

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: 2
Application No: 11913	Date of Submission: 01-07-2026

PART A- Profile of the Institute

A1.Name of the Institute: AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY	
Year of Establishment : 2005	Location of the Institute: Near Tagarapuvalasa Bridge NH16
A2. Institute Address: CHERUKUPALLI VILAGE, NEAR TAGARAPUVALASA BRIDGE,CHITTIVALASA SO, BHOGAPURAM MANDAL, VIZIANAGRAM DIST,Andhra Pradesh,531162	
City:Vizianagaram	State:Andhra Pradesh
Pin Code:531162	Website:www.aietta.ac.in
Email:dean.academics@aietta.ac.in	Phone No(with STD Code):08933-226739
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Jawaharlal Nehru Technological University-Gurajada	City: Vizianagaram
State : Andhra Pradesh	Pin Code: 535003
A4. Type of the Institution: Self-Supported Institute	
A5. Ownership Status: Self financing	

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

- No. of UG programs: **6**
- 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	Computer Application	PG	Master of Computer Application	2023	--	Computer Application
2	Engineering & Technology	PG	CAD/CAM	2012	--	Mechanical Engineering
3	Engineering & Technology	UG	Computer Science and Engineering	2005	--	Computer Science and Engineering
4	Engineering & Technology	PG	Computer Science and Engineering	2010	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2020	--	Computer Science and Engineering
6	Engineering & Technology	PG	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	2025	--	Computer Science and Engineering
7	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2020	--	Computer Science and Engineering
8	Engineering & Technology	UG	Electrical & Electronics Engineering	2005	--	Electrical and Electronics Engineering
9	Engineering & Technology	UG	Electronics & Communication Engineering	2005	--	Electronics and Communication Engineering
10	Engineering & Technology	UG	Mechanical Engineering	2005	--	Mechanical Engineering
11	Engineering & Technology	PG	Power Electronics	2012	2025	Electrical and Electronics Engineering
12	Engineering & Technology	PG	Power Systems	2015	--	Electrical and Electronics Engineering

13	Engineering & Technology	PG	VLSI Design	2011	--	Electronics and Communication Engineering
14	Management	PG	Master of Business Administration	2008	--	Management

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Mechanical Engineering	No	Mechanical Engineering	UG
Electrical and Electronics Engineering	No	Electrical & Electronics Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering	UG
Computer Science and Engineering	Yes	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	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/COMPE AUTHORITY A DETAILS
1	Electrical & Electronics Engineering	UG	2005 / --	60	No	NA	60	2005	F.No. 06/05/AP/ENG/ June30,2005

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 :	REBBA SASIDHAR
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)	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	45	42	35	39	11	39	15
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	26	29	31	50	22	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	3	2	4	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.	48	70	68	70	61	61	53

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	45	3	80.00
2024-25 (CAYm1)	60	42	2	73.33
2023-24 (CAYm2)	60	35	4	65.00

Average [(ER1 + ER2 + ER3) / 3] = 72.78≡ 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).	66.00	66.00	66.00
B=No. of students who graduated from the program in the stipulated course duration	48.00	38.00	33.00
Success Rate (SR)= (B/A) * 100	72.73	57.58	50.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 60.10

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)
X=(Mean of 1st 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 1st year/10)	7.54	6.98	7.24
Y=Total no. of successful students	30.00	8.00	15.00
Z=Total no. of students appeared in the examination	44.00	39.00	39.00
API [X*(Y/Z)]	5.14	1.43	2.78

Average API[(AP1+AP2+AP3)/3] : 3.12

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 2nd year/10)	7.19	7.28	7.24
Y=Total no. of successful students	32.00	37.00	50.00
Z=Total no. of students appeared in the examination	37.00	46.00	60.00
API [X * (Y/Z)]	6.22	5.86	6.03

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

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 3rd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 3rd year/10)	7.39	7.36	7.13
Y=Total no. of successful students	29.00	48.00	39.00
Z=Total no. of students appeared in the examination	37.00	50.00	39.00
API [X*(Y/Z)]:	5.79	7.07	7.13

Average API [(AP1 + AP2 + AP3)/3] : 6.66

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	66.00	66.00	66.00
X=No. of students placed	42.00	34.00	30.00
Y=No. of students admitted to higher studies	2.00	0.00	2.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	66.67	51.52	48.48

Average Placement Index = (P_1 + P_2 + P_3)/3: 55.56 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments**(Data to be filled in for the Department and Allied Departments)****C1. Faculty details of Department and Allied Departments**

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular Contract Ad hoc)
1	REBBA SASIDHAR	XXXXXXXX16L	Ph.D	SRI VENKATESWARA UNIVERSITY	Electrical Drives	19/02/2022	4.4	Assistant Professor	Associate Professor	01/05/2024	Regular
2	VASU GANJI	XXXXXXXX76C	Ph.D	JNTU KAKINADA	Control Systems	16/08/2022	3.10	Associate Professor	Professor	05/06/2025	Regular
3	PRAVEENA KINTALI	XXXXXXXX39R	Ph.D	ACHARYA Nagarjuna University	Power Electronics	15/03/2022	4.3	Assistant Professor	Assistant Professor		Regular
4	Burra Anand Swaroop	XXXXXXXX07M	M.Tech	Dayalbagh Educational Institute (Deemed University)	Engineering Systems	01/06/2017	9	Assistant Professor	Assistant Professor		Regular
5	Arjuna Rao Anuku	XXXXXXXX19Q	M.Tech	NIT Rourkela	Electronic Systems & Communication	01/06/2007	17.11	Assistant Professor	Assistant Professor		Regular
6	Prasanth Gorle	XXXXXXXX04N	M.Tech	JNTU KAKINADA	Power system Control and automation	15/12/2014	11.6	Assistant Professor	Assistant Professor		Regular
7	Kiran Kumar Nakkana	XXXXXXXX65P	M.Tech	JNTU KAKINADA	Power Electronics & Electric Drives	19/02/2019	7.4	Assistant Professor	Assistant Professor		Regular
8	Batta Madhu Sudhana Rao	XXXXXXXX62G	M.Tech	JNTU KAKINADA	Power Electronics	20/03/2023	3.2	Assistant Professor	Assistant Professor		Regular
9	Javvadi Shiva	XXXXXXXX65B	M.Tech	JNTU KAKINADA	Power Electronics	01/10/2021	4.8	Assistant Professor	Assistant Professor		Regular
10	Kota Kavitha	XXXXXXXX60B	M.Tech	JNTU KAKINADA	Power Electronics	21/06/2025	0.11	Assistant Professor	Assistant Professor		Regular
11	Kundrapu Bharathi	XXXXXXXX74L	M.Tech	JNTU KAKINADA	Power Systems Control and Automation	01/08/2025	0.10	Assistant Professor	Assistant Professor		Regular
12	Gulla Venkata Ratanam	XXXXXXXX93A	M.Tech	JNTU KAKINADA	Power & Industrial Drives	06/03/2023	3.3	Assistant Professor	Assistant Professor		Regular
13	Mula Seshagiri Rao	XXXXXXXX00L	M.Tech	JNTU KAKINADA	Power Electronics	01/03/2021	5.3	Assistant Professor	Assistant Professor		Regular
14	Dhanalakshmi Kottagulli	XXXXXXXX47E	M.Tech	JNTU-GV	POWER SYSTEMS	01/04/2025	1.2	Assistant Professor	Assistant Professor		Regular
15	Sirisha Undraja Varapu	XXXXXXXX25L	M.Tech	JNTU KAKINADA	Power Electronics	29/07/2022	2.9	Assistant Professor	Assistant Professor		Regular

16	Muddada Venkatesh	XXXXXXXX96N	M.Tech	JNTU KAKINADA	POWER SYSTEMS	06/05/2023	2	Assistant Professor	Assistant Professor		Regular
17	Urlam Venkata Lakshmi	XXXXXXXX96F	M.Tech	JNTU KAKINADA	Power & Industrial Drives	15/06/2018	8	Assistant Professor	Assistant Professor		Regular
18	Pothala Pradeep Kumar	XXXXXXXX66Q	M.Tech	JNTU KAKINADA	Power Electronics	06/02/2023	3.4	Assistant Professor	Assistant Professor		Regular
19	Malleswara Rao Yendu	XXXXXXXX38R	M.Tech	JNTU KAKINADA	Power Electronics & Electric Drives	25/07/2024	1.11	Assistant Professor	Assistant Professor		Regular
20	Ganesh Kumar Budumuru	XXXXXXXX93B	M.Tech	JNTU KAKINADA	High Voltage Engineering	28/07/2018	5.10	Assistant Professor	Assistant Professor		Regular
21	Seeram Jhansi Rani	XXXXXXXX01C	M.Tech	JNTU KAKINADA	Power Electronics & Electric Drives	15/06/2018	8	Assistant Professor	Assistant Professor		Regular
22	Puthika Shivakumar	XXXXXXXX64Q	M.Tech	JNTU KAKINADA	Power Electronics & Electric Drives	06/01/2017	9.5	Assistant Professor	Assistant Professor		Regular
23	Nehanth Ponugupati	XXXXXXXX53N	M.Tech	JNTU KAKINADA	POWER SYSTEMS	05/06/2023	3	Assistant Professor	Assistant Professor		Regular
24	Guna Mahesh	XXXXXXXX06B	M.Tech	JNTU KAKINADA	Control Systems	29/07/2022	3.10	Assistant Professor	Assistant Professor		Regular
25	Mallesam Dora Hanumantu	XXXXXXXX47F	Ph.D	ANDHRA UNIVERSITY	Control Systems	06/01/2017	8.4	Assistant Professor	Associate Professor	01/02/2024	Regular
26	LOVALAKSHMI TAMARANA	XXXXXXXX33G	Ph.D	ANDHRA UNIVERSITY	ELECTRICAL ENGINEERING	08/02/2023	3.4	Associate Professor	Associate Professor		Regular
27	V.N.Anusha Nemali	XXXXXXXX34E	M.E.	ANDHRA UNIVERSITY	Power Electronics drives and control	06/06/2022	4	Assistant Professor	Assistant Professor		Regular

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 yearStudent 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 Department2

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 & Electronics Engineering	198	198	198
PG1.A	0	18	18
PG1.B	18	18	18
PG1: Power Electronics	18	36	36
PG2.A	0	18	18
PG2.B	18	18	18
PG2: Power Systems	18	36	36

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
DS=Total no. of students in all UG and PG programs in the Department	252	270	270
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= 252	S2= 270	S3= 270
DF=Total no. of faculty members in the Department	22	23	23
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 22	F2= 23	F3= 23
FF=The faculty members in F who have a 100% teaching load in the first-year courses	5	4	4
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 14.82	SFR2= 14.21	SFR3= 14.21
Average SFR for 3 years	SFR= 14.41		

C3. Faculty Qualification

- Faculty qualification index (FQI) = $2.5 \times [(10X + 4Y)/RF]$ 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 = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	3	19	12.00	22.08
2024-25(CAYm1)	4	19	13.00	22.31
2023-24(CAYm2)	4	19	13.00	22.31

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = $1/9 \times$ 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 = $2/9 \times$ 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 = $6/9 \times$ 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	1.00	3.00	2.00	8.00	19.00
2024-25	2.00	0.00	3.00	4.00	9.00	19.00
2023-24	2.00	0.00	3.00	2.00	9.00	21.00
Average	RF1=1.67	AF1=0.33	RF2=3.00	AF2=2.67	RF2=8.67	AF2=19.67

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Mr. P. Satti Reddy	Senior Executive	HMIE Solutions Pvt. Ltd., Road Connecting Rama talkies Road, Dwaraka Nagar, Visakhapatnam, Andhra Pr	EV Technologies	62.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	PSSN Patnaik	Project Manager (Technical)	HMIE Solutions Pvt. Ltd., Road Connecting Rama talkies Road, to, Dwaraka nagar Rd, Dwaraka Nagar, Vi	PCB Design	71.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Pragada Dhanunjaya Rao	Assist manager - Electrical Projects & Maintenance.	Cohance life sciences limited, Flat No-48, Road No-7, JNPC, Parawada, Anakapalli-531019	PLC and SCADA	67.00

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	8	6	5
2	No. of peer reviewed conference papers published	1	1	1
3	No. of books/book chapters published	1	1	0

C7. Sponsored Research Project

Table No. C7.1: List of sponsored research projects received from external agencies.

(CAYm1)

(CAYm2)

(CAYm3)

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. R. Sasidhar	Mrs. K. Praveena	Electrical and Electronics Engineering.	Measurement and analysis of voltage, current, harmonics, power factor and disturbances	Robocoupler Pvt Ltd, Visakhapatnam	1 year	2.50
Dr. G. Vasu	Mr. G. Prasanth	Electrical and Electronics Engineering.	Earth resistance measurement, inspection and improvement recommendations	HMIES Solutions.Pvt.Ltd, Visakhapatnam	1 Year	2.27
						Amount received (Rs.):4.77

(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. R. Sasidhar	Mr. G. Prasanth	Electrical and Electronics Engineering	Load analysis, capacitor-bank sizing and APFC recommendations	R Radiant Engineering Services, Visakhapatnam	1 Year	2.00
Dr. T. Lova Lakshmi	Mrs. K. Praveena	Electrical and Electronics Engineering	Transformer performance evaluation, loading analysis, losses and maintenance recommendations	HMIES Solutions.Pvt.Ltd, Visakhapatnam	1 Year	2.25
						Amount received (Rs.):4.25

(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
Dr. R. Sasidhar	Mr. G. Prasanth	Electrical and Electronics Engineering	Electrical Safety Audit and Preventive Maintenance Planning for Industrial Facilities	HMIES Solutions.Pvt.Ltd,Visakahapatnam	1 Year	2.25
Dr. G. Vasu	Mrs. K. Praveena	Electrical and Electronics Engineering	Energy consumption analysis, load survey, identification of energy-saving opportunities and audit report	HMIES Solutions.Pvt.Ltd,Visakahapatnam	1 Year	1.70
						Amount received (Rs.):3.95

Total amount (Lacs) received for the past 3 years: 12.97

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. Rebba Sasidhar	Implementation of a Solar Electric car using BLDC Motor (4 wheeler)	6 Months	0.60	0.59	Prototype developed, paper submitted
Mrs. K. Praveena	Implementation of a Solar Electric car using BLDC Motor (4 wheeler)	6 Months	0.50	0.49	Prototype developed
Dr. Vasu Ganji	Battery Management System development for enhanced performance of an Electric Loader	4 Months	0.20	0.19	Prototype developed
Dr. Lovalakshmi	Electric cycle with GPS tracking and Mobile based Locking System	5 Months	0.20	0.19	Prototype developed
Mr. Burra Anand Swaroop	Electric Cycle	5 Months	0.20	0.19	Prototype developed
			Amount received (Rs.): 1.70		

(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. Vasu Ganji	Design and Development of an IoT-Based Smart Energy Monitoring and Management System	3 Months	0.30	0.29	Demonstration model developed
Dr. Lovalakshmi	Development of a Solar PV–Battery Integrated Smart Charging System for Electric Vehicles	4 Months	0.30	0.29	Working model
Dr. Mallesam Dora	Design and Development of a Regenerative Braking System for Electric Two-Wheeler Applications	4 Months	0.30	0.29	Prototype developed
Mrs. K. Praveena	IoT-Based Smart Energy Monitoring System	4 Months	0.30	0.29	Prototype developed
			Amount received (Rs.): 1.20		

(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. Rebba Sasidhar	Design of a High-Gain DC–DC Converter for Renewable Energy Applications	4 Months	0.30	0.29	Working model
Dr. Vasu Ganji	IoT-Based Solar Photovoltaic Performance Monitoring and Fault Detection System	4 Months	0.30	0.29	Working model
Dr. Mallesam Dora	Design and Development of a Grid-Connected Solar PV System with Power Quality Improvement	5 Months	0.30	0.29	Working model
Dr. Lova Lakshmi	PLC-Based Industrial Automation for Motor Control	4 Months	0.30	0.29	Working model,
			Amount received (Rs.): 1.20		

Total amount (Lacs) received for the past 3 years : 4.10

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 Lab	36	• 3-Phase Panel Board -1 • Dc Rectifier -1 • 3-Φ Induction motor -1 • 3-Φ Slip Ring motor -1	Total weekly ut	Mr.S.DHARM	Lab Technici	Diploma (Ele
2	Power Systems Lab	36	• 3-Φ Alternator-1 • 3-Φ Transformer-1 • ABCD Parameters • Disturbance	Total weekly ut	Mrs.R.PAVIT	Lab Technici	B.Tech(Elect
3	Electrical Measurements Lab	36	• Transformer oil test-1 • Anderson's Bridge-1 • kelvin's Double Bridge-1 • C	Total weekly ut	Mr. A.PYDI R	Lab Technici	B.Tech(Elect
4	Control Systems Lab	36	• Characteristics of DC servo motor • Shyncro-1 • PID controller-1 • Lead & Lag	Total weekly ut	Mr. S.BHASK	Lab Technici	B.Tech(Elect
5	Power Electronics Lab	36	• 3-Φ AC voltagecontroller-1 • PWM inverter-1 • 1-Φ AC voltage controller-1 • 3-Φ Full-bridge	Total weekly ut	Ms.S.NEELIN	Lab Technici	B.Tech(Elect
6	Electrical Circuits and Networks lab	36	• 3-Phase Panel Board -1 • 1-Φ autoTransformer-10 • Resistive loads-4	Total weekly ut	Mrs.R.PAVIT	Lab Technici	B.Tech(Elect
7	Basic Electrical Engineering Lab 1	36	• 1-Φ Energy Meter-1 • Earth Resistance-1 • Wheatstone Bridge-1 • Met	Total weekly ut	Ms.J.GAYATI	Lab Technici	B.Tech(Elect
8	Basic Electrical Engineering Lab 2	36	• 1-Φ Energy Meter-1 • Earth Resistance-1 • Wheatstone Bridge-1 • Met	Total weekly ut	Ms.J.GAYATI	Lab Technici	B.Tech(Elect
9	Electrical Simulation Lab	36	• 36 Systems(AOC) • 4 GB RAM • 256 SSD • i3 4th Generation • 4 Phase	Total weekly ut	Ms.S.NEELIN	Lab Technici	B.Tech(Elect
10	Renewable Energy Systems Lab	36	• Solar PV Module • Charge controller • Battery & Inverter • PWM Solar Charge	Total weekly ut	Mr. A.PYDI R	Lab Technici	B.Tech(Elect

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 Lab	• Proper supervision is to be taken while doing experiment • Safe machine operations are handled • Checking of electrical connections before giving power supply • Control panel is available to avoid direct power supply • Use of rated equipment to avoid high power limits • Proper grounding is done

2	Power Systems Lab	• Safe handling of electrical power-system equipment • Checking of electrical connections before giving power supply • Use of rated equipment to avoid high power limits • Proper grounding is done
3	Electrical Measurements Lab	• Correct instrument connections and ranges are taken to conduct suitable experiment • Use within rated limits • Checking of electrical connections before giving power supply • Careful handling of measuring instruments • Use Regulated power supply to regulates the voltage • Proper grounding is done
4	Control Systems Lab	• Safe handling of control-system trainer kits • Checking of electrical connections before giving power supply • Use Regulated power supply to regulates the voltage • Supply isolation during modifications • Rated equipment usage
5	Power Electronics Lab	• Safe operation of power electronic circuits equipment • Checking of component ratings and connections before giving supply • Regulated power supply to regulates the voltage • Protection from electrical faults/overheating • Safe operation of power electronic circuits, • Checking of component ratings and connections before giving supply • Regulated power supply to regulates the voltage • Protection from electrical faults/overheating
6	Electrical circuits and Networks Lab	• Verification of circuit connections before giving supply • Use Auto Transformers to regulate voltage • Supply isolation before modifications • Use of rated components • Safe equipment handling
7	Basic Electrical Engineering Lab 1 & 2	• Basic electrical safety practices under supervisory • Supervised circuit operation, • Proper connection and verification are made • Use of rated components for conducting experiment smoothly • Avoid damaged wires and equipment to conduct experiment smoothly
8	Electrical Simulation Lab	• Safe use of computers and simulation equipment in Simulation Laboratory • Only use authorized soft wares • Maintain regular data backup to avoid unexceptional cases • Safe AC/DC connections where applicable in the Laboratory • Proper grounding is done • Switching off equipment after using in Laboratory

D3. Project Laboratory/Research Laboratory

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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 $((NS1*0.8) + (NS2*0.2)) / (\text{No. of required faculty (RF4)})$; Percentage= $((NS1*0.8) + (NS2*0.2)) / RF$
2023-24(CAYm2)	600	30	30	17	91
2024-25(CAYm1)	780	39	37	20	86
2025-26(CAY)	1200	60	47	19	69

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	68100000	67891010	57400000	57260503	39000000	38040795	25110000	24854502
Library	1871000	1782401	1805000	1706156	1750000	1662108	1744000	1495897
Laboratory equipment	1085000	934053	2260000	2154219	4275000	4070252	6942000	6732312

Teaching and non-teaching staff	126000000	100396670	118000000	98212662	105000000	97280900	85000000	74004123
Outreach Programs	116500	107402	107000	76638	97500	77660	87500	69041
R&D	1945000	1856220	2300000	2153307	2676000	2549873	1805200	1748154
Training, Placement and	7500000	7364611	5300000	5276294	5010000	5008593	1810000	1757126
SDGs	192000	182115	160000	152115	144000	136103	129000	122492
Entrepreneurship	134000	113828	114400	94334	87000	77210	74300	63156
Others, specify	21866000	25185210	18787800	16270943	16766150	20629995	14864800	19316436
Total	228809500	205813520	206234200	183357171	174805650	169533489	137566800	130163239

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	500000	446029	470000	449681	820000	7645894.8	645000	612331
Software	80000	78675	100000	96752	200000	198245	500000	488742
SDGs	100000	88627	90000	75365	80000	67338	75000	53028
Support for faculty development	180000	166217	200000	187316	150000	142316	130000	126107
R & D	450000	434252	400000	360908	350000	285109	300000	263966
Industrial Training, Industry expert,	100000	88326	80000	63246	75000	57246	50000	45000
Miscellaneous Expenses*	200000	178256	200000	152796	160000	136796	150000	126579
Total	1610000	1480382	1540000	1386064	1835000	8532944.8	1850000	1715753