NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electronics and Telecommunication Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 2
Application No: 11451	**Date of Submission**: 29-01-2026

PART A- Profile of the Institute

A1.Name of the Institute: Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati	
Year of Establishment : 2000	Location of the Institute: Baramati
A2. Institute Address:Vidyanagari, Bhigwan Road, Baramati, Dist. Pune : 413 133, MAH, India	
City:Pune	State:Maharashtra
Pin Code:413133	Website:http://www.vpkbiet.org
Email:principal.vpkbiet@vidyapratishthan.com	Phone No(with STD Code):02112-239500
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Savitribai Phule Pune University Pune	City: Pune
State : Maharashtra	Pin Code: 413133
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: **7**
- No. of PG programs: **7**

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	Artificial Intelligence and Data Science	2020	--	Artificial Intelligence and Data Science
2	Engineering & Technology	PG	Artificial Intelligence and Data Science	2020	--	Computer Engineering
3	Engineering & Technology	UG	Civil Engineering	2006	--	Civil Engineering
4	Engineering & Technology	UG	Computer Engineering	2000	--	Computer Engineering
5	Engineering & Technology	PG	Computer Engineering	2010	2020	Computer Engineering
6	Engineering & Technology	PG	Design Engineering	2012	2020	Mechanical Engineering
7	Engineering & Technology	PG	Digital Systems	2010	2020	Electronics and Telecommunication Engineering
8	Engineering & Technology	UG	Electrical Engineering	2010	--	Electrical Engineering
9	Engineering & Technology	UG	Electronics and Telecommunication Engineering	2000	--	Electronics and Telecommunication Engineering
10	Engineering & Technology	PG	Energy Engineering	2011	2019	Mechanical Engineering
11	Engineering & Technology	UG	Information Technology	2000	--	Information Technology
12	Engineering & Technology	UG	Mechanical Engineering	2002	--	Mechanical Engineering
13	Engineering & Technology	PG	Robotics & Automation	2020	--	Mechanical Engineering
14	Engineering & Technology	PG	Structural Engineering	2012	--	Civil Engineering

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
Electronics and Telecommunication Engineering	Yes	Electronics and Telecommunication Engineering	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)

Allied Department/Cluster Name	Program Name	Program Level
Artificial Intelligence and Data Science	Artificial Intelligence and Data Science	UG

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/COMP AUTHORITY ARROVAL DE
1	Electronics and Telecommunication Engineering	UG	2000 / --	60	No	NA	60	2000	740-89-037(NDEG)/E

List of the Allied Departments/Cluster and Programs:

SR.NO.	ALLIED DEPARTMENT NAME	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	AI AU DE
1	Artificial Intelligence and Data Science	Artificial Intelligence and Data Science	UG	2020 / --	60	Yes	2025	300	2025	F.N 44

Sanctioned Intake for Last Five Years for the Artificial Intelligence and Data Science	
Academic Year	**Sanctioned Intake**
2025-26	300
2024-25	120
2023-24	120
2022-23	60
2021-22	60
2020-21	60

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

A. Name of the HoD :	Dr. Rangole Jyoti Sanatkumar
B. Nature of appointment:	Regular
C. Qualification:	M.Tech and 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)	60	60	60	60	60	60	120
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	60	60	60	60	59	51	84
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	9	11	9	12	22	30
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	7	9	8	8	9	8	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	67	78	79	77	80	81	114

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)	60	60	7	111.67
2024-25 (CAYm1)	60	60	9	115.00
2023-24 (CAYm2)	60	60	8	113.33

Average [(ER1 + ER2 + ER3) / 3] = 113.33≡ 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).	80.00	82.00	150.00
B=No. of students who graduated from the program in the stipulated course duration	65.00	63.00	104.00
Success Rate (SR)= (B/A) * 100	81.25	76.83	69.33

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 75.80

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)	8.48	6.12	7.13
Y=Total no. of successful students	65.00	68.00	59.00
Z=Total no. of students appeared in the examination	69.00	68.00	68.00
API [X*(Y/Z)]	7.99	6.12	6.19

Average API[(AP1+AP2+AP3)/3] : 6.77

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)	7.10	7.50	6.83

Y=Total no. of successful students	71.00	64.00	69.00
Z=Total no. of students appeared in the examination	79.00	68.00	77.00
API [X * (Y/Z)]	6.38	7.06	6.12

Average API [(AP1 + AP2 + AP3)/3] : 6.52

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)	8.05	7.80	7.10
Y=Total no. of successful students	60.00	68.00	66.00
Z=Total no. of students appeared in the examination	64.00	69.00	72.00
API [X*(Y/Z)]:	7.55	7.69	6.51

Average API [(AP1 + AP2 + AP3)/3] : 7.25

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	72.00	82.00	150.00
X=No. of students placed	48.00	35.00	66.00
Y=No. of students admitted to higher studies	2.00	2.00	8.00
Z= No. of students taking up entrepreneurship	0.00	1.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	69.44	46.34	49.33

Average Placement Index = (P_1 + P_2 + P_3)/3: 55.04 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)
1	Dr. Shastri Rajveer Kushaldev	XXXXXXX47C	M.E. and Ph.D.	SRTMU Nanded	Electronics Engineering	07/07/2003	22.6	Lecturer	Professor	17/01/2017	Regular
2	Dr. Patil Balasaheb Hanumantrao	XXXXXXX20J	M.E. and Ph.D.	SPPU Pune	Electronics and Telecommunication	10/07/2006	19.6	Lecturer	Associate Professor	01/01/2024	Regular
3	Deshmukh Vikas Uttamrao	XXXXXXX88D	M.E.	Gulberga University	Communication System	25/06/2005	20.7	Assistant Professor	Assistant Professor		Regular
4	Dr.Arotale Parshuram Narayan	XXXXXXX68G	M.E. and Ph.D.	Wichita State University, Wichita, USA	Biomedical Engineering	08/07/2009	16.6	Lecturer	Assistant Professor		Regular
5	Biradar Shashank Devidas	XXXXXXX85L	M.Tech	SRTMU Nanded	Electronics	13/09/2010	15.4	Lecturer	Assistant Professor		Regular
6	Piske Rohit Shivaji	XXXXXXX02J	M.Tech	VJTI Mumbai	Electronics Engineering	16/12/2016	9.1	Assistant Professor	Assistant Professor		Regular
7	Mrs. Manali Ranjeet Kate	XXXXXXX94Q	M.E.	SPPU Pune	Digital System	31/08/2023	2.4	Assistant Professor	Assistant Professor		Regular

8	Sabale Snehal Rajendra	XXXXXXX82F	M.E.	SPPU Pune	Digital Systems	30/08/2023	2.4	Assistant Professor	Assistant Professor		Regular
9	Prabir Ghosh	XXXXXXX90P	M.Tech and Ph.D.	KIIT, Bhubaneswar	Electronics	19/08/2025	0.5	Assistant Professor	Assistant Professor		Regular
10	Surwase Varsha Sunil	XXXXXXX62C	M.E.	Dr. BAMU , Ch.Sambhajinagar	Electronics Engineering	01/08/2007	18.5	Lecturer	Assistant Professor		Regular
11	Mayur Shivaji Gawade	XXXXXXX91Q	M.Tech	SPPU Pune	Telecomm Systems	30/08/2023	2.4	Assistant Professor	Assistant Professor		Regular
12	Dr. Madan Mohan Jadhav	XXXXXXX47P	M.Tech and Ph.D.	Shri J..J. T. University, Jhunjhunu	Electronics and Communication Engineering	26/08/2011	14.5	Assistant Professor	Assistant Professor		Regular
13	Nirvikalptia Sashank Biradar	XXXXXXX22G	M.E.	Dr. B.A.M.U Aurangabad	Electronics Engineering	30/08/2024	1.4	Assistant Professor	Assistant Professor		Regular
14	Dr. Rangole Jyoti Sanatkumar	XXXXXXX28Q	M.Tech and Ph.D.	SRTMUN Nanded	Electronics Engineering	14/01/2005	21	Lecturer	Associate Professor	31/08/2023	Regular
15	Dr. Lande Sudhir Bapuraoji	XXXXXXX67C	M.Tech and Ph.D.	RTM Nagpur University	Electronics and Telecommunication	16/12/2016	9.1	Professor	Professor	16/12/2016	Regular
16	Dr. Avinash Nayak	XXXXXXX36M	M.Tech and Ph.D.	KIIT, Bhubaneswar	Radiation and Devices	24/07/2025	0.6	Assistant Professor	Assistant Professor		Regular
17	Jagdale Shantanu Shirish	XXXXXXX62D	M.Tech	Dr.B.A. Technological University, Raigad	Electronics and Telecommunication	04/07/2009	14.11	Assistant Professor	Assistant Professor		Regular

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

Sr.No	Name of the Faculty	PAN No.	APAAR faculty ID*(if any)	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)	Cu As (Y
1	Dr. Chaitanya Kulkarni	XXXXXXX70A	NA	M.E. and Ph.D.	Sri.JJT, University	Computer Engg.	26/09/2018	7.3	Associate Professor	Associate Professor	26/09/2018	Regular	Ye
2	Mr. Pradip Ghorpade	XXXXXXX58N	NA	M.Tech	JNUTH, Hydrabad	Computer Science Engineering	01/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Ye
3	Mr. Pradip Shendage	XXXXXXX26H	NA	M.E.	SPPU, Pune	Computer Engg.	08/08/2022	3.5	Assistant Professor	Assistant Professor		Regular	Ye
4	Mrs. Apurva Mane	XXXXXXX17L	NA	M.E.	SPPU, Pune	Computer Engg.	18/04/2023	2.9	Assistant Professor	Assistant Professor		Regular	Ye
5	Mrs. Rajashree Ghule	XXXXXXX84Q	NA	M.E.	SPPU, Pune	Computer Engg.	18/05/2023	2.8	Assistant Professor	Assistant Professor		Regular	Ye
6	Mrs. Komal Gaikwad	XXXXXXX49H	NA	M.E.	SPPU, Pune	Computer Engg.	29/08/2023	2.4	Assistant Professor	Assistant Professor		Regular	Ye
7	Mrs. Swati Ghadage	XXXXXXX59J	NA	M.E.	SPPU, Pune	Computer Engg.	29/08/2023	2.4	Assistant Professor	Assistant Professor		Regular	Ye
8	Mrs. Hema Jadhav	XXXXXXX35M	NA	M.E.	SPPU, Pune	Computer Engg.	30/08/2023	2.4	Assistant Professor	Assistant Professor		Regular	Ye

9	Ms. Roshani Gawade	XXXXXXX14K	NA	M.E.	SPPU, Pune	Artificial Intelligence and Data Science	05/08/2024	1.5	Assistant Professor	Assistant Professor		Regular	Ye
10	Ms. Chaitrali Salunke	XXXXXXX27L	NA	M.E.	SPPU, Pune	Computer Engg.	05/08/2024	1.5	Assistant Professor	Assistant Professor		Regular	Ye
11	Mrs. Shital Kokare	XXXXXXX46H	NA	M.E.	SPPU, Pune	Computer Engg.	16/04/2025	0.9	Assistant Professor	Assistant Professor		Regular	Ye
12	Mrs. Nisha Songire	XXXXXXX83D	NA	M.Tech	SPPU, Pune	Computer Engg.	06/05/2025	0.8	Assistant Professor	Assistant Professor		Regular	Ye
13	Mr. Satyajit Nimbalkar	XXXXXXX20F	NA	M.E.	SPPU, Pune	Computer Engg.	19/08/2025	0.5	Assistant Professor	Assistant Professor		Regular	Ye
14	Mr. Yogesh Khalate	XXXXXXX21J	NA	M.E.	SPPU, Pune	Computer Engg.	19/08/2025	0.5	Assistant Professor	Assistant Professor		Regular	Ye
15	Mr. Digambar Padulkar	XXXXXXX94C	NA	M.Tech	SPPU, Pune	Computer Science Engineering	08/04/2006	19	Assistant Professor	Assistant Professor		Regular	Ye
16	Dr. Yogita Sinkar	XXXXXXX62D	NA	M.E. and Ph.D.	BIHER, Chennai	Computer Science Engineering	23/12/2025	0.1	Associate Professor	Associate Professor	23/12/2025	Regular	Ye
17	Ms. Supriya Sukale	XXXXXXX97R	NA	M.E.	DR.BAMU, Aurangabad	Computer Science Engineering	15/12/2025	0.1	Assistant Professor	Assistant Professor		Regular	Ye
18	Mr.Avinash Kokare	XXXXXXX43K	NA	M.E.	SPPU, Pune	Computer Engineering	23/12/2025	0.1	Assistant Professor	Assistant Professor		Contractual Parttime	Ye
19	Dr. Pradip Paithne	XXXXXXX30K	NA	M.E. and Ph.D.	Dr.BAMU, Aurangabad	Computer Science Engineering	01/02/2017	8.11	Assistant Professor	Associate Professor	02/06/2025	Regular	Ye
20	Mrs. Rohini Naik	XXXXXXX17G	NA	M.E.	SPPU, Pune	Computer Engineering	27/07/2022	3.6	Assistant Professor	Assistant Professor		Regular	Ye

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 Department0

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

Description	**CAY(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Electronics and Telecommunication Engineering	**198**	**198**	**198**
UG2.B	132	132	66

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG2.C	132	66	66
UG2.D	66	66	66
UG2: Artificial Intelligence and Data Science	**330**	**264**	**198**
DS=Total no. of students in all UG and PG programs in the Department	198	198	198
AS=Total no. of students of all UG and PG programs in allied departments	330	264	198
S=Total no. of students in the Department (DS) and allied departments (AS)	**S1=** 528	**S2=** 462	**S3=** 396
DF=Total no. of faculty members in the Department	16	14	15
AF= Total no. of faculty members in the allied Departments	16	12	10
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	**F1=** 32	**F2=** 26	**F3=** 25
FF=The faculty members in F who have a 100% teaching load in the first-year courses	6	3	3
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 20.31**	**SFR2= 20.09**	**SFR3= 18.00**
Average SFR for 3 years	**SFR= 19.47**		

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)]
2025-26(CAY)	7	25	26.00	16.35
2024-25(CAYm1)	6	20	23.00	15.22
2023-24(CAYm2)	5	19	19.00	16.58

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
2025-26	2.00	2.00	5.00	3.00	17.00	27.00
2024-25	2.00	2.00	5.00	3.00	15.00	21.00
2023-24	2.00	2.00	4.00	2.00	13.00	21.00
Average	RF1=2.00	AF1=2.00	RF2=4.67	AF2=2.67	RF2=15.00	AF2=23.00

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	Deepak Kadam	Project Management	Brose India Automotive Systems Pvt Ltd Pune	Electronics Product Design	12.00
2	Aishwarya Pawar	Assistant Professor	Vidya Pratishthan's Arts Commerce and Science College, Baramati	Accounting and Finance	25.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Amol Shinde	Senior Technical Manager	Incedo, Pune	Fiber Optic Communication	12.00
2	Kalyani Kulkarni	Assistant Professor	-	Indian Knowledge System	20.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Amol Shinde	Senior Technical Manager	Incedo, Pune	Cloud Computing	10.00

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	28	11	20
2	No. of peer reviewed conference papers published	18	1	0
3	No. of books/book chapters published	1	1	0

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. Sudhir Lande	Dr. Jyoti Rangole	Department of Electronics and Telecommunication	Automatic Sugarcane Cutter with Bud Detection	Ministry of Education, Innovation Cell	1 Year	2.15
						Amount received (Rs.):2.15

(CAYm2)

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 2.15

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)

(CAYm2)

(CAYm3)

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

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. Jyoti Rangole	Automatic Sugarcane Bud Detection and Cutting Machine, Patent Consolation fees and Drone setup	1 year	6.00	0.53	Indian patent under Examination and Skill Development and Interdisciplinary Applications
			Amount received (Rs.): 6.00		

(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. Jyoti Rangole	Automatic Egg Hatcher Machine, Patent Consultation fees	1 year	6.00	0.23	Indian Patent Granted 11 Nov 2024
			Amount received (Rs.): 6.00		

(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. Jyoti Rangole	Computational facility for AI/ML Projects-DELL Precision 3660 Tower - Intel i9 and i7 -03 machines	1 year	6.00	6.21	AI/ML projects
			Amount received (Rs.): 6.00		

Total amount (Lacs) received for the past 3 years : 18.00

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	VLSI and Embedded System	3	STM32 NUCLEO-L476RG, Digilent Basys-3 Artix-7 FPGA, ARM Cortex	28 Hours (DSP	Mr. Gade S.P.	Lab Technician	Diploma Ind. E
2	Signal Processing	3	Dell Computers, TMS320C6748 DSP Kit with XDS100V3 Emulator	28 Hours (ES&	Mr. Gade S.P.	Lab Technician	Diploma Ind. E
3	Solid State Devices	3	Tektronix DSO (100/70 MHz), Tektronix AFG1022 Function	20 Hours (IoT,	Mr. Waykule D	Lab Technician	Diploma Ind. E
4	Digital Electronics	3	ASUS Computers, DSO (100/70 MHz), CRO (20 MHz), DC Power	18 Hours (BXE	Mr. Waykule D	Lab Technician	Diploma Ind. E
5	RF and Microwave	3	Dell Optiplex 3010, DC Power supply, Microwave Test Bench, Optical	22 Hours (CS,	Mr. Nimbalkar	Lab Technician	Diploma Ind. E
6	Communication Systems	3	Agilent Setup (Spectrum Analyzer, Logic Analyzer, 6½ Digit DMM),	22 Hours (ADC	Mr. Dhumal S.	Lab Technician	Diploma Ind. E
7	Linear IC / Audio-Video / Mechatronics / Project Lab	3	VNA (14 GHz), CST Studio Suite, USRP B200 SDR Kit, NIEVS 1464	30 Hours (BXE	Mr. Waykule D	Lab Technician	Diploma Ind. E

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Solid State Devices	1. MCB (Miniature Circuit Breakers) are installed in laboratories to protect electrical circuits from overload and short circuits. 2. Safety precaution rules are displayed in the laboratory for students and staff awareness. 3. First-aid boxes are available in the laboratory to handle minor injuries and medical emergencies. 4. Proper earthing system is provided for all electrical equipment to prevent electrical hazards. 5. Circuit breakers and fuses are installed to handle electrical power overloads and ensure equipment safety. 6. Electrical wiring and cable lines are properly insulated to avoid short circuits and electrical accidents. 7. The laboratory environment is maintained clean, organized, and clutter-free to ensure safe working conditions. 8. Designated storage areas are provided for equipment, instruments, and electronic components. 9. CCTV cameras are installed in all laboratories to ensure security and monitoring. 10. Periodic servicing and maintenance of laboratory equipment are carried out to ensure proper functioning. 11. Fire extinguishers are placed at appropriate locations in the laboratory for emergency fire control.
2	Digital Electronics	1. MCB (Miniature Circuit Breakers) are installed in laboratories to protect electrical circuits from overload and short circuits. 2. Safety precaution rules are displayed in the laboratory for students and staff awareness. 3. First-aid boxes are available in the laboratory to handle minor injuries and medical emergencies. 4. Proper earthing system is provided for all electrical equipment to prevent electrical hazards. 5. Circuit breakers and fuses are installed to handle electrical power overloads and ensure equipment safety. 6. Electrical wiring and cable lines are properly insulated to avoid short circuits and electrical accidents. 7. The laboratory environment is maintained clean, organized, and clutter-free to ensure safe working conditions. 8. Designated storage areas are provided for equipment, instruments, and electronic components. 9. CCTV cameras are installed in all laboratories to ensure security and monitoring. 10. Periodic servicing and maintenance of laboratory equipment are carried out to ensure proper functioning. 11. Fire extinguishers are placed at appropriate locations in the laboratory for emergency fire control.
3	Communication Systems	1. MCB (Miniature Circuit Breakers) are installed in laboratories to protect electrical circuits from overload and short circuits. 2. Safety precaution rules are displayed in the laboratory for students and staff awareness. 3. First-aid boxes are available in the laboratory to handle minor injuries and medical emergencies. 4. Proper earthing system is provided for all electrical equipment to prevent electrical hazards. 5. Circuit breakers and fuses are installed to handle electrical power overloads and ensure equipment safety. 6. Electrical wiring and cable lines are properly insulated to avoid short circuits and electrical accidents. 7. The laboratory environment is maintained clean, organized, and clutter-free to ensure safe working conditions. 8. Designated storage areas are provided for equipment, instruments, and electronic components. 9. CCTV cameras are installed in all laboratories to ensure security and monitoring. 10. Periodic servicing and maintenance of laboratory equipment are carried out to ensure proper functioning. 11. Fire extinguishers are placed at appropriate locations in the laboratory for emergency fire control.
4	RF And Microwave	1. MCB (Miniature Circuit Breakers) are installed in laboratories to protect electrical circuits from overload and short circuits. 2. Safety precaution rules are displayed in the laboratory for students and staff awareness. 3. First-aid boxes are available in the laboratory to handle minor injuries and medical emergencies. 4. Proper earthing system is provided for all electrical equipment to prevent electrical hazards. 5. Circuit breakers and fuses are installed to handle electrical power overloads and ensure equipment safety. 6. Electrical wiring and cable lines are properly insulated to avoid short circuits and electrical accidents. 7. The laboratory environment is maintained clean, organized, and clutter-free to ensure safe working conditions. 8. Designated storage areas are provided for equipment, instruments, and electronic components. 9. CCTV cameras are installed in all laboratories to ensure security and monitoring. 10. Periodic servicing and maintenance of laboratory equipment are carried out to ensure proper functioning. 11. Fire extinguishers are placed at appropriate locations in the laboratory for emergency fire control.

5	Linear IC, Audio-Video/Mechatronics, Project Lab.	1. MCB (Miniature Circuit Breakers) are installed in laboratories to protect electrical circuits from overload and short circuits. 2. Safety precaution rules are displayed in the laboratory for students and staff awareness. 3. First-aid boxes are available in the laboratory to handle minor injuries and medical emergencies. 4. Proper earthing system is provided for all electrical equipment to prevent electrical hazards. 5. Circuit breakers and fuses are installed to handle electrical power overloads and ensure equipment safety. 6. Electrical wiring and cable lines are properly insulated to avoid short circuits and electrical accidents. 7. The laboratory environment is maintained clean, organized, and clutter-free to ensure safe working conditions. 8. Designated storage areas are provided for equipment, instruments, and electronic components. 9. CCTV cameras are installed in all laboratories to ensure security and monitoring. 10. Periodic servicing and maintenance of laboratory equipment are carried out to ensure proper functioning. 11. Fire extinguishers are placed at appropriate locations in the laboratory for emergency fire control.
6	VLSI AND Embedded SYSTEM	1. MCB (Miniature Circuit Breakers) are installed in laboratories to protect electrical circuits from overload and short circuits. 2. Safety precaution rules are displayed in the laboratory for students and staff awareness. 3. First-aid boxes are available in the laboratory to handle minor injuries and medical emergencies. 4. Proper earthing system is provided for all electrical equipment to prevent electrical hazards. 5. Circuit breakers and fuses are installed to handle electrical power overloads and ensure equipment safety. 6. Electrical wiring and cable lines are properly insulated to avoid short circuits and electrical accidents. 7. The laboratory environment is maintained clean, organized, and clutter-free to ensure safe working conditions. 8. Designated storage areas are provided for equipment, instruments, and electronic components. 9. CCTV cameras are installed in all laboratories to ensure security and monitoring. 10. Periodic servicing and maintenance of laboratory equipment are carried out to ensure proper functioning. 11. Fire extinguishers are placed at appropriate locations in the laboratory for emergency fire control.
7	Signal Processing	1. MCB (Miniature Circuit Breakers) are installed in laboratories to protect electrical circuits from overload and short circuits. 2. Safety precaution rules are displayed in the laboratory for students and staff awareness. 3. First-aid boxes are available in the laboratory to handle minor injuries and medical emergencies. 4. Proper earthing system is provided for all electrical equipment to prevent electrical hazards. 5. Circuit breakers and fuses are installed to handle electrical power overloads and ensure equipment safety. 6. Electrical wiring and cable lines are properly insulated to avoid short circuits and electrical accidents. 7. The laboratory environment is maintained clean, organized, and clutter-free to ensure safe working conditions. 8. Designated storage areas are provided for equipment, instruments, and electronic components. 9. CCTV cameras are installed in all laboratories to ensure security and monitoring. 10. Periodic servicing and maintenance of laboratory equipment are carried out to ensure proper functioning. 11. Fire extinguishers are placed at appropriate locations in the laboratory for emergency fire control.

D3. Project Laboratory/Research Laboratory

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)	540	27	15	13	54
2024-25(CAYm1)	540	27	17	17	63
2025-26(CAY)	900	45	21	25	48

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	0	0	0	0	0	0	0	0
Library	1900000	1634000	1700000	1499000	1550000	1578000	1500000	1430000
Laboratory equipment	5326000	2840000	3733000	1403000	2637000	1019000	1800000	1424000
Teaching and non-teaching staff salary	184573000	177250000	179402000	148860000	161505000	133452000	144914000	137214000
Outreach Programs	75000	19000	50000	20000	50000	10000	75000	19000
R&D	3500000	2396000	6575000	2107000	7735000	1679000	5100000	1658000
Training, Placement and Industry linkage	1000000	301000	1200000	640000	600000	1054000	575000	321000
SDGs	600000	535000	350000	535000	400000	308000	350000	274000
Entrepreneurship	200000	73000	100000	5000	400000	0	300000	71000
Others, specify	58626000	43556000	44421000	35091000	47573000	58148000	48380000	34468000
Total	**255800000**	**228604000**	**237531000**	**190160000**	**222450000**	**197248000**	**202994000**	**176879000**

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	390000	588327	490000	242266	1875000	1505344	835985	1732366
Software	200000	118000	0	118000	0	456911	0	110122
SDGs	75000	129046.9	50000	75698	50000	15421.4	50000	12228
Support for faculty development	25000	35669	25000	15450	25000	26755	170000	7320
R & D	50000	145927	50000	93034	50000	84876	290000	68005
Industrial Training, Industry expert,	50000	26011	50000	123374	100000	16753	327000	12606
Miscellaneous Expenses*	200000	21570	195000	47180	370000	20852	75000	21965
Total	**990000**	**1064550.9**	**860000**	**715002**	**2470000**	**2126912.4**	**1747985**	**1964612**