NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical and Electronics Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 1
Application No: 11818	**Date of Submission**: 18-05-2026

PART A- Profile of the Institute

A1.Name of the Institute: VEL TECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY	
Year of Establishment : 1997	Location of the Institute: Avadi
A2. Institute Address:No. 42, Avadi-Veltech Road, Avadi, Chennai	
City:Chennai	State:Tamil Nadu
Pin Code:600062	Website:www.veltech.edu.in
Email:DIAQ@VELTECH.EDU.IN	Phone No(with STD Code):044-26841348
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City:
State :	Pin Code: 0
A4. Type of the Institution: Deemed University	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **15**
- No. of PG programs: **13**

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	Aeronautical Engineering	2007	--	Aeronautical Engineering
2	Engineering & Technology	PG	Aeronautical Engineering (Unmanned Aerial Vehicles)	2015	--	Aeronautical Engineering
3	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	--	Artificial Intelligence and Data Science
4	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2021	--	Artificial Intelligence and Machine Learning
5	Engineering & Technology	PG	Big Data Analytics	2018	--	Computer Science and Engineering
6	Engineering & Technology	UG	Biomedical Engineering	2017	--	Biomedical Engineering
7	Engineering & Technology	UG	Biotechnology	2017	--	Biotechnology
8	Engineering & Technology	PG	Biotechnology	2020	--	Biotechnology
9	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering

10	Engineering & Technology	UG	Computer Science and Design	2021	--	Computer Science and Design
11	Engineering & Technology	UG	Computer Science and Engineering	1997	--	Computer Science and Engineering
12	Engineering & Technology	PG	Computer Science and Engineering	2006	--	Computer Science and Engineering
13	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2022	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
14	Engineering & Technology	UG	Computer Science and Engineering (Cyber Security)	2022	--	Computer Science and Engineering (Cyber Security)
15	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2022	--	Computer Science and Engineering (Data Science)
16	Engineering & Technology	UG	Electrical and Electronics Engineering	1997	--	Electrical and Electronics Engineering
17	Engineering & Technology	UG	Electronics & Communication Engineering	1997	--	Electronics and Communication Engineering
18	Engineering & Technology	PG	Embedded Systems Technologies	2018	--	Electronics and Communication Engineering
19	Engineering & Technology	PG	Environmental Engineering	2018	--	Civil Engineering
20	Engineering & Technology	PG	Industrial Safety Engineering	2016	--	Mechanical Engineering
21	Engineering & Technology	PG	Information and Cyber Security	2017	--	Information Technology
22	Engineering & Technology	UG	Information Technology	1998	--	Information Technology
23	Engineering & Technology	UG	Mechanical Engineering	2001	--	Mechanical Engineering
24	Engineering & Technology	PG	Metallurgical & Material Sciences	2016	--	Mechanical Engineering
25	Engineering & Technology	PG	Network Engineering	2016	2024	Computer Science and Engineering
26	Engineering & Technology	PG	Power Electronics	2009	--	Electrical and Electronics Engineering
27	Engineering & Technology	PG	Structural Engineering	2018	--	Civil Engineering
28	Management	PG	Master of Business Administration	1997	--	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
Information Technology	Yes	Information Technology	UG
Electrical and Electronics Engineering	No	Electrical and Electronics 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	Electrical and Electronics Engineering	UG	1997 / --	60	No	NA	60	1997	F.No. Southern/1-44638928064/2025/EOA	Granted accreditation for 3 years for the period (specify period)	2023	2026	1	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 :	Dr. Karunanithi. K
B. Nature of appointment:	Regular
C. Qualification:	M.E. 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	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	55	43	40	22	20	30	64
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	18	26	35	16	8	2
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	0	0	2	0	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	55	61	68	57	36	38	66

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	55	0	91.67
2024-25 (CAYm1)	60	43	0	71.67
2023-24 (CAYm2)	60	40	2	70.00

Average [(ER1 + ER2 + ER3) / 3] = 77.78≡ 14.00

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).	76.00	68.00	66.00
B=No. of students who graduated from the program in the stipulated course duration	30.00	27.00	51.00
Success Rate (SR)= (B/A) * 100	39.47	39.71	77.27

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 52.15

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)	6.71	6.65	7.24
Y=Total no. of successful students	43.00	40.00	22.00
Z=Total no. of students appeared in the examination	43.00	42.00	22.00
API [X*(Y/Z)]	6.71	6.33	7.24

Average API[(AP1+AP2+AP3)/3] : 6.76

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)	6.21	7.01	6.41
Y=Total no. of successful students	65.00	54.00	35.00
Z=Total no. of students appeared in the examination	66.00	57.00	35.00
API [X * (Y/Z)]	6.12	6.64	6.41

Average API [(AP1 + AP2 + AP3)/3] : 6.39

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)	7.34	6.71	6.76
Y=Total no. of successful students	53.00	34.00	36.00
Z=Total no. of students appeared in the examination	54.00	35.00	38.00
API [X*(Y/Z)]:	7.20	6.52	6.40

Average API [(AP1 + AP2 + AP3)/3] : 6.71

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	76.00	68.00	63.00
X=No. of students placed	24.00	20.00	42.00
Y=No. of students admitted to higher studies	1.00	5.00	0.00
Z= No. of students taking up entrepreneurship	0.00	0.00	1.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	32.89	36.76	68.25

Average Placement Index = (P_1 + P_2 + P_3)/3: 45.97 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. Karunanithi. K	XXXXXXX20P	M.E. and Ph.D.	Kalasalingam University	Power Systems	01/06/2018	7.10	Associate Professor	Professor	30/11/2020	Regular	Yes		Yes
2	Dr. Ramesh. S	XXXXXXX72R	M.E. and Ph.D.	Anna University	Power Systems	24/12/2018	7.4	Associate Professor	Professor	26/10/2019	Regular	Yes		No
3	Dr. Dhal. P.K.	XXXXXXX51J	M.E. and Ph.D.	Sathyabama University	Power Systems	04/02/2003	23.2	Associate Professor	Professor	01/10/2015	Regular	Yes		No
4	Dr. Chandrasekar. P	XXXXXXX44B	M.E. and Ph.D.	Anna University	Power Systems	04/06/2014	11.10	Associate Professor	Professor	26/10/2019	Regular	Yes		No

5	Dr. Siva Kumar. S	XXXXXXX26C	M.E. and Ph.D.	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Embedded Systems	20/07/2009	16.9	Lecturer	Professor	27/05/2024	Regular	Yes		No
6	Dr. Vinoth. K	XXXXXXX30P	M.Tech and Ph.D.	Anna University	Power Electronics and Drives	20/10/2017	8.6	Assistant Professor	Professor	26/05/2025	Regular	Yes		No
7	Dr. Nidagha Kumar Rayaguru	XXXXXXX55R	M.Tech and Ph.D.	Hindustan Institute of Technology & Science	Energy Systems	26/02/2018	8.2	Associate Professor	Professor	26/05/2025	Regular	Yes		No
8	Dr. Karthikumar. K	XXXXXXX34R	M.E. and Ph.D.	Anna University	Power Systems	27/01/2020	6.3	Assistant Professor	Professor	26/05/2025	Regular	Yes		No
9	Dr. Vinoth John Prakash. S	XXXXXXX44Q	M.E. and Ph.D.	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Applied Electronics	15/05/2014	11.11	Assistant Professor	Associate Professor	26/05/2025	Regular	Yes		No
10	Dr.Amosedinakaran. S	XXXXXXX65A	M.Tech and Ph.D.	Anna University	Power Systems	02/12/2022	3.4	Assistant Professor	Associate Professor	26/05/2025	Regular	Yes		No
11	Dr. Priya. R.A	XXXXXXX76R	M.Tech and Ph.D.	Anna University	Power Electronics and Drives	19/01/2023	3.3	Assistant Professor	Associate Professor	26/05/2025	Regular	Yes		No
12	Dr. Sivaraj. P	XXXXXXX41R	M.E. and Ph.D.	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Energy Engineering	14/06/2010	15.11	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Dr. Rajakumar. P	XXXXXXX32C	M.E. and Ph.D.	Anna University	Power Systems	02/12/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Dr.Hari Charan Nannam	XXXXXXX87H	M.Tech and Ph.D.	National Institute of Technology, Meghalaya	Power Systems	12/01/2023	3.4	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Dr.Priscilla Whitin	XXXXXXX40Q	M.Tech and Ph.D.	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	VLSI Design	06/06/2016	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No

16	Dr.Chithras. T	XXXXXXX82J	M.E. and Ph.D.	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Power Electronics and Drives	21/09/2016	9.7	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Dr.Sreedhar. R	XXXXXXX13N	M.Tech and Ph.D.	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Power Electronics and Drives	01/11/2017	8.5	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Dr.Baburao. P	XXXXXXX29R	M.Tech and Ph.D.	Annamalai University	Power Electronics and Drives	23/01/2023	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Dr. Balaji. B	XXXXXXX51C	M.E. and Ph.D.	Annamalai University	Power Electronics and Industrial Drives	28/08/2025	0.8	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Ms. Kasthuri. D	XXXXXXX81E	M.E.	Anna University	Power Electronics and Drives	27/08/2024	1.8	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Dr.Prabhu. M.S	XXXXXXX83C	M.E. and Ph.D.	Indian Institute of Technology (Indian School of Mines), Dhanbad	Power Systems	26/12/2022	1.4	Assistant Professor	Assistant Professor		Regular	No	25/05/2024	No
22	Dr. Barathi. K	XXXXXXX21M	M.E. and Ph.D.	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Power Electronics and Drives	22/09/2014	11.7	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
23	Mr. Sathyanathan. P	XXXXXXX11Q	M.E.	Anna University	Power Electronics and Drives	27/01/2020	6.3	Assistant Professor	Assistant Professor		Regular	No	25/06/2024	No
24	Mr.Prabu. K	XXXXXXX54F	M.E.	Anna University	Power Electronics and Drives	04/06/2014	11.11	Assistant Professor	Assistant Professor		Regular	No	25/06/2023	No
25	Mr.Vijayakumar. S C	XXXXXXX38D	M.E.	Anna University	Power Systems	27/01/2020	6.3	Assistant Professor	Assistant Professor		Regular	No	29/05/2023	No
26	Mr.Rajesh. R	XXXXXXX93Q	M.E.	Anna University	Power Systems	01/12/2014	11.5	Assistant Professor	Assistant Professor		Regular	No	31/05/2023	No
27	Dr. Jayasankar. V	XXXXXXX87A	M.E. and Ph.D.	Anna University	High Voltage Engineering	05/07/2017	8.10	Professor	Professor	05/07/2017	Regular	No	02/05/2023	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(2025-26)**	**CAYm1 (2024-25)**	**CAYm2 (2023-24)**
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Electrical and Electronics Engineering	**198**	**198**	**198**
PG1.A	12	12	18
PG1.B	12	18	18
PG1: Power Electronics	**24**	**30**	**36**
DS=Total no. of students in all UG and PG programs in the Department	222	228	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=** 222	**S2=** 228	**S3=** 234
DF=Total no. of faculty members in the Department	20	20	21
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=** 20	**F2=** 20	**F3=** 21
FF=The faculty members in F who have a 100% teaching load in the first-year courses	4	6	5
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 13.88**	**SFR2= 16.29**	**SFR3= 14.63**
Average SFR for 3 years	**SFR= 14.93**		

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)	19	1	11.00	44.09
2024-25(CAYm1)	14	6	11.00	37.27
2023-24(CAYm2)	15	6	11.00	39.55

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	1.00	8.00	2.00	3.00	7.00	9.00
2024-25	1.00	5.00	3.00	3.00	8.00	12.00
2023-24	1.00	4.00	3.00	4.00	8.00	13.00
Average	RF1=1.00	AF1=5.67	RF2=2.67	AF2=3.33	RF2=7.67	AF2=11.33

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	Prof. Dr. Shuichi Torii	Professor	Kumamoto University & Japan	Energy Storage Systems	15.00
2	Dr. N. Murugesan	Professor of Practice	Ohm Energy Services, Former Director General of CPRI.	Power System Automation	45.00
3	Dr. Kumaravel Rathinavel	Managing Director	Deutsche WindGuard India.	Wind Resource Assessment using Windographer	15.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Lung-Jieh Yang	Professor	Tamkang University & Taiwan	Sustainability and Offshore Wind Farm	15.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Prof. Dr. Sheldon Williamson	Professor	Ontario Tech University, Canada.	Smart Grid Communication Security Electrical Energy Storage Systems	15.00
2	Prof. Dr. Hee Yong Youn	Professor	Sungkyunkwan University, South Korea	Introduction to IoT & Applications	15.00
3	Prof. Dr. Jabed Choudhury	Professor	La Trobe University, Australia	Smart Grid Communication Security	15.00

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	85	41	59
2	No. of peer reviewed conference papers published	104	32	16
3	No. of books/book chapters published	8	7	5

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. Chandrasekar P	Dr. Hari Charan Nannam	DST- Climate, Energy and Sustainable Technology scheme	Real –Time Implementation of Cost-effective Solar Powered 6.6 kW Standalone DC Microgrid System in Tribal Remote Areas of Aliyar Region, Coimbatore District	Department of Science and Technology	3 year	27.03
Dr. Hari Charan Nannam	-	Entrepreneurship Development and Innovation Institute, Department of MSME, Government of Tamil Nadu	Indigenous high efficient buck boost converter for smart DC grid and renewable application	EDII-TN	1 Year	3.10
						Amount received (Rs.):30.13

(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
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
-	-	-	-	-	-	0.00
						Amount received (Rs.):0.00

Total Amount (Lacs) Received for the Past 3 Years: 30.13

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. Ramesh S	Dr. Vinoth K	EEE	PCB design, Fabrication and Assembly	Shibaura Machine India	180 Days	6.71
Dr. Ramesh S		EEE	PCB design, Fabrication and Assembly	Shibaura Machine India	150 Days	2.26
Dr. Vinoth K	Dr. Dhal P K	EEE	PCB design, Fabrication and Assembly for Fish	Maruthi Electronics Chennai	120 Days	0.98
						Amount received (Rs.):9.95

(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. Ramesh S		EEE	PCB design, Fabrication and Assembly	Ralph Technologies, Chennai	30 Days	0.53
Dr. Karunanithi K		EEE	PCB design, Fabrication and Assembly	Camware, Chennai	10 Days	0.12
Dr. Ramesh S		EEE	PCB design, Fabrication and Assembly	Ralph Technologies, Chennai	15 Days	0.26
Dr. Ramesh S		EEE	PCB design, Fabrication and Assembly	Camware, Chennai	300 Days	10.20
						Amount received (Rs.):11.11

(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
-	-	-	-	-		
						Amount received (Rs.):0

Total amount (Lacs) received for the past 3 years: 21.06

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. Karthikumar K	Modulation with DTC switching strategy for induction motor control	1 Year	1.00	0.64	Two Scopus Indexed Journals and one IEEE conference Publications
Dr. Ramesh S	-	1 Year	0.50		-
			Amount received (Rs.): 1.50		

(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.Priya R A	AI based magnet effect wind turbine system using DC servo drive system for the cylinder	1 year	1.60	1.60	One IEEE conference paper published, and one Scopus indexed article communicated.
			Amount received (Rs.): 1.60		

(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. Haricharan Nannam	Design and Analysis of a reconfigurable single-phase source inverter under variable load conditions	1 year	1.93	1.90	Two WoS articles published.
			Amount received (Rs.): 1.93		

Total amount (Lacs) received for the past 3 years : 5.03

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	Electrical Machines Laboratory	35	1. DC Shunt Motor 2. DC Series Motor 3. DC Compound Motor 4. DC Motor Coupled DC Shunt	30 Hours/Weel	Mr.S.Prakash	Lab Assistant	DEEE
2	Power Electronics Laboratory	35	1. Single Phase Half & Fully Controlled Bridge converter 2. SCR, MOSFET, IGBT, TRIAC, DIAC	36 Hours/Weel	Mr. K. Suresh babu	Lab Assistant	BE
3	Control and Instrumentation Laboratory	35	1.Wheatstone Bridge 2. Kelvin Bridge 3. Anderson Bridge 4. Schering Bridge 5. Hay's Bridge 6. De	30 Hours/week	Mrs. V. Irene Gnana Beau	Lab Assistant	DECE

4	Power System Simulation Laboratory	35	1. 34 Computers and Accessories 2. MATLAB R2025(Campus License) 3. DIgSILENT Power Factory 4. Ansys software	30 Hours/Weel	Mrs. R. Priscilla	Lab Instructor	BE
5	Basic Electrical Engineering Laboratory	35	1. Megger 2. Wattmeter 3. Lux Meter 4. Auto transformers 5. Resistive Loads 6. Lamp loads 7. Energy Meter	30 Hours/Weel	Ms.S.Kowsalya	Lab Assistant	DECE

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Electrical Machines Laboratory	The students are given safety handouts to ensure the safe and smooth conduction of the lab experiments. 1. DOs AND DON'Ts are displayed in the laboratory. 2. The laboratory is maintained with fire extinguishers and a first-aid box. 3. The workspace is kept tidy before, during, and after the experiment. 4. Proper grounding devices are used to control electrostatic discharges. 5. Safety devices such as fuses and circuit breakers are used to protect equipment from high currents and voltages. 6. Floor mats and buckets filled with sand are available in the laboratory. 7. Laboratory safety rules and symbols are displayed in the laboratory. 8. Unnecessary materials, particularly plastics, are prevented on the workbenches to avoid static damage. 9. Students are strictly instructed not to wear rings, watches, bracelets, necklaces, or other electrically conductive jewelry. 10. Students are strictly instructed to wear shoes with thick, insulating soles.
2	Power Electronics Laboratory	The students are given safety handouts to ensure the safe and smooth conduction of the lab experiments. 1. DOs AND DON'Ts are displayed in the laboratory. 2. The laboratory is maintained with fire extinguishers and a first-aid box. 3. Proper grounding devices are used to control electrostatic discharges. 4. Safety devices such as fuses and circuit breakers are used to protect equipment from high currents and voltages. 5. The workspace is kept tidy before, during, and after the experiment. 6. Unnecessary materials, particularly plastics are prevented on the workbenches to avoid static damage. 7. Students are strictly instructed not to wear rings, watches, bracelets, necklaces, or other electrically conductive jewelry. 8. Students are strictly instructed to wear shoes with thick, insulating soles. 9. Laboratory safety rules and symbols are displayed in the laboratory.
3	Control and Instrumentation Laboratory	The students are given safety handouts to ensure the safe and smooth conduction of the lab experiments. 1. DOs AND DON'Ts are displayed in the laboratory. 2. The laboratory is maintained with fire extinguishers and a first-aid box. 3. Proper grounding devices are used to control electrostatic discharges. 4. Safety devices such as fuses and circuit breakers are used to protect equipment from high currents and voltages. 5. The workspace is kept tidy before, during, and after the experiment. 6. Unnecessary materials, particularly plastics are prevented on the workbenches to avoid static damage. 7. Students are strictly instructed not to wear rings, watches, bracelets, necklaces, or other electrically conductive jewelry. 8. Students are strictly instructed to wear shoes with thick, insulating soles. 9. Lab safety rules and symbols are displayed in the laboratory.
4	Power System Simulation Laboratory	The students are given safety handouts to ensure the safe and smooth conduction of the lab experiments. 1. DOs AND DON'Ts are displayed in the laboratory. 2. The laboratory is maintained with fire extinguishers and a first-aid box. 3. Possession of fire hazardous elements inside simulation lab is strictly prohibited. 4. Proper grounding devices are used to control electrostatic discharges. 5. The workspace is kept tidy before, during, and after the experiment. 6. Safety devices such as fuses and circuit breakers are used to protect equipment from high currents and voltages. 7. Laboratory safety rules and symbols are displayed in the laboratory.
5	Basic Electrical Engineering Laboratory	The students are given safety handouts to ensure the safe and smooth conduction of the lab experiments. 1. DOs AND DON'Ts are displayed in the laboratory. 2. The laboratory is maintained with fire extinguishers and a first-aid box. 3. Proper grounding devices are used to control electrostatic discharges. 4. Safety devices such as fuses and circuit breakers are used to protect equipment from high currents and voltages. 5. The workspace is kept tidy before, during, and after the experiment. 6. Unnecessary materials, particularly plastics are prevented on the workbenches to avoid static damage. 7. Students are strictly instructed not to wear rings, watches, bracelets, necklaces, or other electrically conductive jewelry. 8. Students are strictly instructed to wear shoes with thick, insulating soles. 9. Laboratory safety rules and symbols are displayed in the laboratory.

D3. Project Laboratory/Research Laboratory

- The department has a dedicated Project Laboratory/Research Laboratory to support students in carrying out minor and major projects.
- The laboratory is well maintained by the faculty in-charge and laboratory instructor to ensure that all equipment is in proper working condition and the required consumables are readily available for project and research activities.
- The Project Laboratory/Research Laboratory is accessible to both students and faculty members for conducting project work and research activities.
- A utilization register is maintained to monitor and ensure the effective usage of the laboratory for project and research work.

Table 7.5 shows the facilities available in Project laboratory/ Research Laboratory/ Centre of Excellence

Name of the Laboratory	Name of the Equipment	Utilization Hours	Relevance to POs/PSOs
Power Electronics Laboratory	1. Speed Control of BLDC Trainer Module 2. Battery Charger Controller Module 3. Hub Motor with Controller Module 4. Speed Control of DC Trainer Module 5. Three phase capacitive load	30 hours/week	PO1, PO2, PO3, PO5, PSO1, PSO2
Electrical Machines Laboratory	1. Electric Motor Coil Winding Machine 2. Induction Generator 3. Three Phase Inductive Load	10 hours/week	PO1, PO2, PO3, PO4, PO5, PSO1, PSO2
Control and Instrumentation Laboratory	1. Arbitrary/Function Waveform Generator 2. ARM Processor Trainer Module 3. Solar PV Trainer Module 4. PLC Trainer Module 5. Pyranometer 6. Process control Trainer Module	20 hours/week	PO1, PO2, PO3, PO4, PO5, PSO1, PSO2

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)	2364	118	94	84	78
2024-25(CAYm1)	2550	128	99	98	77
2025-26(CAY)	2550	128	108	148	91

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	352567666	345126890	237990292	234220440	132209487	100606240	44726000	42857196
Library	4059600	2701578	3336800	3202297	2544300	1722685	3123000	3111648
Laboratory equipment	91890115	69665252	113402515	79069617	68484306	64134728	43634110	43339818
Teaching and non-teaching staff salary	1299715875	1250609668	1091953197	1061652769	921641470	854393947	743528658	740375519
Outreach Programs	0	0	0	0	0	0	0	0
R&D	21000000	18642064	27720000	27263287	10829910	6636901	10300000	3682229
Training, Placement and Industry linkage	14030000	12040923	11310000	11377768	9204000	4541257	13695000	6740606
SDGs	10000000	9915892	4100000	3927134	2200000	2065000	300000	260177
Entrepreneurship	0	0	0	0	0	0	0	0
Others, specify	1456736744	1453260301	1050187196	1013327475	844505353	801844648	722519522	702854184
Total	**3250000000**	**3161962568**	**2540000000**	**2434040787**	**1991618826**	**1835945406**	**1581826290**	**1543221377**

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	900000	829540	800000	742657	1200000	1105456	600000	541352

Software	0	0	0	0	0	0	300000	229950
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	100000	82688	150000	137583	500000	445136	50000	4397
R & D	0	0	1250000	119972	50000	9000	50000	7605
Industrial Training, Industry expert, Internship	0	0	0	0	0	0	0	0
Miscellaneous Expenses*	22602000	22228137	20139000	20255118	21130000	21067351	21800000	21745267
Total	**23602000**	**23140365**	**22339000**	**21255330**	**22880000**	**22626943**	**22800000**	**22528571**