

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 : 11945	Date of Submission : 10-07-2026

PART A- Profile of the Institute

A1.Name of the Institute : DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY	
Year of Establishment : 2009	Location of the Institute: 164686 N 807389 E
A2. Institute Address :DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY GANGURU VILLAGE PENAMALURU MANDALAM KRISHNA DISTRICT ANDHRA PRADESH	
City:Krishna	State:Andhra Pradesh
Pin Code:521139	Website:www.diet.ac.in
Email:principal@diet.ac.in	Phone No(with STD Code):-
A3. Name and Address of the Affiliating University (if any):	
Name of the University : JAWAHARLAL TECHNOLOGICAL UNIVERITY KAKINADA	City: Krishna
State : Andhra Pradesh	Pin Code: 521139
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: **9**
- No. of PG programs: **2**

Table No. A6.1: List of all programs offered by the Institute.

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	UG	Civil Engineering	2010	--	Civil Engineering
2	Engineering & Technology	UG	Computer Science and Engineering	2009	--	Computer Science and Engineering
3	Engineering & Technology	PG	Computer Science and Engineering	2012	--	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	2021	--	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
5	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2024	--	Computer Science and Engineering (Data Science)
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	Electronics and Communication Engineering (Industry Integrated)	2023	2026	Electronics and Communication Engineering (Industrial Integrated)
9	Engineering & Technology	PG	Environmental Engineering	2019	--	Civil Engineering
10	Engineering & Technology	UG	Information Technology	2019	2025	Information Technology
11	Engineering & Technology	UG	Mechanical Engineering	2009	--	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
Mechanical Engineering	No	Mechanical Engineering	UG
Computer Science and Engineering (Artificial Intelligence and Machine Learning)	Yes	Computer Science and Engineering (Artificial Intelligence & Machine Learning)	UG
Civil Engineering	No	Civil 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	2009 / --	60	Yes	2020	30	2020	South-Central/1-7008280367/2020/EOA	Granted accreditation for 3 years for the period (specify period)	2018	2025	2	4

Sanctioned Intake for Last Five Years for the Electrical and Electronics Engineering	
Academic Year	Sanctioned Intake
2025-26	30
2024-25	30
2023-24	30
2022-23	30
2021-22	30
2020-21	30

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 Guruvulu Naidu Ponnada
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)	30	30	30	30	30	30	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	25	30	27	8	10	18	5
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	5	8	14	19	10	45
N3=Separate division if any	0	0	0	0	0	0	0
N4=Total no. of students admitted in the 1st year via all supernumerary quotas	0	0	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.	25	35	35	22	29	28	50

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)	30	25	0	83.33
2024-25 (CAYm1)	30	30	0	100.00
2023-24 (CAYm2)	30	27	0	90.00

Average [(ER1 + ER2 + ER3) / 3] = 91.11≡ 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).	33.00	33.00	66.00
B=No. of students who graduated from the program in the stipulated course duration	23.00	16.00	37.00

Success Rate (SR)= (B/A) * 100	69.70	48.48	56.06
--------------------------------	-------	-------	-------

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 58.08

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)	6.86	7.08	7.35
Y=Total no. of successful students	30.00	26.00	8.00
Z=Total no. of students appeared in the examination	30.00	27.00	8.00
API [X*(Y/Z)]	6.86	6.82	7.35

Average API[(AP1+AP2+AP3)/3] : 7.01

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)	7.37	7.46	7.66
Y=Total no. of successful students	32.00	22.00	28.00
Z=Total no. of students appeared in the examination	34.00	22.00	29.00
API [X * (Y/Z)]	6.94	7.46	7.40

Average API [(AP1 + AP2 + AP3)/3] : 7.27

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)	7.52	7.58	7.37
Y=Total no. of successful students	22.00	27.00	26.00
Z=Total no. of students appeared in the examination	22.00	28.00	26.00
API [X*(Y/Z)]:	7.52	7.31	7.37

Average API [(AP1 + AP2 + AP3)/3] : 7.40

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	33.00	33.00	66.00
X=No. of students placed	18.00	13.00	27.00
Y=No. of students admitted to higher studies	0.00	1.00	2.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	54.55	42.42	43.94

Average Placement Index = (P_1 + P_2 + P_3)/3: 46.97 Placement Index Points:

PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

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

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr ARAVA SUDHAKAR	XXXXXXX78L	Ph.D	Pondicherry Central University	Electrical Vehicles	17/03/2025	1.2	Professor	Professor	17/03/2025	Regular	Yes		No
2	Dr Somasi Ananthasai	XXXXXXX36J	Ph.D	GITAM DEEMED TO BE UNIVERSITY	RENEWABLE ENERGY TECHNOLOGIES	14/07/2025	0.11	Associate Professor	Associate Professor		Regular	Yes		No
3	KOMALI VEERANKI	XXXXXXX21D	M.Tech	JNTU,KAKINADA	POWER SYSTEM CONTROL AND AUTOMATION	06/06/2011	15	Assistant Professor	Assistant Professor		Regular	Yes		No
4	T VENKATESWARA RAO	XXXXXXX25A	M.Tech	JNTU, KAKINADA	POWER ELECTRONICS & ELECTRIC DRIVES	25/11/2013	12.6	Assistant Professor	Assistant Professor		Regular	Yes		No
5	SHAIK MOHIDDIN	XXXXXXX42K	M.Tech	JNTUK,Kakinada	POWER AND INDUSTRIAL DRIVES	21/08/2023	2.9	Assistant Professor	Assistant Professor		Regular	Yes		No
6	ELIJAH KEERTHI CHANDRA NALLURI	XXXXXXX78C	M.Tech	ACHARYA NAGARJUNA UNIVERSITY	POWER SYSTEMS ENGINEERING	21/08/2023	2.9	Assistant Professor	Assistant Professor		Regular	Yes		No
7	G JAYALAXMI	XXXXXXX62C	M.Tech	JNTUK,KAKINADA	POWER ELECTRONICS	07/07/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
8	MANGALAPURI SRAVANI	XXXXXXX01G	M.Tech	JNTUA	ELECTRICAL POWER SYSTEMS	10/07/2025	0.11	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. Jonnalagadda Ankamma Rao	XXXXXXX88C	Ph.D	Sri Satya Sai university of Technology and Medical Science,MP	Applications of AI in Power System	04/03/2025	1.1	Associate Professor	Associate Professor	04/03/2025	Regular	No	30/04/2026	No
10	Dr S.Sree lakshmi	XXXXXXX02R	Ph.D	JNTUA	POWER &INDUSTIRAL DRIVES	07/08/2024	0.8	Assistant Professor	Assistant Professor		Regular	No	01/05/2025	No

11	Dr K VENKATA RAMI REDDY	XXXXXXX69P	Ph.D	SVU	POWER SYSTEMS	01/07/2023	1.10	Professor	Professor		Regular	No	01/05/2025	No
12	GARAPATI SREELAKSHMI	XXXXXXX74L	M.Tech	JNTUK,KAKINADA	POWER ELECTRONICS	20/06/2016	9	Assistant Professor	Assistant Professor		Regular	No	17/07/2025	No
13	THANDAVA KRISHNA SAI P	XXXXXXX51N	M.Tech	JNTUK,KAKINADA	POWER ELECTRONICS & ELECTRIC DRIVES	01/06/2012	13.1	Assistant Professor	Assistant Professor		Regular	No	16/07/2025	No
14	Dr Guruvulu Naidu Ponnada	XXXXXXX93L	Ph.D	JNTUK,Kakinada	POWER ELECTRONICS	28/08/2024	1.9	Associate Professor	Professor	01/08/2025	Regular	Yes		Yes
15	Dr ANIL KUMAR CHINTA	XXXXXXX17P	Ph.D	ANNAMALAI UNIVERSITY	ELECTRIC VEHICLES	12/08/2013	12.10	Assistant Professor	Associate Professor	06/04/2026	Regular	Yes		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 Department0

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	33	33	33
UG1.C	33	33	33
UG1.D	33	33	33
UG1: Electrical and Electronics Engineering	99	99	99
DS=Total no. of students in all UG and PG programs in the Department	99	99	99
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= 99	S2= 99	S3= 99
DF=Total no. of faculty members in the Department	11	10	8
AF= Total no. of faculty members in the allied Departments	0	0	0

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 11	F2= 10	F3= 8
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= 11.00	SFR2= 12.38	SFR3= 16.50
Average SFR for 3 years	SFR= 13.29		

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	7	4.00	42.50
2024-25(CAYm1)	2	8	4.00	32.50
2023-24(CAYm2)	1	7	4.00	23.75

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	2.00	1.00	2.00	3.00	7.00
2024-25	1.00	1.00	1.00	1.00	3.00	8.00
2023-24	1.00	1.00	1.00	0.00	3.00	7.00
Average	RF1=1.00	AF1=1.33	RF2=1.00	AF2=1.00	RF2=3.00	AF2=7.33

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	M Hareesh	Assistant manager	Gloster cables limited	Induction & Synchronous Machines	30.00
2	Krishna Veera Phanindra	Founder and Director	MaXPARK Pvt. Ltd.	Power System Analysis	25.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Krishna Veera Phanindra	Founder and Director	MaXPARK Pvt. Ltd.	Control Systems	30.00
2	M Hareesh	Assistant manager	Gloster cables limited	Power Systems Operations and Control	20.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	M Hareesh	Assistant manager	Gloster cables limited	Switch Gear and Protection	25.00
2	Krishna Veera Phanindra	Founder and Director	MaXPARK Pvt. Ltd.	Power Electronics	28.00

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	12	6	7
2	No. of peer reviewed conference papers published	9	1	5
3	No. of books/book chapters published	5	0	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. K.VENKATA RAMI REDDY	Dr. S.SREE LAKSHMI	EEE	Smart Microgrid & Energy Management System — solar + battery + grid monitoring, intelligent load management, power-quality monitoring and energy analytics	Maramanishi innovations Pvt Ltd	2	500000.00
						Amount received (Rs.):500000.00

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr .P.T.KRISHNA SAI	Mrs .G.sreeLakshmi	EEE	AI-Based Smart Electrical Panel & Transformer Monitoring System — temperature, current, voltage, harmonics, power factor and fault detection with remote alerts	Maramanishi innovations Pvt Ltd	2	500000.00
Dr. K.VENKATA RAMI REDDY	Mr .P.T.KRISHNA SAI	EEE	AI-Based Autonomous Drone for Solar PV Fault Detection	Optronics Engineering	1	408000.00
						Amount received (Rs.):908000.00

(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
Dr.I.SAIRAM	Mrs.V.Bindu	EEE	AI-Based Industrial Motor Predictive Maintenance System — vibration, temperature, current and acoustic sensing with AI-based fault prediction and maintenance dashboard	Maramanishi innovations Pvt Ltd	2	500000.00
						Amount received (Rs.):500000.00

Total amount (Lacs) received for the past 3 years: 1908000.00

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)

(CAYm2)

(CAYm3)

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

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-I	3	1.3-Ø Rectifier Input 440V/output 220V,100A 2.DC Shunt Identical Machines 3.DC Shunt Motor 4.DC Compound Capacitor Coupled with shunt motor 5.DC	3 Hours (1Slot)	Mr.V.Eswar Ram Subba R	Lab Assistant	B.Tech
2	ELECTRICAL MACHINES LAB-II	3	1.Cylindrical rotor Alternator Coupled with shunt motor 2.Salient Pole Alternator Coupled with shunt motor 3.Cylindrical Generator Motor 4.4 Pole Induction	3 Hours (1 Slot)	Mr.T.Vijay Kumar	Lab Assistant	B.Tech
3	CIRCUITS LAB (EEE workshop Lab)	3	1.Dual Regulated Power Supply (0-30)V 2.1-Ø Auto Transformer (0-230)/270 V 3.Thevenin's and Norton's	42 Hours (14 s)	Mr.T.Vijay Kumar	Lab Assistant	B.Tech
4	CONTROL SYSTEMS LAB & NETWORK ANALYSIS LAB	3	1.5 KVA Stabilizer 2.Analog simulation to study the effect of compensation 3.Synchro Transmitter	3 Hours (1 Slot)	Mr.B.Koteswara Rao	Lab Assistant	B.Tech
5	POWER ELECTRONICS LAB	3	1.5 KVA Stabilizer 2.Study of SCR/MOSFET/IGBT Characteristics 3.1-Ph Cycloconverter 4.1-Ph Half	3 Hours (1 Slot)	Mr.N.Siva Shankar Rao	Lab Assistant	B.Tech
6	MEASUREMENTS LAB	3	1.1-Φ Energy Meter Crompton DC Potentiometer Portable 3.Kelvin Double Bridge 4.Schering Bridge	3 Hours (1 Slot)	Mr.T.Vijay Kumar .	Lab Assistant	B.Tech
7	POWER SYSTEMS LAB	3	1.Sequence Impedance of 3-Ph Transformer Set Up Three Phase Variac 0-470V,10A 2.Sequence Imp of 3-Ph Alternator by fault analysis/direct Load Test Set Up	3 Hours (1 Slot)	Mr.B.Koteswara Rao	Lab Assistant	B.Tech
8	ELECTRICAL SIMULATION LAB	3	MATLAB R2016a Systems (8 GB RAM) -32	35 Hours (1 Sl	Mr.N.Siva Shankar Rao	Lab Assistant	B.Tech

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-1	1.Fire extinguishers set at appropriate places in the lab 2.Instructed the students to ensure safety 3.Safety/precaution measures displayed in the lab 4.Provided first aid kit in lab 5.Provided shock resistance mats for each experiment 6.Provided Safety Guards around the moving parts of electrical machines 7.Wall charts of Dos and Don'ts are displayed in the Laboratory 8.Shoes are mandatory for the lab.
2	Electrical Machines Lab-2	1.Fire extinguishers set at appropriate places in the lab 2.Instructed the students to ensure safety 3.Safety/precaution measures displayed in the lab 4.Provided first aid kit in lab 5.Provided shock resistance mats for each experiment 6.Provided Safety Guards around the moving parts of electrical machines 7.Wall charts of Dos and Don'ts are displayed in the Laboratory. 8.Shoes are mandatory for the lab
3	Electrical Measurements	1.Fire extinguishers set at appropriate places in the lab 2.Instructed the students to ensure safety 3.Safety/precaution measures displayed in the lab 4.Provided first aid kit in lab 5.Wall charts of Dos and Don'ts are displayed in the Laboratory. 6.Shoes are mandatory for the lab

4	Control Systems	1.Fire extinguishers set at appropriate places in the lab 2.Instructed the students to ensure safety 3.Safety/precaution measures displayed in the lab 4.Provided first aid kit in lab 5.Wall charts of Dos and Don'ts are displayed in the Laboratory 6.Shoes are mandatory for the lab
5	Power Electronics	1.Fire extinguishers set at appropriate places in the lab 2.Instructed the students to ensure safety 3.Safety/precaution measures displayed in the lab 4.Provided first aid kit in lab 5.Wall charts of Dos and Don'ts are displayed in the Laboratory 6.Shoes are mandatory for the lab
6	Electrical Circuits	1.Fire extinguishers set at appropriate places in the lab 2.Instructed the students to ensure safety 3.Safety/precaution measures displayed in the lab 4.Provided first aid kit in lab 5.Wall charts of Dos and Don'ts are displayed in the Laboratory 6.Shoes are mandatory for the lab
7	Power Systems	1.Fire extinguishers set at appropriate places in the lab 2.Instructed the students to ensure safety 3.Safety/precaution measures displayed in the lab 4.Provided first aid kit in lab 5.Provided shock resistance mats for each experiment 6.Provided Safety Guards around the moving parts of electrical machines 7.Wall charts of Dos and Don'ts are displayed in the Laboratory 8.Shoes are mandatory for the lab
8	Electrical Simulation	1.Fire extinguishers set at appropriate places in the lab 2.Instructed the students to ensure safety 3.Safety/precaution measures displayed in the lab 4.Provided first aid kit in lab 5.Provided shock resistance mats for each experiment 6.Lab is equipped with stabilizer based UPS for protecting from power fluctuations. 7.Wall charts of Dos and Don'ts are displayed in the Laboratory 8.Shoes are mandatory for the lab

D3. Project Laboratory/Research Laboratory

7.5 Project Laboratory/Research Laboratory

1. The department is well equipped with project laboratory with an area of 126 sq.mm.
2. Project laboratory consists of well configured 4 computer systems (8GB RAM and 1TB HDD).
3. All the systems are equipped with Licensed versions of MATLAB software and the students have free access to the lab during their project period.
4. All the computers in the lab are Net connected and the students can avail the facility for their project work.
5. Models, prototypes, and other project outcomes developed by students are displayed in the laboratory, encouraging innovation, peer learning, and showcasing student achievements.



Figure 7.5.1: PROJECT LAB

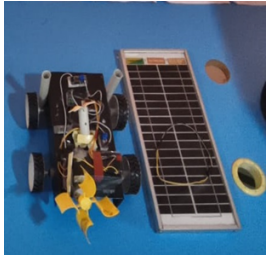


Figure 7.5.2: Solar and Wind Power Electric Vehicle



Figure 7.5.3: Self-navigating, monitoring and garden maintenance robot for water sprinkling & lawn cutting



Figure 7.5.4:Solar Electric Bi-Cycle with smart Battery and Theft Detection



Figure 7.5.5:Four Wheeler Electric Vehicle

PROJECT BATCHES

ACADEMIC YEAR: 2025-2026

Batch No	Roll Number	Name of the Student	Name of the Guide	Title of the Major Project	

B1	238T5A0202	ANNAVARAPU KOTESWARA RAO	Dr P GURUVULU NAIDU	IOT-Enabled Electric Vehicle with Real-Time Monitoring using Mobile Control	
	238T5A0203	ARIGA PREM KUMAR			
	238T5A0207	BOYATHIPPESWAMY			
	238T5A0211	PULAVARTHI SURESH			
B2	228T1A0207	MUSANGI CHARAN SANTHOSH	Dr A SUDHAKAR	Design and Performance Evaluation of an Electric Cargo Tricycle under Variable Load Conditions	
	238T5A0208	KUDETI HARIKA			
	238T5A0204	CHATRAGADDA HARSHAVARDHAN			
	238T5A0209	MEDARA KARTHIK			
B3	228T1A0202	GOLAGANI UMA MAHESWARI	Dr J ANKAMA RAO	Solar Electric Bi-Cycle with smart Battery and Theft Detection	
	238T5A0206	KANNANKOTA SUJATHA NAGA DURGA			
	238T5A0214	SONTI OSHMA			
	228T1A0205	KANKANALA JHANSI			
B4	238T5A0201	AITHANABOYINA KALYAN KUMAR	Mr. ANIL KUMAR CHINTA	Cruise Control Sytem for Electric Bi-cycle with Bluetooth-based Auxiliary Functions	
	208T1A0214	MALLIPEDI SAI VENKATESH			
	228T1A0206	KOMATI MANIKANTA			
	228T1A0201	BANNA MEGHANA			
	228T1A0208	TATA RAMYA SRI			
B5	228T1A0203	KALLEPALLI SURESH	Mr. T VENKATESWARA RAO	Adaptive Power Control in a Pedal- Assist Electric Bicycle	
	238T5A0210	POLIMETLA HARI SRINIVAS			
	238T5A0205	ADDICHARLA CHENNA KESAVA			

B6	228T1A0204	KANCHARLA PRANEETH	Mr. SK MOHIDDIN	Multi-Level Speed Control in an Electric Bicycle	
	238T5A0212	TARAKATURI MANOJ KUMAR			
	238T5A0213	THIRIVEEDHI HEMANTH BABU			

ACADEMIC YEAR: 2024-2025

Batch	Roll No	Name of Student	Name of the Guide	Title of the Major Project
B1	228T5A0211	MORLA JYOTHI	Dr.Guruvulu Naidu.P	Speed Control of BLDC Motor using microcontroller
	228T5A0209	KORADA SAI		
	218T1A0203	BURRA VENKATA MANIKANTA SANTHI SWAROOP		
B2	218T1A0208	KAVALA LAKSHMI RUCHITHA	Mrs.V.Komali	Dual Battery switching power management system for an electric vehicle
	228T5A0208	KOKKILIGADDA KEERTHI CHARANYA		
	218T1A0209	MORAMPUDI VAMSI TARUN		
	218T1A0204	DOKKU SUDHEER BABU		
B3	218T1A0210	THUMMALACHARLA SREYA	Mr.CH.Anil Kumar	Self-navigating, monitoring and garden maintenance robot for water sprinkling & lawn cutting
	228T5A0214	TADISETTI SIVA KONDALAMMA		
	228T5A0206	KAMMAGANTI NALINI		
	218T1A0206	GARIGAPATI NAGA BHUSHANAM		

B4	228T5A0216	VADUGU TEJA BALA SREE	Mr.T.Venkateswara Rao	Underground Cable Fault Detection & locating system using IOT
	228T5A0207	KILARAPU PURNA CHANDRASHEKAR AJAD		
	228T5A0203	BUSSA ROHITH		
	218T1A0205	DONE VENKATA TARUN		
B5	218T1A0207	KANCHARLA PUJITHA ROY	Mr.SK.Mohiddin	Smart wireless EV Charging Solution with Real-Time Voltage Monitoring
	228T5A0219	BANDARU RAMA SIVA SAI		
	228T5A0215	THOMMANDRU PAVAN KUMAR		
	228T5A0204	CHEEMALA DURGA PRASAD		
B6	228T5A0205	JAMPANA PRUDHVI GANESH	Mr.N.E.K.Chandra	Solar and wind power electric vehicle
	228T5A0218	YEPURI VENKATA SAI MOHAN KRISHNA		
	228T5A0201	BALIBINENI ROHIT CHANDRA SEKHAR		
	228T5A0210	MOHAMMAD SALEHA		
B7	228T5A0217	YADDANAPUDI GURU VARDHAN	Dr. Guruvulu Naidu P	Air quality prediction and anaylsis using machine learning
	228T5A0213	SHAIK NAGUL MEERA		
	228T5A0212	SHAIK AJITH		
	228T5A0202	BOGADULA HEMANTH		

ACADEMIC YEAR: 2023-2024

Batch Number	Roll Number	Name of the Student	Faculty Supervisor	Project Title
--------------	-------------	---------------------	--------------------	---------------

B1	218T5A0202	MERAGALA SRAVANI	Dr.K.V.Rami Reddy	Wireless Charging System in Electric Vehicles from Solar Energy
	208T1A0202	ANDURI BALA VENKATA MURALI KRISHNA		
	218T5A0204	NIMMAKURI JAYASREE		
	218T5A0208	MANDALA GNANA VAMSI KRISHNA		
	208T1A0204	CHAGARLAMUDI MAHA LAKSHMI		
B2	208T1A0207	CHOKKA ESWARI	Mr.P.T.Krishna Sai	Battery Thermal Management Systems For Electric Vehicle
	208T1A0210	GOGULA SRIKANTH		
	208T1A0211	JONNALAGADDA VAMSI ADITHYA		
B3	208T1A0212	KONA SIRISHA	Mr.Ch.Anil Kumar	EV Charging Station By Solar Power
	218T5A0201	LANKE PUSHPAK ABHIRAM RAJU		
	218T5A0206	SANDEEP INTIMALA		
	218T5A0209	ANNE CHAKRAVARTHY		
B4	208T1A0205	CHANDRALA RAMA SAI DEEPIKA	Mrs.G.Sree Lakshmi	Smart Medicine Reminder Using Arduino
	218T5A0205	PAMARTHI PAVAN KUMAR		
	218T5A0207	SUKUMAR BHUMA		
	208T1A0208	DEVIREDDY VENKATA TEJASWARA REDDY		
B5	218T5A0203	NADAKUDITI TEJASWANTH	Mr.T.Venkateswara Rao	Dual Axis Solar Energy Tracking System
	218T5A0210	POTNURI NAGALAXMI		
	208T1A0217	NERSU NAGA VITHAL		
	208T1A0218	PULUGUJJU RAHUL TEJA		

B6	208T1A0206	CHANDU PADMAJA	Mrs.V.Komali	Wind Power Generation On Highways
	208T1A0215	MARAGANI ANUSHA		
	208T1A0203	BURIDI RAMANA BABU		
	208T1A0209	DOKKU NAGA GANESH		

ACADEMIC YEAR: 2022-2023

Batch Number	Roll Number		Faculty Supervisor	Project Title
B1	208T5A0203	BAYYA DURGA BHAVANI	Dr.I.SaiRam	Solar power generation and IoT based monitoring
	208T5A0243	YERRAMSETTY VINEELA		
	208T5A0228	PATCHALA JAYANTH		
	208T5A0202	BANDI NAGAAYYAPPA		
	198T1A202	PAPANABOINA NAGENDRA BABU		
	208T5A0208	DEEPALA NAGA SAI VENKATA NAVEEN		
B2	208T5A0218	KOLA CHANDRA SEKHAR	Mrs.V.Komali	Monitoring and controlling of substation using IoT in distribution Power grid
	208T5A0207	CHITHAJALLU LEELA SUNEEL		
	208T5A0220	KOTE PRASANNA KUMAR		
	208T5A0241	VENKATA PULLAIAH CHALLA		
	208T5A0206	CHINNAPOTHULA ESWAR		
	198T5A0213	MANDEPUDI VENU KUMAR		

B3	208T5A0242	YARLAGADDA ANIL KUMAR	Mr.Ch.Anil Kumar	Hybrid Electric vehicle charging station using PSO and Fuzzy- PI controller
	208T5A0234	SAIKAM VINAY		
	208T5A0205	CHEEKATI SRINIVASU		
	208T5A0214	KAMBHAMPATI PAVAN KUMAR		
	208T5A0217	BURA NAGA DURGA BABU		
B4	208T5A0225	MOLAKA RAVI PRAKASH REDDY	Mr.P.T.Krishna Sai	Solar energy based face recognition door lock system for Intruders
	208T5A0221	KUNCHAPU GURUKRISHNA		
	208T5A0213	KALI.YOHAN		
	208T5A0222	MADDURU SUBHAVANA		
	208T5A0201	AMUDALA.VAMSI		
B5	208T5A0231	PHANITHI SOWMYA	Mr.T.Venkateswara Rao	Automatic movement area control in airport
	208T5A0238	VEERAMACHANENI UJWAL UMA MAHESH		
	208T5A0210	GARIKE VEERAMMA		
	208T5A0219	GOLLA NAGA MANIKANTA		
	208T5A0224	MERUGA MANI KANTH		
B6	208T5A0232	RAPAKA GANA NAGENDRA DURGA PRASAD	Mrs.G.Sree Lakshmi	Intelligent agriculture soil moisture monitoring and controlling system based on IoT technology
	208T5A0223	GUDIVAKA.VIJAYESWARI		
	208T5A0227	PALA CHARAN KUMAR		
	208T5A0226	ORUGANTI SANDEEP		
	208T5A0212	KALAPALA SATISH		

B7	208T5A0233	RAVOORINAVEEN	Mr.T.Venkateswara Rao	Automatic solar panel cleaning system
	208T5A0235	SHAIK JAFNA		
	208T5A0236	MOGILINEDI RAMA KRISHNA		
	208T5A0229	PENUMALA DINESH KRISHNA		
	208T5A0211	KAGITHA GOPI KRISHNA		
B8	208T5A0209	DURGA MAHESH NATHAM	Mrs.V.Komali	Energy saving using traffic turbine
	208T5A0204	BUDDHA CHAITANYA		
	208T5A0220	KOTE PRASANNA KUMAR		
	208T5A0241	VENKATA PULLAIAH CHALLA		
	198T1A0201	ARAVAPALLI NAVEEN		
B9	208T5A0216	KILLARI DURGARAO	Mr.Ch.Anil Kumar	Arduino based technology to make city smart
	208T5A0240	VEMURI SUJITH		
	208T5A0230	PERUMALLA.VIVEK		
	208T5A0237	UDIMI NAGARAJU		
	198T1A0204	SHAIK KHAIRULLA		

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)	720	36	31	22	81
2024-25(CAYm1)	840	42	39	22	85
2025-26(CAY)	840	42	40	23	87

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	9000000	8480068	950000	946973	2500000	2449823	6500000	6195527
Library	300000	271195	1000000	954304	800000	785638	250000	236611
Laboratory equipment	25000000	24540682	4500000	4160098	15000000	14439749	10000000	9370933
Teaching and non-teaching staff salary	123500000	123493790	107000000	106585870	80000000	74886650	82000000	79538032
Outreach Programs	71000	71907	36000	30435	71000	72362	36000	37812
R&D	250000	234288	250000	211223	200000	177150	100000	50000
Training, Placement and Industry linkage	7500000	7012923	2200000	2120638	4500000	4281081	2000000	1581287
SDGs	1000000	772448	250000	226559	200000	199932	150000	136559
Entrepreneurship	500000	459691	15000	14190	50000	0	50000	0
Others, specify	70000000	65579928	85000000	78942364	75000000	73682743	65000000	59187481
Total	237121000	230916920	201201000	194192654	178321000	170975128	166086000	156334242

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	1600000	1544231	30000	26852	230000	222030	175000	169160
Software	0	0	0	0	0	0	0	0
SDGs	270000	263995	90000	89000	140000	131916	150000	131916
Support for faculty development	10000	0	75000	73300	65000	62353	10000	10000
R & D	15000	10000	5000	2667	40000	34870	10000	0

Industrial Training, Industry expert, Internship 	10000	5000	35000	34638	25000	19600	25000	24180
Miscellaneous Expenses* 	5987564	5962205	8465000	8070358	8360000	8099161	10045000	8201034
Total	7892564	7785431	8700000	8296815	8860000	8569930	10415000	8536290