NATIONAL BOARD OF ACCREDITATION

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

Program Name : Electronics & Communication Engineering	**Discipline**: Engineering & Technology
Level : Under Graduate	**Tier**: 2
Application No: 11555	**Date of Submission**: 07-02-2026

PART A- Profile of the Institute

A1.Name of the Institute: IES COLLEGE OF ENGINEERING	
Year of Establishment : 2003	Location of the Institute: Poovathur Parappoor Road Thrissur District Chitilappilly Kerala 680551
A2. Institute Address:IES COLLEGE OF ENGINEERING P.O. CHITTILAPPILLY THRISSUR 680551	
City:Trichur	State:Kerala
Pin Code:680551	Website:iesce.info
Email:mail@iesce.info	Phone No(with STD Code):0487-2309966
A3. Name and Address of the Affiliating University (if any):	
Name of the University : APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	City: Trichur
State : Kerala	Pin Code: 695016
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: **7**
- No. of PG programs: **3**

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	2003	--	Civil Engineering
2	Engineering & Technology	UG	Computer Science and Engineering	2003	--	Computer Science and Engineering
3	Engineering & Technology	PG	Computer Science and Engineering	2016	2025	Computer Science and Engineering
4	Engineering & Technology	UG	Computer Science and Engineering (Data Science)	2023	--	Computer Science and Engineering (Data Science)
5	Engineering & Technology	UG	Electrical & Electronics Engineering	2007	--	Electrical and Electronics Engineering
6	Engineering & Technology	UG	ELECTRONICS AND COMMUNICATION ENGINEERING	2003	--	Electronics and Communication Engineering
7	Engineering & Technology	PG	Geotechnical Engineering	2010	2025	Civil Engineering
8	Engineering & Technology	UG	Mechanical Engineering	2007	--	Mechanical Engineering
9	Engineering & Technology	UG	Robotics and Artificial Intelligence	2023	--	Robotics and Artificial Intelligence
10	Engineering & Technology	PG	VLSI Design	2015	2025	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.

No Record

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 :	Ms. RACHANA M K
B. Nature of appointment:	Regular
C. Qualification:	M.E.

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	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	30	30	37	60	20	33	32
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	0	0	0	0	0
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	2	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.	32	30	37	60	20	33	32

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	30	2	106.67
2024-25 (CAYm1)	30	30	0	100.00
2023-24 (CAYm2)	60	37	0	61.67

Average [(ER1 + ER2 + ER3) / 3] = 89.45≡ 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).	18.00	31.00	32.00
B=No. of students who graduated from the program in the stipulated course duration	9.00	20.00	21.00
Success Rate (SR)= (B/A) * 100	50.00	64.52	65.62

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 60.05

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)	7.37	6.76	7.21

Y=Total no. of successful students	4.00	14.00	28.00
Z=Total no. of students appeared in the examination	30.00	37.00	60.00
API [X*(Y/Z)]	0.98	2.56	3.36

Average API[(AP1+AP2+AP3)/3] : 2.30

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)	6.82	7.00	6.52
Y=Total no. of successful students	7.00	16.00	9.00
Z=Total no. of students appeared in the examination	14.00	28.00	11.00
API [X * (Y/Z)]	3.41	4.00	5.33

Average API [(AP1 + AP2 + AP3)/3] : 4.25

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)	6.94	6.68	7.52
Y=Total no. of successful students	13.00	9.00	20.00
Z=Total no. of students appeared in the examination	16.00	9.00	24.00
API [X*(Y/Z)]:	5.64	6.68	6.27

Average API [(AP1 + AP2 + AP3)/3] : 6.20

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	9.00	20.00	26.00
X=No. of students placed	7.00	13.00	24.00
Y=No. of students admitted to higher studies	1.00	4.00	0.00
Z= No. of students taking up entrepreneurship	1.00	3.00	2.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	100.00	100.00	100.00

Average Placement Index = (P_1 + P_2 + P_3)/3: 100.00 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)	Cur Ass (Y/N
1	Dr. P V N REDDY	XXXXXXX09F	M.Tech and Ph.D.	Jawaharlal nehru technological university kakinada	Digital Image Processing	12/05/2023	2.8	Professor	Professor	12/05/2023	Regular	Yes
2	Dr. SENTHIL SINGH C	XXXXXXX67P	M.E. and Ph.D.	Anna University	Information and Communication Engineering	14/06/2016	9.2	Associate Professor	Professor	05/06/2023	Regular	No
3	Dr. LINCE MATHEW	XXXXXXX59L	M.Tech and Ph.D.	Jodhpur National University	Light Fidelity	01/07/2017	8	Associate Professor	Associate Professor	01/07/2017	Regular	No

4	Dr. ROSI A	XXXXXXX48J	M.E. and Ph.D.	Anna University	Information and Communication Engineering	01/05/2020	5.9	Associate Professor	Associate Professor	01/05/2020	Regular	Yes
5	Ms. RACHANA M K	XXXXXXX63G	M.E.	Anna University	VLSI Design	07/11/2007	18	Lecturer	Associate Professor	09/05/2023	Regular	Yes
6	Ms. LINU BABU P	XXXXXXX67D	M.Tech	Calicut university	Applied Electronics and Communication Systems	03/10/2007	18.4	Lecturer	Associate Professor	10/04/2024	Regular	Yes
7	Ms. SINDHU T V	XXXXXXX25C	M.E.	Anna University	VLSI Design	17/08/2011	14.5	Assistant Professor	Assistant Professor		Regular	Yes
8	MR. AJEESH S	XXXXXXX87B	M.Tech	Kerala University	Applied Electronics and Instrumentation	10/10/2011	11.10	Assistant Professor	Assistant Professor		Regular	No
9	Ms. SHAHAZIYA PARVEZ M	XXXXXXX89G	M.Tech	Mahatma Gandhi University	Communication Systems	05/09/2012	13.5	Lecturer	Assistant Professor		Regular	Yes
10	Ms. BENCY VARGHESE A	XXXXXXX98H	M.Tech	Cochin University of Science and Technology	VLSI and Embedded Systems	23/06/2014	11.7	Assistant Professor	Assistant Professor		Regular	Yes
11	Ms. SUVITHA P S	XXXXXXX39B	M.Tech	Calicut university	VLSI Design	01/06/2016	9.8	Assistant Professor	Assistant Professor		Regular	Yes
12	Ms. ANJALI RAJAN	XXXXXXX44N	M.Tech	Kerala Technical University (KTU)	Applied Electronics and Communication Systems	01/02/2019	7	Assistant Professor	Assistant Professor		Regular	Yes
13	MS. SOWMYA P C	XXXXXXX81H	M.Tech	Kerala Technical University (KTU)	VLSI Design	01/09/2022	3.5	Assistant Professor	Assistant Professor		Regular	Yes
14	Ms. ANITTA ANTONY	XXXXXXX09E	M.Tech	Kerala Technical University (KTU)	Signal Processing	27/02/2023	0.1	Assistant Professor	Assistant Professor		Regular	No
15	Mr. VIPIN T V	XXXXXXX71C	M.Tech	Kerala Technical University (KTU)	Embedded Systems	02/06/2025	0.8	Lecturer	Assistant Professor		Regular	Yes

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	30	60	60

Description	CAY(2025-26)	CAYm1 (2024-25)	CAYm2 (2023-24)
UG1.C	60	60	60
UG1.D	60	60	60
UG1: ELECTRONICS AND COMMUNICATION ENGINEERING	**150**	**180**	**180**
PG1.A	0	18	18
PG1.B	18	18	18
PG1: VLSI Design	**18**	**36**	**36**
DS=Total no. of students in all UG and PG programs in the Department	168	216	216
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=** 168	**S2=** 216	**S3=** 216
DF=Total no. of faculty members in the Department	11	12	12
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=** 11	**F2=** 12	**F3=** 12
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	1
Student Faculty Ratio (SFR)=S/(F-FF)	**SFR1= 16.80**	**SFR2= 19.64**	**SFR3= 19.64**
Average SFR for 3 years	**SFR= 18.69**		

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 x [(10X + 4Y) / RF)]
2025-26(CAY)	2	9	8.00	17.50
2024-25(CAYm1)	4	8	10.00	18.00
2023-24(CAYm2)	4	8	10.00	18.00

C4. Faculty Cadre Proportion

- Faculty Cadre Proportion is 1(RF1): 2(RF2): 6(RF3)
- RF1= No. of Professors required = 1/9 * 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	1.00	1.00	1.00	5.00	9.00
2024-25	1.00	2.00	2.00	2.00	7.00	8.00
2023-24	1.00	2.00	2.00	2.00	7.00	8.00
Average	RF1=1.00	AF1=1.67	RF2=1.67	AF2=1.67	RF2=6.33	AF2=8.33

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	Mr. Kathiru Santhikumar	CEO	Thinkfotech, Kannur	Electronic Product Design	58.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Dr. Nitha K P	Professor(Visiting)	Sreepathy Institute of Management and Technology, Palakkad	Cyber Security	58.00
2	Mr. Kathiru Santhikumar	CEO	Thinkfotech, Kannur	Embedded Systems	60.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Ms. Divya Das	Project Engineer	C-DAC STDC, Kochi	Foundations of Cryptography	57.00

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	27	25	24
2	No. of peer reviewed conference papers published	10	8	7
3	No. of books/book chapters published	0	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
Ms.Rachana M.K	Ms.Bency Varghese A	MSME	Lifeguard X-The Future of Water Rescue	A ICTE	1 Year	15.00
Ms.Bency Varghese A	Ms.Anjali Rajan	CERD	Smart Ambulance Alerting Drone	APJKTU	6 Months	0.15
						Amount received (Rs.):15.15

(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. S Brilly Sangeetha	Ms.Shahazia Parvez M	MSME	Energy Production optimization by block chain based positioning of solar panels	AICTE	1 Year	15.00
						Amount received (Rs.):15.00

(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
nil	nil	nil	nil	nil	nil	0.00
						Amount received (Rs.):0.00

Total Amount (Lacs) Received for the Past 3 Years: 30.15

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
Ms.Rachana M.K	Ms.Sindhu T.V	Sethu Seetharam Public School,Elathur,Kozhikkode	Humanoid Robot	Director,Sethuseetharam School,Elathoor , Kozhikode	8 Months	1.00
Ms.Linu Babu P	Ms.Sindhu T.V	IES Public School ,Chittilappilly	ATAL Tinkering Lab	IES Management	1 Year	1.00
						Amount received (Rs.):2.00

(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
Ms.Bency Varghese A	Ms. Suvitha P.S	First Law,Thrissur	RC Hydro Sopper	Proprietor,First Law	9 Months	3.00
Ms. Sindhu T.V	Ms.Sowmya P.C	Hertzo Automotive, Thrissur	Pothole Detection and Levelling Vehicle	CEO,Hertzo Automotive,Thrissur	8 Months	3.50
						Amount received (Rs.):6.50

(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
Ms.Sindhu T.V	Ms.Soumya P C	Fab Studioz software,Thrissur	Plant disease detection using Double GAN	Director,Fab Studio Software,Thrissur	6 Months	1.50
Ms.Bency Varghese A	Ms.Anjali Rajan	IES Public School,Chittilappilly	Napkin vending machine	IES Education Society	4 Months	0.60
Mr.Ajeesh .S	Ms.Shehazia Parvez M	Thinkfotech Innovation PVT.Ltd Kannur	Physiotherapy Robot	CEO,Thinkfotech Innovation ,Kannur	6 Months	2.00
Ms.Linu Babu P	Ms. Suvitha P S	Thinkfotech Innovation PVT.Ltd ,Kannur	Old Age People Assistance	CEO,Thinkfotech Innovation , Thrissur	4 Month	1.50
Ms.Rachana M.K	Ms. Linu Babu P	IES Public School,Chittilappilly	Automatic speaking Sanitizer	IES Education Society	2Months	0.25
Mr.Ajeesh S	Ms. Sindhu T V	Sivadam Kudumbashree Unit Muvattupuzha	Bio floc monitoring System	Kudumbashree Unit Fish Farming Section	3Months	1.00
Ms.Sowmya P C	Ms.Anjali Rajan	Pride Kitchen Caters & Events, Thrissur	Easy Idiyappam Maker	Proprietor- Home Based food processing Unit	1 Months	0.02
						Amount received (Rs.):6.87

Total amount (Lacs) received for the past 3 years: 15.37

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
Ms.Rachana M.K	evelopment of Humanoid Robotic Teacher/Bamboo Lab 3D Printer .	1 Year	1.00	1.00	Developed a Humanoid Robot with 3D Printed Body Parts.
Ms.Rachana M.K	rror Detection and Correction of Nano network using QCA	3 Year	0.30	0.30	Students learned concepts of nano networks and error detection techniques. They developed project skills in Nano electronics.
Ms.Linu Babu P	Gastro Intestinal Tract Disease Detection on Wireless Capsule Endoscopy Images	3 Year	0.30	0.30	Students able to design disease detection algorithms,Enhanced skills in MATLAB/Python based image analysis.
Ms.Sindhu T V	An Improved Technique for Burst Error Correction Code with Parallel Decoding	3 Year	0.30	0.30	Helped final year students to do projects inECC & parallel decoding techniques used in modern communication systems.
Ms.Suvitha P S	Convolutional Neural Network Hardware Acceleration Through ACMA	3 Year	0.30	0.30	Developed skills in AI hardware based projects and also understood approximate computing for low power design.
			Amount received (Rs.): 2.20		

(CAYm2)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Ms.Rachana M K	Error Detection and Correction of Nano network using QCA	3 Year	0.30	0.30	Students developed project skills in nano electronics which is useful for their final year projects
Ms.Linu Babu P	Gastro Intestinal Tract Disease Detection on Wireless Capsule Endoscopy Images	3 Year	0.30	0.30	Students able to design disease detection algorithms,Enhanced skills in Python based image analysis.
Ms.Sindhu T.V	An Improved Technique for Burst Error Correction Code with Parallel Decoding	3 Year	0.30	0.30	Helped final year students to do projects inECC & parallel decoding techniques used in modern communication systems.
Ms. Suvitha P S	Convolutional Neural Network Hardware Acceleration Through ACMA	3 Year	0.30	0.30	Students developed skills in AI hardware based projects and also understood approximate computing for low power design.
Ms.Bency Varghese A	Domestic PCB Milling Machine	1Year	0.55	0.52	Students able to design and fabricate PCB Prototypes, Industry relevant skills
			Amount received (Rs.): 1.75		

(CAYm3)

Faculty name	Project title/ Support for Activity	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25	Amount Utilized(Lacs) i.e. 15,25,000=15.25	Outcomes of the project
Ms.Rachana M K	Error Detection and Correction of Nano network using QCA	3Year	0.30	0.30	Students learned concepts of nano networks and error detection techniques. They developed project skills in nano electronics
Ms.Linu Babu P	Gastro Intestinal Tract Disease Detection on Wireless Capsule Endoscopy Images	3Year	0.30	0.30	Students able to design disease detection algorithms,Enhanced skills in Python based image analysis.
Ms.Sindhu T.V	n Improved Technique for Burst Error Correction Code with Parallel Decoding	3Year	0.30	0.30	Helped students for their final year projects in error control coding/ parallel decoding techniques used in modern communication systems.
Ms. Linu Babu P	Optical Splicing Machine	6 Months	1.60	1.40	Hands on Training Optical Splicing and Improving practical learning
			Amount received (Rs.): 2.50		

Total amount (Lacs) received for the past 3 years : 6.45

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	Microcontroller Laboratory	30	1.Microprocessor Trainer Kit (8086) 2.80196 Evaluation Kit 3. 8051 Microcontroller Trainer Kit 4.	18 hr/ week	Ms.Aswathy K	Laboratory In	B.Tech -Elect
2	Analog Integrated Circuit and Simulation lab	30	1.DSP Kit VSK6748 2. Data Formatting and Carrier Modulation Receiver Trainer Kit 3. Generation	24hr/week	Mr.Firoz Shaf	Laboratory In	Diploma- Elec
3	Logic design Laboratory	30	1.CRO 2. Function Generator 3.Digital Trainer Kit 4. Decade Inductance Box	12 hr/ week	Ms.Kavitha K	Laboratory In	Diploma - Ele
4	VLSI Laboratory	30	1.Personal Computer 2.Spartan 3E Starter Kit 3. Vivado FPGA Kit	24 hr/ week	Mr.Firoz Shaf	Laboratory In	Diploma - Ele
5	Electro Magnetics Laboratory	30	1.Advanced Fiber Trainer Kit Dual Channel 2. Microwave Test Bench - Radiation Pattern 3.Gunn Oscillator	12 hr/ week	Ms.Kavitha K	Laboratory In	Diploma - Ele
6	Electronics Circuits Laboratory	30	1.CRO 2. Function Generator 3.LCR Meter 4. Decade Capacitance Box 6 Disk 5. Decade	24 hr/ week	Ms.Aswathy K	Laboratory In	B.Tech Elect

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Microcontroller Laboratory	The laboratory is equipped with a fire extinguisher for emergency fire handling and an automatic cut-off MCB system to prevent electrical overloads and short circuits. Uninterrupted Power Supply (UPS) support is provided to ensure continuous operation of systems during power fluctuations or outages. Regular data backup mechanisms are maintained to safeguard important academic and research data. A first aid box is readily available to handle minor medical emergencies. Firewall protection is enabled to ensure cybersecurity and prevent unauthorized access. Proper electrical earthing is maintained to avoid electrical hazards, and 24-hour power supply is ensured for uninterrupted laboratory functioning. Do's and Don'ts and Safety measures rules are displayed in each laboratory. Do's 1.Students are required to wear appropriate uniforms and ID cards at all times. 2.Know the location of the fire extinguisher and the first aid box and how to use them in case of an emergency. 3. Report fires or accidents to Faculty in-charges/ laboratory instructor immediately. 4.Report any broken plugs or exposed electrical wires immediately to the faculty in charge/laboratory instructor. Don'ts 1. Do not eat or drink in the laboratory. 2. Avoid stepping on electrical wires or any other computer cables. 3. Do not open the system unit casings or monitor casing particularly when the power is turned on. 4. Do not insert metal objects such as clips, pins and needles into the computer casings. 5. Do not touch, connect or disconnect any plug or cable without faculty in charge / laboratory instructor's permission. 6. Do not plug in external devices without scanning them for computer viruses. 7.The lab has a "strict discipline" policy—avoid loud talking, moving between tables unnecessarily, or mishandling the embedded kits.

2	Analog Integrated Circuits and Simulation Laboratory	The laboratory is equipped with a fire extinguisher for emergency fire handling and an automatic cut-off MCB system to prevent electrical overloads and short circuits. Uninterrupted Power Supply (UPS) support is provided to ensure continuous operation of systems during power fluctuations or outages. Regular data backup mechanisms are maintained to safeguard important academic and research data. A first aid box is readily available to handle minor medical emergencies. Firewall protection is enabled to ensure cybersecurity and prevent unauthorized access. Proper electrical earthing is maintained to avoid electrical hazards, and 24-hour power supply is ensured for uninterrupted laboratory functioning. Do's and Don'ts and Safety measures rules are displayed in each laboratory. Do's 1.Students must wear uniform, shoes and ID card at all times. Failure to comply with this dress code will result in being denied entry to the laboratory 2. Know the location of the fire extinguisher and the first aid box and how to use them in case of an emergency. 3. Report fires or accidents to faculty in charges / laboratory instructor immediately. 4. Report any broken plugs or exposed electrical wires immediately to the faculty in charge/laboratory instructor. Don'ts 1. Do not eat or drink in the laboratory. 2. Avoid stepping on electrical wires or any other computer cables. 3. Do not open the system unit casing or monitor casing particularly when the power is turned on. 4. Do not insert metal objects such as clips, pins and needles into the computer casings. 5.Do not touch, connect or disconnect any plug or cable without faculty in charge / laboratory instructor's permission. 6. Do not plug in external devices without scanning them for computer viruses. 7.The lab has a "strict discipline" policy—avoid loud talking, moving between tables unnecessarily, or mishandling the communication kits.
3	Logic design Laboratory	The laboratory is equipped with a fire extinguisher for emergency fire handling and an automatic cut-off MCB system to prevent electrical overloads and short circuits. Uninterrupted Power Supply (UPS) support is provided to ensure continuous operation of systems during power fluctuations or outages. A first aid box is readily available to handle minor medical emergencies. Proper electrical earthing is maintained to avoid electrical hazards. Do's and Don'ts and Safety measures rules are displayed in each laboratory. Do's 1.Students must wear uniform, shoes and ID card at all times. Failure to comply with this dress code will result in being denied entry to the laboratory. 2. Know the location of the fire extinguisher and the first aid box and how to use them in case of an emergency. 3. Report fires or accidents to faculty in charge/ laboratory instructor immediately. 4. Report any broken plugs or exposed electrical wires immediately to the faculty in charge/laboratory instructor. Don'ts 1. Do not eat or drink in the laboratory. 2. Do not open the system unit casing or monitor casing particularly when the power is turned on. 3. Do not touch, connect or disconnect any plug or cable without faculty in charge / laboratory instructor's permission. 4.The lab has a "strict discipline" policy—avoid loud talking, moving between tables unnecessarily, or mishandling the logic trainer kits.
4	VLSI Laboratory	The laboratory is equipped with a fire extinguisher for emergency fire handling and an automatic cut-off MCB system to prevent electrical overloads and short circuits. Uninterrupted Power Supply (UPS) support is provided to ensure continuous operation of systems during power fluctuations or outages. Regular data backup mechanisms are maintained to safeguard important academic and research data. A first aid box is readily available to handle minor medical emergencies. Firewall protection is enabled to ensure cybersecurity and prevent unauthorized access. Proper electrical earthing is maintained to avoid electrical hazards, and 24-hour power supply is ensured for uninterrupted laboratory functioning. Do's and Don'ts and Safety measures rules are displayed in each laboratory. Do's 1.Students are required to wear appropriate uniforms and ID cards at all times. 2. Know the location of the fire extinguisher and the first aid box and how to use them in case of an emergency. 3. Report fires or accidents to faculty in charge/ laboratory instructor immediately. 4. Report any broken plugs or exposed electrical wires immediately to the faculty in charge/laboratory instructor. Don'ts 1. Do not eat or drink in the laboratory. 2. Avoid stepping on electrical wires or any other computer cables. 3. Do not open the system unit casing or monitor casing particularly when the power is turned on. 4. Do not insert metal objects such as clips, pins and needles into the computer casings. 5. Do not touch, connect or disconnect any plug or cable without faculty in charge / laboratory instructor's permission. 6. Do not plug in external devices without scanning them for computer viruses. 7.The lab has a "strict discipline" policy—avoid loud talking, moving between tables unnecessarily, or mishandling the FPGA kits.

| 5 | Electro Magnetics Laboratory | The laboratory is equipped with a fire extinguisher for emergency fire handling and an automatic cut-off MCB system to prevent electrical overloads and short circuits. Proper electrical earthing is maintained to avoid electrical hazards. Do's and Don'ts and Safety measures rules are displayed in each laboratory. Do's 1.Students must wear uniform, shoes and ID card at all times. Failure to comply with this dress code will result in being denied entry to the laboratory. 2. Know the location of the fire extinguisher and the first aid box and how to use them in case of an emergency. 3. Report fires or accidents to the faculty in charge/ laboratories instructor immediately. 4. Report any broken plugs or exposed electrical wires immediately to the faculty in charge/laboratory instructor. Don'ts 1. Do not eat or drink in the laboratory. 2. Do not insert metal objects such as clips, pins and needles into the equipment. 3. Do not touch, connect or disconnect any plug or cable without faculty in charge / laboratory instructor's permission. 4.The lab has a "strict discipline" policy—avoid loud talking, moving between tables unnecessarily, or mishandling the instruments. |
| 6 | Electronics Circuits Laboratory | The laboratory is equipped with a fire extinguisher for emergency fire handling and an automatic cut-off MCB system to prevent electrical overloads and short circuits. Uninterrupted Power Supply (UPS) support is provided to ensure continuous operation of systems during power fluctuations or outages. A first aid box is readily available to handle minor medical emergencies. Proper electrical earthing is maintained to avoid electrical hazards. Do's and Don'ts and Safety measures rules are displayed in each laboratory. Do's 1.Students must wear uniform, laboratory coat, shoes and ID card at all times. Failure to comply with this dress code will result in being denied entry to the laboratory. 2. Know the location of the fire extinguisher and the first aid box and how to use them in case of an emergency. 3. Report fires or accidents to the faculty in charge/ laboratories instructor immediately. 4. Report any broken plugs or exposed electrical wires immediately to the faculty in charge/laboratory instructor. 5.Use the correct tools for soldering. Always use a stand for the soldering iron and check that equipment is not damaged. Don'ts 1. Do not eat or drink in the laboratory. 2. Avoid stepping on electrical wires or any other cables. 3. Do not open the system unit casing or monitor casing particularly when the power is turned on. 5. Do not touch, connect or disconnect any plug or cable without faculty in charge / laboratory instructor's permission. 6.The lab has a "strict discipline" policy—avoid loud talking, moving between tables unnecessarily, or mishandling the equipment. |

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)	360	18	12	11	66
2024-25(CAYm1)	270	14	12	16	91
2025-26(CAY)	270	14	13	14	94

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	3500000	0	900000	856338	700000	585290	1500000	1346106
Library	300000	0	15000	13263	350000	303215	210000	213100

Laboratory equipment	125000	0	1200000	1187968	1200000	1140804	1600000	1484546
Teaching and non-teaching staff	35000000	0	30000000	29589840	29000000	27858519	29100000	29172202
Outreach Programs	50000	0	30000	27500	30000	27500	55000	36400
R&D	100000	0	50000	46500	400000	365000	120000	112500
Training, Placement and	100000	0	140000	59754	300000	281000	2935000	2819485
SDGs	150000	0	35000	30000	310000	300000	10000	0
Entrepreneurship	35000	0	35000	33924	23000	22101	150000	112500
Staff welfare fund, Student welfare,	10900000	0	9720000	9418347	13680000	12930595.87	13150000	13156838
Total	**50260000**	**0**	**42125000**	**41263434**	**45993000**	**43814024.87**	**48830000**	**48453677**

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	370000	0	400000	309000	488200	343500	50000	8540
Software	0	0	0	0	0	0	0	0
SDGs	0	0	10000	9850	0	0	0	0
Support for faculty development	300000	0	300000	220500	300000	259000	300000	230200
R & D	100000	0	100000	49250	10000	80500	50000	30100
Industrial Training, Industry expert,	30000	0	30000	28500	88000	68200	150000	120750
Miscellaneous Expenses*	100000	0	100000	98250	50000	21500	100000	83500
Total	**900000**	**0**	**940000**	**715350**	**936200**	**772700**	**650000**	**473090**