

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 2
Application No : 11453	Date of Submission : 05-01-2026

PART A- Profile of the Institute

A1. Name of the Institute : SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,MANAGEMENT AND GRAMOTHAN	
Year of Establishment : 2000	Location of the Institute: https://maps.app.goo.gl/XDRr1vsK3LnXKbU8
A2. Institute Address :RAMNAGARIA,JAGATPURA	
City:JAIPUR	State:Rajasthan
Pin Code:302025	Website:www.skit.ac.in
Email:INFO@SKIT.AC.IN	Phone No(with STD Code):0141-3500300
A3. Name and Address of the Affiliating University (if any) :	
Name of the University : RAJASTHAN TECHNICAL UNIVERSITY,KOTA (RAJ)	City: Kota
State : Rajasthan	Pin Code: 324010
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: 6

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	2011	--	Civil Engineering
2	Engineering & Technology	UG	Computer Science and Engineering	2000	--	Computer Science and Engineering
3	Engineering & Technology	PG	Computer Science and Engineering	2008	--	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Engineering (Artificial Intelligence)	2020	--	Computer Science and Engineering
5	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2021	--	Computer Science and Engineering
6	Engineering & Technology	UG	Computer Science and Engineering (Internet of Things)	2022	--	Computer Science and Engineering
7	Engineering & Technology	PG	Digital Communications	2008	--	Electronics and Communication Engineering
8	Engineering & Technology	UG	Electrical Engineering	2000	--	Electrical Engineering

9	Engineering & Technology	UG	Electronics & Communication Engineering	2000	--	Electronics and Communication Engineering
10	Engineering & Technology	UG	Information Technology	2000	--	Information Technology
11	Engineering & Technology	UG	Mechanical Engineering	2003	--	Mechanical Engineering
12	Engineering & Technology	PG	Power Systems	2009	--	Electrical Engineering
13	Engineering & Technology	PG	Renewable Energy	2014	--	Mechanical Engineering
14	Engineering & Technology	PG	Transportation Engineering	2019	--	Civil Engineering
15	Management	PG	Masters in Business Administration	2006	--	Management

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Electrical Engineering	No	Electrical Engineering	UG

Table No. A7.2: Allied Department(s) to the Department of the program considered for accreditation as above.
Cluster ID. Name of the Department (in table no. A7.1) Name of allied Departments/Cluster (for table no. A7.1)

No Record

PART-B: Program information

B1. Provide the Required Information for the Program Applied For:

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY APPROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electrical Engineering	UG	2000 / --	60	Yes	2022	90	2022	F.No. North-West/1-10973717526/2022/EOA	Granted accreditation for 3 years for the period (specify period)	2023	2026	5	4

Sanctioned Intake for Last Five Years for the Electrical Engineering	
Academic Year	Sanctioned Intake
2025-26	90
2024-25	90
2023-24	90
2022-23	90
2021-22	180
2020-21	180

B2. Detail of Head of the Department for the program under consideration:

A. Name of the HoD :	Dr.Ankush Tandon
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)	90	90	90	90	180	180	180
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	86	62	75	63	64	135	171
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	1	4	0	4	1	3
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	4	5	5	0	10	15	14
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	90	68	84	63	78	151	188

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)	90	86	4	100.00
2024-25 (CAYm1)	90	62	5	74.44
2023-24 (CAYm2)	90	75	5	88.89

Average [(ER1 + ER2 + ER3) / 3] = 87.78≅ 17.00

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).	184.00	181.00	183.00
B=No. of students who graduated from the program in the stipulated course duration	53.00	125.00	125.00
Success Rate (SR)= (B/A) * 100	28.80	69.06	68.31

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 55.39

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)	7.42	7.77	8.27
Y=Total no. of successful students	80.00	92.00	80.00
Z=Total no. of students appeared in the examination	80.00	92.00	80.00
API [X*(Y/Z)]	7.42	7.77	8.27

Average API [(AP1+AP2+AP3)/3] : 7.82

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

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

Academic Performance	CAYm1 (2024-25)	CAYm2 (2023-24)	CAYm3 (2022-23)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.63	8.00	8.05
Y=Total no. of successful students	84.00	62.00	76.00
Z=Total no. of students appeared in the examination	88.00	62.00	80.00
API [X * (Y/Z)]	7.28	8.00	7.65

Average API [(AP1 + AP2 + AP3)/3] : 7.64

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)	7.92	8.09	8.06
Y=Total no. of successful students	62.00	76.00	149.00
Z=Total no. of students appeared in the examination	62.00	76.00	150.00
API [X*(Y/Z)]:	7.92	8.09	8.01

Average API [(AP1 + AP2 + AP3)/3] : 8.01

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	184.00	181.00	183.00
X=No. of students placed	30.00	52.00	85.00
Y=No. of students admitted to higher studies	8.00	12.00	9.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = ((X + Y + Z)/FS) * 100):	20.65	35.36	51.37

Average Placement Index = (P_1 + P_2 + P_3)/3: 35.79 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. Simrath Lal Surana	XXXXXXXX54H	Ph.D	UOM, UK	Power Systems	01/07/2002	23.6	Professor	Professor	01/07/2002	Regular	Yes		No
2	Dr.Dhanraj Chitara	XXXXXXXX28B	Ph.D	MNIT,Jaipur	Power Systems,Control systems	12/07/2017	8.5	Associate Professor	Professor	13/05/2023	Regular	Yes		No
3	Dr.Virendra Swaroop Sangtani	XXXXXXXX24H	Ph.D	MNIT,Jaipur	Power Systems,Power Electronics	11/09/2021	4.3	Associate Professor	Professor	01/07/2024	Regular	Yes		No
4	Dr. Suman Sharma	XXXXXXXX12Q	Ph.D	MNIT,Jaipur	Power Systems	01/07/2013	12.6	Associate Professor	Associate Professor	01/07/2013	Regular	Yes		No
5	Dr.Pooja Jain	XXXXXXXX74Q	Ph.D	RTU,Kota	Power Systems	13/07/2011	14.5	Assistant Professor	Associate Professor	01/07/2022	Regular	Yes		No
6	Dr.Prateek Singhal	XXXXXXXX09N	Ph.D	NIT,Hamirpur	Power Systems	01/12/2022	3.1	Associate Professor	Associate Professor	01/12/2022	Regular	Yes		No
7	Dr.Sanjeev Kumar	XXXXXXXX56J	Ph.D	DEI,Agra	Power Systems	16/08/2023	2.4	Associate Professor	Associate Professor	16/08/2023	Regular	Yes		No
8	Dr.Ankush Tandon	XXXXXXXX59M	Ph.D	RTU,Kota	Power Systems	01/08/2008	17.5	Assistant Professor	Associate Professor	01/07/2015	Regular	Yes		Yes
9	Dr. Sarfaraz Nawaz	XXXXXXXX79Q	Ph.D	PU,Jaipur	Power Systems	15/12/2005	20	Assistant Professor	Professor	01/07/2024	Regular	Yes		No
10	Dr.Jyoti Shukla	XXXXXXXX03P	Ph.D	IIT,Roorkee	Power Systems	21/11/2022	3.1	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Dr.Bharat Modi	XXXXXXXX76H	Ph.D	RTU,Kota	Nuclear Engineering	30/01/2012	13.11	Assistant Professor	Associate Professor	02/07/2012	Regular	Yes		No
12	Dr.Abhishek Gupta	XXXXXXXX38D	Ph.D	RTU,Kota	Power Systems	04/07/2012	13.6	Assistant Professor	Associate Professor	01/07/2017	Regular	Yes		No
13	Dr.Tarun Naruka	XXXXXXXX23A	Ph.D	RTU,Kota	Control Systems	06/07/2012	13.6	Assistant Professor	Associate Professor	02/07/2018	Regular	Yes		No
14	Ms.Smriti Jain	XXXXXXXX32N	M.Tech	RTU,Kota	Power Systems	11/10/2010	15.2	Assistant Professor	Associate Professor	01/07/2013	Regular	Yes		No

15	Mr.Vikas Ranveer Singh Mahala	XXXXXXXX04L	M.Tech	MNIT,Jaipur	Renewable Energy	17/08/2015	10.4	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Md.Yusuf Sharif	XXXXXXXX22P	M.Tech	VIT,Vellore	Power Systems	01/09/2016	9.4	Assistant Professor	Assistant Professor		Regular	Yes		No
17	Mr.Garvit Kumar Gupta	XXXXXXXX10L	M.Tech	RTU,Kota	Power Systems	12/06/2013	12.6	Assistant Professor	Assistant Professor		Regular	Yes		No
18	Mr.Deepak Saini	XXXXXXXX49N	M.Tech	RTU,Kota	Power Systems	02/01/2017	9	Assistant Professor	Assistant Professor		Regular	Yes		No
19	Mr.Ajay Bhardwaj	XXXXXXXX30G	M.Tech	RTU,Kota	Power Systems	01/04/2011	14.9	Assistant Professor	Assistant Professor		Regular	Yes		No
20	Mrs.Deepti Arela	XXXXXXXX07M	M.Tech	RTU,Kota	Power Systems	05/06/2013	12.7	Assistant Professor	Assistant Professor		Regular	Yes		No
21	Mr.Avadhesh Kumar Sharma	XXXXXXXX68B	M.Tech	JNIT,Jaipur	Power Systems	06/07/2012	13.6	Assistant Professor	Assistant Professor		Regular	Yes		No
22	Mr.Jitendra Singh	XXXXXXXX57D	M.Tech	RTU,Kota	Power Systems	07/08/2013	12.4	Assistant Professor	Assistant Professor		Regular	Yes		No
23	Mr.Jinendra Rahul	XXXXXXXX34J	M.Tech	RTU,Kota	Power Systems	01/07/2013	12.6	Assistant Professor	Assistant Professor		Regular	Yes		No
24	Mr.Vivek Sharma	XXXXXXXX87E	M.Tech	JNIT,Jaipur	Power Systems	15/02/2016	9.10	Assistant Professor	Assistant Professor		Regular	Yes		No
25	Mr.Mahesh Kumar Meena	XXXXXXXX67K	M.Tech	RTU,Kota	Power Systems	15/09/2021	4.3	Assistant Professor	Assistant Professor		Regular	Yes		No
26	Dr.Ankit Vijayvargiya	XXXXXXXX70G	Ph.D	MNIT,Jaipur	Instrumentation,Machine Learning	11/07/2014	10.11	Assistant Professor	Associate Professor	01/07/2019	Regular	No	12/06/2025	No
27	Mr.Gaurav Kansal	XXXXXXXX91B	M.Tech	MNIT,Jaipur	Power Systems	13/07/2015	10	Assistant Professor	Assistant Professor		Regular	No	18/07/2025	No

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

C2. Student-Faculty Ratio (SFR)

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

UG1=1st UG program

UGn=nth UG program

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

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

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

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

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

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

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

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

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

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

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

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	91	94	90
UG1.C	94	90	184
UG1.D	90	184	181
UG1: Electrical Engineering	275	368	455
PG1.A	18	18	18
PG1.B	18	18	18
PG1: Power Systems	36	36	36
DS=Total no. of students in all UG and PG programs in the Department	311	404	491
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= 311	S2= 404	S3= 491
DF=Total no. of faculty members in the Department	25	27	27
AF= Total no. of faculty members in the allied Departments	0	0	0
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	F1= 25	F2= 27	F3= 27
FF=The faculty members in F who have a 100% teaching load in the first-year courses	4	4	4
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 14.81	SFR2= 17.57	SFR3= 21.35
Average SFR for 3 years	SFR= 17.91		

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)	13	12	15.00	29.67
2024-25(CAYm1)	13	14	20.00	23.25
2023-24(CAYm2)	10	17	24.00	17.50

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 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- RF3= No. of Assistant Professors required = 6/9 * No. of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (S) as per section C2 of this documents:.
- Faculty cadre and qualification and experience should be as per AICTE/UGC norms.

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	4.00	3.00	8.00	10.00	13.00
2024-25	2.00	4.00	4.00	8.00	13.00	15.00
2023-24	2.00	2.00	5.00	7.00	16.00	18.00
Average	RF1=1.67	AF1=3.33	RF2=4.00	AF2=7.67	RF2=13.00	AF2=15.33

C5. Visiting/Adjunct Faculty/Professor of Practice

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

(CAYm1)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Prem Prakash Bhatnagar	Assistant Professor of Practice	XEN,Retired RSEB	Project Lab	68.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	0	0	0	0	0.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	0	0	0	0	0.00

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	36	37	29
2	No. of peer reviewed conference papers published	20	18	26
3	No. of books/book chapters published	11	3	2

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Mr.Nikhil Saini		Department of Electrical Engineering	Micro Controller based Project Modular Power Supply model PPM2450 LCD and PPM 4880 LCD	RS Power Systems Pvt.Ltd.	2024-25	0.05
						Amount received (Rs.):0.05

(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
Mr.Bharat Modi		Department of Electrical Engineering	To design a Controller for mitigation the temperature effect in PV Array	MSME, Govt. of India	2022-23	15.00
Mr.Ankit Vijayvargiya		Department of Electrical Engineering	Net Zero Automatic solar panel cleaning Robot	MSME, Govt. of India	2022-23	15.00
						Amount received (Rs.):30.00

Total Amount (Lacs) Received for the Past 3 Years: 30.05

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.Tarun Naruka		Department of Electrical Engineering	Laboratory Development	VGU	1 year	3.15
						Amount received (Rs.):3.15

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years: 3.15

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
Ajay Bhardwaj	International Conference on Future Power Network and Smart Energy Systems	2024-25	0.02	0.02	Paper Published
Ankush Tandon	International Conference on Sustainable Technologies in Civil and Environmental Engg	2024-25	0.02	0.02	Paper Published
Jitendra Singh	International Conference on Sustainable Smart Computing and Green Energy	2024-25	0.02	0.02	Paper Published
Bharat Modi	APESC	2024-25	0.01	0.01	Paper Published
Jinendra Rahul	International Conference on Energy Transition and Innovation in Green Technology(ICETIGT 2024)	2024-25	0.02	0.02	Paper Published
Ankush Tandon	3rd International conference in Power engineering & Intelligent system PEIS	2024-25	0.02	0.02	Paper Published
			Amount received (Rs.): 0.11		

(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
Ankit Vijayvargiya	International conference on computer, electronics and electrical engineering and their applications	2023-24	0.02	0.02	Paper Published
Md Yusuf Sharif	5th International Conference on trends in computational and cognitive engineering	2023-24	0.02	0.02	Paper Published
Pooja Jain	International Conference on future power network energy systems	2023-24	0.02	0.02	Paper Published
Bharat Modi	MSME Project	2023-24	0.24	0.24	Research Project
Ankush Tandon	Smart Ignition and Surveillance Device for Motor Vehicles	2023-24	0.04	0.04	Patent Published
Pooja Jain	Smart Ignition and Surveillance Device for Motor Vehicles	2023-24	0.04	0.04	Patent Published
Sarfaraz Nawaz	Smart Ignition and Surveillance Device for Motor Vehicles	2023-24	0.04	0.04	Patent Published
			Amount received (Rs.): 0.42		

(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
Kavita Jain	International conference on sustainable technology for power & energy systems	2022-23	0.03	0.03	Paper Published
Abhishek Gupta	ICAECST	2022-23	0.03	0.03	Paper Published
Abhishek Gupta	3rd International Conference on Communication, Computing & Industry	2022-23	0.02	0.02	Paper Published
Ajay Bhardwaj	STARS-HW	2022-23	0.08	0.08	Patent Published
Ankit Vijayvargiya	STARS-HW	2022-23	0.08	0.08	Patent Published
Ankush Tandon	Passcode based circuit breaker using global mobile communication system	2022-23	0.04	0.04	Patent Published
Pooja Jain	Passcode based circuit breaker using global mobile communication system	2022-23	0.04	0.04	Patent Published
Sarfraz Nawaz	Passcode based circuit breaker using global mobile communication system	2022-23	0.04	0.04	Patent Published
Bharat Modi	Controller For Mitigating the Temperature Effect in PV Array	2022-23	1.57	1.04	Patent Published
Ankit Vijayvargiya	Net Zero Automatic Solar Panel Cleaning Robot	2022-23	1.57	1.55	Prototype Developed
			Amount received (Rs.): 3.50		

Total amount (Lacs) received for the past 3 years : 4.03

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	7F:EELab-16 (Project Lab)	32	• Smart Meter Trainer Kit • UPS • Battery Charger • PIC Development Board • ARM-7 Development Board • PLC Universal Development Board • Universal Power	Project Lab (1	Mr. Mahesh Kumar Rathc	Senior Technical AssistantI	B.Tech., Diploma
2	7F:EELAB 15 (Electric Drives Lab)	21	• 2-Wheeler EV Trainer Kit • DC Motor • 3-Phase Induction Motor • Universal Motor • 3-Phase Dual Converter • 3-Phase Single Converter • 3-Phase	Electric Drives	Mr. Kulwant Singh	Senior Technical AssistantI	B.Tech., Diploma
3	7F:EE Lab-14 (Power System Lab)	21	• Complete Panel for Buchholz Relay • Complete Panel for I.D.M.T. Overcurrent Relay • Complete Panel for Under Frequency Relay • PV Module System	•Power System	Mr. Banshi Lal	Senior Technical AssistantI	B.Tech., Diploma
4	6F:EELAB 12 (Microprocessor Lab.)	21	• 8085 Microprocessor Kit • Study Cards – 8255 (Programmable Peripheral Interface) • Study Cards – 8259 (Programmable Interrupt Controller) • Study	Microprocesso	Mr.Vimal Kant Dimri	Technical Assistant	Diploma
5	6F:EELab09 (Analog Electronics Lab)	18	• CRO • Function Generator • Analog / Digital Multimeter • Power Project Board	Analog Electro	Mr.Prem Prakash Sharma	Senior Technical AssistantI	B.Tech., Diploma

6	6F:EE Lab-11 A (Computer Lab 4)	21	•Desktop Computers (24 in No.s) • MATLAB Software	Embedded Syst	Mr. Ashutosh Sharma	Technical Assistant	B.Tech
7	6F:EELab10A (Computer Lab 3)	21	•Desktop Computers (25 in no.s) • Printer • MATLAB Software	•Control Syster	Mr.Sarwan Lal Kumhar	Technical Assistant	PGDCA (Diploma), MSc (I
8	6F:EELab10B (Computer Lab 3)	21	•Desktop Computers (23 in no.s) • MATLAB Software	•AdvancedCon	Mr.Satyaveer Singh	Technical Assistant	PGDCA, PG Yoga Diplom
9	6F:L8(Seminar Hall)	60	•Projector • Computer • Audio system	Industrial Train	Mr.Satyaveer Singh	Technical Assistant	PGDCA, PG Yoga Diplom
10	6F:EELab-9 (Power Electronics Lab)	18	• Single-Phase Half / Full Controlled Bridge Rectifier • DC Motor Control Using Half / Full Controlled Bridge Rectifier • PSC (Digital Storage Oscilloscope) • PSC	Power Electror	Mr.Prem Prakash Sharma	Senior Technical Assistant	B.Tech., Diploma
11	6F:EELab08 (Research Lab)	20	•IBM Server, • Computers(20 Nos.). • PSCAD Software • MATLAB Software • PWS Software	Modernization	Mr.Sarwan Lal Kumhar	Technical Assistant	PGDCA (Diploma), M.Sc.
12	5F:EE LAB5 (Electrical Measurement Lab)	18	• DC Slide Wire Potentiometer • Desauty Bridge • Wien's Bridge Kit • Fixed Sine Wave Oscillator • Digital Multimeter • PSC (Digital Storage Oscilloscope)	•Electrical Mea	Mr.Rajendra Prasad Baira	Technical Assistant	B.Tech, Diploma
13	3F:EE LAB3 (Basic Electrical Engineering Lab-I)	32	• 1-Phase Induction Motor • 3-Phase Induction Motor • 1-Phase Transformer • 3-Phase Transformer • Ceiling Fan • Digital Multimeter • PSC (Digital Storage Oscilloscope)	Basic Electrica	Mrs. Anita Bagaria	Lab Assistant	ITI
14	3F:EE LAB4 (Basic Electrical Engineering Lab-II)	32	• DC Motor • 3-Phase Induction Motor • 1-Phase Transformer • 3-Phase Transformer • Ceiling Fan • Digital Storage Oscilloscope (PSC) • Digital Multimeter	Basic Electrica	Mr.Arjun Sharma	Technical Assistant	B.Tech.
15	7F:EE LAB13 (Digital Electronics Lab)	18	•Logic Training Board on Counters • Digital Multimeter • Function Generator • Universal IC Tester • Power Test Board • Soldering Iron • Computer	Digital Electror	Ms.Reshma Sharma	Technical Assistant	Diploma
16	1F:EELab1 (Electrical Machine Lab)	18	• DC Shunt Motor • Induction Motor • Synchronous Motor • Synchronous Alternator • Universal Motor • Single Phase Transformer • Three Phase Transformer	•Electrical Mac	Mr.Banshi Lal	Senior Technical Assistant	B.Tech., Diploma

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
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1	<ul style="list-style-type: none"> • 7F:EE Lab-16(Project Lab) • 1F:EE Lab1 (Electrical Machine Lab) • 3F:EE LAB4-A (Basic Electrical Engineering Lab) • 3F:EE LAB4-B (Basic Electrical Engineering Lab) 	<p>Comprehensive safety measures have been implemented in the Electrical Engineering laboratories to ensure a safe and secure working environment for students, faculty, and staff. • Type-C fire extinguishers, suitable for electrical and shock-related hazards, are installed in laboratories and across all corridors. • Hands-on training and demonstrations are conducted for laboratory personnel on the proper use of fire extinguishers, including safety pin removal, aiming techniques, sweeping method, handling precautions, and periodic checks for pressure and expiry. • First-aid kits are well equipped and readily available in the HOD office as well as on each floor and kept in each laboratory for immediate medical assistance. • An Ambu bag (CPR) is available to provide emergency respiratory support during critical situations. • Polymer insulation mats (1100 V rated, 2 mm thickness) compliant with latest IS standards are placed in laboratories to enhance electrical safety. • All laboratory electrical installations are provided with proper earthing and standard-compliant electrical fittings. • Miniature Circuit Breakers (MCBs) are installed to protect all electrical equipment against over-voltage conditions and short circuits. • UPS systems are deployed to control voltage fluctuations and ensure uninterrupted power supply for sensitive equipment. • Insulating safety gloves conforming to IS/IEC 60903 standards are used during high-voltage operations, with emphasis on inspection before use and adherence to safe handling practices. • CCTV surveillance systems are installed to monitor laboratory activities and enhance safety and security. • Mandatory safety instructions and operational guidelines are demonstrated to students before entering the laboratories. • Students are instructed to have all circuit connections and layouts checked by the faculty before energizing any equipment, in order to prevent accidental hazards. • All laboratory computers are regularly updated with licensed antivirus software to ensure cyber and system security. • Earthing resistance is periodically checked to ensure electrical safety.</p>
2	<ul style="list-style-type: none"> • 6F:EE Lab08 (Research Lab) • 6F:EE Lab 10A (Computer Lab 3) • 6F:EE Lab 10B (Computer Lab 3) • 6F:EE Lab-11A (Computer Lab 4) 	<p>• CCTV surveillance systems are installed in the software laboratories to monitor activities and ensure safety, security, and proper utilization of resources. • All computers in the software laboratories are equipped with licensed and regularly updated antivirus software to protect systems from malware, data breaches, and cyber threats. • Uninterruptible Power Supply (UPS) systems are provided to control voltage fluctuations and ensure continuous and reliable power supply, thereby preventing data loss and hardware damage during power interruptions.</p>

D3. Project Laboratory/Research Laboratory

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)	1080	54	38	40	71
2024-25(CAYm1)	1200	60	37	42	63
2025-26(CAY)	1320	66	38	41	58

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	20000000	6079342	17000000	16618434	25000000	22739458	8000000	6815146
Library	2300000	436735	2300000	2121386	2200000	1877160	2500000	2010032

Laboratory equipment	30000000	4971769	26500000	25636912	15000000	7105040	25000000	14668976
Teaching and non-teaching staff salary	347700000	254273620	315000000	314829794	290000000	287612505	255000000	250580941
Outreach Programs	1000000	303184	1000000	903817	400000	359864	400000	390448
R&D	1000000	472719	1000000	296692	1000000	648288	1000000	131490
Training, Placement and Industry linkage	2500000	801734	1600000	1541365	1000000	839889	1200000	1100119
SDGs	45000000	40745993	41600000	41249406	36600000	33170201	34700000	34265129
Entrepreneurship	1000000	15000	1000000	639540	700000	639540	2200000	2077708
Others, specify	99500000	91868677	69000000	66922622	60600000	59726272	50000000	49539797
Total	550000000	399968773	476000000	470759968	432500000	414718217	380000000	361579786

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	1000000	1012980	500000	440740	1000000	899724	425000	386289
Software	0	0	0	0	0	0	1720000	1705000
SDGs	100000	70067	0	0	0	0	0	0
Support for faculty development	100000	27570	250000	245705	50000	89119	0	28000
R & D	300000	122080	100000	21852	50000	0	30000	26000
Industrial Training, Industry expert, Internship	50000	23500	50000	26500	50000	24393	50000	20000
Miscellaneous Expenses*	450000	390566	50000	26162	100000	69279	125000	121681
Total	2000000	1646763	950000	760959	1250000	1082515	2350000	2286970