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**: 1
Application No: 11797	**Date of Submission**: 29-04-2026

PART A- Profile of the Institute

A1.Name of the Institute: DKTES,TEXTILE & ENGG. INSTITUTE	
Year of Establishment : 0	Location of the Institute: Rajwada PO Box No 130 Ichalkaranji Dist Kolhapur MAHARASHTRA INDIA 416 115
A2. Institute Address:NIL	
City:ICHALKARANJI	State:Maharashtra
Pin Code:416115	Website:www.dkte.ac.in
Email:DKTE@SANCHARNET.IN	Phone No(with STD Code):0230-2421300
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Kolhpur
State : Maharashtra	Pin Code: 416004
A4. Type of the Institution: Any Other(Please Specify)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **12**
- 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	Computer Application	PG	Master of Computer Application	2025	--	Computer Application
2	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	--	Computer Science and Engineering
3	Engineering & Technology	UG	Civil Engineering	2018	--	Civil Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2014	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	1999	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	--	Computer Science and Engineering
7	Engineering & Technology	UG	Electrical Engineering	2018	--	Electrical Engineering
8	Engineering & Technology	UG	Electronics and Telecommunication Engineering	1989	--	Electronics and Telecommunication Engineering
9	Engineering & Technology	PG	Electronics and Telecommunication Engineering	2010	--	Electronics and Telecommunication Engineering
10	Engineering & Technology	UG	Fashion Technology	2006	--	Textile Engineering

11	Engineering & Technology	UG	Man Made Textile Technology	1983	--	Textile Engineering
12	Engineering & Technology	UG	Mechanical Engineering	1992	--	Mechanical Engineering
13	Engineering & Technology	PG	Mechanical Engineering	2010	--	Mechanical Engineering
14	Engineering & Technology	UG	Technical Textiles	1984	--	Textile Engineering
15	Engineering & Technology	UG	Textile Chemistry	1987	--	Textile Engineering
16	Engineering & Technology	PG	Textile Engineering	2009	--	Textile Engineering
17	Engineering & Technology	UG	Textile Technology	1983	--	Textile Engineering
18	Management	PG	Master of Business Administration	2008	--	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
Electronics and Telecommunication Engineering	No	Electronics and Telecommunication 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

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	Electronics and Telecommunication Engineering	UG	1989 / --	120	Yes	NA	120	1989	F.No. Western/1-46269683472/2026/ EOA	Granted accreditation for 3 years for the period (specify period)	2023	2026	4	4

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 :	Prof. Dr. Mrs Jayashree P Kharat
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)	120	120	120	120	120	120	90
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	120	120	116	74
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	15	18	15	15	20	32
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	18	18	17	18	18	18	5
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	138	153	155	153	153	154	111

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)	120	120	18	115.00
2024-25 (CAYm1)	120	120	18	115.00
2023-24 (CAYm2)	120	120	17	114.17

Average [(ER1 + ER2 + ER3) / 3] = 114.72≡ 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).	153.00	154.00	111.00
B=No. of students who graduated from the program in the stipulated course duration	101.00	119.00	83.00
Success Rate (SR)= (B/A) * 100	66.01	77.27	74.77

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 72.68

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)	7.78	7.76	7.25
Y=Total no. of successful students	130.00	126.00	136.00
Z=Total no. of students appeared in the examination	138.00	137.00	138.00
API [X*(Y/Z)]	7.33	7.14	7.14

Average API[(AP1+AP2+AP3)/3] : 7.20

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)	7.20	6.77	6.54
Y=Total no. of successful students	132.00	130.00	115.00
Z=Total no. of students appeared in the examination	144.00	151.00	132.00
API [X * (Y/Z)]	6.60	5.83	5.70

Average API [(AP1 + AP2 + AP3)/3] : 6.04

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)	6.73	6.62	7.05
Y=Total no. of successful students	130.00	107.00	126.00
Z=Total no. of students appeared in the examination	130.00	115.00	134.00

Average API [(AP1 + AP2 + AP3)/3] : 6.51

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	153.00	154.00	111.00
X=No. of students placed	108.00	115.00	88.00
Y=No. of students admitted to higher studies	0.00	6.00	0.00
Z= No. of students taking up entrepreneurship	0.00	1.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	70.59	79.22	79.28

Average Placement Index = (P_1 + P_2 + P_3)/3: 76.36 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	Prof. Dr. Mrs. Lalita.S. Admuthe	XXXXXXX82E	M.E. and Ph.D.	Shivaji University	Embedded System, Machine Learning	25/07/1990	35.9	Lecturer	Professor	01/11/2012	Regular	Yes		No

2	Prof. Dr. Mrs. V Jayashree	XXXXXXX38R	M.E. and Ph.D.	Shivaji University	VLSI design, Advance control system, Digital Image processing	10/07/1990	35.9	Lecturer	Professor	02/06/2014	Regular	Yes		No
3	Prof. Dr. Shrinivas A. Patil	XXXXXXX75A	M.E. and Ph.D.	Shivaji University	Embedded System, Linear integrated circuits	01/08/1990	35.7	Lecturer	Professor	01/01/2013	Regular	No	27/02/2026	No
4	Mr. Suhas D. Gokhale	XXXXXXX43L	M.E.	Shivaji University	Audio Video Engineering, Analog Circuits	20/07/1992	33.9	Lecturer	Associate Professor	01/07/2011	Regular	Yes		No
5	MR. Atul V. Shah	XXXXXXX68J	M.E.	Shivaji University	Computer Networks, Broadband Communication,Fiber Optic Communication, Satellite Communication	20/07/1990	35.9	Lecturer	Assistant Professor		Regular	Yes		No
6	Prof. Dr. Mrs Jayashree P Kharat	XXXXXXX23E	M.Tech and Ph.D.	Shivaji University	Image & Video Processing, Power Electronics, IoT	06/02/2002	24.2	Lecturer	Professor	01/07/2023	Regular	Yes		Yes
7	Mrs Smruti A Pore	XXXXXXX03G	M.Tech	Shivaji University	Electronic System Design, Microprocessors and Microcontrollers,IoT	04/07/2003	22.9	Lecturer	Assistant Professor		Regular	Yes		No
8	Mr. Uttam A. Patil	XXXXXXX63H	M.E.	Shivaji University	Linear integrated circuits, Computer Network,Image Processing	01/08/2003	22.9	Lecturer	Assistant Professor		Regular	Yes		No
9	Prof. Dr. Mrs Deepali N Dhang	XXXXXXX42Q	M.E. and Ph.D.	Shivaji University	Signal Processing, Network Analysis	02/08/2001	24.8	Lecturer	Professor	01/07/2025	Regular	Yes		No
10	Dr. Mrs. Anushka D. Kadage	XXXXXXX63N	M.E. and Ph.D.	VTU Belagavi	Wireless Communication,AI,ML,Image Processing	01/07/2006	19.9	Lecturer	Associate Professor	01/07/2023	Regular	Yes		No
11	Dr. Sachin M Karmuse	XXXXXXX64H	M.E. and Ph.D.	VTU Belagavi	Embedded systems, C, C++ programming, Data structure, IoT, Image Processing	01/07/2005	20.9	Lecturer	Associate Professor	01/07/2025	Regular	Yes		No
12	Dr Mrs. Anjali R. Patil	XXXXXXX39M	M.E. and Ph.D.	Shivaji University	Embedded System, Machine and Deep Learning	31/01/2005	21.2	Lecturer	Assistant Professor		Regular	Yes		No
13	Dr. Saurabh R. Prasad	XXXXXXX85G	M.E. and Ph.D.	Shivaji University	Audio and Video Engineering, Microwave and Optical communication, Electromagnetic engineering	05/01/2005	21.3	Lecturer	Assistant Professor		Regular	Yes		No
14	Mr. Anil P. Athane	XXXXXXX55G	M.E.	Shivaji University	Electronics Devices and circuits, Instrumentation Engineering, Control System	01/07/2005	20.9	Lecturer	Assistant Professor		Regular	Yes		No
15	Dr. Vinayak B. Sutar	XXXXXXX59K	M.E. and Ph.D.	Shivaji University	Internet of Things, Advanced Communication, Image Processing, Python	14/07/2008	17.9	Lecturer	Assistant Professor		Regular	Yes		No
16	Dr. Mrs Jakiya A Alase	XXXXXXX46M	M.E. and Ph.D.	Shivaji University	C,C++,Image Processing,Basic Electronics	01/07/2006	19.10	Lecturer	Assistant Professor		Regular	Yes		No

17	Dr. Sandip J. Patil	XXXXXXX47K	M.E. and Ph.D.	VTU Belagavi	Linear integrated circuits, Network analysis, Analog circuits,Ad-Hoc Networks,	27/08/2008	17.8	Lecturer	Assistant Professor		Regular	Yes		No
18	Mr. Avdhoot. R. Telepatil	XXXXXXX13A	M.E.	Shivaji University	Analog communication, Microcontrollers, Power electronics, C, C++,Python programming, Image Process	16/07/2009	16.9	Lecturer	Assistant Professor		Regular	Yes		No
19	Mr. Vinod B. Kumbhar	XXXXXXX47L	M.E.	Shivaji University	Industrial Automation, Embedded System, Image Processing,IoT,PowerElectronics	05/08/2015	10.8	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Dr. Yogita V. Sawant	XXXXXXX17M	M.E. and Ph.D.	Shivaji University	Image Processing, Machine Learning, IoT, Data Science	01/07/2011	14.9	Lecturer	Assistant Professor		Regular	Yes		No
21	Mrs. Pooja S Puri	XXXXXXX11R	M.E.	Shivaji University	Digital electronics and Microprocessor, Linear circuits	02/06/2008	17.10	Lecturer	Assistant Professor		Regular	Yes		No
22	Mr. D K Gupta	XXXXXXX42H	M.E.	Shivaji University	VLSI, Analog Communication	08/08/2022	3.8	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Mr. Sachidanand B Naragundakar	XXXXXXX68J	M.E.	VTU Belgavi	Signal systems, Data Structure, VLSI	04/07/2013	11.2	Assistant Professor	Assistant Professor		Regular	No	12/09/2024	No
24	Mrs Yogita A More	XXXXXXX98B	M.Tech	Shivaji University	C, C++ programming, Digital Systems	20/01/2025	1.3	Assistant Professor	Assistant Professor		Regular	Yes		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(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	132	132	132
UG1.C	132	132	132
UG1.D	132	132	132

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1: Electronics and Telecommunication Engineering	**396**	**396**	**396**
PG1.A	12	12	12
PG1.B	12	12	12
PG1: Electronics and Telecommunication Engineering	**24**	**24**	**24**
DS=Total no. of students in all UG and PG programs in the Department	420	420	420
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=** 420	**S2=** 420	**S3=** 420
DF=Total no. of faculty members in the Department	22	22	23
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=** 22	**F2=** 22	**F3=** 23
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)	**SFR1= 19.09**	**SFR2= 19.09**	**SFR3= 18.26**
Average SFR for 3 years	**SFR= 18.81**		

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)	12	10	20.00	20.00
2024-25(CAYm1)	10	12	20.00	18.50
2023-24(CAYm2)	10	13	20.00	19.00

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	4.00	5.00	2.00	14.00	16.00
2024-25	2.00	4.00	5.00	2.00	14.00	16.00
2023-24	2.00	4.00	5.00	2.00	14.00	17.00

Average	RF1=2.00	AF1=4.00	RF2=5.00	AF2=2.00	RF2=14.00	AF2=16.33

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. Surykant Dodmise	CEO	SIDDHEM Innovation & Business Incubation Center, Kolhapur	Entrepreneurship Development	50.00
2	Mr. Jagdish Patil Mr. Vinod Waghmare	Manager	Johnson's Control, Pune	Building Automation, Energy Audit and IOT	18.00
3	Mr. Shripad Kulkarni	Director	Bramha Infotech Sangli	Employability Skills & Training	10.00
4	Mr. Suraj Chopade Mr. Sagar Yadav Mr. Sarthak Nagnor	Manager	Shell Pune	Machine Learning	20.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Surykant Dodmise	CEO	SIDDHEM Innovation & Business Incubation Center, Kolhapur	Entrepreneurship Development	50.00
2	Mr. Jagdish Patil Mr. Vinod Waghmare	Manager	Johnson's Control, Pune	Building Automation, Energy Audit and IOT	18.00
3	Mr. Ankit Kumar	Application Engineer	Tech System Pvt. Ltd , Pune	Machine Learning	12.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. Surykant Dodmise Brijesh Talwadekar	CEO	, SIDDHEM Innovation & Business Incubation Center, Kolhapur	Entrepreneurship Master Clas	50.00
2	Mr. Jagdish Patil Mr. Vinod Waghmare	Manager	Johnson's Control, Pune	Building Automation, Energy Audit and IOT	18.00
3	Mr. Vinit Jirge	Proprietor	JV Electronics Kolhapur	Open Elective	5.00

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	20	20	15
2	No. of peer reviewed conference papers published	6	7	6
3	No. of books/book chapters published	1	0	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. Mrs. J. P. Kharat		Dept. of Electronics & Telecommunication Engg	Smart Pearl Farming	TIH foundation	10 Months	6.00
Dr.S.A.Patil	Dr. Mrs. A. R. Patil	Dept. of Electronics & Telecommunication Engg	100 5-G Use Case Lab	Dept. of Telecommunication	Lifetime	64.00
						Amount received (Rs.):70.00

(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. Mrs. J. P. Kharat		Dept. of Electronics & Telecommunication Engg	Smart Irrigation System for Efficient Management of Water and Crop	TIH foundation	10 Months	6.00
Dr. V.B. Kumbhar		Dept. of Electronics & Telecommunication Engg	Multifunctional Water Cooler	MSINS , Maharashtra Magic Start Up	1 Year	1.50
						Amount received (Rs.):7.50

(CAYm3)

Total Amount (Lacs) Received for the Past 3 Years: 77.50

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.S.A.Patil	Dr. V. B. kumbhar, Mr. S.M.Karmuse, Dr.A.D.Kadage	Electronics and Telecommunication Engineering	Development of IoT Based Hospital Management System	Vidya sanmatidas Sewa Sanstha Hospital, Jaysingpur	10 Months	3.00
Dr.J.P.Kharat	Dr.A.R.Patil, Mrs.S.A.Pore, Dr.V.B.Sutar	Electronics and Telecommunication Engineering	AIML integration in IOT based systems	Procom Enterprises, Ichalkaranji	8 Months	3.00
						Amount received (Rs.):6.00

(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
Mr.D.A.Patil	Dr.S.M.Karmuse	Electrical and Electronics and Telecommunication Engineering	Kavathemahankal Project	Yashashree Polyextrusion Private Limted	3 Months	2.30
Prof.S.D.Gokhale		Electronics and Telecommunication Engineering	Design and Development of Vibration Analysis	Bramha Infotech, Sangli	10 Months	0.10
Dr.S.J.Patil		Electronics and Telecommunication Engineering	Facial Expression Unmasked: Real Time Recognition System	Jangs Technologies, Kabnoor	10 Months	0.10
Dr.A.R.Patil		Electronics and Telecommunication Engineering	External Pacer System	Jeevtronics Pvt. Ltd, Pune	10 moths	0.10
						Amount received (Rs.):2.60

(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
Mr.P.S.Magdum	Mr.B.N.Sachidanand	Electrical and Electronics and Telecommunication Engineering	Sangola Project	Yashashree Polyextrusion Private Limted	2 Months	2.40
Mr.V. S.Wadkar	Mr.V.B.Kumbhar	Electrical and Electronics and Telecommunication Engineering	Pandharpur Project	Yashashree Polyextrusion Private Limted	3 Months	1.80
						Amount received (Rs.):4.20

Total amount (Lacs) received for the past 3 years: 12.80

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. Mrs. J. P. Kharat	Smart Belt for Livestock	1 Year	0.50	0.50	Patent published Selection for IDE Bootcamp
Dr. S. M. Karmuse	Wall Climbing Robot	1 Year	0.10	0.10	Prototype
Dr. Mrs. A. R. Patil	Touch less Exploration of Medical Equipment	1 Year	0.25	0.25	Patent Publication
Dr. D. N. Dhang	Concealed Sear Integrated Veicular Locker System with Dual Authentication Tamper Detection	1 Year	0.25	0.25	Patent Publication
Dr.V.B.Sutar	Agriculture Purpose Robot	1 Year	0.15	0.15	Patent Publication
			Amount received (Rs.): 1.25		

(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. A. R. Telepatil	Ph. D Research Work	2 Years	1.00	1.00	Patent Research Paper
			Amount received (Rs.): 1.00		

(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. Mrs. Y. V. Sawant	Ph. D Research Work	2 Years	1.00	1.00	Patent Research Paper
			Amount received (Rs.): 1.00		

Total amount (Lacs) received for the past 3 years : 3.25

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	Embedded System Lab	18	PC (Intel i5, 4GB), LPC2148 Boards, 8051 Boards, PIC18F4550 Boards, 8086 Boards, Keil Software, Proteus & MPLAB, Micro C	55%	Mr. A. K. Kamat	Jr. Lab Assistant	D.I.E.
2	Research Lab	20	ARM freescale Boards (LPC 1768 and CORTEX), mbed Software, Atlys Sparton 6 Board, Anvyl Sparton6 Board, XUP V5 ZED Board, PLC trainer kit, Logic Analyzer	53%	Mr. A. T. Pujari	Sr. Lab Assistant	D.I.E.
3	VLSI Design Lab	20	PC-Dell (Intel-i5, 8GB),VLSI Trainer Kits for CPLD and FPGA devices, 8 bit ADC interfacing card, Stepper interface card with stepper motor	57%	Mr. P. K. Patil	Jr. Lab Assistant	D.I.E.
4	Basic Communication Engineering Lab	20	Public Address System, ISDN Trainer Kit, AM,FM,PM Modulator and Demodulator Kits, PWM,PPM Trainer Kits,4 Channel PAM TDM, Antenna Trainer Kit with	54%	Mr. R. D. Joshi	Jr. Lab Assistant	D.E.E.
5	Applied Electronics Lab	20	CRO Scientific) Function Generators, Dual Power Supply, Single Power Supply, Power Electronics Kits	63%	Mr. L. N. Hudid	Sr. Lab Assistant	D.I.E.
6	Project Lab	22	STM32 Boards, Raspberry Pi 4B Boards, NodeMCU Boards, Sensors(Temperature, Soil Moisture, PIR, IR, Water, Ultrasonic, Accelerometer & Gyroscope etc.), PC	50%	Mr. A. M. Patil	Jr. Lab Assistant	D.E.T.E.
7	Simulation Lab	18	HP 280(Intel core TM i3,DDR4,Intel HD Graphics 530,1TB), Proteus, Tinkercad, MATLAB	58%	Mrs. K. A. Powar	Jr. Lab Assistant	B.E. (ETC), M.Tech. (ET(
8	Digital Electronics Lab	20	DSOs, IC Tester, Single Power Supply, Dual Power Supply, CROs, Function Generators, Measurement Kits: Maxwell bridge(NO.9005), Wheatstone Bridge(NO.	52%	Mrs. R. A. Gurav	Jr. Lab Assistant	D.D.E.

9	Computational Lab	20	PCs(HP 280, i3, 1TB HDD), Smart screen	63%	Mrs. R. A. Gurav	Jr. Lab Assistant	D.D.E.
10	Internet of Things Lab	20	PCs- (HP-i5, 16GB), Raspberry Pi 4 Model B Boards, NodeMCU Boards (ESP8266) Raspberry PI Pico W	65%	Mr. P. K. Patil	Jr. Lab Assistant	D.I.E.
11	Advanced Computing Lab	18	PCs- (HP-i5, 16GB) Smart Screen, Internet facility, Software: VS Code, Keil 4.0	52%	Mr. P. K. Patil	Jr. Lab Assistant	D.I.E.
12	5G Lab	20	LAN Server, MEC Server, 5G CPE, IOT Gateway Router, Router with Firewall, 5G indoor CPE, RAN	40%	Mrs. K. A. Powar	Jr. Lab Assistant	B.E. (ETC), M.Tech. (ET(
13	Advanced Communication Engineering Lab	20	Micro-strip Antenna Kit, Doppler Radar Kit, Microwave Test Bench, Digital Communication Kits, TV Trainer	53%	Mr. L. N. Hudid	Sr. Lab. Assistant	D.I.E.
14	P.G. Lab	16	PC(i3,4GB), CRO, Function Generator, Single Power Supply, Dual Power supply, PSOC Development Kit,	52%	Mr. A. M. Patil	Jr. Lab Assistant	D.E.T.E.

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Embedded System Lab	1. Electrical Safety: Proper earthing and grounding of all equipment. MCBs, ELCBs, and surge protection devices installed. Regular inspection of wiring and connections. 2. Component Handling: Electronic components stored in labeled, protected containers. Students advised to switch OFF power supply before modifying circuit connections. 3. Fire Safety: Appropriate fire extinguishers installed at accessible locations. Overloaded power sockets strictly avoided. 4. Equipment Maintenance: Periodic calibration and preventive maintenance of oscilloscopes, power supplies, function generators, and measuring devices. Damaged equipment identified and replaced immediately. 5. Personal Safety: Laboratory Do's and Don'ts charts displayed. First-aid kits provided. Food and beverages not permitted inside the laboratory. Pathways kept clutter-free.
2	Research Lab	1. Electrical Safety: Proper earthing and grounding of all high-performance computing systems. UPS backup and surge protection provided. 2. Equipment Handling: Students trained in safe handling of advanced boards (ARM, FPGA, Raspberry Pi) and test equipment (DSO, Logic Analyzer). Damaged equipment reported and replaced immediately. 3. Fire Safety: Fire extinguishers installed. 4. Operational Safety: Lab guidelines and SOPs displayed prominently. Food and beverages not permitted.
3	VLSI Design Lab	1. Electrical Safety: Proper grounding of computers and networking devices. UPS backup for uninterrupted operation. 2. Data Protection: User authentication and controlled access to systems and networks. Regular backup of project files 3. Ergonomic Safety: Proper seating, monitor positioning, and adequate lighting to minimize discomfort and eye strain. 4. Operational Safety: Laboratory usage guidelines and SOPs displayed. Regular maintenance of computers, peripherals, and networking devices. Proper shutdown procedures enforced.
4	Basic Communication Engineering Lab	1. Electrical Safety: Proper earthing and grounding of all equipment. MCBs, ELCBs, and surge protection devices installed. Regular inspection of wiring and connections. 2. Component Handling: Electronic components stored in labeled, protected containers. Students advised to switch OFF power supply before modifying circuit connections. 3. Fire Safety: Appropriate fire extinguishers installed at accessible locations. Overloaded power sockets strictly avoided. 4. Equipment Maintenance: Periodic calibration and preventive maintenance of oscilloscopes, power supplies, function generators, and measuring devices. Damaged equipment identified and replaced immediately. 5. Personal Safety: Laboratory Do's and Don'ts charts displayed. First-aid kits provided. Food and beverages not permitted inside the laboratory. Pathways kept clutter-free.
5	Applied Electronics Lab	1. Electrical Safety: Proper earthing and grounding of all equipment. MCBs, ELCBs, and surge protection devices installed. Regular inspection of wiring and connections. 2. Component Handling: Electronic components stored in labeled, protected containers. Students advised to switch OFF power supply before modifying circuit connections. 3. Fire Safety: Appropriate fire extinguishers installed at accessible locations. Overloaded power sockets strictly avoided. 4. Equipment Maintenance: Periodic calibration and preventive maintenance of oscilloscopes, power supplies, function generators, and measuring devices. Damaged equipment identified and replaced immediately. 5. Personal Safety: Laboratory Do's and Don'ts charts displayed. First-aid kits provided. Food and beverages not permitted inside the laboratory. Pathways kept clutter-free.

6	Advanced Communication Engineering Lab	1. Electrical Safety: Proper earthing and grounding of all equipment. MCBs, ELCBs, and surge protection devices installed. Regular inspection of wiring and connections. 2. Component Handling: Electronic components stored in labeled, protected containers. Students advised to switch OFF power supply before modifying circuit connections. 3. Fire Safety: Appropriate fire extinguishers installed at accessible locations. Overloaded power sockets strictly avoided. 4. Equipment Maintenance: Periodic calibration and preventive maintenance of oscilloscopes, power supplies, function generators, and measuring devices. Damaged equipment identified and replaced immediately. 5. Personal Safety: Laboratory Do's and Don'ts charts displayed. First-aid kits provided. Food and beverages not permitted inside the laboratory. Pathways kept clutter-free.
7	Digital Electronics Lab	1. Electrical Safety: Proper earthing and grounding of all equipment. MCBs, ELCBs, and surge protection devices installed. Regular inspection of wiring and connections. 2. Component Handling: Electronic components stored in labeled, protected containers. Students advised to switch OFF power supply before modifying circuit connections. 3. Fire Safety: Appropriate fire extinguishers installed at accessible locations. Overloaded power sockets strictly avoided. 4. Equipment Maintenance: Periodic calibration and preventive maintenance of oscilloscopes, power supplies, function generators, and measuring devices. Damaged equipment identified and replaced immediately. 5. Personal Safety: Laboratory Do's and Don'ts charts displayed. First-aid kits provided. Food and beverages not permitted inside the laboratory. Pathways kept clutter-free.
8	Simulation Lab	1. Electrical Safety: Proper grounding of computers and networking devices. UPS backup for uninterrupted operation. 2. Data Protection: User authentication and controlled access to systems and networks. Regular backup of project files 3. Ergonomic Safety: Proper seating, monitor positioning, and adequate lighting to minimize discomfort and eye strain. 4. Operational Safety: Laboratory usage guidelines and SOPs displayed. Regular maintenance of computers, peripherals, and networking devices. Proper shutdown procedures enforced.
9	Computational Lab	1. Electrical Safety: Proper grounding of computers and networking devices. UPS backup for uninterrupted operation. 2. Data Protection: User authentication and controlled access to systems and networks. Regular backup of project files 3. Ergonomic Safety: Proper seating, monitor positioning, and adequate lighting to minimize discomfort and eye strain. 4. Operational Safety: Laboratory usage guidelines and SOPs displayed. Regular maintenance of computers, peripherals, and networking devices. Proper shutdown procedures enforced.
10	Internet of Things Lab	1. Electrical Safety: Proper grounding of computers and networking devices. UPS backup for uninterrupted operation. 2. Data Protection: User authentication and controlled access to systems and networks. Regular backup of project files 3. Ergonomic Safety: Proper seating, monitor positioning, and adequate lighting to minimize discomfort and eye strain. 4. Operational Safety: Laboratory usage guidelines and SOPs displayed. Regular maintenance of computers, peripherals, and networking devices. Proper shutdown procedures enforced.
11	Advanced Computing Lab	1. Electrical Safety: Proper grounding of computers and networking devices. UPS backup for uninterrupted operation. 2. Data Protection: User authentication and controlled access to systems and networks. Regular backup of project files 3. Ergonomic Safety: Proper seating, monitor positioning, and adequate lighting to minimize discomfort and eye strain. 4. Operational Safety: Laboratory usage guidelines and SOPs displayed. Regular maintenance of computers, peripherals, and networking devices. Proper shutdown procedures enforced.
12	5G Lab	1. Equipment Handling: Students trained in handling of specialized 5G hardware (CPE, RAN Server, AR/VR Camera, Drone components). Equipment operated only under staff supervision. 2. Electrical Safety: UPS (5KVA) and surge protection devices installed. Proper earthing of all equipment. 3. Fire Safety: Fire extinguishers installed.
13	P.G. Lab	1. Electrical Safety: Proper grounding of computers and networking devices. UPS backup and surge protection for uninterrupted operation. Adequate ventilation and cable management to prevent tripping hazards. 2. Data Protection: User authentication and controlled access to systems and networks. Regular backup of project files. 3. Ergonomic Safety: Proper seating, monitor positioning, and adequate lighting to minimize discomfort and eye strain. 4. Operational Safety: Laboratory usage guidelines and SOPs displayed. Regular maintenance of computers, peripherals, and networking devices. Proper shutdown procedures enforced. 5. Surveillance: CCTV cameras installed for continuous monitoring.
14	Project Lab	1. Electrical Safety: Proper grounding of computers and networking devices. UPS backup and surge protection for uninterrupted operation. Adequate ventilation and cable management to prevent tripping hazards. 2. Data Protection: User authentication and controlled access to systems and networks. Regular backup of project files. 3. Ergonomic Safety: Proper seating, monitor positioning, and adequate lighting to minimize discomfort and eye strain. 4. Operational Safety: Laboratory usage guidelines and SOPs displayed. Regular maintenance of computers, peripherals, and networking devices. Proper shutdown procedures enforced. 5. Surveillance: CCTV cameras installed for continuous monitoring.

D3. Project Laboratory/Research Laboratory

The Department of Electronics & Telecommunication Engineering maintains dedicated facilities — the Project Laboratory, Research Laboratory, IDEA Lab, and Centr of Excellence -5G Lab to support student projects, faculty research, innovation, and industry-aligned learning. These facilities collectively provide an environment that bridges theoretical knowledge with practical implementation, fosters design thinking, and enables participation in national-level competitions and research activities.

A. Project Laboratory

The Project Laboratory supports experiential learning, research, innovation, and skill development by facilitating project work, technical workshops, faculty development programs, research activities, and participation in technical competitions. The laboratory resources are effectively utilized to strengthen students technical competencies and professional skills, thereby contributing to the attainment of the relevant Program Outcomes (POs) and Program Specific Outcomes (PSOs).

Table 7.5 (a) Project Laboratory Information

Particulars	Details
Name of Facility	Project Laboratory / Research Laboratory
Purpose for Creating Facility	• To provide a dedicated environment for design, development, testing, and validation of engineering projects. • To encourage innovation, research, and interdisciplinary project work. • To bridge the gap between theoretical concepts and practical implementation. • To support outcome-based learning and product-oriented development. • To facilitate participation in technical competitions, hackathons, and exhibitions.
Major Equipment/ Facilities Available	• Embedded System Development Kits (ARM, PIC, Raspberry Pi, ESP32, NodeMCU) • PCB Design and Testing Tools • Digital Storage Oscilloscopes (DSO) • Function Generators • Regulated Power Supplies • Logic Analyzer • Sensors and Actuator Modules • MATLAB/Simulink Software • Plagiarism Software

B. Center of Excellence - 5G Lab:

The 5G Lab funded by Department of Telecommunications, Ministry of Communications, Government of India is a state-of-the-art facility equipped with 5G Standalone (SA) mid-band infrastructure, 5G SIMs, dongles, IoT gateway, router, drone, application server, and a management dashboard to support research, prototyping, and skill development. It enables cross-sectoral applications in engineering, agriculture, medical, textile, manufacturing, power, pharma, and forensics, fostering innovations such as smart cities, precision farming, telemedicine, Industry 4.0, and smart grids. The lab offers a flexible, scalable environment for testing 5G-enabled solutions, promoting collaboration between academia, industry, and startups.

Equipment List of 5G lab is given in Table 7.5 (b) as given below. It consists of all 5G supporting equpment alongwith additional equipment useful for project development

Table 7.5 (b) Equipment list of Centre of excellence -5G Lab

Equipment List		
S No.	**Equipment**	**Model**
1	5G Core	Customized
2	5G Radio	LPRU
3	IMS solution	Customized
4	MEC & Application server	Proliant DL360

5	NMS (with Dashboard)	Customized
6	Router with Firewall	Infinxt-SDWAN-iEDGE-1000
7	5G SIMs	Gailer 5G SIM
8	5G Evaluation Board	RG520F
9	IoT Gateway	RUTX50
10	IoT sensors with analytic software (Loaded in Application server)	
10.1	Temperature &; Humidity sensor	DHT22, sensor module AM2302
10.2	Light sensor	CWT-SL-6W-A
10.3	Soil sensor (NPK)	NPK-S
10.4	Water (TDS/chlorine) sensor	Utkarsh Scientific
11	5G Mini Drone	5G Mini
12	5G XR(AR/VR/MR)	Oculus Quest 2
13	5G Indoor CPE	EEPLAX54-5G
14	5G Camera	4k 5G Bullet
15	5G Handsets	Galaxy F23
16	Adjustable Tripod Pole (3m)	Customized
17	24 U Rack	24 U Rack
18	UPS 5KVA (1hr backup)	Maxipower 5Kva
19	32-inch FHD Display with VGA cable	AC32FHD
20	L2 Managed Switch (24 port)	TL-SG3428
21	Testing & Tracing Tools	VVDN

C Utilization of project Laboratory and its relevent y POs nad PSOs:

Project iab consists Different embedded sysem kits, some electronics equipment and other multidisciplinary kits also. IPR filiing facility is also given to the students and faculty. Utilization of project laboratory is as given in table 7.5 (c) below.

Table 7.5 (c) Utilization of Project Laboratory and relevant POs and PSOs

Sr. No.	Utilization	Relevant POs	Relevant PSOs

1	**UG Final Year Projects:** Design, development, and evaluation of final year projects by fourth-year students.	**All POs**	**PSO1**
2	**Mini Projects:** Second and third-year students execute Mini Projects (MP-I, MP-II, MP-III/MP-IV) as part of the curriculum.	**All POs**	**PSO1**
3	**PG / M.Tech. Research Projects:** Postgraduate students use the facility for research-oriented project work.	**PO1, PO2, PO3, PO4, PO5, PO7, PO10, PO11**	**PSO1, PSO2**
4	**Student Workshops:** Technical workshops on Embedded Systems, IoT, AI/ML, PCB Design, and allied domains.	**PO1, PO5, PO8, PO9, PO10**	**PSO1, PSO2**
5	**Faculty Development Programs:** Faculty workshops and training programs conducted using research facilities.	**PO5, PO8, PO10**	**PSO1, PSO2**
6	**National Competitions and Hackathons:** Preparation and participation in DIPEX, Avishkar, SIH, and similar competitions.	**PO9, PO11**	**PSO1, PSO2**
7	**Technical Events:** Yukti Idea Presentation, Yukti Prototype Presentation, SIH rounds and DIPEX evaluation rounds conducted in the Project Laboratory.	**PO3, PO5, PO8, PO9, PO10, PO11**	**PSO1, PSO2**
8	**Research and Publication:** Faculty and students engage in research paper publication and patent filing.	**PO9, PO10, PO11**	**PSO1, PSO2**

The Project Laboratory facilitates the successful execution of undergraduate final-year projects by providing the necessary infrastructure, hardware, software, and technical guidance. The projects enable students to integrate theoretical knowledge with practical implementation and develop innovative engineering solutions. A summary of the completed UG final-year projects is presented below.

Table 7.5 (d) UG Final Year Projects Completed

Academic Year	Total number of projects	Domain Area
2023-24	47	Embedded System, Internet of Things, Ai & ML, Robotics, Image processing, Automation
2024-25	39	
2025-26	36	

Mini projects undertaken by second- and third-year students provide early exposure to design thinking, problem-solving, and hands-on engineering practices. The Project Laboratory supports the planning, development, implementation, and testing of these projects, fostering creativity and technical competency. A summary of the completed mini projects is given below.

Table 7.5 (e) UG Second and Third Year Mini Projects Completed

Academic Year	Total number of projects
2023-24	Mini Project - I: 70 Mini Project - II : 68 Mini Project - IV: 42
2024-25	Mini Project - I: 72 Mini Project - II : 66 Mini Project - IV: 36
2025-26	Mini Project - I: 68 ini Project - II : 67 Mini Project -III-46

The Project Laboratory promotes innovation, research, and intellectual property creation by encouraging faculty members and students to develop novel technologies and engineering solutions. The research outcomes are translated into intellectual property through patent filing and grant activities. The details of patents filed and granted are presented below.

Table 7.5 (f) Patents filed/Granted

Academic Year	Patents Registered/Published	Patents Granted
2023-24	03	05
2024-25	07	05
2025-26	06	04

The Project Laboratory serves as a hub for organizing technical workshops, seminars, project exhibitions, innovation events, and student competitions. These activities provide opportunities for experiential learning, skill enhancement, industry interaction, and collaborative innovation. A summary of the workshops, events, and competitions conducted using the laboratory facilities is presented below.

Table 7.5 (g) Workshops/Events/Competitions conducted

Academic Year	Workshops/Events/ Competitions
2023-24	08
2024-25	06
2025-26	05

Table 7.5 (h) Utilization of Centre of Excellence: 5G lab

Sr. No.	Activity	Relevance to POs and PSOs
1.	Workshop for students (Awareness Programs)	PO3, PO5, PO6, PO9,PO11, PSO1
2.	Projects Execution based on 5G Technology	All POs, PSO1, PSO2
3.	Students participation in 5G Hackathon	PO4, PO6, PO9, PO10, PO11, PSO1
4.	Patent (5G technology based) preparation	PO3, PO4, PO6, PO7, PO10, PSO1
5.	Alignment in curriculum	PO1, PO2, PO6, PSO2
6.	Faculty Development Program	PO3, PO5, PO6, PO9,PO11, PSO2

The Project Laboratory is a multidisciplinary facility that supports academic learning, project development, research, innovation, and technical skill enhancement. It provides modern infrastructure and advanced engineering tools for undergraduate and postgraduate project work, faculty research, technical training, and innovation activities. A summary of the Project laboratory and other facilities along with their purpose is presented below.

Table 7.5 (i) Summery of Project Laboratory/ Research Laboratory

S.N.	Name of the Laboratory / Facility	Primary Purpose

1	Project Laboratory	Final year and mini project execution; hackathons and technical competitions.
2	Research Laboratory	UG/PG research projects; faculty research; advanced tool exposure beyond syllabus.
3	IDEA Lab	Innovation, prototyping, PCB development, 3D printing, product development.
4	5G Lab	5G technology demonstrations; IoT integration; AI/CV applications; drone systems.

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)	810	40	27	16	62
2024-25(CAYm1)	810	40	36	15	80
2025-26(CAY)	810	40	37	15	82

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	18430144.00	19352918.00	8250000.00	9147748.00	13387254.20	16620305.00	19376345	13472219
Library	3964686.00	3566549.00	6968000.00	3295385.00	6794000.00	2070496.00	6544000	2769714
Laboratory equipment	16239024.00	33160217.00	22246000.00	11264832.75	24959273.00	16876690.00	23594386	22138425
Teaching and non-teaching staff salary	321869429.00	331232549.00	287025877.00	293132886.00	248152654.00	260666369.00	235458660	229939313
Outreach Programs	150809.00	143507.00	861164.00	684506.00	73395.00	104245.00	116990	109079
R&D	2333849.00	4235874.00	10665705.00	7397843.77	9792111.00	6807732.33	9387239	2980326
Training, Placement and Industry linkage	13051886.00	12729812.76	8469008.00	12445368.00	3752247.00	4051128.00	3323068	3607568

SDGs	3823134.50	3312272.50	2020917.00	1769620.00	3022093.00	2584108.53	2614405	1336589
Entrepreneoushiip	891807.50	540569.50	753371.00	417222.00	521487.00	315911.53	250990	99331
Others, specify	52053098.00	59547321.86	54720746.00	66419529.47	47898206.80	49229583.61	37837441	62253227
Total	**432807867.00**	**467821590.62**	**401980788.00**	**405974940.99**	**358352721.00**	**359326569.00**	**338503524**	**338705791**

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	2918000	3392000	2918000	2619000	2123000	3028000	2918000	2470000
Software	200000	328000	200000	312000	200000	275000	200000	259000
SDGs	200000	176000	400000	692000	463000	682000	200000	182000
Support for faculty development	300000	188000	200000	205000	200000	208000	300000	1190000
R & D	364000	251000	265000	308000	265000	585000	365000	583000
Industrial Training, Industry expert, Internship	741000	1383000	741000	1383000	803000	860000	660000	642000
Miscellaneous Expenses*	2368000	2438000	2700000	2614000	4360000	5735000	1454000	2254000
Total	**7091000**	**8156000**	**7424000**	**8133000**	**8414000**	**11373000**	**6097000**	**7580000**