related Surgical Site Infections	DST-SERB	24 Months	575000.00
						Amount received (Rs.):126595401.00



PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Aravind Selvin Kumar R		SBST	Genetic analysis of congenital anomalies of the kidney and urinary tract mainly identify the FOX C1/P1 and ZMYM2 gene mutation and its effect/role in POLR IIC	DST	60 Months	12360000.00
Dr. Siva R	Dr. George Priya Doss C	SBST	Circulating lineages of Burkholderia pseudomallei from clinical and environmental sources and their direct identification using AI metabolite - MS database.	ICMR	12 Months	4896000.00
Dr. Loganathan Rangasamy		CBCMT	Radiolabeled Fibroblast Activation Protein Inhibitors as Novel Radipharmaeuticals Targeting CAFs	DAE	24 Months	3719300.00
Dr. Sudesh R		SBST	DNA methylation and its associated gene expression signatures in treatment outcomes of Schizophrenia.	ICMR	36 Months	3716440.00
Dr. Kali Kishore Reddy Tetala		CBST	A simple,rapid and affordable vitamin D diagnostic microfluidic strip	ICMR	36 Months	3696463.00
Dr. Sushma Kumari		CBCMT	Biomaterial -based Biomimetic Scaffolds for Tissue Engineering Applications	DST	18 Months	3500000.00
Dr. Gnanasambandan R		SBST	A system-based framework integrating metagenomics-metabolomics data to unravel microbial interactions in urinary tract infection.	ICMR	12 Months	3047222.00
Dr. Amit Kumar Jaiswal		CBCMT	Regulation of epithelial-mesenchymal transition in oral squamous cell carcinoma with an in-vitro model using 3D printed polycaprolactone-collagen scaffold	ICMR	24 Months	2949000.00
Dr. Senthilkumar	Dr. Jitendra Satija	CNBT	Biofunctionalized Mxene based Electrochemical Immunosensor towards Early Detection of Alzheimer's Disease.	ICMR	24 Months	2811832.00
Dr. Chandra Sekaran N		CNBT	Development of a high efficacy antibiotic-loaded in eugenol nanoemulsion as a nano delivery system against multidrug-resistant tuberculosis (MDR-TB)	ICMR	24 Months	2168439.00
Dr. Suneetha V	Dr. Bhaskara Rao K.V and Dr. Dharmendra Kumar Bal	SBST	Evaluation and efficacy of alcohol-free and alcohol-based sanitizers cum aerosols against opportunistic pathogens during pandemic situations	ICMR	12 Months	1829659.00
Dr. George Priya Doss	Dr. Rishin Haldar and Dr. Gnanasambandan R	SBST	Integrated webserver for real-time tracking of genomic evolution and anti-microbial resistance in Mycobacterium tuberculosis.	ICMR	12 Months	1512406.00

Dr. Amit Kumar Jaiswal		CBCMT	Assessment of permeation and toxicity of nanoparticles on polysaccharide-based 3D bioprinted bilayered skin substitute	DST-Indo Austria (WTZ)	12 Months	660000.00
						Amount received (Rs.):46866761.00

**Total Amount (Lacs) Received for the Past 3 Years: 287955674.00**

**Note\*:**

- Only sponsored research projects will be considered. Infrastructure-based projects will not be considered here.

**C8. Consultancy Work**

Table No. C8.1: List of consultancy projects received from external agencies.



PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. P. Arulmozhivarman	Dr. Jeevitha G C	SBST	i-Palate product development	Globally Gi Experiences Pvt Ltd, India	18 Months	4740000.00
Dr. N. Chandrasekaran		CNBT	Test on carbonization on rock samples	Hyper Works Imaging Pvt Ltd.	4 Months	708000.00
Dr. Krishnan V		CBST	Recombinant of Expression of Barley Oxalate Oxidase in Microbial Expression System	Neo Rene Inc, United States of America	12 Months	708000.00
Dr. Nirmala Grace A		SBST	Test on carbonization of rock (Olivine and Basalt) samples	Hyper Works Imaging Pvt Ltd, India	3 Months	519200.00
Dr. N. Chandrasekaran		CNBT	Test on carbonization on rock samples	Hyper Works Imaging Pvt Ltd.	3 Months	519200.00
Dr. Sunita Nayak		SBST	Biocompatibility studies of 3D printed ceramic-clay scaffold towards cost-effective bone tissue repair	Ateneo De Manila University, Philippines	6 Months	509691.00
Dr. Geetha Manivasagam	Dr. Arun Kumar P	CBCMT	Estimation of free thiols in hair samples by Confocal image analysis	Godrej Consumers Products Ltd, India	6 Months	324000.00
Dr. Sankar Ganesh D		SBST	Preparation of semichemical-based formulation for pigs	Magapor S L, Spain	3 Months	267800.00
Dr. Joseph Nathanael A	Dr. Loganathan Rangasamy	CBCMT	Design Synthesis and Optimization	Full Chain Materials Intl Co Ltd, Taiwan	3 Months	262164.00
Dr. Gothandam	Dr. N. Nalini	SBST	Evaluation of carotenoids, antioxidant enzymes, antioxidant compounds, protein, and photosynthetic pigments in stress-treated grape leaves	United Arab Emirates	6 Months	233640.00
Dr. John Thomas		CNBT	Effect of algal feed on rotifers	Shayadri farms	4 Months	188000.00
Dr. S. Karthikeyan		SBST	Purification and characterization of herbal products using Advanced Analytical Techniques	Omni Active Health Technologies, India	12 Months	148680.00
Dr. R. Sudhakaran	Dr. M. Anbalagan	SBST	Detection of pathogens in cell line for cultivated seafood	Umami Bioworks, Singapore	3 Months	147205.00
Dr. Mohanasrinivasan	Dr. Subathradevi	SBST	Gene editing of the virulent gene from E. coli using CRISPR system	Salem Microbes Pvt Ltd, India	6 Months	118000.00
Dr. R. Sudhakaran	Dr. M. Anbalagan	SBST	Confirmation of Anti-WSSV activity of potential bioactive molecules towards commercialisation process	Kyntox Biotech India Pvt LTD, India	3 Months	112100.00
Dr. W. Jabez Osborne		SBST	Disinfection of factory and godown with pre and post treatment	Otto Clothing Pvt Ltd, India	6 Months	88500.00
Dr. Ramesh N		SBST	Screening and validation of compounds against E. Coli and S. aureus	Liquid Cubes Inno Commerce, India	6 Months	66788.00
Dr. Sushma Kumari		CBCMT	Design & Fabrication of the 3D printed scaffolds using BIO-X printer	Healthium Medtech Ltd, India	3 Months	64900.00
Dr. W. Jabez Osborne		SBST	Inhibition of Microbial growth in textile fabrics	Otto Clothing Pvt Ltd, India	8 Months	63900.00
Dr. W. Jabez Osborne		SBST	Application of various formulation for the restriction of microbial growth	Otto Clothing Pvt Ltd, India	8 Months	48500.00
Dr. C. Shanthi		SBST	Fabrication of collagen patch	Healthium Medtech Ltd, India	3 Months	47200.00
Dr. C. Rajasekaran		SBST	Phycoremediation of ETP	Caplin Point Laboratories Ltd, India	3 months	47200.00
Dr. W. Jabez Osborne		SBST	Inhibition of various microbes using selective formulations	Otto Clothing Pvt Ltd, India	10 Months	41300.00
Dr. W. Jabez Osborne		SBST	Inhibition of EHP in Marine Ecosystem	Aarpy Bio Solution, India	12 Months	41000.00

Dr. W. Jabez Osborne		SBST	Inhibition of microbes in textile fabric	Otto Clothing Pvt Ltd, India	6 Months	34692.00
Dr. Anand Prem Rajan		SBST	Design and Implementation of a Real -Time E-waste Management System for Willys Enterprises	Willys Enterprises, India	12 Months	30000.00
Dr. Priyanka Sen		CBST	Observation of the Stability of albumin at different Temperature and buffer Conditions up to 15 days, via UV-Vis Spectroscopy and Fluorescence for Consultancy Fund	Prantae Solutions Pvt Ltd, , India	6 Months	29500.00
						Amount received (Rs.):10109160.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. W. Jabez Osborne		SBST	Studies on microbial community dynamics during pilot/field scale bioremediation explosives	Drdo Cars, India	24 Months	2187034.00
Dr. Arunkumar Pitchaimani		CBCMT	Design and fabrication for Microfluidic device	Molpath Diagnostics Pvt Ltd, India	12 Months	601800.00
Dr. Jayaprakash N S		CBST	Development of prototype biosensor for blood-Insulin analysis - Phase -II	Nanenana Wellness Pvt Ltd, India	5 Months	300000.00
Dr. John Thomas		SBST	Effect of Algal Feed on Rotifers	Sahyadri Farms Post Harves Care Ltd, India	7 Months	188800.00
Dr. Jeevitha G.C	Dr. Siva. R	SBST	Characterisation of fat developed using oil structuring technology	Fattastic Technologies Pvt Ltd, Singapore	6 Months	70000.00
Dr. W. Jabez Osborne		SBST	Eradication of Microbes causing damage in textile garments	Otto Clothing Pvt Ltd, India	3 Months	64300.00
Dr. A. Mohana Priya		SBST	Metabolic Engineering of Corynebacterium glutamicum for hyper production of Citric acid	Wisecorner Laboratories Pvt Ltd, India	1 Month	60000.00
Dr. Jayanthi Abraham		SBST	ETP treatment by phycoremediation-microbes	Solistaa Pharmaceuticals, India	1 Month	50000.00
Dr. Ayaprakash N S		CBST	Production of polyclonal antibodies	Central university of Rajasthan,	3 Months	40120.00
Dr. W. Jabez Osborne		SBST	Antimicrobial activity of Essential Oil	Tuorra, India	3 Months	29500.00
						Amount received (Rs.):3591554.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Kali Kishore Reddy Tetala		CBST	Identification of the efficient dose for tumor regression using PEO dendrimer drug conjugate delivery system	King Abdulla University of Science and Technology KAUST, , Saudi Arabia	7 Months	1638756.00
Dr. Geetha Manivasagam		CBCMT	Design development and surface engineering of additively manufactured low modulus coaxial porous Ti-6Al-4V GYVO (Gyroid and Voronoi) structures for orthopedic application	Tata Steel Limited, India	12 Months	1600000.00
Dr. Jayaprakash N S		CBST	Development of a Prototype biosensor for Blood-Insulin analysis	Nanenana Wellness Pvt Ltd, India	12 Months	600000.00
Dr. Amitava Mukherjee		SBST	Development of Nano silver-based solutions and dressings for application in Wound care.- phase-II	Punit Meditek Pvt Ltd, India	6 Months	472000.00
Dr. Anbalagan M		SBST	Effect of phyto compound PHY-XXI on Nucleolin levels in TAXOL and Cis-Platin resistant HeLa, MCF-7, and MDA-MB231 cell lines	Phyto Specialities Pvt Ltd, India	6 Months	148500.00
Dr. Jayaprakash N S		CBST	Production of polyclonal antibodies	BSBE- IIT, Bombay	3 Months	53100.00
Dr. Renold Elsen S	Dr. Arunkumar Palaniappan	CBCMT	Development of Bioceramic 3D scaffolds by extrusion-based printing technique using Cellink BIOX system.	Altem Technologies pvt ltd, India	3 Months	38822.00
Dr. Jayaprakash N S		CBST	Production of polyclonal antibodies	Lamark Biotech Pvt Ltd, , India	3 Months	23600.00
						Amount received (Rs.):4574778.00

**Total amount (Lacs) received for the past 3 years: 18275492.00**

**Note\*:**

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

**C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work**

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Jeevitha G C	Natural deep eutectic solvents-based extraction of virgin coconut oil and coconut protein	24 Months	3.00	2.55	1 Publication; <a href="https://doi.org/10.1155/2024/4540390">https://doi.org/10.1155/2024/4540390</a>
Dr. Alka Mehta	Development of an anticoagulant peptide	24 Months	3.00	2.55	Publication
Dr. Priti Talwar	Identification of Novel Markers	24 Months	3.00	2.55	Publication
Dr. Mythili S	Microbial exopolysaccharides as prebiotic sources	24 Months	3.00	2.55	Publication
Dr.Sushma kumari	Fabrication of Microneedles for Next-Gen	24 Months	2.80	2.38	Publication
Dr. Dhanya V	Biological synthesis of multifaceted lignin incorporated superparamagnetic nanomaterial	24 Months	2.50	2.13	1 Publication in Journal of Environmental Management DOI- <a href="https://doi.org/10.1016/j.jenvman.2025.126012">https://doi.org/10.1016/j.jenvman.2025.126012</a>
Dr. Anand Prem Rajan	Biodegradable nanoparticles based DNA vaccine development against fish bacterial pathogens	24 Months	2.50	2.12	Publication
Dr. Sangeetha Subramanian	Design and performance evaluation of value-added Mg-biochar Struvite Composite fertilizer	24 Months	2.00	1.70	Publication
Dr. John Thomas	Development of an antibacterial pellet feed for treating bacterial infection in fishes	24 Months	2.00	1.75	Publication
Dr. Kannabiran K	Bioremediation of textile effluents by microbial consortium	24 Months	1.50	1.27	Publication
Dr. Kuntal Pal	Gene expression analysis of Serotonin receptors	24 Months	1.00	0.90	Publication
Dr. Rahul Shaw	Unprecedented high-resolution single-cell 'multiomics' data	24 Months	1.00	0.85	Publication
			Amount received (Rs.): 27.30		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Sankar Ganesh D	Kairomone identification from captive felids	24 Months	5.00	4.25	2 Publication; Doi: 2024 Jan 17;9(4):4986-5001. Doi: 10.3389/fnins.2025.1485312
Dr. Rasool M	Unravelling the therapeutic potential of natural IL-17 inhibitor in resolving psoriasis	24 Months	5.00	4.35	Publication
Dr. Sunantha G	Development of sensor for the early detection	24 Months	5.00	4.25	Publication
Dr. Kannan P	Genetic Engineering Approach to Enhance Nitrogen Use Efficiency	24 Months	4.50	3.82	Publication
Dr. Abul Kalam Azad Mandal	A targeted dual-drug delivery system	24 Months	4.50	3.85	1 Publication- <a href="https://doi.org/10.1016/j.jddst.2024.106411">https://doi.org/10.1016/j.jddst.2024.106411</a> 1 patent Published: Application No - 202541129729
Dr. Kanagavel Deepankumar	Micropatterned suckerin protein biofilm	24 Months	4.50	3.80	Publication
Dr. Shweta R Panchal	Defence priming in tomato plants	24 Months	4.00	3.40	Publication
Dr. Aanchal Mittal	Valorisation of agro-food waste in developing bioactive food packaging film	24 Months	4.00	3.42	Publication
Dr. Naveen Kumar P	A novel tumor suppressor miRNA-3154 attenuates Pancreatic Ductal Adenocarcinoma through CSCs	24 Months	4.00	3.45	Amount of Rs. 3005247 generated from DST-SERB-SRG
Dr. Podili Koteswaraiah	Evaluation of Antioxidant activity and inhibition of AGEs	24 Months	3.50	2.97	Publication
Dr. Devi Rajeswari V	Microneedle patches for the treatment of triple negative breast cancer	24 Months	3.50	2.95	Publication
Dr. Anjaneyulu U	3D Bioprinting Assisted Cell-Laden Hydrogel Implants	24 Months	3.30	2.80	Publication
Dr. Rohit	Tackling prevalence of antibiotic resistant pathogens	24 Months	2.50	2.12	2 Publications
Dr. John Thomas	Development of a marine bioactive feed for treating bacterial infections in shrimps	24 Months	2.00	1.70	Publication
Dr. Krishna Rao Eswar	Inducing Photo and electro active properties onto Porous Immobilized nanomaterials	24 Months	2.00	1.75	Publication
Dr. John Thomas	Development of marine bioactive feed for treating bacterial infections in shrimps	24 Months	2.00	1.69	Publication
Dr. Mridula P	Development of Nano-FE3O4/Allicin chitosan composites	24 Months	2.00	1.70	Publication
			Amount received (Rs.): 61.30		



Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Dr. Arunkumar Palaniappan	MIPs coated CQDs based nanocomposites	24 Months	3.25	2.76	Publication
Dr. Shanthy C	Development of functionalized polyglucuronic acid scaffolds	24 Months	3.17	2.69	1 Publication and 1 master student graduated; doi: 10.1016/j.ijbiomac.2025.145735
Dr. Gothandam K.M	Development of subunit and probiotic vaccine for Tilapia Lake virus infection	24 Months	3.00	2.55	Publication
Dr. Sudesh R	Gut Microbiome Dysbiosis in Schizophrenia and its implication in treatment	24 Months	3.00	2.50	Publication
Dr. Arun Kumar P	Microfluidic Needle Patch For Combinatorial Diabetic Therapy	24 Months	3.00	2.55	Publication
Dr. Sushma Kumari	3D bioprinting of skin substitutes for reconstructive surgery and scarless wound healing	24 Months	3.00	2.55	1 Publication and 2 master students graduated; doi: 10.2174/0113892037291597240429094515.
Dr.Arunkumar Pitchaimani	Microfluidic Needle Patch For Combinatorial Diabetic Therapy	24 Months	3.00	2.50	Publication
Dr. Satarupa Banerjee	Transcriptome profiling and understanding of signaling pathways	24 Months	2.50	2.12	Publication
Dr. Suresh P.K	Process optimization of fusogenic liposomes-based encapsulation	24 Months	2.16	1.83	1 Publication; PMID: 41533315
Dr. Priyankar Sen	A direct method for the early detection of dialysis related amyloidosis (DRA)	24 Months	2.00	1.70	2 Publication 10.2174/0113892037291597240429094515 <a href="https://doi.org/10.1007/s10930-024-10205-0">https://doi.org/10.1007/s10930-024-10205-0</a>
Dr. Kali Kishore Reddy Tetala	Development of a Protein A hybrid porous polymer column for antibody purification	24 Months	2.00	1.75	2 Publications <a href="https://link.springer.com/article/10.1007/s00289-024-05377-9">https://link.springer.com/article/10.1007/s00289-024-05377-9</a> <a href="https://doi.org/10.1016/j.microc.2024.111646">https://doi.org/10.1016/j.microc.2024.111646</a> .
Dr. Gnanasambandan R	and enhancement of neuromelanin in substantia nigra	24 Months	2.00	1.70	Publication
Dr. Ramesh Pathy M	Dual biofuel cell for bioenergy production	24 Months	2.00	1.75	Publication

Dr. Venkat Kumar S	Antipathogenic effect of tin oxide and silver doped tin oxide nanoparticles from fruit	24 Months	2.00	1.70	Publication
Dr. Sivakumar A	Development of first in class novel	24 Months	1.63	1.38	Publication
Dr. Godwin Christopher J	Metabolomic target of pharmaceutical product	24 Months	1.58	1.34	Publication
Dr.Suya Prem Anand P	Biomechanical Evaluation Of Cellular Ss316L Implant	24 Months	1.50	1.27	Publication
Dr. Ayesha Noor	Role of Pinitol from Desmodium gangeticum in the alleviation of diabetes	24 Months	1.50	1.25	NA
Dr. Dhanasingh Immanuel	To combat Antimicrobial Resistance (AMR) in Vibrio cholerae	24 Months	1.50	1.27	1 Publication with DOI: 10.2174/0115748855422349251110071056 Amount generated Rs. 2939330 from SERB
Dr. Priti Talwar	A novel therapy for retinal degenerative diseases.	24 Months	1.50	1.30	Publication
Dr. Faraz Ahmad	The effects of ageing on the neuromodulatory effects of phytochemicals	24 Months	1.50	1.27	6 Publications with Rs. 2392250 generated from SERB.
Dr. Mythili S	Quorum sensing inhibitor-based molecules for biofilm and drug-resistant infections	24 Months	1.50	1.25	7 Publications
Dr. Gayathri M	Optimisation and preclinical evaluation of polyherbal formulation against obesity	24 Months	1.50	1.30	1 Publication in Journal of Molecular Structure <a href="https://www.sciencedirect.com/science/article/abs/pii/S0022286025015984?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S0022286025015984?via%3Dihub</a>
Dr. Rahul Vashishth	Development of Rapid Methodology for the Determination of Flour Stability	24 Months	1.50	1.27	1 Publication <a href="https://doi.org/10.1016/j.toxrep.2024.101727">https://doi.org/10.1016/j.toxrep.2024.101727</a>
Dr. Jeevitha G C	Ultrasound and microwave assisted extraction of pectin	24 months	1.45	1.23	1 Publication; DOI: 10.1080/19476337.2024
			Amount received (Rs.): 52.74		

Total amount (Lacs) received for the past 3 years : 141.34

## PART D: Laboratory Infrastructure in the Department (Data to be filled in for the Department)

### D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Biochemistry Laboratory	3	• UV–Spectrophotometer • PCR • Microscope with PC • Cooling Centrifuge • ELISA Reader	14 hours/week	Mr. Velu R	Sr. Lab Assisi	B.Sc. Zoolog
2	Cell & Molecular Biology Laboratory	3	• Gel Documentation System • UV–Spectrophotometer • Laminar Air Flow • Incubator	30 hours/week	Mr. Babu L	Sr. Lab Assisi	B.Sc. Zoolog
3	Bioprocess Engineering Laboratory	3	• Fermenter • PCR • Sonicator • Incubator Shaker • Cooling Centrifuge • UV	12 hours/week	Mrs. Latha Pr	Lab Technici	M.Sc. Biotecl
4	Downstream Processing Laboratory	3	• Milli-Q Water System • UV–Spectrophotometer • Incubator Shaker • Laminar Air Flow	14 hours/week	Mrs. Latha Pr	Lab Technici	M.Sc. Biotecl
5	Genetic Engineering Laboratory	3	• Cooling Centrifuge • Incubator Shaker • UV–Spectrophotometer • Laminar Air Flow	12 hours/week	Mr. Karthikey	Sr. Lab Assisi	B.Sc., (Chem
6	Microbiology Laboratory	3	• Cooling Centrifuge • Laminar Air Flow • Inverted Microscope • Biot Growth Chamber • CO2	16 hours/week	Mrs. Suganya	Lab Technici	B.Sc. (Zoolog
7	Bioanalytical & Instrumentation Laboratory	3	• Cooling Centrifuge • Laminar Airflow Cabinet • UV–Visible Spectrophotometer • Autoclave	16 hours/week	Dr. Komathi C	Lab Assistant	M.Sc., Ph.D.
8	Immunology Laboratory	3	• Cooling Centrifuge • Laminar Airflow Cabinet • UV–Visible Spectrophotometer • PCR	12 hours/week	Mr. Sureshku	Lab Assistant	M.Sc., Bioche
9	Bioinformatics Laboratory	1	• High Performance Computing - Server • Desktop computers – 70	8 hours/week	Mr. Jeevarath	Lab. Technici	M.Sc. Food S
10	Computational Biology Laboratory	1	• High Performance Computing - Server • Desktop computers – 70	8 hours/week	Mr. Jeevarath	Lab. Technici	M.Sc. Food S

D2. Safety Measures in Laboratories

Table No. D2.1: List of various safety measures in laboratories.

Sr. No	Laboratory Name	Safety Measures
1	Biochemistry, Immunology & Microbiology Laboratories	<ul style="list-style-type: none"> <li>• Chemical handling SOPs followed for reagents, buffers, stains, enzymes, immunological kits, and microbiological media.</li> <li>• Biosafety and aseptic handling procedures followed for microbial cultures, biological samples, and immunological reagents to prevent contamination and exposure.</li> <li>• Electrical safety protocols implemented for spectrophotometers, ELISA readers, centrifuges, incubators, and cooling systems.</li> <li>• Centrifuge balancing and rotor inspection procedures followed to prevent mechanical hazards.</li> <li>• Proper segregation, storage, labelling, and disposal of chemical, biological, and microbiological waste as per institutional guidelines.</li> </ul>
2	Cell & Molecular Biology, & Genetic Engineering Laboratories	<ul style="list-style-type: none"> <li>• UV exposure safety protocols followed during gel documentation and nucleic acid visualization.</li> <li>• Electrophoresis and PCR equipment operated as per approved SOPs to prevent electrical hazards and contamination.</li> <li>• Biological waste, agarose gels, contaminated consumables, and sharps segregated and disposed of as per biosafety regulations.</li> <li>• Emergency eyewash and hand-washing facilities maintained and periodically inspected.</li> </ul>
3	Bioprocess Engineering & Downstream Processing Laboratories	<ul style="list-style-type: none"> <li>• Safe start-up, operation, and shutdown procedures followed for fermenters and downstream processing equipment.</li> <li>• Pressure, temperature, and agitation parameters monitored to prevent equipment malfunction and process hazards.</li> <li>• Electrical safety measures implemented for incubator shakers, pumps, and control systems.</li> <li>• Access restricted to trained personnel during operation of bioprocess equipment.</li> <li>• Emergency contact information and safety instructions displayed prominently.</li> </ul>
4	Bioinformatics & Computational Biology Laboratories	<ul style="list-style-type: none"> <li>• Miniature Circuit Breakers (MCBs) and proper electrical grounding provided for all workstations.</li> <li>• UPS and surge protection systems safeguard computers and servers from power fluctuations.</li> <li>• CCTV surveillance and controlled access ensure laboratory security.</li> <li>• Air-conditioned environment maintained to prevent overheating of computing equipment.</li> <li>• User authentication, antivirus protection, and periodic data backup implemented for computational resources.</li> </ul>

5	Bioanalytical & Instrumentation Laboratories	<ul style="list-style-type: none"> <li>• SOPs displayed and followed for operation of sophisticated analytical instruments.</li> <li>• Electrical grounding, voltage stabilizers, UPS systems, and surge protectors provided for sensitive equipment.</li> <li>• Access to high-value instruments restricted to trained users under technical staff supervision.</li> <li>• Periodic calibration, preventive maintenance, and service validation carried out to ensure safe operation.</li> <li>• Appropriate chemical handling and waste disposal procedures followed during analytical experiments.</li> </ul>
6	Project / Research Laboratories	<ul style="list-style-type: none"> <li>• Risk assessment conducted before initiating project and research activities.</li> <li>• SOPs followed for operation of advanced analytical and molecular biology instruments.</li> <li>• Safe storage, labelling, and handling of chemicals, biological samples, and research materials.</li> <li>• Access to specialized equipment restricted to trained users under faculty supervision.</li> <li>• Compliance with institutional biosafety, ethical, and research safety guidelines ensured.</li> </ul>
7	Scanning Electron Microscope (SEM) Laboratory	<ul style="list-style-type: none"> <li>• Access restricted to trained users and authorized personnel only.</li> <li>• High-voltage and vacuum system safety protocols followed during SEM operation.</li> <li>• Sample preparation and sputter coating procedures carried out using approved SOPs.</li> <li>• Regular maintenance and performance verification conducted by qualified personnel.</li> <li>• Emergency shutdown procedures and equipment operating instructions displayed near the instrument.</li> </ul>

### D3. Project Laboratory/Research Laboratory

**7.5A Availability of Project Laboratories**

The B.Tech Biotechnology program is supported by a dedicated Project Laboratory (SMV 242) established exclusively for final-year undergraduate projects and faculty-guided research activities. The laboratory is equipped with essential wet-laboratory facilities, analytical instruments, computing resources, and relevant software to support experimental investigations, data analysis, prototype development, and innovation-oriented project work.

The laboratory is supervised by a faculty coordinator and supported by trained technical personnel to ensure safe operation, proper maintenance of equipment, and continuous technical assistance. The facility is accessible during regular working hours and beyond, as per institutional norms, enabling students to effectively carry out project and research activities.

**7.5B Availability of Research Laboratories**

The department has established a comprehensive research infrastructure comprising specialized research laboratories distributed across Sir M. Visvesvaraya Building, Technology Tower, and Pearl Research Park. These facilities support interdisciplinary research in molecular biology, biotechnology, bioinformatics, bioprocess engineering, biomaterials, medical biotechnology, computational biology, and allied areas.

Several laboratories have been established and strengthened through externally funded research projects supported by agencies such as DBT, DST, ICMR, and other national and international funding organizations. The funding support has facilitated the procurement of advanced instrumentation, development of specialized research facilities, and enhancement of research capabilities for faculty members, research scholars, and students.

The research laboratories are further supported by centralized advanced instrumentation facilities including Flow Cytometry, HPLC, RT-PCR, Mass Spectrometry, FTIR, SEM-EDAX, Nanodrop Spectrophotometry, Cell Culture Facilities, and other specialized analytical platforms, providing a robust ecosystem for research and innovation.

Table No. 7.5.1 presents the venue-wise list of research laboratories available for academic and research activities.

**Table No. 7.5.1: List of Research Laboratories**

S.No	Name of Research Laboratory	Venue
<b>Sir. M. Vishveshvaraiya Building</b>		
1	Science Innovation and Society Research Laboratory	SMV115
2	Bio-inspired Design Lab	SMVG29A
3	Medical Biotechnology Lab	SMV203
4	Plant Biotechnology Lab	SMV204
5	Fermentation Technology Lab	SMV211
6	Protein Chemistry Lab	SMV104A
7	Laboratory For Integrative Genomics	SMV107
8	Microbial Biotechnology Lab	SMV109A
9	Gene Cloning Technology Lab	SMV117
10	Microbial Molecular Biology Lab	SMV201
11	Fermentation Lab	SMV202
12	Immunopathology lab	SMV215
13	Medical Biological Computing Lab	SMV227
14	Protein Engineering Lab	SMV228
15	Marine Biotechnology & Bioproducts Lab	SMV240
16	Quantitative Biology Lab	SMVG01
17	Medical Informatics Lab	SMVG01A
<b>Technology Tower Building</b>		

18	Cell Culture Lab	TT114
19	Biomedical Genetic Research Lab	TT120
20	Molecular & Microbiology Research Lab	TT121
21	Gene Therapy Lab	TT629
22	Molecular Biology Lab	TT629A
23	Instrumentation Lab	TT634
24	Marine Biotechnology Lab	TT635
<b>Pearl Research Park</b>		
25	Aquaculture Biotechnology Lab	PRP412A
26	Renal Research Lab II	PRP412B
27	Cancer Biology Lab	PRP412C
28	Animal Cell Culture Lab-1	PRP412D
29	Apoptosis & Cell Survival Research Lab	PRP412G
30	Microbiology Lab	PRP412I
31	Structural Biology Lab	PRP412J
32	Biomaterials Lab	PRP412K

#### 7.5C Availability of Centre of Excellence (CoE)

The institution has established specialized Centres of Excellence (CoEs) to promote advanced research, innovation, interdisciplinary collaboration, and technology development in emerging areas of biotechnology. These Centres are equipped with specialized instrumentation, advanced research facilities, computational resources, and domain-specific expertise to support high-quality research and knowledge creation.

The Centres of Excellence provide a dedicated ecosystem for research in areas such as nanobiotechnology, biomaterials, theranostics, bio-separation technologies, bacteriophage research, and infectious diseases. The facilities available within these Centres strengthen the research infrastructure of the department and support academic, translational, and industry-relevant research activities. Table No. 7.5.2 presents the Centres of Excellence available for supporting research, innovation, and advanced project activities.

**Table No. 7.5.2: Centre of Excellence**

S.N.	Centre of Excellence
1	Centre for Nanobiotechnology (CNBT)
2	Centre for Biomaterials, Cellular and Molecular Theranostics (CBCMT)
3	Centre for Bio Separation Technology (CBST)
4	Centre for Advanced Research in Bacteriophage and Infectious Diseases (CARBID)

## PART E: First Year faculty and financial Resources

**(Data to be filled in for the first year course faculty and budget allocation and utilization)**

### E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4=S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) + (NS2*0.2))/RF
2023-24(CAYm2)	5100	255	303	524	136
2024-25(CAYm1)	5160	258	299	529	134
2025-26(CAY)	5280	264	303	545	133

## E2. Budget Allocation, Utilization, and Public Accounting at Institute Level

Table No. E2.1: Budget and actual expenditure incurred at Institute level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Infrastructure Built-Up	3600000000	3575966159	6000000000	5080691444	3400000000	2979960603	1900000000	1585598801
Library	168400000	166736563	164000000	139398711	111500000	97025088	117000000	97121109
Laboratory equipment	1002100000	983602900	1220500000	1033597835	915200000	795598178	680000000	548925435
Teaching and non-teaching staff	4900000000	4819215262	4950000000	4195246836	4300000000	3749579079	3900000000	3208184522
Outreach Programs	2800000	2726445	3100000	2633348	3700000	3155387	2500000	2006476
R&D	1220000000	1209695111	1140000000	969348893	980000000	849973302	720000000	590692932
Training, Placement and	3600000000	356633695	4000000000	343557148	3800000000	335431086	2700000000	220356570
SDGs	6050000000	602202981	5300000000	474096667	4650000000	418201838	4800000000	411382510
Entrepreneurship	3800000	3740650	10000000	9028114	1900000	1673033	1800000	1433619
Others- Students Welfare, Electricity	3350500000	3375827239	3632500000	3021070718	2884000000	2436553384	2655500000	2187732645
<b>Total</b>	<b>15212600000</b>	<b>15096347005</b>	<b>18050100000</b>	<b>15268669714</b>	<b>13441300000</b>	<b>11667150978</b>	<b>10726800000</b>	<b>8853434619</b>

## E3. Budget Allocation, Utilization, and Public Accounting at Program Specific Level

Table No. E3.1: Budget and actual expenditure incurred at program level.

Items	Budgeted in 2025-26	Actual Expenses in 2025-26 till	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till
Laboratory equipment	883921.49	731891.17	6144678.9	5076290.74	4748527.62	2718679.48	3438025.04	2962358.87
Software	730854.09	654589.71	13563.75	12157.19	11242.44	514355.06	1744489.64	724652.81
SDGs	5559037.24	5822755.46	5574700.43	4584293.18	4527736.83	4381480.63	5083101.54	4111876.72
Support for faculty development	497516.74	364071.31	93318.59	105049.6	293427.81	813811.91	782489.57	736556.51
R & D	1448309.19	950459.91	788731.95	793236.47	1012108.83	660386.83	308066.76	653965.35
Industrial Training, Industry expert,	872152.55	179561.11	1018637.47	548058.7	986243.47	845958	1113661.34	1311366.57
Miscellaneous Expenses*	1364223.94	749464.56	2100244.65	1662270.68	1695810.94	881598.23	1453342.52	1373495.01
<b>Total</b>	<b>11356015.24</b>	<b>9452793.23</b>	<b>15733875.74</b>	<b>12781356.56</b>	<b>13275097.94</b>	<b>10816270.14</b>	<b>13923176.41</b>	<b>11874271.84</b>