

NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electrical and Electronics Engineering	Discipline : Engineering & Technology
Level : Under Graduate	Tier : 2
Application No : 11479	Date of Submission : 16-01-2026

PART A- Profile of the Institute

A1.Name of the Institute : GOVT.COLLEGE OF ENGG,KANNUR DISTRICT,KERALA	
Year of Establishment : NIL	Location of the Institute: Andoor
A2. Institute Address :P.O PARASSINIKKADAVU	
City:KANNUR	State:Kerala
Pin Code:670563	Website:www.gcek.ac.in
Email:PRINCIPAL@GCEK.AC.IN	Phone No(with STD Code):0497-2780226
A3. Name and Address of the Affiliating University (if any) :	
Name of the University : NIL	City: Thiruvananthapuram
State : Kerala	Pin Code: 695023
A4. Type of the Institution : Government Institute	
A5. Ownership Status : State Government	

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

- No. of UG programs: **5**
- No. of PG programs: **9**

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

Sr.No.	Discipline	Level of program	Name of the program	Year of Start	Year of Closed	Name of The Department
1	Engineering & Technology	PG	Advanced Manufacturing and Mechanical Systems Design	2011	--	Mechanical Engineering
2	Engineering & Technology	PG	Artificial Intelligence and Data Science	2024	--	Computer Science and Engineering
3	Engineering & Technology	UG	Civil Engineering	1986	--	Civil Engineering

4	Engineering & Technology	PG	Computer Aided Structural Engineering	2012	--	Civil Engineering
5	Engineering & Technology	UG	Computer Science and Engineering	2001	--	Computer Science and Engineering
6	Engineering & Technology	UG	Electrical & Electronics Engineering	1986	--	Electrical and Electronics Engineering
7	Engineering & Technology	UG	Electronics & Communication Engineering	1986	--	Electronics and Communication Engineering
8	Engineering & Technology	PG	Energy Engineering	2020	--	Mechanical Engineering
9	Engineering & Technology	PG	Geotechnical & Geoenvironmental Energy	2022	--	Civil Engineering
10	Engineering & Technology	PG	Internet of Things (IOT)	2025	--	Electronics and Communication Engineering
11	Engineering & Technology	UG	Mechanical Engineering	1986	--	Mechanical Engineering
12	Engineering & Technology	PG	Power Electronics & Drives	2011	--	Electrical and Electronics Engineering
13	Engineering & Technology	PG	Power Systems	2019	--	Electrical and Electronics Engineering
14	Engineering & Technology	PG	Signal Processing and Embedded Systems	2012	--	Electronics and Communication 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
Civil Engineering	No	Civil Engineering	UG
Computer Science and Engineering	No	Computer Science and Engineering	UG
Electronics and Communication Engineering	No	Electronics & Communication Engineering	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. Baburaj P
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	58	58	60	59	56	58	59
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	7	6	7	16	8	12
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	9	7	9	9	2	6	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	67	72	75	75	74	72	71

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	58	9	111.67
2024-25 (CAYm1)	60	58	7	108.33
2023-24 (CAYm2)	60	60	9	115.00

Average [(ER1 + ER2 + ER3) / 3] = 111.67≡ 100

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).	76.00	72.00	72.00
B=No. of students who graduated from the program in the stipulated course duration	57.00	61.00	54.00
Success Rate (SR)= (B/A) * 100	75.00	84.72	75.00

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 78.24

B6. Academic Performance of the First-Year Students of the Program

Table No.B6.1: Academic Performance of the First-Year Students of the Program.

Academic Performance	CAYm1(2024-25)	CAYm2(2023-24)	CAYm3 (2022-23)
X=(Mean of 1st year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 1st year/10)	7.58	7.89	7.58
Y=Total no. of successful students	60.00	59.00	58.00
Z=Total no. of students appeared in the examination	65.00	69.00	68.00
API [X*(Y/Z)]	7.00	6.75	6.47

Average API[(AP1+AP2+AP3)/3] : 6.74

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)	7.68	7.44	6.32

Y=Total no. of successful students	61.00	51.00	57.00
Z=Total no. of students appeared in the examination	65.00	65.00	68.00
API [$X * (Y/Z)$]	7.21	5.84	5.30

Average API [$(AP1 + AP2 + AP3)/3$] : 6.12

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)	7.36	6.26	7.67
Y=Total no. of successful students	51.00	57.00	61.00
Z=Total no. of students appeared in the examination	51.00	57.00	63.00
API [$X*(Y/Z)$]:	7.36	6.26	7.43

Average API [$(AP1 + AP2 + AP3)/3$] : 7.02

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	76.00	68.00	72.00
X=No. of students placed	35.00	48.00	39.00
Y=No. of students admitted to higher studies	5.00	17.00	8.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = $((X + Y + Z)/FS) * 100$:	52.63	95.59	65.28

Average Placement Index = $(P_1 + P_2 + P_3)/3$: 71.17 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. Shahin M	XXXXXXXX36J	Ph.D	IIT Kharagpur	Control systems	03/06/1999	26.7	Lecturer	Professor	01/04/2014	Regular	Yes		No
2	Dr.Sreekumar C	XXXXXXXX29H	Ph.D	IIT Bombay	Control Systems	17/06/1999	26.7	Lecturer	Professor	28/04/2014	Regular	Yes		No
3	Dr. Baburaj P	XXXXXXXX64Q	Ph.D	IIT Bombay	Control Systems	21/11/2023	2.1	Professor	Professor	21/11/2023	Regular	Yes		Yes
4	Dr. Anilkumar T. T	XXXXXXXX17G	Ph.D	NIT Trichy	Power systems	04/06/1999	26.7	Lecturer	Professor	17/05/2018	Regular	Yes		No
5	Dr. Sukesh A	XXXXXXXX31A	Ph.D	IISc Bangalore	Electromagnetic Theory	10/07/2017	8.6	Assistant Professor	Associate Professor	11/08/2021	Regular	Yes		No
6	Dr. Nisha B Kumar	XXXXXXXX23A	Ph.D	NIT Surathkal	Electrical Machines	06/01/2014	12	Assistant Professor	Assistant Professor		Regular	Yes		No
7	Prof. Divyalal R K	XXXXXXXX11R	M.Tech	Kerala University	Electrical Machines	15/10/2014	11.3	Assistant Professor	Assistant Professor		Regular	Yes		No
8	Dr. Muhd. Ramees MKP	XXXXXXXX35N	Ph.D	NIT Surathkal	Power Electronics	01/08/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. Anjali Anand K	XXXXXXXX05M	Ph.D	NIT Kozhikode	Power Electronics	18/07/2019	6.5	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Prof. Akhil Chacko	XXXXXXXX84C	M.Tech	NIT Kozhikode	Instrumentation and Control	21/12/2021	4	Assistant Professor	Assistant Professor		Regular	Yes		No
11	Prof. Jisha P	XXXXXXXX89Q	M.Tech	Anna University	Power Electronics and Drives	13/12/2021	4.1	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Prof. Jiji J. K.	XXXXXXXX87F	M.Tech	APJAKTU Kerala	Control systems	07/03/2025	0.10	Assistant Professor	Assistant Professor		Regular	Yes		No
13	Prof. Gowrikrishna J	XXXXXXXX62B	M.Tech	Kerala University	Guidance and Navigational Control	06/08/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No

14	Ms. Prabha Chandran	XXXXXXXX79G	M.Tech	Kannur University	Power Electronics and Drives	01/07/2025	0.6	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
15	Prof. Gokulkrishnan K	XXXXXXXX38F	M.Tech	NIT Calicut	Industrial Power and Automation	11/08/2025	0.5	Assistant Professor	Assistant Professor		Regular	Yes		No
16	Mrs. Deepa C Nambiar	XXXXXXXX24K	M.Tech	Kannur University	Power Electronics	21/02/2024	1.10	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
17	Mrs. Reshmi R K	XXXXXXXX86J	M.Tech	APJAKTU Kerala	Power Electronics and Drives	14/10/2024	1.2	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
18	Dr.Manoj kumar M V	XXXXXXXX40K	Ph.D	IIT Madras	Power Systems	19/07/2004	21.2	Assistant Professor	Professor	20/07/2018	Regular	No	04/10/2025	No
19	Mrs. Sharanya V P	XXXXXXXX76L	M.Tech	Kannur University	Signal processing and embedded system	29/07/2024	0.11	Assistant Professor	Assistant Professor		Contractual Fulltime	No	30/06/2025	No
20	Ms. Anusha Devadas	XXXXXXXX57Q	M.Tech	APJ Abdul Kalam Technological University	Control Systems	09/01/2024	2	Assistant Professor	Assistant Professor		Contractual Fulltime	Yes		No
21	Mrs. Nidhisha K V	XXXXXXXX73R	M.Tech	Anna University	Power Electronics and Drives	18/07/2024	0.11	Assistant Professor	Assistant Professor		Contractual Fulltime	No	30/06/2025	No
22	Dr. Ismayil C	XXXXXXXX24M	Ph.D	NIT Kozhikode	Power Systems	02/06/2017	7	Professor	Professor	02/06/2017	Regular	No	31/05/2024	No
23	Mrs. Anisha K	XXXXXXXX91A	M.Tech	APJAKTU Kerala	Control System	26/08/2023	1.6	Assistant Professor	Assistant Professor		Contractual Fulltime	No	06/03/2025	No
24	Mrs. Reshmi K M	XXXXXXXX09B	M.Tech	APJAKTU Kerala	Power Systems	26/08/2023	1.1	Assistant Professor	Assistant Professor		Contractual Fulltime	No	09/10/2024	No
25	Mr. Sarath P	XXXXXXXX31D	M.Tech	APJAKTU Kerala	Power Electronics and Drives	26/08/2023	1.6	Assistant Professor	Assistant Professor		Contractual Fulltime	No	18/03/2025	No
26	Mr. Mahesh Mohan	XXXXXXXX34D	M.Tech	Amritha Vishwa Vidyapeedam	Embedded Systems	30/08/2022	1.10	Assistant Professor	Assistant Professor		Contractual Fulltime	No	12/07/2024	No

27	Mrs. Ramyasree K V	XXXXXXXX89P	M.Tech	Visvesvaraya Technological University	Computer Applications in Industrial Drives	26/08/2023	1.10	Assistant Professor	Assistant Professor		Contractual Fulltime	No	30/06/2025	No
28	Dr. Rajesh M	XXXXXXXX27L	Ph.D	IIT Delhi	Power Electronics	19/09/2025	0.3	Professor	Professor	19/09/2025	Regular	Yes		No
29	Dr. Abdul Saleem P. K	XXXXXXXX34D	Ph.D	IISc Bangalore	Control Systems	04/10/2025	0.3	Professor	Professor	04/10/2025	Regular	Yes		No
30	Mr. Seershak M	XXXXXXXX77A	M.Tech	APJAKTU Kerala	Power Systems	31/08/2024	0.6	Assistant Professor	Assistant Professor		Contractual Fulltime	No	18/03/2025	No
31	Mrs. Lajitha K V	XXXXXXXX01N	M.Tech	Anna university	Power Electronics and Drives	26/08/2023	0.4	Assistant Professor	Assistant Professor		Contractual Fulltime	No	12/01/2024	No
32	Mrs. Harisha D K	XXXXXXXX51H	M.Tech	Calicut University	Power Systems	01/08/2019	4.4	Assistant Professor	Assistant Professor		Contractual Fulltime	No	22/12/2023	No
33	Mr. Nipunlal T	XXXXXXXX73M	M.Tech	MG University	Power Electronics & Control	30/08/2022	1.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	14/02/2024	No
34	Mr. Sooraj Suresh Kumar	XXXXXXXX01C	M.Tech	Anna University	Power Electronics and Drives	01/07/2025	0.5	Assistant Professor	Assistant Professor		Contractual Fulltime	No	05/12/2025	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 Department2

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

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	66
UG1: Electrical & Electronics Engineering	198	198	198
PG1.A	12	18	18
PG1.B	18	18	18
PG1: Power Electronics & Drives	30	36	36
PG2.A	12	18	18
PG2.B	18	18	18
PG2: Power Systems	30	36	36
DS=Total no. of students in all UG and PG programs in the Department	258	270	270
AS=Total no. of students of all UG and PG programs in allied departments	0	0	0
S=Total no. of students in the Department (DS) and allied departments (AS)	S1= 258	S2= 270	S3= 270
DF=Total no. of faculty members in the Department	18	16	16
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= 18	F2= 16	F3= 16
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0	0	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 14.33	SFR2= 16.88	SFR3= 16.88
Average SFR for 3 years	SFR= 16.03		

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)	7	11	12.00	23.75
2024-25(CAYm1)	7	9	13.00	20.38
2023-24(CAYm2)	7	9	13.00	20.38

C4. Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required RF1	Available AF1	Required RF2	Available AF1	Required RF3	Available AF3
2025-26	1.00	4.00	2.00	1.00	8.00	9.00
2024-25	1.00	5.00	3.00	0.00	9.00	6.00
2023-24	1.00	5.00	3.00	0.00	9.00	6.00
Average	RF1=1.00	AF1=4.67	RF2=2.67	AF2=0.33	RF2=8.67	AF2=7.00

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)

(CAYm2)

(CAYm3)

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	3	3	7
2	No. of peer reviewed conference papers published	16	13	39
3	No. of books/book chapters published	2	0	0

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
Dr. Anjali Anand K		APJAKTU	Development of Smart EV Charger Based on Bridgeless PFC Converter	APJAKTU-CERD-Financial Assistance to Student Projects 2024-25	12 Months	0.43
Dr. Manoj Kumar M V		APJAKTU	Bi-directional EV charger for V2G and G2V application	APJAKTU-CERD-Financial Assistance to Student Projects 2024-25	12 Months	0.22
Dr Suresh A		Local Self Governance Department, Govt of Kerala	Baseline Assessment for Carbon Neutral Chittattukara	Chittattukara Gramapanchayat	24 Months	2.25
Dr. Manoj Kumar M		APJAKTU	Solar PV based multi-port DC -DC converter utilising hybrid energy storage system	APJAKTU-CERD-Financial assistance to Student Projects	12 Months	0.22
						Amount received (Rs.):3.12

(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 Suresh A		Local Self Governance Department, Govt of Kerala	Baseline Assessment for Carbon Neutral Chittattukara	Chittattukara Gramapanchayat	24 Months	2.25
Dr Suresh A		Local Self Governance Department, Govt of Kerala	Baseline Assessment for Carbon Neutral Kurumathur	Kurumathur Gramapanchayat	24 Months	2.25
Dr Suresh A		UNDP	Baseline Assessment for Carbon Neutral Mankulam	UNDP	18 Months	13.87
						Amount received (Rs.):18.37

(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 Suresh A		Local Self Governance Department, Govt of Kerala	Baseline Assessment for Carbon Neutral Kurumathur	Kurumathur Gramapanchayat	24 Months	2.25
Dr Suresh A		UNDP	Baseline Assessment for Carbon Neutral Mankulam	UNDP	18 Months	13.87
						Amount received (Rs.):16.12

Total Amount (Lacs) Received for the Past 3 Years: 37.61

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 Suresh A		ITC & SR	LED Street Light Testing	Kuttiattoor Gramapanchayat	1 Month	0.02
Dr Suresh A		CCE	LED Testing	Pattuvam Gramapanchayat	1 Month	0.02
Dr Suresh A		CCE	LED Testing	Thalassery Municipality	1 Month	0.02
Dr Suresh A		CCE	LED Testing	Muzhappilangad Gramapanchayat	1 Month	0.02
Dr. Baburaj P		ITCSR	Pulz Cylintory-Advanced RFID scanning and metal bonding techniques for LPG Cylinder Management.	TEBS Ltd. Bengaluru	18 Months	0.40
Dr. Baburaj P		ITCSR	Post-Quantum Cryptography and QML for Algorithmic Security	Vedayaj Innovations Ltd. Bengaluru	24 Months	1.00
						Amount received (Rs.):1.48

(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
						Amount received (Rs.):0

(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
						Amount received (Rs.):0

Total amount (Lacs) received for the past 3 years: 1.48

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	Electronics Lab	3	CRO, DSO, Function Generator, Regulated Power Supply, LCR meter	14 hours	1)Dinesan Paranth	1)Trade Instructor	1)ITI NCVT Instrum
2	Electrical Measurements Lab	4	Wheatstone's bridge, 3phase inductive load, Various Measuring instruments, Power meter	10 hours	1)Maju Mathew 2)L	1)Trade Instructor	1)ITI 2)ITI
3	Electrical Workshop	2	Wiring tools and equipment, Battery Charger, Battery tester, Transformer winding machine	8 hours	1)Arjun T C 2)Man	1)Instructor Grade	1)Mtech 2)Diploma
4	Electrical Machines Lab	4	Alternators, Single Phase and Three Phase Induction Motors, DC machines, Three phase auto transformer, Single	8 hours	1)Biju Mathew 2)Li	1) Instructor Grade	1)Diploma in Electr
5	Power Electronics Lab	4	Three Phase and Single Phase Power Quality Analyzer, DSP Kit, 3 Phase IGBT Module, SCR Module, FPGAKit, DSPACE	8 hours	1) Pradeep Kumar	1)Trade Instructor	1)B.Tech (EEE) 2)i
6	Power System Lab	4	Power transmission line simulator, Insulation tester, DSP TMF 320F, Solar Panel, Fuel collector, Solar Controller	6 hours	1)Sherli P 2)Jaimor	1)Trade Instructor	1)Diploma in Electr

7	Systems and Control Lab	4	Synchro, PID controller kit, DSO, Regulated Power Supply, Phase	6 hours	Jaimon N M	Trade Instructor Gr	ITI
8	Software Lab	1	MATLAB, C programming, Mi Power, Ansys	12 hours	1)Surendran Eram:	1)Trade Instructor (	1)Diploma in Electr
9	IT Workshop	2	Desktops, Network switches, CCTV camera, working models, wiring tools	4 hours	Krishnaprasad V	Instructor Grade II	Diploma in Electric:
10	Microprocessor Lab	3	8085 kit, 8051 controller Kit, Aurduino uno	6 hours	1)Dinesan Paranth:	1)Trade Instructor (	1)ITI NCVT Instrum
11	Electrical Drives Lab	2	DSO, Differential voltage probe, Current probe, Desktop computer, DC motor drive,	8 hours	Lishoy N D	Trade Instructor Gr	ITI
12	Advanced Power Electronics Lab	2	Power Electronics Drives, Desktope with simulation tools, DC regulated power	8 hours	Jaimon N M	Trade Instructor Gr	ITI

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	General Safety rules and precautions followed in each laboratory.	1) Students are allowed to enter the laboratory only in the presence of the concerned faculty or laboratory instructor 2) Proper dress code is strictly followed by students while attending laboratory sessions 3) Proper earthing is provided for all electrical equipment to ensure safe operation 4) Any faulty equipment or abnormal condition must be reported immediately to the lab in-charge 5) Food and drinks are not allowed inside the laboratory 6) Students are instructed to wear appropriate shoes when entering the laboratories 7) Fuse protection is provided at each supply point to prevent damage due to overload or short circuit 8) First Aid Box is available in each laboratory to handle minor injuries and emergencies 9) Fire safety equipment such as fire extinguishers are installed at appropriate and easily accessible locations 10) Safety instructions and precautionary measures are clearly displayed in every laboratory 11) Any accident or injury must be reported immediately to the faculty or laboratory staff.
2	Electronics Lab	1) Students are instructed to check circuit connections carefully before switching on the power supply 2) Before the commencement of each experiment, students are assessed regarding their knowledge of the procedure and safety precautions to be followed during the experiment 3) Students are also instructed and monitored to turn off the power supply before disconnecting or modifying any circuit connections 4) Students should take extra care while handling electronic components such as ICs, transistors, and diodes to prevent damage due to incorrect connections, reverse polarity, or improper handling during experiments 5) An equipment issue register is maintained in the laboratory to record the issue and return of instruments and components

3	Electrical Measurements Lab	1) Before the commencement of each experiment, students are assessed regarding their knowledge of the procedure and safety precautions to be followed while performing the experiment 2) Students are instructed to switch on the main power supply only after the circuit connections are verified by the faculty or laboratory staff, and to switch off the supply immediately after completing the experiment 3) Students are instructed to switch off the power supply before changing or disconnecting circuit connections 4) An equipment issue register is maintained in the laboratory to record the issue and return of instruments and components
4	Electrical Workshop	1) Students are instructed to take special care while performing mechanical works related to wiring. They are permitted to switch on the power supply only after the circuit connections are verified 2) All electrical equipment is protected against over-voltages and short circuits through the use of MCBs (Miniature Circuit Breakers) 3) Safety instructions and laboratory guidelines are explained to students before entering the laboratory to ensure awareness of safe operating procedures 4) Students are instructed to switch off the power while disconnecting or altering the circuit 5) An equipment issue register is maintained in the laboratory to record the issue and return of instruments and components
5	Power Electronics Lab	1) Before the commencement of every experiment, students are examined regarding their knowledge of the procedure and precautions to be followed while performing the experiment 2) Students are instructed to switch on the main supply only after the circuit connections are checked and approved by the faculty or laboratory staff, and to switch off the supply immediately after completing the experiment 3) Students should take extra care while handling components such as ICs, SCR, Mosfet and diodes to prevent damage due to incorrect connections, reverse polarity, or improper handling during experiments 4) Students are also instructed to switch off the power supply while disconnecting or altering the circuit connections 5) An equipment issue register is maintained in the laboratory to record the issue and return of instruments and components.
6	Power System Lab	1) Thick insulating mats are placed near laboratory workbenches where experiments are conducted 2) Before the commencement of every experiment, all students are examined about their knowledge in the procedure /precautions to be followed while doing the experiment 3) Students are instructed to switch on the main supply only after getting the circuit connections checked by a faculty/staff and to switch off the supply immediately on completion of experiment 4) Similarly, students are monitored to switch off the power while disconnecting or altering the circuit 5) An equipment issue register is maintained in the laboratory to record the issue and return of instruments and components
7	Systems and Control Lab	1) Proper equipment earthing is ensured, and students are instructed never to handle electrical components with wet hands. 2) Before the commencement of every experiment, students are examined regarding their knowledge of the procedure and precautions to be followed while performing the experiment. 3) Students are instructed to switch on the main supply only after the circuit connections are checked and approved by the faculty or laboratory staff 4) Similarly, students are monitored to switch off the power supply while disconnecting or altering the circuit 5) An equipment issue register is maintained in the laboratory to record the issue and return of instruments and components.

8	Software Lab	1) UPS and air conditioning systems are provided to improve system performance and ensure data and hardware reliability 2) Students are instructed to properly shut down the computers after use to prevent system errors and hardware damage 3) Unauthorized software installation or modification of system settings is not permitted 4) All electrical equipment is protected against over-voltages and short circuits using MCBs (Miniature Circuit Breakers) 5) An entry register is maintained in the laboratory to record the details of students and staff using the lab facilities 6) Students should not connect external storage devices without permission from the lab instructor to prevent virus infections
9	IT WORKSHOP	1) Proper equipment earthing is ensured, and students are instructed never to handle electrical components with wet hands. 2) Students are instructed to handle computer components such as motherboards, RAM, and hard disks with care, avoid dropping them or applying excessive force. 3) Students are instructed to properly shut down the computers and other devices after use to prevent system errors and hardware damage 4) Students are instructed to adhere to the prescribed dress code and strictly follow all workshop rules and instructor guidelines. 5) Students are instructed to maintain a clean workspace, refrain from bringing food or drinks, and ensure that all equipment is properly shut down and stored after use.
10	Microprocessor Lab	1) Ensure the use of regulated power supplies with appropriate voltage levels, and students are instructed to switch off the power before making or modifying connections. 2) Before the commencement of every experiment, all students are examined about their knowledge in the procedure /precautions to be followed while doing the experiment 3) Students are instructed to handle ICs and microcontrollers carefully and avoid touching pins directly 4) Ensure the use of authorized software tools and verify programs before execution to prevent hardware malfunction. 5) Ensure proper earthing and protection using fuses or MCBs and be aware of fire safety equipment.
11	Electrical Drives Lab	1) Provided thick mats near workbench in the laboratory where the terminals are exposed as part of experiment studies 2) Before the commencement of every experiment, all students are examined about their knowledge in the procedure /precautions to be followed while doing the experiment 3) Students are instructed to switch on the main supply only after getting the circuit connections checked by a faculty/staff and to switch off the supply immediately on completion of experiment 4) Similarly, students are monitored to switch off the power while disconnecting or altering the circuit 5) Equipment issue register is maintained in every lab.
12	Advanced Power Electronics Lab	1) Before the commencement of every experiment, all students are examined about their knowledge in the procedure /precautions to be followed while doing the experiment 2) Students are instructed to switch on the main supply only after getting the circuit connections checked by a faculty/staff and to switch off the supply immediately on completion of experiment 3) Students are instructed to properly shut down the computers after use to prevent system errors and hardware damage 4) Similarly, students are monitored to switch off the power while disconnecting or altering the circuit 5) Equipment issue register is maintained in every lab.

13	Electrical Machines Lab	1) Thick insulating mats are provided near the workbenches and machine panels 2) Before the commencement of every experiment, students are examined regarding their knowledge of the procedure and precautions to be followed while performing the experiment 3) Students are instructed to switch on the main supply only after the circuit connections are checked and approved by the faculty or laboratory staff, and to switch off the supply immediately after completing the experiment 4) Students are strictly monitored to turn off the power supply before disconnecting or altering any circuit connections 5) MCBs and fuse protection are provided to protect machines from overloads and short circuits 6) An equipment issue register is maintained in the laboratory to record the issue and return of instruments and accessories.
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D3. Project Laboratory/Research Laboratory

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PART E: First Year faculty and financial Resources

(Data to be filled in for the first year course faculty and budget allocation and utilization)

E1. First Year Student-Faculty Ratio (FYSFR)

Table No. E1.1: FYSFR details.

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members $((NS1*0.8) + (NS2*0.2))/(No. of required faculty (RF4))$; Percentage= $((NS1*0.8) + (NS2*0.2))/RF$
2023-24(CAYm2)	330	16	14	2	72
2024-25(CAYm1)	330	16	14	2	72
2025-26(CAY)	330	16	14	2	72

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	531936	531936	176855	176855	4934608	4934608	926098	926098

Library	0	0	8968	8968	622106	622106	818656	818656
Laboratory equipment	6440368	6440368	0	0	14957	14957	73401	73401
Teaching and non-teaching staff salary	309203474	309203474	276399291	276399291	261305631	261305631	291213769	291213769
Outreach Programs	0	0	309600	309600	300000	300000	360000	360000
R&D	768598	768598	3965030	3965030	4106047	4106047	1007434	1007434
Training, Placement and Industry linkage	0	0	393933	393933	66368	66368	235216	235216
SDGs	152139	152139	1330605	1330605	347706	347706	945862	945862
Entrepreneurship	0	0	75594	75594	0	0	14000	14000
Others, specify	5763502	5763502	471510	471510	5085141	5085141	2167949	2167949
Total	322860017	322860017	283131386	283131386	276782564	276782564	297762385	297762385

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	1018650	1018650	1541711	1541711	544721	544721	177938	177938
Software	407407	407407	407407	407407	407407	407407	0	0
SDGs	0	0	0	0	0	0	0	0
Support for faculty development	68700	68700	0	0	0	0	0	0
R & D	203800	203800	55279	55279	0	0	72000	72000

Industrial Training, Industry expert,  	0	0	4534	4534	0	0	2400	2400
Miscellaneous Expenses*  	90150	90150	0	0	160366	160366	254962	254962
Total	1788707	1788707	2008931	2008931	1112494	1112494	507300	507300