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: 11584	**Date of Submission**: 13-02-2026

PART A- Profile of the Institute

A1.Name of the Institute: BONAM VENKATA CHALAMAYYA ENGINEERING COLLEGE	
Year of Establishment : 1997	Location of the Institute: Odalarevu
A2. Institute Address:ODALAREVU,ALLAVARAM MANDAL,EAST GODAVARI DIST,ANDHRA PRADESH	
City:--Select--	State:Andhra Pradesh
Pin Code:533210	Website:www.bvcec.edu.in
Email:bvce@bvcgroup.in	Phone No(with STD Code):08856-250045
A3. Name and Address of the Affiliating University (if any):	
Name of the University : JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINAD	City: east Godavari
State : Andhra Pradesh	Pin Code: 533003
A4. Type of the Institution: Autonomous CAY(2018-19)	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **10**
- No. of PG programs: **8**

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	PG	Advanced Manufacturing Systems	2012	--	Mechanical Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Machine Learning	2021	--	Computer Science and Engineering
3	Engineering & Technology	UG	Civil Engineering	2009	--	Civil Engineering
4	Engineering & Technology	UG	Computer Science and Engineering	1998	--	Computer Science and Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2009	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2022	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence and Data Science)	2020	--	Computer Science and Engineering
8	Engineering & Technology	UG	Electrical and Electronics Engineering	1997	--	Electrical and Electronics Engineering
9	Engineering & Technology	UG	Electronics & Communication Engineering	1997	--	Electronics and Communication Engineering
10	Engineering & Technology	PG	Embedded Systems	2009	--	Electronics and Communication Engineering
11	Engineering & Technology	UG	Information Technology	2024	--	Computer Science and Engineering
12	Engineering & Technology	UG	Mechanical Engineering	1997	--	Mechanical Engineering
13	Engineering & Technology	UG	Mining Engineering	2015	2016	Civil Engineering
14	Engineering & Technology	PG	Power Electronics	2010	--	Electrical and Electronics Engineering
15	Engineering & Technology	PG	Software Engineering	2011	2016	Computer Science and Engineering
16	Engineering & Technology	PG	Soil Mechanics & Foundation Engineering	2012	2021	Civil Engineering
17	Engineering & Technology	PG	Structural Engineering	2015	--	Civil Engineering
18	Engineering & Technology	PG	Thermal Engineering	2010	2021	Mechanical Engineering

A7. Programs to be considered for Accreditation vide this Application:

Table No. A7.1: List of programs to be considered for accreditation.

Name of the Department	Having Allied Departments	Name of the Program	Program Level
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	Yes	2021	60	2021	South-Central/1-9323262167/2021/ EOA 02-Jul-2021	Granted accreditation for 3 years for the period (specify period)	2009	2012	1	4

Sanctioned Intake for Last Five Years for the Power Electronics	
Academic Year	**Sanctioned Intake**
2025-26	60
2024-25	60
2023-24	60
2022-23	60
2021-22	60
2020-21	120

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 :	Sambana Srikanth
B. Nature of appointment:	Regular
C. Qualification:	M.Tech and Ph.D.

B3. Program Details

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

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2025-26 (CAY)	2024-25 (CAYm1)	2023-24 (CAYm2)	2022-23 (CAYm3)	2021-22 (CAYm4)	2020-21 (CAYm5)	2019-20 (CAYm6)
N=Sanctioned intake of the program (as per AICTE / Competent authority)	60	60	60	60	60	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	41	54	54	43	48	24	24
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	9	12	9	18	79	38
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	6	6	6	6	6	1	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	47	69	72	58	72	104	62

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	41	6	78.33
2024-25 (CAYm1)	60	54	6	100.00
2023-24 (CAYm2)	60	54	6	100.00

Average [(ER1 + ER2 + ER3) / 3] = 92.78≡ 20.00

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).	78.00	199.00	158.00
B=No. of students who graduated from the program in the stipulated course duration	56.00	83.00	53.00
Success Rate (SR)= (B/A) * 100	71.79	41.71	33.54

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 49.01

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)	7.95	7.85	7.25
Y=Total no. of successful students	45.00	44.00	36.00
Z=Total no. of students appeared in the examination	54.00	54.00	43.00
API [X*(Y/Z)]	6.62	6.40	6.07

Average API[(AP1+AP2+AP3)/3] : 6.36

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)	7.90	7.60	7.62
Y=Total no. of successful students	49.00	45.00	56.00
Z=Total no. of students appeared in the examination	51.00	47.00	60.00
API [X * (Y/Z)]	7.59	7.28	7.11

Average API [(AP1 + AP2 + AP3)/3] : 7.33

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	8.09	7.50	7.53
Y=Total no. of successful students	47.00	56.00	83.00
Z=Total no. of students appeared in the examination	48.00	56.00	86.00
API [X*(Y/Z)]:	7.92	7.50	7.27

Average API [(AP1 + AP2 + AP3)/3] : 7.56

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	78.00	199.00	158.00
X=No. of students placed	46.00	72.00	40.00
Y=No. of students admitted to higher studies	4.00	5.00	5.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	64.10	38.69	28.48

Average Placement Index = (P_1 + P_2 + P_3)/3: 43.76 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	Sambana Srikanth	XXXXXXX11P	M.Tech and Ph.D.	Andhra University, Visakhapatnam	Power Systems	04/09/2000	25.5	Assistant Professor	Professor	02/01/2021	Regular	Yes		Yes
2	Adabala Rama Krishna	XXXXXXX12F	M.Tech	JNTUK,Kakinada	Power Electronics	05/12/2012	13.2	Assistant Professor	Assistant Professor		Regular	Yes		No
3	Ganapavarapu Lova Raju	XXXXXXX99N	M.Tech	JNTUK,Kakinada	Power Electronics	06/01/2016	10.1	Assistant Professor	Assistant Professor		Regular	Yes		No
4	Nandyala Siva Nagendra	XXXXXXX49P	M.Tech	JNTUK,Kakinada	Power Electronics	06/05/2015	10.9	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Adabala Siva Sarpakara Rao	XXXXXXX33F	M.Tech	JNTUK,Kakinada	Power Electronics	11/04/2017	8.10	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Esram Raju	XXXXXXX72R	M.Tech	JNTUH,Hyderabad	Power Electronics and Electrical Drives	31/05/2016	9.8	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Mantri Srinivasa Rao	XXXXXXX90N	M.Tech and Ph.D.	JNTUK,Kakinada	Power System	07/11/2003	22.3	Assistant Professor	Professor	22/03/2023	Regular	Yes		No
8	Chaladi Mani Teja	XXXXXXX26P	M.Tech	JNTUK,Kakinada	Power Electronics	01/06/2018	7.8	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Adabala Venkata Narayana	XXXXXXX15J	M.Tech	JNTUK,Kakinada	Power Systems	22/06/2018	7.7	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Tarapatla Mani Ratnam	XXXXXXX29J	M.Tech	JNTUK,Kakinada	Power Systems	15/09/2021	4.4	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Kambala Vijaya Prasad	XXXXXXX31K	M.Tech	JNTUK,Kakinada	Power Electronics	16/06/2023	2.7	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Koppisetty Satya Rajasekhar	XXXXXXX56N	M.Tech and Ph.D.	VNIT ,Nagapur	Power System	29/07/2024	1.6	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Katari Ramcharan	XXXXXXX73A	M.E.	Andhra University, Visakhapatnam	Control Systems	19/02/2011	14.5	Assistant Professor	Assistant Professor		Regular	No	31/07/2025	No
14	Karra Srinivasa Kalyani	XXXXXXX28P	M.Tech	JNTUK,Kakinada	Power Electronics	01/11/2019	6.3	Assistant Professor	Assistant Professor		Regular	Yes		No
15	Vetukuri Anusha	XXXXXXX60D	M.Tech	JNTUK,Kakinada	Power Electronics	01/10/2018	7.4	Assistant Professor	Assistant Professor		Regular	Yes		No

16	Chollangi Venkata Ramu	XXXXXXX79G	M.Tech	JNTUK,Kakinada	Power Electronics	01/06/2019	6	Assistant Professor	Assistant Professor		Regular	No	27/06/2025	No
17	Chedalla Swetha	XXXXXXX35A	M.Tech	JNTUK,Kakinada	Power Electronics	20/01/2020	6	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Byireddy Dilip Kumar	XXXXXXX23G	M.E.	Andhra University, Visakhapatnam	Control Systems	06/06/2016	8.11	Assistant Professor	Assistant Professor		Regular	No	31/05/2025	No
19	Matta Ravi Teja	XXXXXXX57N	M.Tech	JNTUK,Kakinada	Power Electronics	01/06/2019	6	Assistant Professor	Assistant Professor		Regular	No	30/05/2025	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	132
UG1: Electrical and Electronics Engineering	**198**	**198**	**264**
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Power Electronics	**36**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	234	234	300
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=** 234	**S2=** 234	**S3=** 300
DF=Total no. of faculty members in the Department	15	19	18
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=** 15	**F2=** 19	**F3=** 18
FF=The faculty members in F who have a 100% teaching load in the first-year courses	2	2	2
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 18.00**	**SFR2= 13.76**	**SFR3= 18.75**
Average SFR for 3 years	**SFR= 16.84**		

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)	3	12	11.00	17.73
2024-25(CAYm1)	3	16	11.00	21.36
2023-24(CAYm2)	2	16	14.00	15.00

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	1.00	2.00	2.00	0.00	7.00	13.00
2024-25	1.00	2.00	2.00	0.00	7.00	17.00
2023-24	1.00	2.00	3.00	0.00	10.00	16.00
Average	RF1=1.00	AF1=2.00	RF2=2.33	AF2=0.00	RF2=8.00	AF2=15.33

C5. Visiting/Adjunct Faculty/Professor of Practice

Table No. C5.1: List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	V.Saideep	Software Development Manager	Amazon India	Java Programming, Python Programming	52.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	V.S.S.Ramesh.K.Junnri	Associate Director	Carrier Technologies India Ltd	Control Systems, PLC	53.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	V.S.S.Ramesh.K.Junnri	Associate Director	Carrier Technologies India Ltd	Control Systems, PLC	52.00

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	11	10	9
2	No. of peer reviewed conference papers published	2	1	0
3	No. of books/book chapters published	1	1	1

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
V.Chandra Mouli Venkata Srinivas	Sambana Srikanth	Electrical and Electronics Engineering	Empowering tribal fishing community through development of innovative and standardized smoking kilns improvised traditional fishing gears	DST ,Government of India	3 Years	141.19
						Amount received (Rs.):141.19

(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
Mantri Srinivasa Rao		Electrical and Electronics Engineering	Science and Technology Intervention to Make Low-Cost Fish Dryer to Enhance Socio-Economic Status of ST Fishing Community of Konaseema Region	DST ,Government of India	2 Years	38.63
						Amount received (Rs.):38.63

Total Amount (Lacs) Received for the Past 3 Years: 179.82

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
K.Y Satya Rajasekhar	Esram Raju	Electrical and Electronics Engineering	Design and Development of Smart Power Monitoring and Energy Management System	Hack Boats	Two Years	3.40
A.Siva Sarpakara Rao	Ch. Mani Teja	Electrical and Electronics Engineering	Development of Industrial Motor Control and Protection System using Power Electronics	Hack Boats	Two Years	4.20
						Amount received (Rs.):7.60

(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
G. Lova Raju	T. Mani Ratnam	Electrical and Electronics Engineering	Design of IoT-Based Industrial Condition Monitoring System	HackBoats	Two Years	3.60
N. Siva Nagendra	A. Venkata Narayana	Electrical and Electronics Engineering	Design and Fabrication of Embedded Controller with Custom PCB for Automation Applications	HackBoats	Two Years	3.10
						Amount received (Rs.):6.70

(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
K. Ramcharan	B. Dilip Kumar	Electrical and Electronics Engineering	Prototype Development and Performance Testing of Intelligent Electrical Drive System	HackBoats	Two Years	3.80
A. Rama Krishna	Ch. Venkata Ramu	Electrical and Electronics Engineering	Installation and Commissioning of Smart Electrical Automation System with Training	HackBoats	Two Years	2.90
						Amount received (Rs.):6.70

Total amount (Lacs) received for the past 3 years: 21.00

Note*:

- Only consultancy projects will be considered. Infrastructure-based projects will not be considered here.

C9. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

Table No. C9.1: List of faculty members received seed money or internal research grant from the Institution.

(CAYm1)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
M Srinivasa Rao	Design And Implementation Of Eco-Friendly Six Seater Electrical Vehicle By Using PMSM Motor	6 months	3.00	2.46	Working Model
			Amount received (Rs.): 3.00		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
S Srikanth	Development Of An Voice-Controlled Electric Wheelchair With Gyro Bluetooth And Joystick	6 months	1.00	0.65	Working Model
K Vijayaprasad	Design and Development of a Customized Electric Bicycle	6 months	0.40	0.17	Working Model
			Amount received (Rs.): 1.40		

(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
A. Ramakrishna	Attachable & Detachable Electric Wheel Chair For Physically Challenged Person	6 months	0.80	0.65	Working Model
N Siva Nagendra	LAB VIEW Based Speed and braking system monitoring using NI DAQ	6 months	0.60	0.45	Working Model
A Siva Sarpakara Rao	Semi Automatic Corn Roasting machine by using solar energy	6 months	0.40	0.27	Working Model
			Amount received (Rs.): 1.80		

Total amount (Lacs) received for the past 3 years : 6.20

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 and Electronics Engineering Workshop Lab	4	1-ϕ Transformer, 1-ϕ auto-transformer, Wheatstone bridge, Superposition theorem kit, KVL&KCL kit.	Odd sem=18hr	T Balaji	ITI	Lab Assistant
2	Electrical Measurements Lab	4	1-ϕ Energy meter. 1-ϕ Resistive load, Choke coil, Schering bridge, LVDT.	Odd sem=0hrs	V Pattabhi Ramayya	Diploma	Lab Technician
3	Power Electronics Lab	4	CROs, Isolation transformers, 1-ϕ Inductive load, Cyclo converter, Bridge inveter, 1-ϕ fully controlled	Odd sem=6hrs	I Ramu	ITI	Lab Assistant
4	Electrical Circuits Lab	4	Thevinis Theorem, Superposition Theorem, Maximum power transfer Theorem kits, Regulated power supply.	Odd sem=6hrs	V Ravi Kumar	B.Tech	Lab Technician
5	Electrical Simulation Lab	1	30 no. of Systems with high speed internet, Having MAT lab, Python, B2-Spice software.	Odd sem=24hr	I Ramu	ITI	Lab Assistant
6	Electrical Machines Lab	4	DC Motor-Generator set, DC Shunt Motor with brake drum arrangement, DC Shunt Generator, 1-ϕ	Odd sem=24hr	G Chandar Rao	ITI	Lab Technician

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Electrical and Electronics Engineering Workshop Lab	General Rules of Conduct in Laboratories are displayed (Dos & Don'ts). First aid box, Fire extinguisher is kept at the laboratory. Well trained technical supporting staff. Avoiding the use of damaged equipment and provides needful equipment and components. Maintain a clean and organized laboratory. Periodical servicing of the lab equipments. Avoiding the use of cell phones. Appropriate storage areas. Racks to store student belongings. Proper ventilation is provided to avoid exposure to dust and other harmful substances. Proper Natural as well as artificial lighting wherever necessary is provided. Electrical Wires are protected by MCB and fuses. Perfect earthling is provided and it is regularly maintained for all equipment's. All circuits are checked for proper connections and polarity before connecting to power supply. In addition to the safety measures, an on-call nursing and medical room facility is available to cater all the medical emergencies. CCTV Surveillance are provided.

2	Electrical Measurements Lab	General Rules of Conduct in Laboratories are displayed (Dos & Don'ts). First aid box, Fire extinguisher is kept at the laboratory. Well trained technical supporting staff. Avoiding the use of damaged equipment and provides needful equipment and components. Maintain a clean and organized laboratory. Periodical servicing of the lab equipments. Avoiding the use of cell phones. Appropriate storage areas. Racks to store student belongings. Proper ventilation is provided to avoid exposure to dust and other harmful substances. Proper Natural as well as artificial lighting wherever necessary is provided. Electrical Wires are protected by MCB and fuses. Perfect earthling is provided and it is regularly maintained for all equipment's. All circuits are checked for proper connections and polarity before connecting to power supply. In addition to the safety measures, an on-call nursing and medical room facility is available to cater all the medical emergencies. CCTV Surveillance is provided.
3	Power Electronics Lab	General Rules of Conduct in Laboratories are displayed (Dos & Don'ts). First aid box, Fire extinguisher is kept at the laboratory. Well trained technical supporting staff. Avoiding the use of damaged equipment and provides needful equipment and components. Maintain a clean and organized laboratory. Periodical servicing of the lab equipments. Avoiding the use of cell phones. Appropriate storage areas. Racks to store student belongings. Proper ventilation is provided to avoid exposure to dust and other harmful substances. Proper Natural as well as artificial lighting wherever necessary is provided. Electrical Wires are protected by MCB and fuses. Perfect earthling is provided and it is regularly maintained for all equipment's. All circuits are checked for proper connections and polarity before connecting to power supply. In addition to the safety measures, an on-call nursing and medical room facility is available to cater all the medical emergencies. CCTV Surveillance is provided.
4	Electrical Circuits Lab	General Rules of Conduct in Laboratories are displayed (Dos & Don'ts). First aid box, Fire extinguisher is kept at the laboratory. Well trained technical supporting staff. Avoiding the use of damaged equipment and provides needful equipment and components. Maintain a clean and organized laboratory. Periodical servicing of the lab equipments. Avoiding the use of cell phones. Appropriate storage areas. Racks to store student belongings. Proper ventilation is provided to avoid exposure to dust and other harmful substances. Proper Natural as well as artificial lighting wherever necessary is provided. Electrical Wires are protected by MCB and fuses. Perfect earthling is provided and it is regularly maintained for all equipment's. All circuits are checked for proper connections and polarity before connecting to power supply. In addition to the safety measures, an on-call nursing and medical room facility is available to cater all the medical emergencies. CCTV Surveillance, Antivirus and firewall. UPS is available in case of power failure.
5	Electrical Simulation Lab	General Rules of Conduct in Laboratories are displayed (Dos & Don'ts). First aid box, Fire extinguisher is kept at the laboratory. Well trained technical supporting staff. Avoiding the use of damaged equipment and provides needful equipment and components. Maintain a clean and organized laboratory. Periodical servicing of the lab equipments. Avoiding the use of cell phones. Appropriate storage areas. Racks to store student belongings. Proper ventilation is provided to avoid exposure to dust and other harmful substances. Proper Natural as well as artificial lighting wherever necessary is provided. Electrical Wires are protected by MCB and fuses. Perfect earthling is provided and it is regularly maintained for all equipment's. All circuits are checked for proper connections and polarity before connecting to power supply. In addition to the safety measures, an on-call nursing and medical room facility is available to cater all the medical emergencies. CCTV Surveillance, Antivirus and firewall. UPS is available in case of power failure.
6	Electrical Machines Lab	General Rules of Conduct in Laboratories are displayed (Dos & Don'ts). First aid box, Fire extinguisher is kept at the laboratory. Well trained technical supporting staff. Avoiding the use of damaged equipment and provides needful equipment and components. Maintain a clean and organized laboratory. Periodical servicing of the lab equipments. Avoiding the use of cell phones. Appropriate storage areas. Racks to store student belongings. Proper ventilation is provided to avoid exposure to dust and other harmful substances. Proper Natural as well as artificial lighting wherever necessary is provided. Electrical Wires are protected by MCB and fuses. Perfect earthling is provided and it is regularly maintained for all equipment's. All circuits are checked for proper connections and polarity before connecting to power supply. In addition to the safety measures, an on-call nursing and medical room facility is available to cater all the medical emergencies. CCTV Surveillance are provided.

D3. Project Laboratory/Research Laboratory

S.No	Name of the Laboratory	Equipment
1	Project Laboratory	• 5 Systems • Softwares: MAT Lab, B2-spice, Multisim, Aurduino-IDE, Tinker CAD. • Project prototypes • Printer • Scanner • Projector • CCTV
2	R&D laboratory	• 30 Systems • Software: MAT Lab, B2-spice, Multisim, Aurduino-IDE, Tinker CAD. • Printer • Scanner • CCTV • Access to e-journals
3	Center of excellence- Robotics & Artificial intelligence	• Micro-controller, Control boards • Arduino-UNO R3 • Robotic based Kits • Sensors-IR,LDR • Value added visual components • Displays & Outputs • CCTV • Printer • Scanner

1. Project Laboratory

The Project Laboratory serves as a dedicated facility to support final-year undergraduate students in carrying out design projects. The laboratory is structured to promote design thinking, innovation, experimentation, and problem-solving in electrical engineering domains such as Electrical Machines, Power Systems and Power Electronics.

The facility enables students to conceptualize, design, fabricate, test, and validate engineering systems and components. It encourages interdisciplinary teamwork, application of modern engineering tools, project planning, documentation, and outcome-based execution. The laboratory environment promotes collaborative learning and provides access to necessary equipment, software, and internet resources to facilitate project development.

Through structured project reviews and mentor guidance, students develop competencies in:

- Design and development of solutions
- Engineering tool usage
- Project management and documentation
- Teamwork and communication
- Sustainable and socially responsible engineering practices

2. Research & Development Laboratory

The **Research & Development (R&D) Laboratory** is established to cultivate a research-oriented mindset among students and faculty members. The laboratory supports investigative learning, experimentation, data analysis, and innovation-driven projects aligned with contemporary technological advancements and sustainability goals.

The facility enables:

- Experimental investigations
- Prototype development
- Performance testing and validation
- Emission and environmental impact studies
- Applied research activities

Students are encouraged to undertake mini-projects, funded projects, and research-based final-year projects under faculty supervision. The laboratory fosters analytical thinking, interpretation of experimental data, and development of sustainable engineering solutions.

The R&D Laboratory enhances:

- Research-based knowledge application
- Design of experiments and data interpretation
- Environmental awareness and sustainability focus
- Ethical engineering practices
- Innovation and entrepreneurship culture

3. Centre of Excellence – Robotics and Artificial Intelligence

The **Centre of Excellence (CoE) – Robotics and Artificial Intelligence** is established to provide advanced training, industry-aligned skill development, and research exposure in emerging technologies such as robotics, automation, artificial intelligence, and control 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)	660	33	37	11	96
2024-25(CAYm1)	780	39	42	11	92
2025-26(CAY)	780	39	42	11	92

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	400	397.63	110	109.54	77	76.72	93	92.71
Library	7	6.98	10	9.84	16	15.53	8	7.95
Laboratory equipment	24	23.12	61	60.30	34	33.52	66	65.67
Teaching and non-teaching staff salary	1257	1255.27	1273	1271.72	1119	1117.28	1024	1023.98
Outreach Programs	0	0	0.45	0.41	0.95	0.92	0	0
R&D	10	6.74	16	11.43	15	10.68	18	16.43
Training, Placement and Industry linkage	32	30.87	12	11.86	25	23.35	18	17.51
SDGs	14	13.77	32	30.75	21	20.31	27	25.21
Entrepreneurship	6	5.23	6	5.03	5	4.31	4	3.80
Others, specify	250	249.83	700	698.12	510	504.50	450	447.24
Total	**2000**	**1989.44**	**2220.45**	**2209.00**	**1822.95**	**1807.12**	**1708**	**1700.50**

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	2.00	1.93	6.00	5.24	4.00	3.72	9.00	8.57
Software	2.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00
SDGs	1.50	1.15	3.00	2.67	3.00	2.26	4.00	3.29
Support for faculty development	2.00	1.50	2.00	1.40	1.75	1.20	1.50	1.05
R & D	1.00	0.56	3.00	2.46	1.40	1.18	2.50	2.14
Industrial Training, Industry expert, Internship	4.00	3.57	2.50	2.23	3.50	3.09	3.00	2.78
Student Activities	2.50	2.00	1.75	1.50	1.50	1.30	1.50	1.20
Total	**15.00**	**10.71**	**20.25**	**15.50**	**17.15**	**12.75**	**23.50**	**19.03**