NATIONAL BOARD OF ACCREDITATION

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

Program Name : Information Technology	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 10717	**Date of Submission**: 12-06-2025

PART A- Profile of the Institute

A1.Name of the Institute: Sanjivani Rural Educational Society's Sanjivani College of Engineering	
Year of Establishment : 1983/1994	Location of the Institute: Sanjivani College Road, opposite Sanjivani Factory, near P.O. Shingnapur
A2. Institute Address:POST:-SHINGNAPUR KOPARGAON DIST:-AHMEDNAGAR	
City:KOPARGAON	State:Maharashtra
Pin Code:423603	Website:www.sanjivanicoe.org.in
Email:PRINCIPAL@SANJIVANICOE.ORG.IN	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Pune
State : Maharashtra	Pin Code: 411007
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **8**
- No. of PG programs: **6**

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	Engineering & Technology	UG	Civil Engineering	1983	--	Civil Engineering
2	Engineering & Technology	UG	Computer Engineering	1990	--	Computer Engineering
3	Engineering & Technology	PG	Computer Engineering	2011	--	Computer Engineering
4	Engineering & Technology	PG	Cyber Security	2021	--	Information Technology
5	Engineering & Technology	PG	Digital Systems	2011	--	Electronics and Telecommunication Engineering
6	Engineering & Technology	UG	Electrical Engineering	2017	--	Electrical Engineering
7	Engineering & Technology	UG	Electronics & Computer Engineering	2020	--	Electronics and Computer Engineering
8	Engineering & Technology	UG	Information Technology	2001	--	Information Technology
9	Engineering & Technology	PG	Machine Design	2004	--	Mechanical Engineering
10	Engineering & Technology	UG	Mechanical Engineering	1983	--	Mechanical Engineering
11	Engineering & Technology	UG	Mechatronics Engineering	2020	--	Mechatronics Engineering

12	Engineering & Technology	UG	Structural Engineering	2020	--	Structural Engineering
13	Engineering & Technology	PG	Structural Engineering	2020	--	Structural Engineering
14	Management	PG	Master of Business Administration	2010	--	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
Civil Engineering	No	Civil Engineering	UG
Mechanical Engineering	No	Mechanical Engineering	UG
Information Technology	No	Information Technology	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

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/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Information Technology	UG	2001 / --	60	Yes	2022	120	2022	F.No. Western/1-10970071185/2022/EOA	Granted accreditation for 3 years for the period (specify period)	2022	2025	3	4

Sanctioned Intake for Last Five Years for the Cyber Security	
Academic Year	Sanctioned Intake
2024-25	120
2023-24	120
2022-23	120
2021-22	60
2020-21	60
2019-20	60

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. Madhuri Aappasaheb Jawale

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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	60	60	60	60
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	120	120	120	60	60	60	60
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	16	15	8	9	13	10
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	16	20	19	10	11	8	4
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	136	156	154	78	80	81	74

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]
2024-25 (CAY)	120	120	16	113.33
2023-24 (CAYm1)	120	120	20	116.67
2022-23 (CAYm2)	120	120	19	115.83

Average [(ER1 + ER2 + ER3) / 3] = 115.28≡ 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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	80.00	81.00	74.00
B=No. of students who graduated from the program in the stipulated course duration	77.00	75.00	58.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 89.07

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(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)

Mean of CGPA or mean percentage of all successful students(X)	7.74	7.87	7.17
Y=Total no. of successful students	136.00	135.00	65.00
Z=Total no. of students appeared in the examination	140.00	139.00	70.00
API [X*(Y/Z)]	7.52	7.64	6.66

Average API[(AP1+AP2+AP3)/3] : 7.27

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	7.97	7.50	8.34
Y=Total no. of successful students	150.00	72.00	78.00
Z=Total no. of students appeared in the examination	150.00	73.00	78.00
API [X * (Y/Z)]	7.97	7.40	8.34

Average API [(AP1 + AP2 + AP3)/3] : 7.90

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	7.76	8.16	7.97
Y=Total no. of successful students	70.00	78.00	76.00
Z=Total no. of students appeared in the examination	72.00	78.00	76.00
API [X*(Y/Z)]:	7.54	8.16	7.97

Average API [(AP1 + AP2 + AP3)/3] : 7.89

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	78.00	76.00	70.00
X=No. of students placed	67.00	68.00	54.00
Y=No. of students admitted to higher studies	3.00	0.00	0.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	89.74	89.47	77.14

Average Placement Index = (P_1 + P_2 + P_3)/3: 85.45 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 date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. Madhuri Aappasaheb Jawale	XXXXXXX51A	Ph.D	SJJTU Rajasthan	Natural Language Processing	11/12/2008	16.5	Assistant Professor	Professor	02/07/2018	Regular	Yes		Yes
2	Mr. Anand Achyutrao Barbind	XXXXXXX38N	M.E.	SRTMU NANDED	Distributed System	03/09/1998	26.9	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Mr. Rajendra Namdev Kankrale	XXXXXXX75D	M.E.	BAMU Aurangabad	Deep Learning	17/08/2004	20.9	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Dr. Chetan Daulatrao Bawankar	XXXXXXX04J	Ph.D	Oriental University Indore	Blockchain	10/08/2015	9.9	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Dr. Nikhil Subhash Patankar	XXXXXXX97Q	Ph.D	Madhyanchal Professional University Bhopal	Internet of Things	09/06/2015	9.11	Assistant Professor	Associate Professor	01/07/2024	Regular	Yes		No
6	Dr. Rohit Ravindra Nikam	XXXXXXX60G	Ph.D	Oriental University Indore	Big Data Security	14/07/2008	16.10	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mr. Umesh Balasaheb Sangule	XXXXXXX31J	M.E.	SPPU Pune	Data Science	17/01/2023	2.4	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr. Muthuraj Subramani	XXXXXXX72F	M.Tech	PRIST University, Thanjavur, Tamilnadu	Artificial Intelligence	27/06/2022	2.11	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. Rameshwar Dadarao Chintamani	XXXXXXX26K	Ph.D	Madhyanchal Professional University Bhopal	Machine Learning	01/07/2008	16.11	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Dr. Yogesh Sureshrao Deshmukh	XXXXXXX51P	Ph.D	Madhyanchal Professional University Bhopal	Machine Learning	22/07/2013	11.10	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. Sachin Hausheeram Darekar	XXXXXXX22M	M.E.	Mumbai University	Cloud Computing	31/08/2024	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No

12	Ms. Kanchan Dilip Patil	XXXXXXX35E	M.E.	Mumbai University	Machine Learning/ Learning Analytics	22/12/2014	10.5	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr. Prasad Raghunath Mutkule	XXXXXXX36Q	M.E.	SPPU Pune	Machine Learning	08/11/2021	3.6	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Dr. P. William	XXXXXXX48G	Ph.D	MATS University Raipur.	Machine Learning	05/07/2021	3.10	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Mr. Nitin Laxman Shelake	XXXXXXX13H	M.E.	SPPU Pune	Software Engineering	07/03/2022	3.2	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Ms. Megha Shriram Kurhe	XXXXXXX31C	M.E.	SPPU Pune	Data Structure & Web Development	18/03/2022	3.2	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Ms. Bhakti Bhagwat Pawar	XXXXXXX17G	M.E.	SPPU Pune	Advanced Databases	09/01/2023	2.4	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Ms. Prajakta Ghanshamrao Thakare	XXXXXXX73L	M.Tech	COEP Technological University Pune	Data Science	09/08/2024	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Dr. Mahendra B. Gawali	XXXXXXX74A	Ph.D	Mumbai University	Cloud Computing	18/07/2008	15.11	Assistant Professor	Associate Professor	01/06/2022	Regular	No	29/06/2024	No
20	Dr. Devyani Panditrao Bhamare	XXXXXXX10L	Ph.D	SJJTU Rajasthan	Machine Learning	27/06/2006	17.5	Assistant Professor	Assistant Professor		Regular	No	15/12/2023	No
21	Mr. Dinesh Kumar Krishnamoorthy	XXXXXXX39G	M.E.	ANNA University Coimbatore	AIML	27/06/2022	0.11	Assistant Professor	Assistant Professor		Regular	No	31/05/2023	No

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(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	132	132	66
UG1.C	132	66	66
UG1.D	66	66	66
UG1: Information Technology	**330**	**264**	**198**
PG1.A	6	18	18
PG1.B	18	18	18
PG1: Cyber Security	**24**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	354	300	234
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)	**S1=** 354	**S2=** 300	**S3=** 234
DF=Total no. of faculty members in the Department	18	17	17
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)	**F1=** 18	**F2=** 17	**F3=** 17
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 22.13**	**SFR2= 20.00**	**SFR3= 15.60**
Average SFR for 3 years	**SFR= 19.24**		

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 x [(10X + 4Y) / RF)]
2024-25(CAY)	7	11	17.00	16.76
2023-24(CAYm1)	6	11	14.00	18.57
2022-23(CAYm2)	6	11	11.00	23.64

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = 1/9 * 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 * 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 * 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
2024-25	1.00	1.00	3.00	1.00	11.00	16.00
2023-24	1.00	1.00	3.00	1.00	10.00	15.00
2022-23	1.00	1.00	2.00	1.00	7.00	15.00
Average	RF1=1.00	AF1=1.00	RF2=2.67	AF2=1.00	RF2=9.33	AF2=15.33

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	Mr. Amol Rokade	FullStack Web Developer & Senior Laravel Specialist	BTC Power, USA	Skill based Credit Course	50.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Milind Adpaiker	Architect at ConnectWise	Connectwise Canada	Skill based Credit Course	50.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Milind Adpaiker	Architect at ConnectWise	Connectwise Canada	Skill based Credit Course	50.00
2	Ms. Nidhi Ruparel	x	x	x	50.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	27	7	13
2	No. of peer reviewed conference papers published	38	23	16
3	No. of books/book chapters published	10	7	2

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: NIL
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.

(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. M. A. Jawale	Dr. Y. S. Deshmukh	Vijaysingh Mohite Patil Nursing College, Akluj	Website for Nursing College	Vijaysingh Mohite Patil Nursing College, Akluj	3 Months	15340.00
Dr. Y. S. Deshmukh	Dr. D. P. Bhamare	Website for Om Sai Packaging Industry	Website for Om Sai Packaging Industry	Website for Om Sai Packaging Industry	6 Months	24780.00
Dr. M. A. Jawale	Dr. Y. S.Deshmukh Mr. N. L. Shelake	Sanjivani Pharmacy College, Kopargaon	Website for Sanjivani Pharmacy College	Sanjivani Pharmacy College, Kopargaon	6 Months	60000.00
Dr. M. A. Jawale	Miss. K. D. Patil	Sanjivani Group of Institues, Kopargaon	Software for Account Section	Sanjivani Group of Institues, Kopargaon	6 Months	25000.00
Dr. M. A. Jawale	Miss. K. D. Patil	Sanjivani Group of Institues, Kopargaon	Software for Student Section	Sanjivani Group of Institues, Kopargaon	6 Months	43000.00
Dr. Y. S. Deshmukh	Dr. R. D. Chintamani	Gurukrupa Agro Mall, Akole	Stock and Invoice management System	Gurukrupa Agro Mall, Akole	3 Months	29500.00
Dr. N. S. Patankar	Dr.Y.S.Deshmukh	Sanjivani Group of Institues, Kopargaon	IOT based water level Monitoring system	Sanjivani Group of Institues, Kopargaon	1 Year	194000.00
						Amount received (Rs.):391620.00

(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. Y. S. Deshmukh		R.V. Steel Akole	Website for R.V. Steel Akole	R.V. Steel Akole	3 Months	25960.00
Mr. N. L. Shelke		AmrutVrushti Pvt Ltd, Yeola	Website for AmrutVrushti Pvt Ltd, Yeola	AmrutVrushti Pvt Ltd, Yeola	3 Months	14160.00
Dr. M. A. Jawale	Miss. K. D. Patil	Sanjivani Group of Institutes	Website for Sanjivani Junior College	Sanjivani Group of Institutes	3 Months	23000.00
						Amount received (Rs.):63120.00

(CAYm3)

Total amount (Lacs) received for the past 3 years: 454740.00
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
Mr.U.B.Sangule	Two Wheeler Surround Awareness system(2WSAS)	12 months	0.27	0.27	Hackathon Participation
Dr.M.A.Jawale	IEEE Annual membership FEE	12 months	0.13	0.13	Paper Publication Research Activity
			Amount received (Rs.): 0.40		

(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.N.S.Patankar	IOT BASED WATER MONITORING SYSTEM	12 months	0.30	0.30	Project Competition/Paper Publication
Dr.N.S.Patankar	RFiD BASED SMART GATE PASS SYSTEM	12 months	0.31	0.31	Project Competition/Paper Publication
Dr.M.A.Jawale	IEEE Annual membership FEE	12 months	0.11	0.11	Paper Publication Research Activity
Dr.M. B. Gawali	Indo German Managerial Training Program organised by CII,New Delhi	3 days	0.06	0.06	Certificate
			Amount received (Rs.): 0.78		

(CAYm3)

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.M.B.Gawali	International Journal of Intelligent Robotics and Application Springer	6 Months	0.05	0.05	SCI Paper Publication
Dr.M.A.Jawale	IEEE Annual membership FEE	12 months	0.10	0.10	Paper Publication Research Activity
Dr.N.S.Patankar	Intelligent water level monitoring and water pump controlling system using IOT	12 Months	0.29	0.29	Project Competition/Paper Publication
Mr.R.D.Chintamani	Module 2: Professional Ethics and Sustainability	06 months	0.02	0.02	Certification
Ms.K.D.Patil	NITTR Course Fee and NPTEL Registration Fee	12 months	0.03	0.03	Certification
Mr.R.N.Kankarale	NPTEL Registration Fee	06 months	0.02	0.02	Certification
			Amount received (Rs.): 0.51		

Total amount (Lacs) received for the past 3 years : 1.69

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	Programming Lab III (302)	1	Lenovo Desktop PC (23 quantity)	20 Hrs	Mr. Mahesh Chaudhary/M	Lab Assistant	Diploma in Maintenance 8
2	Web Technology Lab - I	1	Smart Screen, WAP, UPS, Audio System	30 Hrs	Mr. Mahesh Chaudhary/M	Lab Assistant	Diploma in Maintenance 8
3	Programming Lab-I (304)	1	HP 600 G2 Desktop i7 7th GEN 8GB RAM, 512 GB HDD(SSD) 18.5" monitor (26 Quantity)	16 Hrs	Mr. Mahesh Chaudhary/M	Lab Assistant	Diploma in Maintenance 8
4	Programming Lab II (305)	1	Zenith ssps HM65/Core I3 R 330MC(2.2Ghz/INTEL System, 2 GB RAM,320 GB HDD Keyboard and Mouse	16 Hrs	Mr. Avinash Kisanrao Baja	Technical Assistant	Diploma in Electronics & 1
5	Network Lab (306)	1	HP Z 230 PRO SSF Workstation, Intel Xeon Processor E3-1220v3,8M Cache, Intel core i7 4th 4 core CPU, SSD 120 GB, 512 MB Graphic Card	20 Hrs	Mr. Jai Gosavi, Mr. Avinas	Technical Assistant	Diploma in Electronics & 1
6	Language Lab (307)	1	ASUS Intel Core i5, 16 GB RAM, 1 TB HDD, 18.5" Monitor, Keyboard, and Mouse	30 Hrs	Mr. Jai Gosavi, Mr. Avinas	Technical Assistant	Diploma in Electronics & 1
7	Hardware Lab-(403)	4	Digital Trainer Kit	16 Hrs	Mr. Avinash Kisanrao Baja	Technical Assistant	Diploma in Electronics & 1
8	Web Technology Lab - II	1	Smart Screen, WAP, UPS, Audio System	30 Hrs	Mr. Jai Gosavi, Mr. Avinas	Lab Assistant	Diploma in Maintenance 8

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Programming lab-III	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.
2	Web Technology Lab - I	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.

3	Programming lab-I	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.
4	Programming lab-II	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.
5	Network Lab	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.
6	Language Lab	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.
7	Hardware Lab	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.
8	Web Technology Lab - II	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.
9	Project Lab	Basic safety measures 1. Fire Extinguisher are available in department 2. Electrical wires protected by MCB, RCBO and fuses 3. First Aid Box is available in department 4. Water and sand-bucket are available 5. Earthing has been done for electrical outlet Lab specific safety measure 1. The student must check the computer unit and its peripherals attached before using it. The student must immediately inform the instructor if there is any defect, error or damage observed at the computer (hardware/software). 2. CCTV camera attached in all labs 3. Face detection HIK-vision laboratory lock facility is implemented for each laboratory 4. Student's login / logout register is maintained in all laboratories. 5. Every laboratory keeps a stock register that lists all the equipment that has ever been used there. 6. Avoiding the use of cell phones. 7. Permission is denied for pen drives. 8. Before leaving the lab, make sure all computers are properly switched off.

D3. Project Laboratory/Research Laboratory

A. Availability of project laboratories/research laboratories:

Project Laboratory is available which provides following facilities -

- Developing major and minor projects.
- Project Laboratory provides a place where the students can make projects while working in groups.
- Project Laboratory equipped with all facilities such as computers with good configuration, Internet Facility, UPS for power backup and ICT tools.
- Students and staff are utilizing Project Lab for consultancy work, Intellectual Property Rights (IPR), Hackathon competition practice, IoT project development and skill-based credit course tasks.
- Students are trained and encouraged to use tools and platforms to enhance their technical   competency, collaborative skills, and project development capabilities.
- Tools and platforms are available such as   Turnitin service for plagiarism checking, Jira, GitHub, Bitbucket, MySQL, MongoDB, AWS services etc.
- It is also used to access the various literature journals required to prepare their seminar topics and various other purposes.

Figure 7.5.1 Inside of view of Project Laboratory- lecture delivery on project guidelines	*Figure 7.5.2 Outside of view of Project Laboratory*

Table No. 7.5.1: List of project laboratory

Sr. No.	Name of the Laboratory
1.	Project Laboratory

Table No. 7.5.2: Project Laboratory cost and Area

Laboratory Name	Area	Total Cost
Project Laboratory	66 m^2	22,31,132 /-

Table 7.5.3: Project Laboratory Equipment List

Sr. No.	Name of Equipment	Qty. Available	Cost

No.	Item	Qty	Amount
1.	IBM SERVER INTEL XEON SERVER IBM INTEL Xeon cpu/quad Core 4 GB DDR RAM ,146 GB Hard Disk , Sas Keyboard ,Mouse,DVD ROM ,18.5" TFT Model NO:738175	02	1,98,000/-
2.	Zenith smart style pc Core 13 2330m ,2GB DDR3,320 GB HDD	09	2,58,750/-
3.	Zotec Nvidia pc	01	45,675/-
4.	Lenovo All-in-One Pc	05	2,24,438/-
5.	Clustor Node Laptop	01	52,222/-
6.	Acer Veritron Desktop PC core i7 / 8GB/1TB	20	11,63,480/-
7.	Dell Latitude 5490 core i7 8th Gen 8 GB 512 GB	1	33,040/-
8.	PROJECTOR SONY LCD MODEL UPL EL-5 SR NO-705549	01	38,250/-
9.	PRINTER Canon Laser-2900	01	6,500/-
10.	PRINTER Canon Laser-2900	01	6,300/-
11.	PRINTER EPSON LX-300+	02	20,000/-
12.	DLP Projector	01	37,000/-
13.	Projectorx-31 Epson	01	37,700/-
14.	Printer Epson LQ-300	01	12,154/-
15.	PRINTER Canon Laser-2900	1	19,470/-
16.	UPS APC-750V A	02	13,520/-
17.	Furniture	30	37,500/-
18.	Switch 24 port , patch panel 24 port	1	14,750/-
19.	Switch 8 port	1	2183/-
20.	Scanner I ball Barcode Ls-T71	01	5,900/-
21.	Scanner	01	4,300/-
			Total= 22,31,132/-

Table 7.5.3: E-library/Digital Library Details

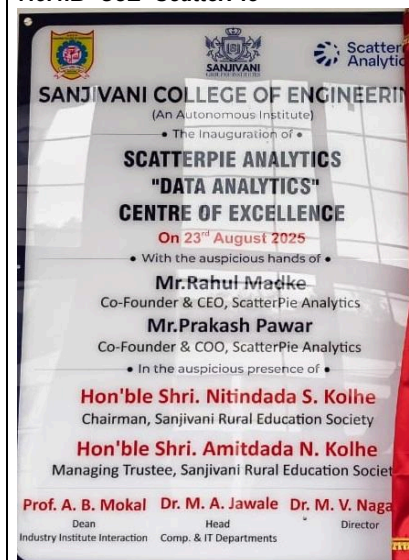| Sr. No.	E-library/Digital Library Details	URL
1.	National Digital Library of India	https://ndl.iitkgp.ac.in/ (https://ndl.iitkgp.ac.in/)
2	Elsevier, Science Direct	https://www.sciencedirect.com (https://www.sciencedirect.com) https://www.sciencedirect.com/browse/journals-and-books (https://www.sciencedirect.com/browse/journals-and-books)
3.	E-Books SPRINGER	https://link.springer.com/ (https://link.springer.com/)
4.	IEEE Explore	https://ieeexplore.ieee.org/browse/periodicals/title (https://ieeexplore.ieee.org/browse/periodicals/title)
5.	Institute of Engineers (India)	www.ieindia.org (http://www.ieindia.org)
6.	NPTEL (on-line & off-line database)	https://nptel.ac.in/ (https://nptel.ac.in/) http://onlinecources.nptel.ac.in/ (http://onlinecources.nptel.ac.in/)

B. Availability of Centre of Excellence

Following are the facility providing training and the dissemination of advanced knowledge.

1. Celebal
2. Virtusa
3. SAP
4. ScatterPie Analytics

7.5.1.B-SAP Training Programme

7.5.2.B-Celebal Internship Certification

7.5.3.B-CoE - Celebal	7.5.4.B- CoE- ScatterPie

C. Utilization of project laboratories/research laboratory /Centre of excellence

Students utilize project laboratories to carry out their project related work on all working days, from 09:30am to 5.40pm.

Table 7.5.4: Types of Major Projects Developed

Academic Year	Number of Projects	Domain/Area	Outcome
2022-2023	22	AIML, Cyber Security, Cloud, IoT	3 Publications
2023-2024	15	AIML, Cyber Security, Cloud, IoT	31 Publications
2024-2025	17	AIML, Cyber Security, Cloud, IoT	Copyrights

Table 7.5.5: Types of Skill-Based Projects Developed

Academic Year	Number of Projects	Domain/Area	Outcome
2021-2022	13	Web Technology	Project
2022-2023	10	Web Technology	Project
2023-2024	10	Web Technology	Project
2024-2025	20	Web Technology	Consultancy

Table 7.5.6: Types of Minor Projects Developed

Academic Year	Number of Projects	Domain/Area	Outcome
2023-2024	24	Web Technology	Consultancy
2024-2025	29	Android	Consultancy

- ***IoT Project Details***

Figure 7.5.3 -Inauguration of IoT Based Smart Sprinkler Switching Using Mobile App for Campus Lawn on 26th January 2023
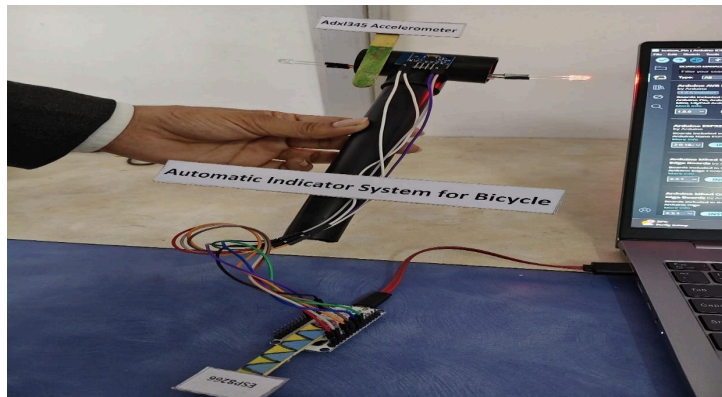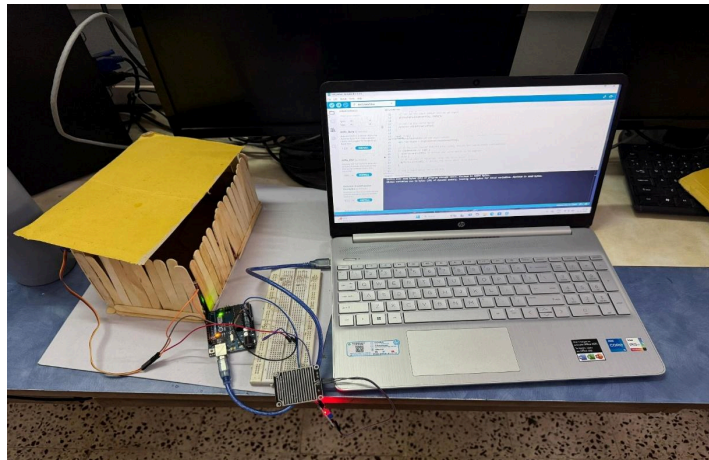
Figure 7.5.4 - An IoT based Wireless Printer

Figure 7.5.5- An IoT based Automatic Indicator System for Bicycles.

Figure 7.5.6 - An IoT based Rain Water Identification for Crop Storage.

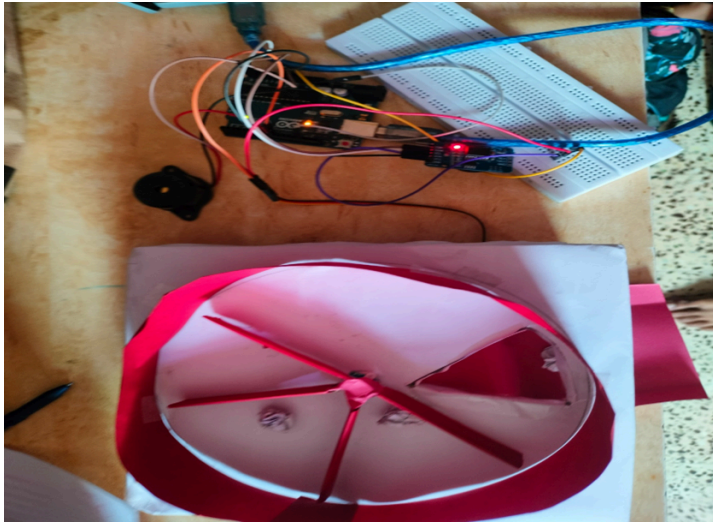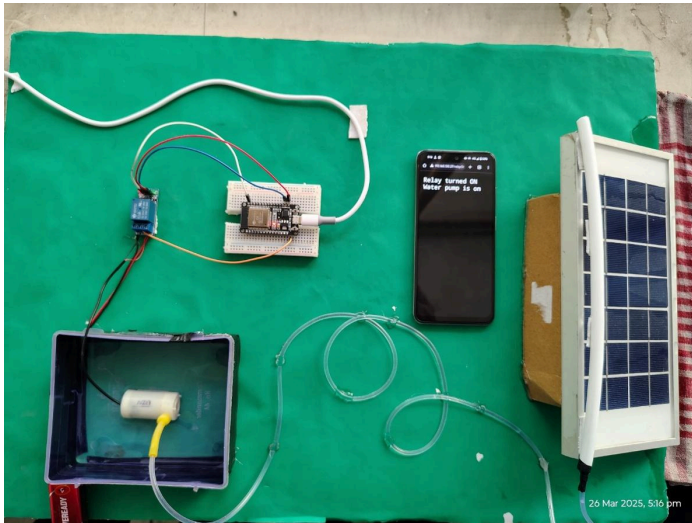Figure 7.5.7 - An IoT based Smart Medicine Pill Dispenser

Figure 7.5.8 - An IoT based Smart Water Drip System using Solar Energy

- Hackathon Details

Figure 7.5.9 - Smart India Hackathon 2024 National Winner

Figure 7.5.10 - Bosch Road Safety Hackathon and Virtusa Jatayu competition

Figure 7.5.11-Innovera Hackathon-25

Figure 7.5.12 - Bosch Road Safety Hackathon-Borosa 2

Figure 7.5.13 - Cybage TechFest

Table 7.5.7: Relevance to POs/PSOs

Relevance through Project Lab and Centre of Excellence (Celebal Lab, Virtusa, SAP etc)	POs / PSOs
Students get practical exposure to development platforms like Raspberry Pi, Arduino, ESP32, and various IoT sensors and modules.	PO1 – Engineering Knowledge
Students design and develop prototypes in project labs	PO3 – Design / Development

Celebal and project Lab enable simulation, modelling, and analysis using Power BI / Tableau	PO4 – Investigations
Project lab exposes students to cutting-edge software and hardware like UiPath RPA	PO5 – Modern Tool Usage
Projects address real-world societal and environmental problems	PO6 & PO7 – Societal & Environmental Context
Project labs support projects in AIML, IoT, cybersecurity, etc.	PSO1 – Domain-Specific Solutions
CoEs provide exposure to latest technologies like Android, web Technology, ML, Cloud, IoT	PSO2 – Application of Emerging Technologies
Project lab encourages product thorough Skill based course, Minor Project	PSO3 – Innovation & Entrepreneurship

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
2022-23(CAYm2)	720	36	16	33	54
2023-24(CAYm1)	720	36	16	40	58
2024-25(CAY)	720	36	16	42	59

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Infrastructure Built-Up	0	0	0	0	0	0	0	0
Library	3500000	3937591	3200000	99407	1350000	745600	1450000	560856
Laboratory equipment	12025000	14869861	9065000	3314591	22200000	4233210.88	17150000	8375948.12
Teaching and non-teaching staff salary	335500000	311000758	329166000	305772300	358250000	275056400	265126000	254086781
Outreach Programs	1080000	1360441	500000	2441005	700000	325719	1040000	51280
R&D	1200000	1735235	4815000	2740765	1000000	767081	2000000	387205

Training, Placement and Industry linkage	5200000	10550239	3600000	11889536	9000000	7503419	2500000	648796
SDGs	487000	895443	150000	163719	500000	610397	1000000	2718902
Entrepreneurship	1100000	1888869	1500000	4301320	750000	6003059	725000	818365
Others, specify	177837992.30	195876429	186207000	275530913	140997000	283292168.12	140398000	160388587.88
Total	**537929992.30**	**542114866**	**538203000**	**606253556**	**534747000**	**578537054.00**	**431389000**	**428036721.00**

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 2024-2025	Actual Expenses in 2024-2025 till	Budgeted in 2023-2024	Actual Expenses in 2023-2024 till	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till
Laboratory equipment	1835000	2675671	1100000	894600	1000000	1102180	1500000	25960
Software	0	390414	0	213122.54	150000	384691.20	0	3965.11
SDGs	0	24707.74	150000	21337.67	10000	66098.43	270000	271623.90
Support for faculty development	75000	323883.20	0	318138.74	80000	35271.33	100000	5122.98
R & D	50000	56528.88	100000	357206.77	100000	76632.97	200000	38682.58
Industrial Training, Industry expert, Internship	15000	160537.00	100000	18418.64	100000	47920.52	25000	14986.51
Miscellaneous Expenditure	425000	261012.00	250000	187171.00	560000	216425	1005000	1136315
Total	**2400000**	**3892753.82**	**1700000**	**2009995.36**	**2000000**	**1929219.45**	**3100000**	**1496656.08**