

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical & Electronics Engineering	Discipline: Engineering & Technology
Level : Under Graduate	Tier: 1
Application No: 10973	Date of Submission: 06-07-2026

PART A- Profile of the Institute

A1.Name of the Institute: Siddhartha Academy of Higher Education	
Year of Establishment : 1977	Location of the Institute: Vijayawada
A2. Institute Address: VASANTHA NAGAR-POST KANURU	
City:--Select--	State:Andhra Pradesh
Pin Code:520007	Website:www.siddhartha.edu.in
Email:registrar@siddhartha.edu.in	Phone No(with STD Code):0866-2582333
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: **9**
- No. of PG programs: **15**

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	2004	--	Computer Application
2	Engineering & Technology	PG	Artificial Intelligence and Data Science	2024	--	Information Technology
3	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	--	Computer Science and Engineering
4	Engineering & Technology	PG	Automoted Manufacturing Systems	2022	--	Mechanical Engineering
5	Engineering & Technology	PG	CAD/CAM	2007	2022	Mechanical Engineering
6	Engineering & Technology	UG	Civil Engineering	1977	--	Civil Engineering
7	Engineering & Technology	PG	Communication & Signal Processing	2007	2022	Electronics and Communication Engineering
8	Engineering & Technology	UG	Computer Science and Engineering	1985	--	Computer Science and Engineering

9	Engineering & Technology	PG	Computer Science and Engineering	2007	2024	Computer Science and Engineering
10	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2022	--	Computer Science and Engineering
11	Engineering & Technology	PG	Cyber Security	2024	--	Computer Science and Engineering
12	Engineering & Technology	PG	Data Science	2019	2024	Information Technology
13	Engineering & Technology	UG	Electrical & Electronics Engineering	1977	--	Electrical and Electronics Engineering
14	Engineering & Technology	UG	Electronics & Communication Engineering	1977	--	Electronics and Communication Engineering
15	Engineering & Technology	UG	Electronics & Instrumentation Engineering	2006	--	Electronics and Instrumentation Engineering
16	Engineering & Technology	PG	Geotechnical Engineering	2016	2023	Civil Engineering
17	Engineering & Technology	UG	Information Technology	2000	--	Information Technology
18	Engineering & Technology	UG	Mechanical Engineering	1977	--	Mechanical Engineering
19	Engineering & Technology	PG	Power Systems Engineering	2007	2023	Electrical and Electronics Engineering
20	Engineering & Technology	PG	Signal processing & Communication Engineering	2025	--	Electronics and Communication Engineering
21	Engineering & Technology	PG	Structural Engineering	1998	--	Civil Engineering
22	Engineering & Technology	PG	Thermal Engineering	2010	2022	Mechanical Engineering
23	Engineering & Technology	PG	VLSI Design & Embedded Systems	2012	--	Electronics and Communication Engineering
24	Management	PG	Master of Business Administration	2007	--	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
Electrical and Electronics Engineering	No	Electrical & 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 APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electrical & Electronics Engineering	UG	1977 / --	18	Yes	2007	120	2007	F.No: 730-50-229(E)/ET/97 Date: 30-07-2007 and F.No: 11-132-2010-NBA 15-12-2022	Granted accreditation for 3 years for the period (specify period)	2022	2025	5	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. P.V.R.L.NARASIMHAM
B. Nature of appointment:	Regular
C. Qualification:	Ph.D

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	120	120	120	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	120	108	98	90	111	117	118
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	22	33	42	20	15	14
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	12	12	12	12	8	8	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	132	142	143	144	139	140	132

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

B4. Enrolment Ratio in the First Year

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

Year of entry	N (From Table 4.1)	N1 (From Table 4.1)	N4 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	120	120	12	110.00

2023-24 (CAYm1)	120	108	12	100.00
2022-23 (CAYm2)	120	98	12	91.67

Average $[(ER1 + ER2 + ER3) / 3] = 100.56 \approx 100$

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

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

Item	(2020-21) LYG	(2019-20) LYGm1	(2018-19) LYGm2
A*= (No. of students admitted in the 1st year of that batch and those actually admitted in the 2nd year via lateral entry, plus the number of students admitted through multiple entry (if any) and separate division if applicable, minus the number of students who exited through multiple entry (if any).	140.00	140.00	134.00
B=No. of students who graduated from the program in the stipulated course duration	126.00	123.00	113.00
Success Rate (SR)= (B/A) * 100	90.00	87.86	84.33

Average SR of three batches $((SR_1 + SR_2 + SR_3)/3)$: 87.40

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

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

Academic Performance	CAYm1(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	6.73	6.81	6.66
Y=Total no. of successful students	115.00	105.00	100.00
Z=Total no. of students appeared in the examination	115.00	105.00	100.00
API $[X*(Y/Z)]$	6.73	6.81	6.66

Average API $[(AP1 + AP2 + AP3)/3]$: 6.73

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	7.50	7.05	7.59
Y=Total no. of successful students	132.00	138.00	132.00
Z=Total no. of students appeared in the examination	138.00	142.00	137.00
API $[X * (Y/Z)]$	7.17	6.85	7.31

Average API $[(AP1 + AP2 + AP3)/3]$: 7.11

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

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

Academic Performance	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.38	7.91	7.41
Y=Total no. of successful students	134.00	132.00	135.00
Z=Total no. of students appeared in the examination	138.00	132.00	138.00

API [$X*(Y/Z)$]:	7.17	7.91	7.25
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Average API [$(AP1 + AP2 + AP3)/3$] : 7.44

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	140.00	135.00	134.00
X=No. of students placed	90.00	91.00	97.00
Y=No. of students admitted to higher studies	13.00	5.00	12.00
Z= No. of students taking up entrepreneurship	2.00	0.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	75.00	71.11	81.34

Average Placement Index = $(P_1 + P_2 + P_3)/3$: 75.82 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. P.V.R.L.NARASIMHAM	XXXXXXXX32Q	Ph.D	OSMANIA University	Electric Drives	30/11/2012	12.9	Professor	Professor	30/11/2012	Regular	Yes		Yes
2	Dr. A. RAMA DEVI	XXXXXXXX61K	Ph.D	JNTU Hyderabad	Power Systems	02/08/1997	28.1	Lecturer	Professor	13/01/2012	Regular	Yes		No
3	Smt. S.V.R. LAKSHMI KUMARI	XXXXXXXX98R	M.Tech	KAKATIYA University	Power Systems	04/07/2002	23.2	Lecturer	Associate Professor	01/01/2011	Regular	Yes		No
4	Dr. G. SRINIVASA RAO	XXXXXXXX63N	Ph.D	JNTU Hyderabad	Power Systems	15/03/2011	14.5	Associate Professor	Associate Professor	15/03/2011	Regular	Yes		No
5	Dr. B.VENKATESWARA RAO	XXXXXXXX02A	Ph.D	JNTU Hyderabad	Power Systems	14/06/2016	9.2	Associate Professor	Associate Professor	14/06/2016	Regular	Yes		No
6	Dr. J. RAMESH	XXXXXXXX91M	Ph.D	JNTU Kakinada	Power Systems	01/11/2017	7.10	Associate Professor	Associate Professor	01/11/2017	Regular	Yes		No
7	Dr. N. VAMSIKRISHNA	XXXXXXXX82K	Ph.D	Andhra University	Control Systems	23/01/2009	16.7	Lecturer	Assistant Professor		Regular	Yes		No

8	Dr. SUBHOJIT DAWN	XXXXXXX51K	Ph.D	NIT, SILCHAR	Power & Energy Systems	06/03/2020	5.5	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr P. VENKATESH	XXXXXXX00K	M.Tech	Acharya Nagarjuna University	Power Systems	11/09/2008	16.11	Lecturer	Assistant Professor		Regular	Yes		No
10	Dr. S. N. V. S. K. CHAITANYA	XXXXXXX14A	Ph.D	Annamalai University	Power Systems	19/06/2009	16.2	Lecturer	Assistant Professor		Regular	Yes		No
11	Mr T. SUNEEL	XXXXXXX18K	M.Tech	JNTU Kakinada	Power Electronics and Electric Drives	25/06/2009	16.2	Lecturer	Assistant Professor		Regular	Yes		No
12	Mr M. L. N. VITAL	XXXXXXX04B	M.Tech	VIT, Vellore	Power Electronics & Drives	15/06/2010	15.2	Lecturer	Assistant Professor		Regular	Yes		No
13	Mr R MADHU SUDHANA RAO	XXXXXXX06F	M.Tech	Acharya Nagarjuna University	Power Electronics & Power Systems	02/06/2012	13.3	Assistant Professor	Assistant Professor		Regular	Yes		No
14	Mr V HARI VAMSI	XXXXXXX30A	M.Tech	Andhra University	Control Systems	02/08/2012	13.1	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Dr. A. VEERA REDDY	XXXXXXX22G	Ph.D	Pondicherry University	Power Electronics & Drives	16/05/2015	10.3	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mr V. RAVINDRANADH CHOWDARY	XXXXXXX65G	M.Tech	NITK, Surathkal	Power & Energy Systems	01/07/2021	4.2	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Dr. K. DHANANJAY RAO	XXXXXXX34D	Ph.D	NIT Raipur	Control Systems and Electric Vehicles	11/08/2021	4	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Dr. J. VIMALA KUMARI	XXXXXXX72K	Ph.D	VIT University, Vellore	Control Systems.	25/08/2021	4	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Smt. B.SWARUPA RANI	XXXXXXX89L	M.Tech	JNTU Kakinada	Power Systems and High voltage Engineering	30/08/2022	3	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Smt.K.LALITHA	XXXXXXX92D	M.Tech	JNTU Kakinada	Power Electronics& Electric Drives	24/11/2022	2.9	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Dr.D.INDIRA	XXXXXXX88C	Ph.D	Anna University	Power Electronics &Industrial Drives	08/12/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No

22	Smt.V.BINDU	XXXXXXX71L	M.Tech	JNTU Kakinada	Power Electronics Engg	21/12/2022	2.8	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Dr.T.NAVEEN KUMAR	XXXXXXX66L	Ph.D	NIT Jamshedpur	Power System Engineering	09/01/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Mrs A. Sireesha	XXXXXXX17F	M.Tech	JNTU Kakinada	Power Electronics and Drives	16/08/2022	2.8	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
25	Ms D Vimala	XXXXXXX49P	M.Tech	JNTU Kakinada	Power Systems Engineering	20/08/2022	2.8	Assistant Professor	Assistant Professor		Regular	No	30/04/2025	No
26	Dr Rajesh Panda	XXXXXXX45F	Ph.D	NIT Silchar	Power System Engineering	26/12/2022	0.8	Assistant Professor	Assistant Professor		Regular	No	08/09/2023	No
27	Dr B Srinivasa Rao	XXXXXXX24B	Ph.D	JNTU Hyderabad	Power Systems	01/04/2004	18.6	Lecturer	Professor	01/07/2015	Regular	No	26/10/2022	No
28	Dr P Chandrababu Naidu	XXXXXXX29N	Ph.D	SRM University	Power Quality	25/05/2018	4.4	Assistant Professor	Assistant Professor		Regular	No	19/10/2022	No
29	Ms G Mythily	XXXXXXX35E	M.Tech	JNTU Kakinada	Power Systems Engineering	25/08/2021	2.8	Assistant Professor	Assistant Professor		Regular	No	30/04/2024	No

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

C2. Student-Faculty Ratio (SFR)

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

UG1=1st UG program

UGn=nth UG program

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

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

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

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

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

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

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

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

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

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

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

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

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	130	131	132
UG1.C	131	132	131
UG1.D	132	131	132
UG1: Electrical & Electronics Engineering	393	394	395

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
PG1.A	0	0	12
PG1.B	0	12	12
PG1: Power Systems Engineering	0	12	24
DS=Total no. of students in all UG and PG programs in the Department	393	406	419
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= 393	S2= 406	S3= 419
DF=Total no. of faculty members in the Department	25	26	22
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= 25	F2= 26	F3= 22
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	4	2
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 17.09	SFR2= 18.45	SFR3= 20.95
Average SFR for 3 years	SFR= 18.83		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 * [(10X + 4Y)/RF]$ where
- X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms.
- Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/ UGC norms.
- RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section C2 of this documents: (RF=S/20).

Table No.C3.1: Faculty qualification.

Year	X	Y	RF	$FQ = 2.5 \times [(10X + 4Y) / RF]$
2024-25(CAY)	12	13	19.00	22.63
2023-24(CAYm1)	11	15	20.00	21.25
2022-23(CAYm2)	9	13	20.00	17.75

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2024-25	2.00	2.00	4.00	3.00	13.00	20.00
2023-24	2.00	2.00	5.00	3.00	14.00	21.00

2022-23	2.00	2.00	5.00	3.00	14.00	17.00
Average	RF1=2.00	AF1=2.00	RF2=4.67	AF2=3.00	RF2=13.67	AF2=19.33

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	Er. P. RAVI PRASAD	CEO	PANDA ANALOG AND DIGITAL SYSTEMS	Mini/Major Projects	54.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er. P. RAVI PRASAD	CEO	PANDA ANALOG AND DIGITAL SYSTEMS	Mini/Major Projects	51.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Er. P. RAVI PRASAD	CEO	PANDA ANALOG AND DIGITAL SYSTEMS	Skill oriented course	112.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	30	25	23
2	No. of peer reviewed conference papers published	34	37	25
3	No. of books/book chapters published	6	7	6

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

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

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

Note*:

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

C8. Consultancy Work

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. P V R L Narasimham	-	EEE	Testing of Samples from HPL	HPL Electric & Power Ltd, Noida, UP	3 months	1.08
						Amount received (Rs.):1.08

(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. P V R L Narasimham	-	EEE	LED Tube Light Testing	APSRTC	15 days	0.04
						Amount received (Rs.):0.04

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

Total amount (Lacs) received for the past 3 years: 1.12

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.

1	High Voltage Engineering lab	3	1. 100kV, 10kVA High voltage testing AC testing unit and measuring equipment 2. 140kV, 20mA HVDC unit 3. 200kV/400V Breaker assembly (Two steps) 4. ...	UG-VI Sem 20	Mr. D.Jagannadham	Mechanic	DEEE
2	Computer Center (UG) lab	1	1 PSPICE 2. MIPOWER 3. MATLAB 4. PSCAD 5. PSIM 6. Power World 7. CC Studio 8.Desktops 48 9. ...	UG-III sem- 23	Mr. M.Dinesh Raghava	Mechanic	DCSE
3	Electrical Measurements & Control Systems	3	CT Test Kit 2. Earth Resistance measurement kit 3. Tektronix DSO 4. Analog discovery kit 5. Desktop Computer 6. Transfer function of DC generator 7. ...	UG-IV Sem 23	Mr. B.Suman	Jr. Mechanic	ITI
4	Power Electronics lab	3	Three-Phase IGBT Based inverter stack 2.Three Phase fully controlled rectifier module 3. 70MHz Digital Storage Oscilloscope 4. Buck converter 5. Boost ...	UG-VI Sem 20	Mr. V.Eswar Ram Subba I	Mechanic	B.Tech.
5	Power Systems lab	3	1. Electromagnetic relays 2. Static relays 3. Buchholz relay 4. Microprocessor base OC/EF relay 5. ...	UG-I Sem 23E	Mr. D.Jagannadham	Mechanic	DEEE
6	Electrical Machines lab	3	Synchronous machine 2. Induction machines 3. Single phase Induction motors with loading arrangement 4. ...	UG-II Sem 23F	Mr. N Srinivas and Sri. V.	Jr. Mechanic	DEEE and ITI
7	IoT Lab	1	1. Raspberry Pi Board	UG-III sem 23E	Mr. M.Dinesh Raghava	Mechanic	DCSE
8	Electronics lab	3	1.Digital and Analog boards 2. Function generators 3.RPS 4.Soldering station 5.DSOs 6.IC tester	UG I sem 24MI	Mr. B.Suman	Jr. Mechanic	ITI

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Control Systems and Electrical Measurements lab	Insulated Workstations: • Wooden tables are used throughout the laboratory to ensure better electrical insulation and enhanced safety for users during experiments. Fire Safety: • A fire extinguisher is readily available and easily accessible in the laboratory to handle emergencies. First Aid Awareness: • First aid charts are prominently displayed in the laboratory, providing clear guidance on how to respond to common injuries or emergencies.
2	Internet of Things lab	Insulated Workstations: • Wooden tables are used throughout the laboratory to ensure better electrical insulation and enhanced safety for users during experiments. Fire Safety: • A fire extinguisher is readily available and easily accessible in the laboratory to handle emergencies. First Aid Awareness: • First aid charts are prominently displayed in the laboratory, providing clear guidance on how to respond to common injuries or emergencies • Electrostatic Discharge mats.
3	Electronics lab	Insulated Workstations: • Wooden tables are used throughout the laboratory to ensure better electrical insulation and enhanced safety for users during experiments. Fire Safety: • A fire extinguisher is readily available and easily accessible in the laboratory to handle emergencies. First Aid Awareness: • First aid charts are prominently displayed in the laboratory, providing clear guidance on how to respond to common injuries or emergencies.
4	Power Electronics lab	Insulated Workstations: • Wooden tables are used throughout the laboratory to ensure better electrical insulation and enhanced safety for users during experiments. Fire Safety: • A fire extinguisher is readily available and easily accessible in the laboratory to handle emergencies. First Aid Awareness: • First aid charts are prominently displayed in the laboratory, providing clear guidance on how to respond to common injuries or emergencies.

5	Projects lab	Insulated Workstations: • Wooden tables are used throughout the laboratory to ensure better electrical insulation and enhanced safety for users during experiments. Fire Safety: • A fire extinguisher is readily available and easily accessible in the laboratory to handle emergencies. First Aid Awareness: • First aid charts are prominently displayed in the laboratory, providing clear guidance on how to respond to common injuries or emergencies.
6	High Voltage Engineering lab	Fire Safety • The laboratory is equipped with a fire extinguisher, ensuring preparedness for fire-related emergencies. Equipment Safety – Mesh Fencing • All four sides of each equipment are secured with mesh fencing. • The power supply to the control panel is enabled only when the mesh gate is closed, ensuring the safety of both personnel and equipment during operation. Electrical Safety • Insulation mats are installed at the control panel areas to prevent electrical shock and enhance user safety. Emergency Contact Information • Emergency phone numbers are clearly displayed at visible locations within the laboratory for quick access during critical situations. First Aid Guidance • First aid charts are prominently displayed, providing step-by-step instructions for immediate response to injuries or accidents.
7	Power Systems lab	Electrical Safety at Work Benches • Each workbench is equipped with a Miniature Circuit Breaker (MCB) and indicating lamps to ensure safe and monitored power usage during experiments. Proper Earthing • All laboratory equipment is properly earthed, significantly reducing the risk of electrical hazards. Emergency Exit Provision • The laboratory includes a clearly marked and accessible Emergency Exit to ensure safe evacuation during emergencies.
8	Computer Center (UG)	IT and Fire Safety Measures Fire Safety 1. Fire extinguishers are installed in the laboratory and are readily accessible in case of emergency. Computer System Maintenance 2. A lab technician regularly performs maintenance on all computers to ensure they remain in safe and optimal operating condition. Cybersecurity Measures 3. All computers are installed with updated antivirus software to protect against malware, ensuring data integrity and system security.
9	Electrical Machines lab	Electrical Safety Infrastructure Individual Switch Control • Each workbench is provided with an independent switch control, allowing safe and isolated operation of equipment. Insulation Mats • Insulation mats are placed at each work table to minimize the risk of electric shock. Fuse Protection • Fuse protection is integrated at every table to safeguard equipment and users from power surges or short circuits. Digital Voltage Monitoring • Digital meters are installed to verify and monitor incoming supply voltage, ensuring stable and safe power supply. Proper Grounding • All equipment is properly grounded to eliminate the risk of electrical faults and shocks. Underground Cabling • Underground cables are laid with appropriate trench arrangements to ensure safety, reduce clutter, and prevent tripping hazards. Safety Signage and Emergency Preparedness • Shock Treatment & Emergency Charts • Charts showing electric shock treatment procedures and emergency response steps are clearly displayed. Emergency Contact Display • Emergency phone numbers including Fire Station, Hospital, and Police Station are prominently displayed. First Aid & Medical Emergency Arrangements • The laboratory is equipped with emergency medical care arrangements and first aid kits. Ventilation and Fire Safety • The lab includes exhaust fans, appropriate fire extinguishers, and accessible water facilities to maintain a safe working environment. Personal Safety & Dress Code • Dress Code for Male Students • To prevent accidents involving rotating machinery, male students are advised to follow a strict lab-appropriate dress code. Hair Safety for Female Students • Female students must keep long hair securely tucked under their lab coat to avoid entanglement in equipment.

D3. Project Laboratory/Research Laboratory

Table No.7.5.1: Listof Project laboratory/ Research laboratory/ Centre of Excellence.

S.N.o	NameoftheLaboratory
1	Pre Incubation center (Projects laboratory)
2	Start-up Co-working space
3	Electrical Energy studies (Siemens Center of Excellence)

Facilities and utilization:

- The department has established a dedicated Project Room aimed at fostering the development of hardware projects and products that address societal needs. This specialized lab is well-equipped with a comprehensive range of electrical and electronic components and equipment, including microcontrollers, sensors, relays, regulated power supplies, motors, and more. It also houses various tools necessary for assembling circuit components, enabling end-to-end hardware development.
- Procurement of essential equipment and components is carried out annually under the *Innovation* budget head, ensuring that the lab remains updated with current technological requirements. Additionally, the lab is equipped with facilities for Printed Circuit Board (PCB) fabrication, allowing students to design and produce custom PCBs for their projects.
- The lab showcases previously developed hardware projects, serving as a valuable reference for future students to build upon and enhance with their innovative ideas. This promotes a culture of iterative development and continuous learning.
- The Project Room is actively utilized by students for both curriculum-based and hobby-driven hardware development. To encourage creativity and productivity, beyond the college working hours access is provided for students and faculty members. Student volunteers, under the supervision of a designated faculty in-charge, are responsible for the maintenance and organization of the lab. Students are permitted to work beyond regular college hours, fostering a flexible and supportive environment for innovation.
- The detailed facilities and services provided by the Project Room are listed in Table 7.5.2.

Table 7.5.2: Services/ Facilities in project laboratory

S.NO.	Name of the Lab	Facilities available	Services provided	Relevance to PO/PSO
1	Project laboratory	The Electronics Laboratory is comprehensively equipped to support a wide range of academic and project-based activities. Key features include: Diverse Component Inventory: The lab houses a wide variety of electrical and electronic components, including microcontrollers, sensors, relays, regulated power supplies, motors, and more. Extensive IC Collection: A broad range of both analog and digital integrated circuits (ICs) is readily available for use by students and faculty. If a specific IC is not in stock, the department offers a provision for procurement as per project requirements. Circuit Assembly Tools: The lab is equipped with various tools and equipment necessary for assembling electronic circuits efficiently and accurately. PCB Fabrication Facility: Students and faculty have access to resources for designing and fabricating Printed Circuit Boards (PCBs), enabling hands-on experience in hardware development. Project Display Area: Dedicated space is available to exhibit completed hardware projects, serving as reference models and sources of inspiration for ongoing and future work. Campus Connectivity: The entire campus, including the lab, is supported by 24/7 internet access and Wi-Fi with a 2Gbps connectivity for computing.	Free Component Access: A wide variety of electrical and electronic components are available and issued to students at no cost, supporting hassle-free project development and experimentation. The project lab offers beyond the working hours for students and faculty, promoting flexibility and extended work sessions for academic and research activities. Student-Driven Management: The lab is managed by a dedicated team of student volunteers under the supervision of a faculty in-charge. This team is responsible for maintaining an updated inventory and ensuring smooth day-to-day operations. Expenditure: Amount spent 2024-25: 49,957/- Amount spent 2023-24: 91919/- Amount spent 2022-23: 49,349/-	PO4,PO11,PO12
2	Start-up Co-working space	- High speed Internet - Soldering Station / PCB Tools - Arduino, Raspberry Pi kits - Work stations - Meeting room - Event spaces Outcomes: - Chitti Motors Private Limited (CIN: U30910AP2024PTC115242) - Pranayuv Technologies Pvt.Ltd (CIN: U62099AP2025PTC119012) - Syncpedia Technologies Pvt.Ltd (CIN: U62091TS2025PTC198171)	- Guidance in Development of prototypes - Company Registration & Legal Assistance - Mentorship & Start-up Guidance - Mentorship from Industry Experts	PO4,PO11,PO12

S.NO.	Name of the Lab	Facilities available	Services provided	Relevance to PO/PSO
3	Electrical Energy Studies (Centre of Excellence)	5.5 KW Induction Motor - TIMER AND RELAY KIT 3WT AIR CIRCUIT BREAKER 3WL AIR CIRCUIT BREAKER - SOFT - STARTER PANEL 3VA MCCB - TYPE II CO-ORDINATION KIT - G120 AC DRIVES KIT - STAR-DELTA STARTER KIT 6RA80 DC DRIVES KIT - Energy Saving kit - SIMOCODE PRO SIRIUS MOTOR - SENTRON PAC4200 - Intel Xeon Quad Core (E5-1620, E5-1607, E5 - 1603), Windows 7 Professional / Ultimate 64 bit (English), 32GB DDR4 RAM, 2 GB graphics Card, 1TB HDD	Training and Certification Program: - Structured training is provided through four focused modules: - Module 1: Induction Motors - Module 2: AC/DC Drives - Module3: Low Voltage Switchgear – Part 1 - Module 4: Low Voltage Switchgear – Part 2 - Upon successful completion of all modules, certificates are awarded, recognizing the participant's skills and knowledge	PO5,PSO1

Outcome of the Project Laboratory:

Few of Innovative Models developed through project lab are listed in Table 7.5.3.

Table 7.5.3: Innovative models developed through projects lab

S.NO	TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
1	Chitti E-Moped 	Manufacturing of low-cost local mobility E cycles and bikes empowering electric vehicles in the domestic market. The aim of the project is to manufacture low cost e-bicycle for senior citizens and teenagers for local mobility.	L Avinash and Muralikrishna Reddy	Dr.PVRLNarasimham, HoD EEE

S.NO	TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
2	Hybrid Smart Bed 	The Hybrid Convertible Smart Bed cum Wheelchair is designed for hospital in-patients and bedridden patients. This innovative solution combines the comfort of a bed with the versatility of a wheelchair, addressing challenges related to mobility and continuous health monitoring. With IoT connectivity, it offers real-time health tracking, ensuring continuous monitoring and improved patient care through its integrated smart features.	P sairamakrishna and Md.Rayyan	Dr.GummadiSrinivasarao Associate Professor, EEE
3	Multi-Purpose Agriculture machine 	The Main objective of this project is to develop a compact machine that is used for sowing the seeds and spraying of pesticides in the agriculture fields.	D Guru Charan	Dr.A.Ramadevi, Professor, EEE

S.NO	TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
4	Low-Cost Luggage Transport Tricycle 	Transport tricycle being used in the campus to carry diesel from service station to campus power house (DG Sets available). It can carry weight up to one ton. Driver: BLDC drive of 750Watts, Batteries: Lead Acid batteries with 12V, 24A – 4 Nos; It is built in the year of 2014. This project funded by SAGTE.	Sateesh Kumar	Dr. P.V.R.L. Narasimham HOD-EEE
5	Digital Voltmeter 	Digital panel voltmeter is designed to measure a DC supply voltage and display the value using 7-segment display modules. The system is built around the PIC16F676 microcontroller, which features an internal Analog-to-Digital Converter (ADC) and GPIO (General Purpose Input/Output) ports. The microcontroller reads the analog voltage input, converts it to a digital value, and then drives a multiplexed 3-digit 7-segment display to show the voltage.	Dr. N. Vamsi Krishna Mr. Ch. S.V.S. Phani Kumar	Mr. P. Ravi Prasad

S.NO	TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
6	Microcontroller Based Phase Sequence Detection and Correcting Device for on-Load Tap Changer 	If the phase sequence of the grid supply (APSPDCL) changes, the automatic tap changer may become supportive or problematic. During maintenance, a change in the incoming line sequence reverses the motor's rotation, preventing the load from receiving the rated voltage. This project aims to design a circuit that detects and corrects the phase sequence, ensuring the induction motor rotates in the correct direction and delivers the rated voltage to the load. Although primarily used for transformers, the circuit can also be applied to other appliances for phase sequence correction.	P.DharmaLingeswar N.Ramesh T.SaiPriyanka	Dr.P.V.R.L. NARASIMHAM Mr. A. HARIPRSAD
7	AC Power Saver 	The induction motor in an air conditioner compressor draws 2-3 times its rated current at starting. The control unit switches the compressor OFF when the room reaches the set temperature and turns it ON again after a 1°C change. Frequent ON/OFF cycles increase power consumption. To reduce this, an AC Power Saver device was developed, allowing users to set minimum and maximum temperatures. This reduces compressor cycling and lowers overall power consumption.	Mr. A Hari Prasad	-----

S.NO	TITLE OF THE PROJECT	DESCRIPTION	PROJECT MEMBERS	GUIDE
8	Automatic Street Light Timer Controller	An astronomical timer controls lighting or other electrical loads based on sunrise and sunset, with an option for a night break to save energy. It automatically adjusts to seasonal day-night changes using the current date and location coordinates. The timer calculates the sun's position relative to the horizon to set precise daily ON/OFF times, which can be programmed independently.	R MadhusudhanaRao Assistant Professor, EEE	-----

PART E: First Year faculty and financial Resources

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

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4)); Percentage= ((NS1*0.8) +(NS2*0.2))/RF
2022-23(CAYm2)	1260	63	38	128	89
2023-24(CAYm1)	1320	66	43	145	96
2024-25(CAY)	1380	69	50	139	98

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

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

Items	Budgeted in 2024-25	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	Budgeted in 2021-22	Actual Expenses in 2021-22 till
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Infrastructure Built-Up	50000000.00	90249647.83	50000000.00	29137444.00	10000000.00	1400000.00	50000000.00	45315148.00
Library	4600000.00	3920550.00	3650000.00	3150083.00	4000000.00	3565437.00	3900000.00	2774595.00
Laboratory equipment	71689250.00	67492337.60	56106300.00	50819305.00	41047035.00	46091758.00	36620140.00	24857506.55
Teaching and non-teaching staff salary	430000000.00	401593070.00	350000000.00	361377567.00	350000000.00	326292364.85	340000000.00	331507012.00
Outreach Programs	2750000.00	1667543.00	3000000.00	2140080.00	1900000.00	1272928.00	1400000.00	1698441.00
R&D	5000000.00	6043844.00	3000000.00	2754486.00	1500000.00	1764706.00	1500000.00	898527.00
Training, Placement and Industry linkage	18503690.00	16476526.00	12590000.00	7325508.00	8920000.00	7976791.00	10143500.00	5865709.00
SDGs	6135000.00	5336808.00	2585000.00	1945540.00	1635000.00	1123639.00	1585000.00	1405335.00
Entrepreneurship	1500000.00	1371452.00	1000000.00	1287518.00	1000000.00	737777.00	1000000.00	309371.00
Others, specify	156271800.00	168946865.43	78706895.00	114701550.60	89599722.00	109415357.16	70165100.00	98909636.56
Total	746449740.00	763098643.86	560638195.00	574639081.60	509601757.00	499640758.01	516313740.00	513541281.11

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

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

Items	Budgeted in 2024-25	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	Budgeted in 2021-22	Actual Expenses in 2021-22 till
Laboratory equipment	6517700	5500039	2970820	2788529	357000	344035	1700000	1707190
Software	0	0	0	0	75000	70800	100000	70800
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	535000	447423	150000	47360	35000	49540	150000	39964
R & D	50000	341837	300000	535172	50000	128418	500000	208266
Industrial Training, Industry expert, Internship	0	314489	0	129173	0	3000	0	90000
Miscellaneous Expenses*	560800	375580	600000	413035	396000	325846	634000	498511
Total	7663500	6979368	4020820	3913269	913000	921639	3084000	2614731