

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: 11137	Date of Submission: 31-10-2025

PART A- Profile of the Institute

A1.Name of the Institute: Jai Shriram Engineering College	
Year of Establishment : 2009	Location of the Institute: Tirupur Tamil Nadu
A2. Institute Address: Dharapuram Road, Avinasipalayam, Tirupur	
City:Coimbotore	State:Tamil Nadu
Pin Code:638660	Website:www.jayshriram.edu.in
Email:principal@jayshriram.edu.in	Phone No(with STD Code):0421-2313335
A3. Name and Address of the Affiliating University (if any):	
Name of the University : Anna University Chennai	City: Chennai
State : Tamil Nadu	Pin Code: 600025
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: 8
- No. of PG programs: 4

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	Applied Electronics	2012	--	Electronics and Communication Engineering
2	Engineering & Technology	UG	Artificial Intelligence and Data Science	2021	--	Artificial Intelligence and Data Science
3	Engineering & Technology	UG	Civil Engineering	2010	--	Civil Engineering

4	Engineering & Technology	UG	Computer Science and Engineering	2009	--	Computer Science and Engineering
5	Engineering & Technology	PG	Computer Science and Engineering	2012	--	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical and Electronics Engineering	2009	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	2009	--	Electronics and Communication Engineering
8	Engineering & Technology	UG	Fashion Technology	2020	--	Fashion Technology
9	Engineering & Technology	UG	Information Technology	2024	--	Information Technology
10	Engineering & Technology	UG	Mechanical Engineering	2009	--	Mechanical Engineering
11	Engineering & Technology	PG	Structural Engineering	2014	--	Civil Engineering
12	Management	PG	Master of Business Administration	2010	--	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
Fashion Technology	No	Fashion Technology	UG
Mechanical Engineering	No	Mechanical 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:

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. N. Lakshmi Priya
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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	60	36	34	35	25	15	9
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	9	3	2	4	9	3
N3=Separate division if any	0	1	1	0	0	1	1
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	3	0	0	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.	63	46	38	37	29	25	13

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	60	3	105.00
2024-25 (CAYm1)	60	36	0	60.00
2023-24 (CAYm2)	60	34	0	56.67

$$\text{Average } [(ER1 + ER2 + ER3) / 3] = 73.89 \approx 14.00$$

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).	64.00	69.00	63.00
B=No. of students who graduated from the program in the stipulated course duration	26.00	25.00	12.00
Success Rate (SR)= (B/A) * 100	40.62	36.23	19.05

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 31.97

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)	7.93	8.13	7.99
Y=Total no. of successful students	37.00	33.00	33.00
Z=Total no. of students appeared in the examination	37.00	33.00	33.00
API [X*(Y/Z)]	7.93	8.13	7.99

Average API[(AP1+AP2+AP3)/3] : 8.02

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)	7.69	7.95	7.75
Y=Total no. of successful students	35.00	34.00	27.00
Z=Total no. of students appeared in the examination	36.00	35.00	28.00
API [X * (Y/Z)]	7.48	7.72	7.47

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

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)	7.95	7.91	7.80
Y=Total no. of successful students	33.00	26.00	25.00
Z=Total no. of students appeared in the examination	34.00	27.00	25.00
API [X*(Y/Z)]:	7.72	7.62	7.80

Average API [(AP1 + AP2 + AP3)/3] : 7.71

B9. Placement, Higher Studies, and Entrepreneurship

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

Item	LYG (2021-22)	LYGm1(2020-21)	LYGm2(2019-20)
FS*=Total no. of final year students	64.00	69.00	63.00
X=No. of students placed	26.00	23.00	12.00
Y=No. of students admitted to higher studies	0.00	1.00	1.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	40.62	34.78	20.63

Average Placement Index = (P_1 + P_2 + P_3)/3: 32.01 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. S. Periasamy	XXXXXXXX16P	Ph.D	Anna University	Image Processing	13/06/2025	0.4	Professor	Professor		Regular	Yes		No

2	Dr. N. Lakshmipriya	XXXXXXX53B	Ph.D	Anna University	Soft Computing & Electrical Drives	19/05/2011	14.5	Assistant Professor	Associate Professor	09/06/2023	Regular	Yes		Yes
3	Dr. P. Soundar Rajan	XXXXXXX64L	Ph.D	Anna University	High Voltage Engineering	02/07/2025	0.3	Associate Professor	Associate Professor		Regular	Yes		No
4	Dr. S. Ayyappan	XXXXXXX23J	Ph.D	Anna University	Power Electronics and Drives	18/06/2012	13.4	Assistant Professor	Assistant Professor		Regular	Yes		No
5	Ms. P. Hema	XXXXXXX73A	M.E.	Anna University	VLSI Design	03/06/2013	12.4	Assistant Professor	Assistant Professor		Regular	Yes		No
6	Mr. E. Babu	XXXXXXX23L	M.E.	Anna University	Power Systems Engineering	03/06/2013	12.4	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Ms. V. Kavithamani	XXXXXXX72H	M.E.	Anna University	Power Systems Engineering	03/05/2019	6.5	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Mr. S. Karthikkumar	XXXXXXX90D	M.E.	Anna University	Power Electronics and Drives	02/01/2020	5.9	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Mr. E. Prasannakumar	XXXXXXX63R	M.E.	Anna University	Power Electronics and Drives	03/06/2013	12.4	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Ms. K. Dhivya	XXXXXXX42N	M.E.	Anna University	Power Systems Engineering	20/06/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Mr. S. Leelakrishnan	XXXXXXX77K	M.E.	Anna University	Power Electronics and Drives	20/06/2016	9.4	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Ms. B. Kalaiselvi	XXXXXXX05L	M.E.	Anna University	Power Systems Engineering	26/07/2022	3.3	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Mr. D. Arul	XXXXXXX12G	M.E.	Vinayaka Missions University	Power Electronics and Drives	02/08/2024	1.2	Assistant Professor	Assistant Professor		Regular	Yes		No

14	Mr. S. Ragupathi	XXXXXXXX41N	M.E.	Anna University	Power Electronics and Drives	13/06/2025	0.4	Assistant Professor	Assistant Professor		Regular	Yes		No
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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 Department0

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	66	63	62
UG1.C	63	62	64
UG1.D	62	64	66
UG1: Electrical and Electronics Engineering	191	189	192
DS=Total no. of students in all UG and PG programs in the Department	191	189	192
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= 191	S2= 189	S3= 192
DF=Total no. of faculty members in the Department	14	11	10

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
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= 14	F2= 11	F3= 10
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 14.69	SFR2= 18.90	SFR3= 21.33
Average SFR for 3 years	SFR= 18.31		

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 = $2.5 \times [(10X + 4Y) / RF]$
2025-26(CAY)	4	10	9.00	22.22
2024-25(CAYm1)	1	10	9.00	13.89
2023-24(CAYm2)	1	9	9.00	12.78

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
2025-26	1.00	1.00	2.00	2.00	6.00	11.00
2024-25	1.00	0.00	2.00	1.00	6.00	10.00

2023-24	1.00	0.00	2.00	1.00	6.00	9.00
Average	RF1=1.00	AF1=0.33	RF2=2.00	AF2=1.33	RF2=6.00	AF2=10.00

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.B.Subburam	Head Engineer	Barani Hydraulics India Pvt. Ltd., Coimbatore	CEI331 - PLC Programming	27.00
2	Mr.B.Subburam	Head Engineer	Barani Hydraulics India Pvt. Ltd., Coimbatore	EE3012 - Electrical Drives	27.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr.Karunamoorthi Neethimani	Managing Director	Wind Plus Pvt. Ltd Coimbatore	EE8703 - Renewable Energy Systems	27.00
2	Dr.Karunamoorthi Neethimani	Managing Director	Wind Plus Pvt. Ltd Coimbatore	EE3012 - Electrical Drives	27.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr.Karunamoorthi Neethimani	Managing Director	Wind Plus Pvt. Ltd Coimbatore	EE8703 - Renewable Energy Systems	27.00
2	Dr.Karunamoorthi Neethimani	Managing Director	Wind Plus Pvt. Ltd Coimbatore	EE8601 - Solid State Drives	27.00

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	5	4	4
2	No. of peer reviewed conference papers published	12	11	17
3	No. of books/book chapters published	0	1	0

C7. Sponsored Research Project

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

(CAYm1)

(CAYm2)

(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.N.Lakshmipriya	Dr.S.Ayyappan	EEE	Design and Development of Automated Fettling System	Barani Ferrocast India Private Limited, Coimbatore	4 Months	4.80
Dr.N.Lakshmipriya	Dr.S.Ayyappan	EEE	PLC Automation Programming for curing press line	Royal Tyres Pvt Ltd, Chennai	1 Month	1.30
						Amount received (Rs.):6.10

Total Amount (Lacs) Received for the Past 3 Years: 6.10**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
Mr.S.Karthik kumar	Mr.E.Babu	EEE	Control Panel Assembly for 150 T Anvil Type Press for Wheels India Pvt Ltd.	Barani Hydraulics India Private Limited, Coimbatore	1 Month	0.06
Dr.N.Lakshmi priya	Dr.S.Ayyappan	EEE	Control Panel Assembly for 40 T Hydraulic Press for Trelleborg	Barani Hydraulics India Private Limited, Coimbatore	1 Month	0.06
Dr.S.Ayyappan	Mr.E.Babu	EEE	Control Panel Assembly for 50 T Hydraulic Press for Sundaram Industries – 2 No.	Barani Hydraulics India Private Limited, Coimbatore	1 Month	0.12
Mr.E.Babu	Mr.S.Karthik kumar	EEE	Control Panel Assembly for 70 T Hydraulic Press for RBL – 2 No.	Barani Hydraulics India Private Limited, Coimbatore	1 Month	0.12
Dr.N.Lakshmi priya	Dr.S.Ayyappan	EEE	Panel Assembly for Crane for Genn Automation	Genn Automation,Coimbatore	1 Month	0.74
						Amount received (Rs.):1.10

(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.N.Lakshmi priya	Mr.S.Ayyappan	EEE	Control Panel Assembly for 25 T Vikrant Auto Suspension	Barani Hydraulics India Private Limited, Coimbatore	1 Month	0.10
Mr.S.Ayyappan	Mr.E.Babu	EEE	Control Panel Assembly for 25 T Vikrant Auto Suspension	Barani Hydraulics India Private Limited, Coimbatore	1 Month	0.10
Mr.E.Babu	Mr.S.Karthik kumar	EEE	Control Panel Assembly for 200 T Servo Hydraulic Press	Barani Hydraulics India Private Limited, Coimbatore	1 Month	0.10
Mr.S.Karthik kumar	Mr.E.Babu	EEE	Control Panel Assembly for 300 T for IIT LGD	Barani Hydraulics India Private Limited, Coimbatore	1 Month	0.08
						Amount received (Rs.):0.38

(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.N.Lakshmi priya	Mr.S.Ayyappan	EEE	PLC Automation Programming for curing press line	Royal Tyres Pvt Ltd, Chennai	1 Month	1.05
Mr.E.Babu	Mr.S.Karthik kumar	EEE	Control Panel Assembly for 300T+300T+300T Solid Tyre hydraulic Press	Barani Hydraulics India Private Limited,Coimbatore	1 Month	0.20
Mr.S.Karthik kumar	Mr.E.Babu	EEE	Control Panel Assembly for 650T+650T+650T Solid Tyre hydraulic Press	Barani Hydraulics India Private Limited,Coimbatore	1 Month	0.15
Mr.S.Ayyappan	Mr.E.Babu	EEE	Control Panel Assembly for 200Ton FITMENT hydraulic Press	Barani Hydraulics India Private Limited,Coimbatore	1 Month	0.10
Mr.S.Ayyappan	Mr.E.Babu	EEE	Control Panel Assembly for 10Ton Drum Testing Machine	Barani Hydraulics India Private Limited,Coimbatore	1 Month	0.13
						Amount received (Rs.):1.63

Total amount (Lacs) received for the past 3 years: 3.11

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
Mr.S.Karthik kumar	Design of Electric Bi-Cycle	1 Month	0.65	0.65	Enhanced hands-on learning in electric drives and sustainable transportation. Students participated in project expo
Dr.S.Ayyappan	Design of E- Vehicle	2 Months	1.80	1.73	Improved understanding of EV power train, controller and battery systems.
Dr.N.Lakshmi priya	Design and Development of Robot with Human Assistance	2 Months	1.00	1.00	Strengthened skills in robotics, sensors and embedded systems and faculty and student published paper in journal
Mr.S.Karthik kumar	Hardware Implementation of Single-Switch DC–DC Converter	2 Months	0.75	0.75	Paper published in IEEE Transactions on circuits and systems —II
Dr.S.Ayyappan	Design of automatic Hydraulic Press for Powder Compaction	2.5 Months	2.00	1.93	Students learn PLC for industrial application
			Amount received (Rs.): 6.20		

(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
			Amount received (Rs.): 0		

(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
Ms.K.Dhivya	Development of Robotic Arm for Hydraulic Press	2 Months	0.82	0.82	The project supports industry-oriented learning and efficient material handling applications.
			Amount received (Rs.): 0.82		

Total amount (Lacs) received for the past 3 years : 7.02

D1. Adequate and Well-Equipped Laboratories, and Technical Manpower

Table No.D1.1: List of laboratories and technical manpower.

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Electrical Machines Laboratory	4	D.C Shunt Motor (5HP),D.C Series Motor (1HP),D.C Compound Motor D.C (Shunt and Compound) Generators (4.5KVA, 4.5KVA)	Odd Semester	Mr.K.Govindaraj	Lab Technician	B.E.
2	Power Electronics Laboratory	4	Single Phase Cyclo Converter, Single Phase SCR Bridge Rectifier (Half and Fully Controlled) GCR Based Three Phase AC	Odd Semester	Mr.K.Govindaraj	Lab Technician	B.E.
3	Simulation Laboratory	1	Personal Computer, MATLAB,Mi-Power ,Keil Software, Proteus Software ,MATH CAD,LTSPICE, PSpice, Multisim	Odd Semester	Mr.A.Raja	Lab Technician	B.Sc.
4	Microprocessor and Microcontroller Laboratory	4	8085 Trainer kit, 8086 Trainer kit, 8051 Trainer kit, 8255 Interface Module, 8279 Interrupt Module, 8250 Interrupt Module	Odd Semester	Mr.V.Naveen Kiso	Lab Technician	Diploma
5	Electronic Devices and Circuits Laboratory	4	Regulated Power Supply(0-30V),CRO(30MHz),Integrated Circuits (ICs) 555 Timer, Operational Amplifiers	Odd Semester	Mr.V.Naveen Kiso	Lab Technician	Diploma
6	Linear and Digital Circuit Laboratory	4	Personal Computer, Regulated Power Supply(0-30V),Integrated Circuits (ICs) CRO(30MHz) Function	Odd Semester	Mr.V.Naveen Kiso	Lab Technician	Diploma
7	Engineering Practices Laboratory	4	Megger,1ϕ Energy Meter, Live Wire Detector, Digital Range Finder, LCR Meter, Digital Multimeter	Even Semeste	Mr.S.Murugesan	Lab Technician	I.T.I
8	Embedded and IoT systems laboratory	4	IoT-ESP32 Module, GSM Module, RPI Camera, Zigbee wireless, Communication LDR Module, Raspberry PI Module	Even Semeste	Mr.V.Naveen Kiso	Lab Technician	Diploma

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Electrical Machines Laboratory	1. Follow all standard operating procedures (SOPs) for using machines like DC motors, alternators and transformers. 2. Report any damaged equipment or unsafe conditions to the lab technician immediately. 3. The leather (insulating) mat is placed in front of all electrical panels, switchboards and control setups. 4. Always wear proper footwear preferably rubber-soled or non-conductive shoes to prevent electric shock. 5. Girl students must tie their hair or tuck it inside their lab coat. 6. Students should avoid wearing metallic items like rings, bangles, bracelets, watches, and chains. 7. Check all connection leads for insulation damage and avoid using defective ones. 8. To prevent overheating, fill the brake drum with adequate water at regular intervals. 9. Do not stand in front of the brake drum when the load test circuit is switched off. 10. First Aid kit is available in the entrance of the Laboratory. 11. Fire Extinguisher is available in front of the Laboratory.
2	Power Electronics Laboratory	1. Students are restricted not to wear any metallic rings, bangles, bracelets, wristwatches and neck chains. 2. Ensure that the power is OFF before you start connecting up the kit. 3. Students if they notice any abnormal conditions in the trainer kit (like insulation heating up, resistor heating up, circuit connection open etc.), immediately switch off the electric supply and inform the staff member. 4. Always disconnect a plug by pulling on the connector body not the cable. 5. Disconnect any device from the circuit before service. 6. First Aid kit is available in the entrance of the Laboratory. 7. Fire Extinguisher is available in front of the Laboratory.
3	Simulation Laboratory	1. Students must shutdown personal computer properly to avoid system failure. 2. Avoid touching monitor screens and internal ports unnecessarily to prevent damage and static discharge. 3. Do not attempt to open or repair any computer hardware without permission.
4	Microprocessor and Microcontroller Laboratory	1. Lab technician ensures that connection leads do not have any insulation damage in the leads and avoid such defective leads. 2. If Students noticed any abnormal conditions in the trainer kit (like insulation heating up, resistor heating up, circuit connection open etc.), immediately switch off the electric supply and inform the staff member. 3. First Aid kit is available in the entrance of the Laboratory. 4. Fire Extinguisher is available in front of the Laboratory.
5	Linear Integrated Circuits Laboratory	1. Lab technician ensures that connection leads do not have any insulation damage in the leads and avoid such defective leads. 2. If Students noticed any abnormal conditions in the trainer kit (like insulation heating up, resistor heating up, circuit connection open etc.), immediately switch off the electric supply and inform the staff member. 3. First Aid kit is available in the entrance of the Laboratory. 4. Fire Extinguisher is available in front of the Laboratory.
6	Electronics Laboratory	1. Lab technician ensures that connection leads do not have any insulation damage in the leads and avoid such defective leads. 2. If Students noticed any abnormal conditions in the trainer kit (like insulation heating up, resistor heating up, circuit connection open etc.), immediately switch off the electric supply and inform the staff member. 3. First Aid kit is available in the entrance of the Laboratory. 4. Fire Extinguisher is available in front of the Laboratory.

7	Embedded and IoT systems laboratory	1. Lab technician ensures that connection leads do not have any insulation damage in the leads and avoid such defective leads. 2. If Students noticed any abnormal conditions in the trainer kit (like insulation heating up, resistor heating up, circuit connection open etc.), immediately switch off the electric supply and inform the staff member. 3. First Aid kit is available in the entrance of the Laboratory. 4. Fire Extinguisher is available in front of the Laboratory.
8	Engineering Practices Laboratory	1. Always ensure instruments like energy meters, multimeters and watt-meters are connected within their rated voltage and current limits to avoid damage or fire hazards. 2. When working with high-power components like transformers, lamp loads or rheostats, maintain a safe distance, avoid overloading and monitor for overheating or abnormal smells 3. First Aid kit is available in the entrance of the Laboratory. 4. Fire Extinguisher is available in front of the Laboratory.

D3. Project Laboratory/Research Laboratory

7.5. PROJECT LABORATORY/RESEARCH LABORATORY (10)

The students work on various design-related activities such as E-Plan for control panels, control panel assembly, industrial automation, IoT and embedded systems under the guidance of faculty members and industry professionals.

Table No. 7.5.1 List of Project laboratory / Research laboratory / Centre of Excellence

S. No.	Name of the Laboratory
1.	Project Laboratory
2.	JSR Techno Innovation
3.	Centre of Excellence - SIEMENS TECH PARK

7.5.1 Project Laboratory

The Project Laboratory is established to support students in developing innovative projects and research activities.

Its key objectives and facilities include:

- Providing essential training and guidance to help students initiate and execute their project work effectively.
- Maintaining project reports and student journal papers for reference.
- Displaying project models within the laboratory for student access and learning.
- Personal computers with internet facilities are provided in the laboratory.

List of major components

- Arduino Uno / Mega / Nano
- Raspberry Pi (3B/4 Model B)
- Wi-Fi Modules
- ESP8266 (NodeMCU)
- ESP32 (with Wi-Fi + Bluetooth)
- DC Motors with driver (L293D, L298N)
- Servo Motors (SG90, MG996R)
- Relays & Switches
- Stepper Motors
- LCD (16x2, 20x4)
- Buzzers, LEDs, RGB strips

- SMPS (5V, 12V, 24V)
- Breadboard
- Regulated Power Supply
- CRO and Function Generator
- DSO
- Soldering Stick
- Multimeter
- Clamp Meter

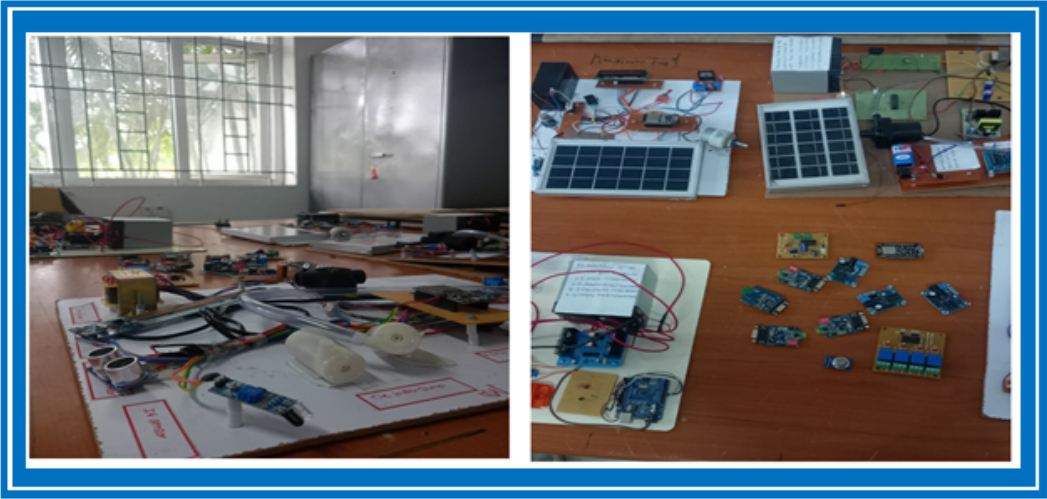
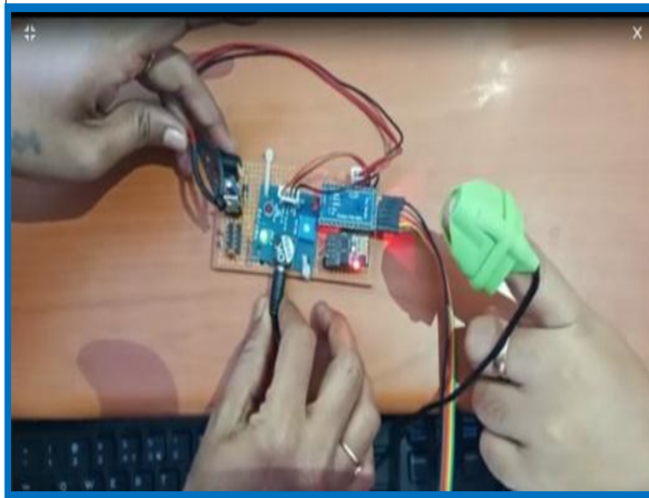


Figure No.7.5.1 Project Laboratory

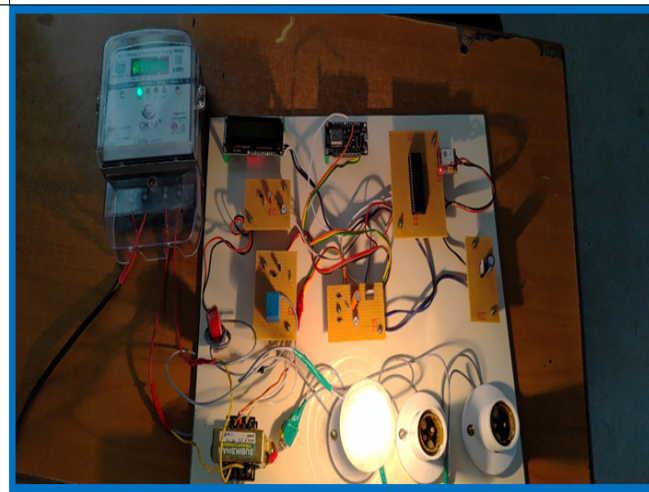
Table No.7.5.2 Students Project done by utilizing the above facilities

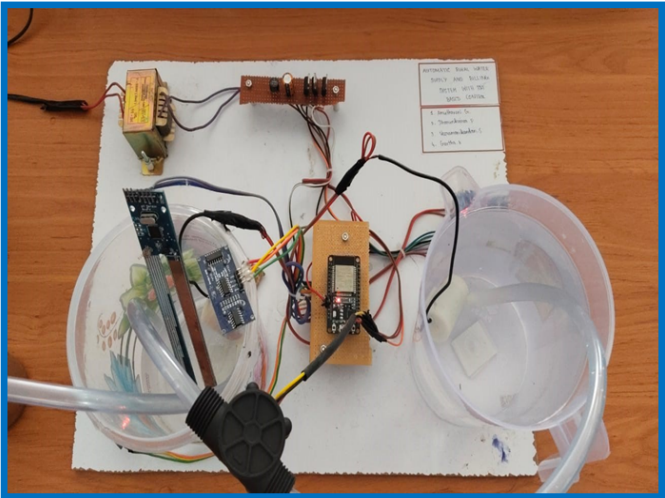
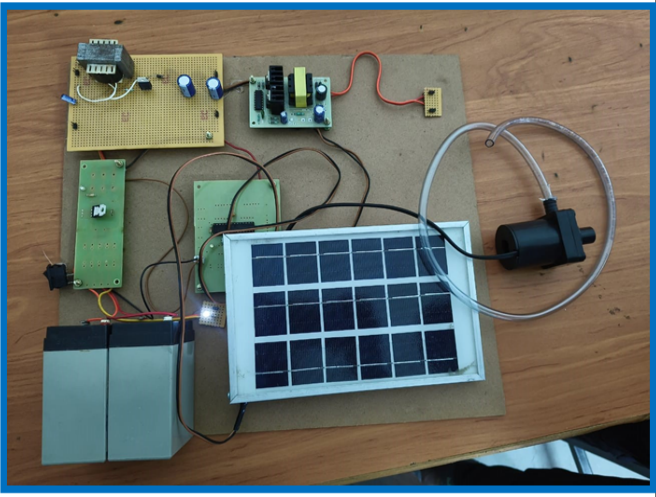
S. No.	Title of the Project	Photo	Relevance to POs/PSOs
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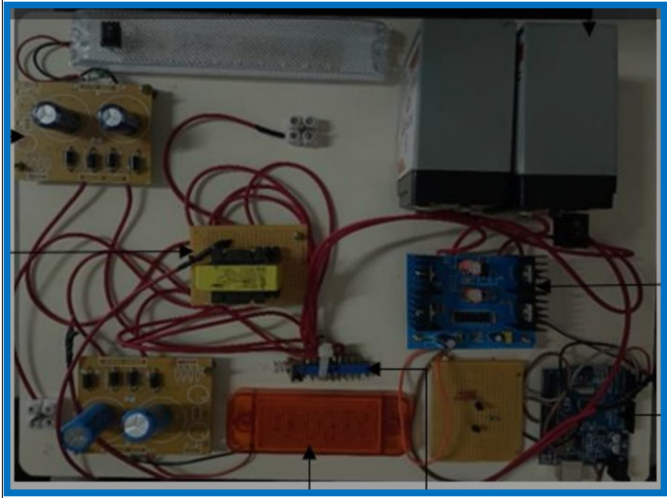
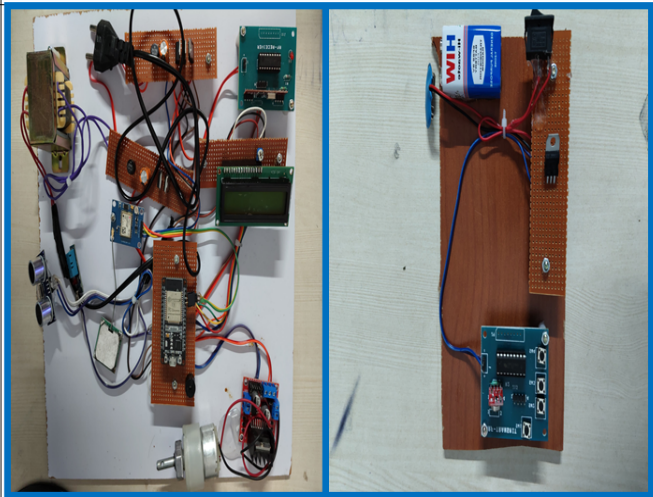
1.

Tele health monitoring
systemPO1, PO2, PO3,
PO5, PO6, PO8,
PSO1, PSO2

2.

IoT-Based Energy
Monitoring for Smart CitiesPO1, PO2, PO3,
PO5, PO7, PSO1,
PSO2

3.	Efficient Rural Water Distribution and Billing Using IoT	 A photograph of an IoT-based water distribution and billing system. It features a breadboard with various electronic components including a microcontroller, sensors, and a relay module. Two clear plastic containers are connected to the system via tubes, and a black cable is plugged into the breadboard. A small label with handwritten text is visible on the breadboard.	PO1, PO2, PO3, PO6, PO7, PSO1, PSO2
4.	Optimized Control of PV-Based SRM Drive with Seven-Level Converter	 A photograph of a PV-based SRM drive system. It includes a solar panel connected to a battery pack, which powers a seven-level converter circuit. The circuit is built on a breadboard and includes a microcontroller, various capacitors, and a relay module. A black cable is plugged into the breadboard.	PO1, PO2, PO3, PO5, PSO1, PSO2

5.	Smart Bidirectional Power Converter for EV Applications		PO1, PO2, PO3, PO5, PO7, PSO1, PSO2
6.	Coastal Safety Enhancement System Using Smart Alerts		PO1, PO2, PO3, PO6, PO8, PSO1, PSO2

AICTE IDEA Laboratory

AICTE and Barani Hydraulics India Pvt. Ltd, jointly developed the IDEA Laboratory with a worth of 90 lakhs. This Laboratory bridges the gap between theory and practice by enabling learners to design, test, prototype and validate ideas using modern tools and technologies.

List of equipment in Laboratory

- Servo Motor Driver Module PCA 9685 16 CHA
- ARDUINO Uno R3 SMD (ADIY)
- USB Cable A To B Blue

- ARDUINO NANO Soldered V8 Port (ADIY)
- Raspberry Pi-4 Case Red & White
- Bread Board 400 Points
- PCB 6x4 Ks-64 Dot
- 9v Battery Charger 8 In 1 ALLIGHT 2
- 23 0.25w Resistor Box
- Water Pump Small 6v
- Bluetooth Module W/Pin HC 05
- Hook Up Wire 1/22
- Led 5mm RGB 4pin Clear C/C
- Touch Sensor Module Mpr121
- Mq-2 Gas Sensor Module (ADIY)
- Ultrasonic Module SR 04
- Pulse Sensor Module
- Colour Sensor RGB TCS 34725
- Motor Driver L 298 (ADIY)
- Function Generator 30 MHz SGDA-30m VARTECH
- Dc Power Supply 3005-3 D2 0-30v 5a VARTECH
- Dual Channel Oscilloscope 100MHz



Figure No. 7.5.2 AICTE Idea lab

Trainings Given in AICTE Idea Lab

- Boot camp for students
- PCB Designing
- Convert the prototype into product

Outcome of AICTE IDEA Lab

- Develops hands-on skills in design, prototyping, fabrication and testing using modern engineering tools.
- Enhances innovation and creative thinking by transforming ideas into functional prototypes and products.
- Promotes interdisciplinary knowledge and problem-solving skills for real world applications.
- Builds entrepreneurial mindset, improving employability, industry readiness and startup potential.

7.5.2 JSR Techno Innovation

JSR Techno Innovation aims to provide industry-oriented training within the college premises and prepare students to become industry-ready engineers.

Activities and Facilities

Students and faculty members perform electrical drawings (EPLAN tool), control panel design and power panel assembly based on industry specifications.

List of major Equipment

- Ferrule printing Machine
- Crimping tool and wire cutter
- Lug crimping tool
- Drilling machine
- Hole saw Cutter

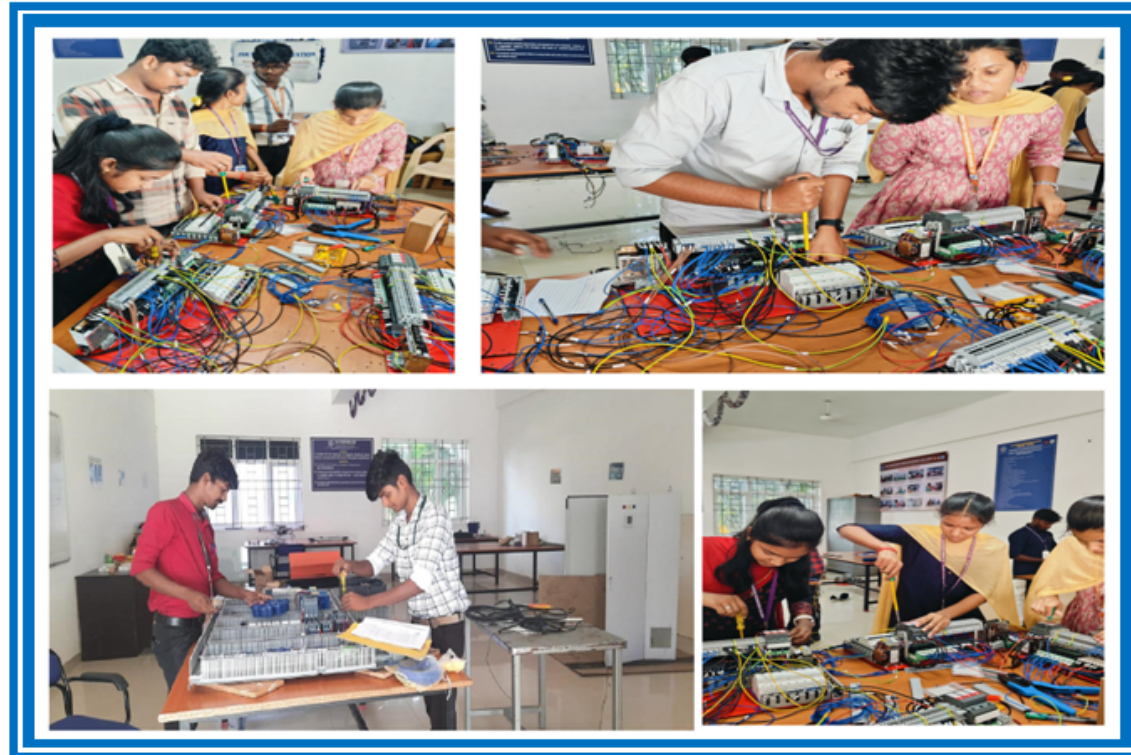


Figure No. 7.5.3 JSR Techno Innovation

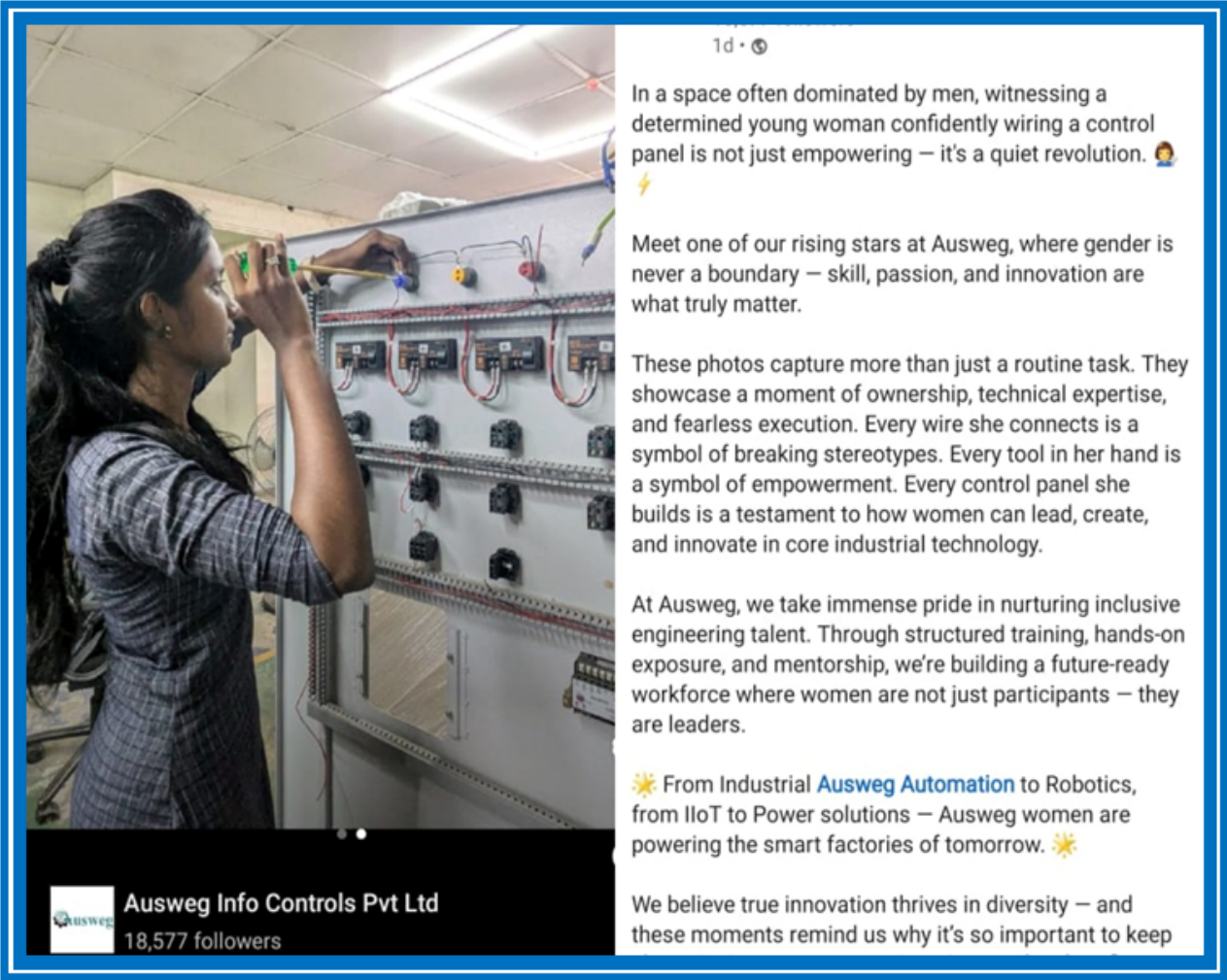


Figure No. 7.5.4 A.RITHIKA (Batch 2021-2025) placed in Ausweg info Control Private Limited at Coimbatore

List of Industry project done through JSR Techno Innovation

Table No. 7.5.3 Industry project done through JSR Techno Innovation

S.No	Name of the Project Title
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1	Control Panel assembly for 2 Ton Hydraulic C-Column Press
2	Control Panel Assembly for 150 T Anvil Type Press for Wheels India Pvt Ltd.
3	Control Panel Assembly for 40 T Hydraulic Press for Trelleborg
4	Control Panel Assembly for 50 T Hydraulic Press for Sundaram Industries
5	Control Panel Assembly for 70 T Hydraulic Press for RBL
6	Panel Assembly for Crane for Genn Automation
7	Control Panel Assembly for 70 T Hydraulic Press for RBL
8	Control Panel Assembly for 150 T Anvil Type Press for Wheels India Pvt Ltd.
9	Control Panel Assembly for 40 T Hydraulic Press for Trelleborg
10	Control Panel Assembly for 50 T Hydraulic Press for Sundaram Industries
11	Control Panel Assembly for 70 T Hydraulic Press for RBL
12	Panel Assembly for Crane for Genn Automation

Outcome of JSR Techno Innovation

- Hands-on exposure to industrial tools and practices (EPLAN, control panel design, power panel assembly).
- Engaged in consultancy work for industries.
- Improved industry collaboration through customized solutions and projects.
- Enhanced research and development capabilities for both faculty and students.

7.5.3 Centre of Excellence- SIEMENS TECH PARK

The Centre of Excellence – Siemens Tech Park provides industry-aligned training and hands-on exposure to students.

Activities and Facilities

- Providing practical training based on current industry requirements.
- Enables faculty members to develop solutions for real-world industrial problems.

List of major Equipment

- Siemens S7 1200 Module
- Siemens S7 1500 Module
- Siemens ET200 Module
- SCADA
- TIA portal V19 Software
- Three Phase induction motor
- Servo motor
- VFD Drive
- Servo Drive
- Human Machine Interface –KTP 400, KP 700



Figure No. 7.5.5 Siemens Tech Park-Students Mini Project



Figure No. 7.5.6 Siemens Tech Park- Two days certification oriented hands on training on PLC Automation

Outcomes of Centre of Excellence – Siemens Tech Park

- Practical Skill Enhancement

Provides hands-on training on Siemens PLCs (S7-1200, S7-1500), SCADA, HMI, servo drives, VFDs and industrial motors, enabling students to understand real-time industrial automation systems.

- Industry-Aligned Training

Equips students with industry-relevant skills using Siemens TIA Portal V19 software, ensuring alignment with current industrial automation standards.

- Employability Improvement

Enhances student employability by developing job-ready skills required in automation, manufacturing and process industries.

- Academic Project Support

Facilitates execution of mini-projects, capstone projects and certification-oriented training using industrial-grade automation infrastructure.

- Faculty Skill Development

Enables faculty members to upgrade technical competencies and develop solutions for real-world industrial problems, supporting applied research and consultancy.

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)	420	21	18	6	74
2024-25(CAYm1)	480	24	19	6	68
2025-26(CAY)	480	24	20	8	73

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	27500000.00	7147260.00	6625000.00	6461202.00	5200000.00	4968387.81	1115000.00	1058662.00
Library	160000.00	125000.00	112500.00	100130.00	475000.00	448756.00	465000.00	454646.00
Laboratory equipment	4500000.00	4154093.00	4300000.00	4128217.00	2800000.00	2622710.00	1225000.00	1115757.00
Teaching and non-teaching staff salary	56848052.00	38848052.00	42575000.00	42073798.00	42500000.00	39569961.00	35600000.00	31030158.00

Outreach Programs	375000.00	309000.00	85000.00	79093.00	130500.00	125262.00	110000.00	96133.00
R&D	4000000.00	932254.00	3200000.00	2917411.00	1715000.00	1649747.00	875000.00	843228.00
Training, Placement and Industry linkage	2200000.00	1634000.00	1825000.00	1727814.00	275000.00	250190.00	385000.00	360776.00
SDGs	3700000.00	3550000.00	95000.00	90205.00	55000.00	49100.00	575000.00	525476.00
Miscellaneous Expenses*	50000.00	30500.00	75000.00	72000.00	45000.00	33231.00	34000.00	28400.00
Miscellaneous Expenses*	50000000.00	33371576.00	46500000.00	45008247.00	31500000.00	30931749.00	26900000.00	26094896.91
Total	149333052.00	90101735.00	105392500.00	102658117.00	84695500.00	80649093.81	67284000.00	61608132.91

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	500000.00	449505.00	50000.00	44372.00	450000.00	435863.00	160000.00	155500.00
Software	140000.00	137000.00	160000.00	151040.00	0	0	0	0
SDGs	10000.00	8745.00	9000.00	8700.00	5000.00	3520.00	5000.00	3285.00
Support for faculty development	25000.00	9200.00	12000.00	9500.00	12000.00	10600.00	12000.00	15800.00
R & D	320000.00	52000.00	750000.00	715400.00	60000.00	57550.00	60000.00	43500.00
Industrial Training, Industry expert,	200000.00	120500.00	95000.00	91237.00	120000.00	108720.00	100000.00	96921.00
Miscellaneous Expenses*	130000.00	68500.00	150000.00	157710.00	125000.00	122700.00	60000.00	56125.00

Total	1325000.00	845450.00	1226000.00	1177959.00	772000.00	738953.00	397000.00	371131.00
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