

NATIONAL BOARD OF ACCREDITATION

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

PART-A: Profile of the Institute

Name of the Program Applied for : Electronics and Communication Engineering

A1: Name of the Institute :- Federal Institute of Science and Technology (FISAT)

Year of Establishment : 2002

Location of the Institute : Mookkannoor P.O., Angamaly.

A2: Institute Address :

City : Ernakulam

State : Kerala

Pincode : 683577

Website : www.fisat.ac.in

Email : mail@fisat.ac.in

Phone number : 0484 2725272
(with STD code)

A3: Name and Address of the Affiliating University (If any): -

Name of the University : APJ Abdul Kalam Technological University (APJKTU)

City : Thiruvananthapuram

State : Kerala Pin Code: 695016

A4: Type of the Institution: - (Tick the applicable choice)

Institute of National Importance ☐

Deemed University ☐

University ☐

Autonomous ☐

Non-Autonomous (Affiliated) ☒

Any other (Please specify) * ☐

***Provide Details:** _____

A5: Ownership Status: - (Tick the applicable choice)

Central Government ☐

State Government ☐

Government Aided ☐

Self-financing ☒

Any Other (Please specify) * ***Provide Details:** _____

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

❖ No. of UG programs: 7

❖ No. of PG programs: 12

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

S.N.	Level of program (UG/PG)	Name of the program	Year of Start	Year of close*	Name of the Department
1	UG	Civil Engineering	2011	–	Civil Engineering
2	UG	Computer Science and Engineering	2002	–	Computer Science and Engineering
3	UG	Computer Science and Design	2021	–	Computer Science and Engineering
4	UG	Electronics & Communication Engineering	2002	–	Electronics & Communication Engineering
5	UG	Electrical & Instrumentation Engineering	2002	–	Electronics & Instrumentation Engineering
6	UG	Electrical & Electronics Engineering	2002	–	Electrical & Electronics engineering
7	UG	Mechanical Engineering	2009	–	Mechanical Engineering
8	PG	Structural Engineering & Construction Management	2014	–	Civil Engineering
9	PG	Artificial Intelligence and Data Science	2021	–	Computer Science and Engineering
10	PG	Computer Science and Information System	2010	2022	Computer Science and Engineering
11	PG	Communication Engineering	2010	2021	Electronics & Communication Engineering
12	PG	Automotive Engineering	2021	2022	Electronics & Communication Engineering
13	PG	VLSI & Embedded Systems	2014	–	Electronics & Communication Engineering
14	PG	Power Electronics & Power System	2011	–	Electrical & Electronics engineering
15	PG	Computer & Integrated Manufacturing	2013	2022	Mechanical Engineering

16	PG	Renewable Energy	2021	–	Mechanical Engineering
17	PG	Master of Computer Application	2006	–	Computer Application
18	PG	Master of Computer Applications (Integrated)	2025	–	Computer Application
19	PG	Master of 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.

Cluster ID.	Name of the Department	Name of the Program
1	Computer Science and Engineering	B.Tech (Computer Science and Engineering)
2	Electronics and Communication Engineering	B.Tech (Electronics and Communication Engineering)
3	Electrical and Electronics Engineering	B.Tech (Electrical and Electronics Engineering)
4	Electronics and Instrumentation Engineering	B.Tech (Electronics and Instrumentation Engineering)
5	Mechanical Engineering	B.Tech (Mechanical Engineering)

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)
1	NA	NA

NATIONAL BOARD OF ACCREDITATION

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

PART-B: Program information

(Data to be filled in for the program applied for Accreditation)

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

Table No. B1: Program details.

S. N.	Program Name	Year of start	Sanctioned Intake	Increase/decrease in intake, if any	Year of increase/decrease	AICTE Approval Details	Accreditation Status*	No. of times program accredited
	B.Tech in Electronics and Communication Engineering	2002	120	60 to 120	2006	F.No. South-West/1 - 4464018803 9/ 2025/EOA Dated 05-04 2025	Granted accreditation for 3 years for 2020 - 2023, and 2023 - 2026 June	2

* Write applicable one:

- ❖ Applying first time
- ❖ Granted accreditation for 2/3 years for the period (specify period)
- ❖ Granted accreditation for 5/6 years for the period (specify period)
- ❖ Not accredited (specify visit dates, year).
- ❖ Withdrawn (specify visit dates, year)
- ❖ Not eligible for accreditation.

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

A. Name of the HoD : Dr. Bejoy Varghese

B. Nature of appointment: (Tick the applicable choice)

❖ Regular ☒

❖ Contract

❖ Ad hoc

C. Qualification: (Tick the applicable choice)

❖ Ph.D. ☒

❖ ME/M.Tech

❖ Any other*

**Please provide details: _____*

B3: Program Details**Table No.B3.1:** Admission details for the program excluding those admitted through multiple entry and exit points.

Item (Information is to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY	CAYm1	CAYm2	CAYm3	CAYm4 (LYG)	CAYm5 (LYGm1)	CAYm6 (LYGm2)
N= Sanctioned intake of the program (as per AICTE /Competent authority)	120	120	120	120	120	120	120
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	118	120	116	115	120	108	116
N2= Number of students admitted in 2 nd year in the same batch via lateral entry including leftover seats	0	0	4	0	0	0	0
N3= Separate division if any	0	0	0	0	0	0	0
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas	30	28	11	10	5	6	5
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	148	148	131	125	125	114	121

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.

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1, and CAYm2))	CAY	CAYm1	CAYm2
N= Sanctioned intake of the program in the 1 st year (as per AICTE/Competent authority)	120	120	120
N1= Total no. of students admitted in the 1 st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	118	120	116
N4= Total no. of students admitted in the 1 st year via all supernumerary quotas	30	28	11
Enrolment Ratio (ER)= (N1+N4)/N	1.23	1.23	1.06
Average ER= (ER_1+ ER_2+ ER_3)/3	1.18		

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	LYG	LYGm1	LYGm2
A*= (No. of students admitted in the 1 st year of that batch and those actually admitted in the 2 nd 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).	125	114	121
B=No. of students who graduated from the program in the stipulated course duration	94	84	87
Success Rate (SR)= (B/A)*100	75.2	73.68	71.90
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	73.60		

Note *: If the value of A in Table No. B5.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of A in Table No.B5.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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	CAYm2	CAYm3
X= (Mean of 1 st 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 1 st year/10)	8.05	7.61	7.68
Y= Total no. of successful students	105	105	112
Z = Total no. of students appeared in the examination	148	131	125
API = X* (Y/Z)	5.71	6.10	6.88
Average API = (API_1 + API_2 + API_3)/3	6.23		

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	CAYm2	CAYm3
X= (Mean of 2 nd 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 2 rd year/10)	7.67	7.68	7.61
Y= Total no. of successful students	85	97	102
Z =Total no. of students appeared in the examination	105	112	112
API = X* (Y/Z)	6.21	6.65	6.93
Average API = (API_1 + API_2 + API_3)/3	6.60		

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	CAYm2	CAYm3
X= (Mean of 3 rd 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 3 rd year/10)	7.59	7.56	7.80
Y= Total no. of successful students	87	95	85
Z= Total no. of students appeared in the examination	97	102	87
API = X* (Y/Z)	6.81	7.04	7.62
Average API = (API_1 + API_2 + API_3)/3	7.16		

B9: Placement, Higher Studies, and Entrepreneurship**Table No.B9.1:** Placement, higher studies, and entrepreneurship details.

Item	LYG	LYGm1	LYGm2
FS*=Total no. of final year students	122	120	120
X= No. of students placed	38	44	72
Y= No. of students admitted to higher studies	4	9	9
Z= No. of students taking up entrepreneurship	0	0	0
X + Y + Z =	42	53	81
Placement Index (P) = (((X + Y + Z)/FS) * 100)	34.42	44.17	67.5
Average placement index = (P_1 + P_2 + P_3)/3	48.69		

Note *: If the value of FS in Table No. B9.1 is less than the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2), then the value of FS in Table No. B9.1 should be the sum of the sanctioned intake (N) and the lateral entry including leftover seats (N2) of Table No.B3.1.

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

Faculty details (CAY 2025 - 2026)

S.N	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at the Time Joining this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor, if any	Nature of Association (Regular/ Contract/ Adhoc)	If contractual mention (Full time/Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is “No”)
1	Dr. Jacob Thomas V	PhD	IIT, Madras	Biomedical	01/01/2024	1.10 Years	Professor	Professor, Principal	01/01/2024	Regular		Yes	
2	Dr. Mini P R	PhD	CUSAT	Digital Beamforming	02/09/2002	22.5 Years	Lecturer	Professor, Vice Principal	01/06/2018	Regular		Yes	
3	Dr. Bejoy Varghese	PhD	MG university, Kottayam	Image compression	18/06/2008	17 Years	Lecturer	Associate Professor & HoD	02/06/2025	Regular		Yes	
4	Dr. Krishna Kumar S	PhD	IIT Kharagpur	Digital VLSI Testing	29/07/2013	11 Years	Professor	Professor	29/07/2013	Regular		No	30/06/2026

5	Dr. Anil Kumar M N	PhD	University of Mysore	Cryptography	16/08/2010	14.5 Years	Assistant Professor	Professor	01/07/2019	Regular		Yes	
6	Ambili A R	M. Tech	IITM	Control and Instrumentation	01/02/2006	19 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
7	Deepa N R	M. Tech	M.G. University, Kottayam	VLSI and Embedded System	01/09/2006	18 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
8	Pearlsy P V	M. Tech	NIT, Calicut	Signal Processing	12/04/2007	17 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
9	Nimmy M Philip	M. Tech	M.G. University	VLSI & Embedded Systems	12/04/2007	17 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
10	Neena K A	M. Tech	M.G. University	Communication Engineering	30/01/2006	18 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
11	Vinitha V	M. Tech	CUSAT	VLSI & Embedded	11/05/2007	18 Years	Lecturer	Assistant Professor		Regular		Yes	

				d2System s				(Senior Grade)					
12	Anoop E G	M.E	Karunya Universit y, Coimbat ore	VLSI Design	16/06/20 08	17 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
13	Subha Thomas	M.E	Anna Universit y	Applied Electronic s	10/07/20 08	15 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
14	Benoy Abraham	M. Tech	Satyabha ma Universit y	VLSI Design	02/07/20 09	16 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
15	Minu Kuriakose	M. Tech	Amrita Universit y, Coimbat ore	Computat ional Engineeri ng and Networki ng	03/07/20 09	16 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
16	Christy Jose	M. Tech	CUSAT	Digital Electronic s	07/09/20 09	13.5 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
17	Jilu George	M.E	Anna Universit y	Embedde d System Technolo	15/07/20 10	15 Years	Lecturer	Assistant Professor (Senior		Regular		Yes	

				gies				Grade)					
18	Aiswariya Raj	M. Tech	University of Kerala	Signal Processing	05/01/2011	14 Years	Assistant Professor	Assistant Professor (Senior Grade)		Regular		Yes	
19	Nisha R	M.E	Anna University	VLSI Design	18/01/2011	14 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
20	Dhanya S	M. Tech	MG University	Communication Engineering	05/07/2013	12 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
21	Basil K Jeemon	M. Tech	VIT University, Vellore	Communication Engineering	05/07/2013	12 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
22	Jeslin P Jo	M.E	Anna University	Applied Electronics	08/07/2013	12 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
23	Elza George	M. Tech	University of Kerala	Signal Processing	01/09/2014	11 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
24	Sreelekshmy S	M. Tech	Amrita Viswa Vidyapee	VLSI Design	01/09/2014	11 Years	Assistant Professor	Assistant Professor (Special		Regular		Yes	

			tham					Grade					
25	Bini V K	M. Tech	CUSAT	VLSI & Embedded Systems	08/07/2015	10 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
26	Leena Thomas	M.E	Anna University	Communication system	17/12/2019	6 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	

Faculty details (CAYm1 2024 - 2025)

S.N	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at the Time Joining this Institution	Present Designation	The date on which Designated as Professor/Associate Professor, if any	Nature of Association (Regular/Contract/Adhoc)	If contractual mention (Full time/Part time or hourly based)	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated is "No")
1	Dr. Jacob Thomas V	PhD	IIT, Madras	Biomedical	01/01/2024	1.10 Years	Professor	Professor, Principal	01/01/2024	Regular		Yes	
2	Dr. Mini P R	PhD	CUSAT	Digital Beamforming	02/09/2002	21.5 Years	Lecturer	Professor, Vice Principal	01/06/2018	Regular		Yes	

3	Dr. Krishna Kumar S	PhD	IIT Kharagpur	Digital VLSI Testing	29/07/2013	10 Years	Professor	Professor, HoD	29/07/2013	Regular		Yes	
4	Dr. Anil Kumar M N	PhD	University of Mysore	Cryptography	16/08/2010	13.5 Years	Assistant Professor (Senior Grade)	Professor	01/07/2019	Regular		Yes	
5	Ambili A R	M. Tech	IITM	Control and Instrumentation	01/02/2006	18 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
6	Deepa N R	M. Tech	M.G. University, Kottayam	VLSI and Embedded System	01/09/2006	17 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
7	Pearlsy P V	M. Tech	NIT, Calicut	Signal Processing	12/04/2007	16 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
8	Nimmy M Philip	M. Tech	M.G. University	VLSI & Embedded Systems	12/04/2007	16 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
9	Neena K A	M. Tech	M.G. University	Communication Engineering	30/01/2006	17 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	

10	Vinitha V	M .Tech	CUSAT	VLSI & Embedde d Systems	11/05/20 07	17 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
11	Anoop E G	M.E	Karuny a Univers ity, Coimba tore	VLSI Design	16/06/20 08	16 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
12	Dr. Bejoy Varghese	PhD	MG universi ty, Kottaya m	Image Compres sion	18/06/20 08	16 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
13	Subha Thomas	M.E	Anna Univers ity	Applied Electroni cs	10/07/20 08	14 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
14	Benoy Abraham	M. Tech	Satyabh ama Univers ity	VLSI Design	02/07/20 09	15 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
15	Minu Kuriakose	M. Tech	Amrita Univers ity, Coimba tore	Computa tional Engineeri ng and Networki ng	03/07/20 09	15 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	

16	Christy Jose	M. Tech	CUSAT	Digital Electronics	07/09/2009	12.5 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
17	Jilu George	M.E	Anna University	Embedded System Technologies	15/07/2010	14 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
18	Aiswariya Raj	M. Tech	University of Kerala	Signal Processing	05/01/2011	13 Years	Assistant Professor	Assistant Professor (Senior Grade)		Regular		Yes	
19	Dhanya S	M. Tech	MG University	Communication Engineering	05/07/2013	11 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
20	Basil K Jeemon	M. Tech	VIT University, Vellore	Communication Engineering	05/07/2013	11 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
21	Jeslin P Jo	M.E	Anna University	Applied Electronics	08/07/2013	11 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
22	Manju C P	M.E		Wireless Communication	17/02/2014	10 Years	Assistant Professor	Assistant Professor (Special		Regular		No	01/11/2024

								Grade)					
23	Sreelekshmy S	M. Tech	Amrita Viswa Vidyapeetham	VLSI Design	01/09/2014	10 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
24	Bini V K	M. Tech	CUSAT	VLSI & Embedded Systems	08/07/2015	9 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
25	Leena Thomas	M.E/M. Tech	Anna University	Communication system	17/12/2019	5 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	
26	Gayathri I K	M. Tech	MG University	Communication Engineering	06/08/2014	10 Years	Assistant Professor	Assistant Professor (Special Grade)		Regular		Yes	

Faculty details (CAYm2 2023 - 2024)

S.N	Name of the Faculty	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at the Time Joining this Institution	Present Designation	The date on which Designated as Professor /Associate	Nature of Association (Regular/ Contract/ Adhoc)	If contractual mention (Full time/Part time or	Currently Associated (Y/N)	Date of Leaving if any (In case Currently Associated)
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									Professor, if any		hourly based)		ted is “No”)
1	Dr. Mini P R	PhD	CUS AT	Digita l Beam formi ng	02/09 /2002	20.5 Years	Lecturer	Professor, Vice principal	01/06/2 018	Regular		Yes	
2	Dr. Krishna Kumar S	PhD	IIT Khara gpur	Digita l VLSI Testin g	29/07 /2013	9 Years	Professor	Professor, HoD	29/07/2 013	Regular		Yes	
3	Dr. Anil Kumar M N	PhD	Unive rsity of Myso re	Crypt ograp hy	16/08 /2010	12 .5 Years	Assistant Professor (Senior Grade)	Professor	01/07/2 019	Regular		Yes	
4	Ambili A R	M. Tech	IITM	Contr ol and Instru menta tion	01/02 /2006	17 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
5	Deepa N R	M. Tech	M.G. Unive rsity, Kotta yam	VLSI and Embe dded Syste m	01/09 /2006	16 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
6	Pearlsy	M.	NIT,	Signal	12/04	15	Lecturer	Assistant		Regular		Yes	

	P V	Tech	Calicut	Processing	/2007	Years		Professor (Senior Grade)					
7	Nimmy M Philip	M. Tech	M.G. University	VLSI & Embedded Systems	12/04 /2007	15 Years	Lecturer	Assistant Professor (Senior Grade)		Regular		Yes	
8	Neena K A	M. Tech	M.G. University	Communication Engineering	30/01 /2006	16 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	
9	Vinitha V	M .Tech	CUSAT	VLSI & Embedded Systems	11/05 /2007	16 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	
10	Anoop E G	M.E	Karunya University, Coimbatore	VLSI Design	16/06 /2008	15 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	
11	Dr. Bejoy Varghese	PhD	MG university, Kottayam	Image Compression	18/06 /2008	15 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	

12	Subha Thomas	M.E	Anna University	Applied Electronics	10/07/2008	13 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	
13	Benoy Abraham	M. Tech	Satyabham a University	VLSI Design	02/07/2009	14 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	
14	Minu Kuriakose	M. Tech	Amrita University, Coimbatore	Computational Engineering and Networking	03/07/2009	14 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	
15	Christy Jose	M. Tech	CUSAT	Digital Electronics	07/09/2009	11.5 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	
16	Jilu George	M.E	Anna University	Embedded System Techn	15/07/2010	13 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	

				ologies									
17	Aiswariya Raj	M. Tech	University of Kerala	Signal Processing	05/01/2011	12 Years	Assistant Professor	Assistant professor (Special Grade)		Regular		Yes	
18	Nisha R	M. E	Anna University	VLSI Design	18/01/2011	12 Years	Lecturer	Assistant professor (Special Grade)		Regular		Yes	
19	Dhanya S	M. Tech	MG University	Communication Engineering	05/07/2013	10 Years	Assistant Professor	Assistant professor		Regular		Yes	
20	Basil K Jeemon	M. Tech	VIT University, Vellore	Communication Engineering	05/07/2013	10 Years	Assistant Professor	Assistant Professor		Regular		Yes	
21	Jeslin P Jo	M.E	Anna University	Applied Electronics	08/07/2013	10 Years	Assistant Professor	Assistant professor		Regular		Yes	
22	Manju C P	M.E	PSG, Anna	Wireless	17/02/2014	9 Years	Assistant Professor	Assistant Professor		Regular		Yes	

			Unive rsity	Com munic ation									
23	Noble G	M. Tech	VIT	VLSI Desig n	07/08 /2014	9 Years	Assistant Professor	Assistant professor		Regular		Yes	
24	Elza George	M. Tech	Unive rsity of Keral a	Signal Proce ssing	01/09 /2014	9 Years	Assistant Professor	Assistant professor		Regular		Yes	
25	Leena Thomas	M.E /M. Tech	Anna Unive rsity	Com munic ation syste m	17/12 /2019	4 Years	Assistant Professor	Assistant professor		Regular		Yes	
26	Gayathri I K	M. Tech	MG Unive rsity	Com munic ation Engin eering	06/08 /2014	9 Years	Assistant Professor	Assistant professor		Regular		Yes	

- 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)).

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

Year	CAY	CAYm1	CAYm2
UG1. B // 2 nd year students of UG1 program	120	124	120
UG1. C // 3 rd year students of UG1 program	124	120	120
UG1. D // 4 th year students of UG1 program	120	120	120
UG1 // Total no.of students(2 nd , 3 rd , 4 th) in UG1 program	364	364	360
PG1. A // 1 st year students of PG1 program	12	12	12
PG1. B // 2 nd year students of PG1 program	12	12	12
PG1 // Total no.of students(1 st , 2 nd) in PG1 program	24	24	24
DS=Total no. of students in all UG and PG programs in the Department	388	388	384
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=388	S2=388	S3=384
DF=Total no. of faculty members in the Department	26	25	26
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)	26	25	26
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= 388/26 =14.92	SFR2=388/25 =15.52	SFR3=384/26 =14.76
Average SFR for 3 years	Average SFR=(SFR1+SFR2+SFR3)/3=15.06		

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	FQI= $2.5 * [(10X + 4Y)/RF]$
CAY	5	21	19	17.63
CAYm1	5	20	19	17.10
CAYm2	4	22	19	16.84

C4: Faculty Cadre Proportion

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

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

Year	Professors		Associate Professors		Assistant Professors	
	Required Faculty(RF1)	Available Faculty(AF1)	Required Faculty(RF2)	Available Faculty(AF2)	Required Faculty(RF3)	Available Faculty(AF3)
CAY	2	4	4	1	13	21
CAYm1	2	4	4	0	13	21
CAYm2	2	3	4	0	13	23
Average Numbers	RF1=2	AF1=3.66	RF2=4	AF2=0.33	RF3=13	AF3=21.66

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.

S.N.	Name of the Person	Designation & Organization	Name of the Course	No. of hours handled
CAYm1				
1	Nil			

..				
Total no. of hours:				
CAYm2				
1	Nil			
..				
Total no. of hours:				

CAYm3				
1	Nil			
..				
Total no. of hours:				

C6: Academic Research

Table No. C6.1: Faculty publication details.

S.N.	Item	CAYm1	CAYm2	CAYm3
1	No. of peer reviewed journal papers published	6	2	8
2	No. of peer reviewed conference papers published	6	4	5
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.

S.N.	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)
CAYm1							
1	Dhan ya S	Ambili A R	APJAKTU - Research section	Autonomous Search and Rescue Rover	CERD KTU funding	2024-2025	Rs.27,260/-

2	Noble G		APJAKTU - Research section	Configurable RISC-V Based Neural Network Accelerator Design for High-Performance AI Applications	APJAKTU - CERD Research Seed Money Scheme	3 Yrs. (11.07.2024)	Rs.82,500/-
Amount received (Rs.)							1,09,760/-
CAYm2							
1	Nil						
...							
Amount received (Rs.)							
CAYm3							
1	Ambil i A R	Dr. Krishna Kumar	APJAKTU - Research section	CERTED ETECTRON v2.0	KTU	1 year	Rs.32000/-
..							
Amount received (Rs.)							32,000
Total Amount (Lacs) Received for the Past 3 Years							141760/-

C8: Consultancy Work

Table No. C8.1: List of consultancy projects received from external agencies.

S.N.	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)
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CAYm1							
1	Nil						
..							
Amount received (Rs.)							
CAYm2							
1	Nil						
...							
Amount received (Rs.)							
CAYm3							
1	Nil						
..							
Amount received (Rs.)							
Total amount (Lacs) received for the past 3 years							

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.

S.N.	Faculty name	Project title/ Support for Activity	Duration	Amount (Lacs)	Amount Utilized (Lacs)	Outcomes of the project
CAYm1						
1	Nil					
..						
Amount received (Rs.)						
CAYm2						
1	Noble G	Development of hardware architectures for Artificial Intelligence (AI)	1.5 Years (March 2024)	0.6	0.6	Patent Published.
2	Ambili A R	Sign Lip Detection	1.5 Years (March 2024)	0.6	0.6	2 Papers Published and 1 Paper Accepted.
Amount received (Rs.)					1,20,000/-	
CAYm3						
1	Dr. Bejoy Varghese	MiKa- Assistive Humanoid Robot for KMRL	1 year	10.67,49	10.67,49	MiKa-Assistive Humanoid Robot was formally handed over to KMRL on 14th

						August 2023, with all project deliverables successfully met.
..						
Amount received (Rs.)					10,67,497/-	
Total amount (Lacs) received for the past 3 years					11.8749	

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.

S.N.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the major equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	Communication lab	3	- Digital storage oscilloscope 50MHZ - Function Generator 10MHZ - Antenna Trainer ST2261 - Power Supply 32V/2A - Multimeter R-603A - Microwave Test Bench MT-9000 - Inductance Box 100μH-10H - Satellite	Odd Semester S7 EC A & B - ECL411 Electromagnetics Lab (12hrs) S5 EI-AEL 331 Analog Integrated Circuits and Instrumentation Lab (6 hrs) Even Semester - S6 EC A & B - ECL332 Communication Lab (12hrs)	Sheela K George	Lab Instructor	Diploma in Power Electronics Engg

			communication Trainer ST-2271 • GUN DIODE • MT-9001 • Opto Electronics Apparatus • Fibre Optics Apparatus				
2.	Digital Logic System Design Lab	3	• Digital Trainer kit • IC Tester Analog (ST DIC 1C) • Digital Multimeter DG 350, HTC DM86 •	Odd Semester – S3 CSA,B,C,D PCCSL308 Digital Lab (24 hours) Even semester- S6 EC A ECD334 Mini Project (6hrs)	Bini T Abraham	Lab Instructor Gr. I	Diploma in Electronics & Communication Engg, BTech in Electronics & Communication MBA -HR
3.	Microprocessor Lab	3	• 8051 Microcontroller trainer kit (micro 51 LC LCD) • Interfacing cards (ADC,DAC, Stepper motor, keyboard & display) • Digital Signal Processing Kit (TMS 320 c 6748) • Digital Storage	Odd Semester – S5 EC A & B ECL333 Digital Signal Processing Lab (12hrs) Even Semester – S4 EC A & B PCECL408 Microcontroller Lab (12hrs)	Laly V V	Lab Instructor Gr. I	Diploma in Electronics Engg

			Oscilloscope 50 MHz • Multimeter (Metravi 702, Metravi XB33cf) • 20 Desktops				
4.	PG Lab	3	• 31 Desktops • Cadence university bundle-3 (10 licence)	Odd Semester – S3CS A, B, C, D PCCSL308 Digital Lab (24 hours) MTech VLSI-221 LEC003 Design Lab I (2 hrs) Even Semester - S8 EC A & B - EC492 Project (14 hrs)	Laly V V	Lab Instructor Gr. I	Diploma in Electronics Engg
5.	Project Lab 2	3	• 30 Desktop • MATLAB 2019a • Hack rf one(SDR platform) • Antenna (Telescopic ANT 500)	Odd Semester - S7 EC A & B -EC4151 Project Phase 1 (12hrs) S5EC A&B ECL331 Analog Integrated circuit &Simulation (12hrs) S3EC A&B PCECL 307 Analog Circuit Lab (3hrs) Even Semester – S8 EC A & B -	Sheela K George	Lab Instructor	Diploma in Power Electronics Engg

				ECD416 Project Phase II (18hrs) S6 EC A & B - ECL332 Communication Lab (12hrs)			
6.	Integrated Circuits Lab	3	• Digital Trainer kit (ST DIC IC) • IC Tester-Analog, Digital (ADIT-40) • Multimeter (Metravi 702) • Sp6-mini(LX9)	Odd Semester – S3 EI , S3 EC A & B - PCECL308 Logic Circuit Design Laboratory (18 hours) Even semester- S6 EC B - ECD334 Mini Project (6hrs)	Benny George	Trade Instructor Grd II	ITI Electronic Mechanic
7.	Electronic Circuit Lab	3	• Digital Storage Oscilloscope 50MHz • Function Generator 10 KHz • Ammeter 0-1A, 0-100 μA, 0-200 mA • Rheostat 1KΩ • LCR Meter • Power Supply 0-32V • Voltmeter 0-30V, 0-1V • Servo Stabiliser • IC Tester • Multimeter	Odd Semester - S3 EC A & B - PCECL307 Analog Circuits Lab (12hrs) Even Semester - S4 EC A & B - PCECL407- Linear Integrated Circuits Lab (12hrs) S4 EI - PCAEL407 - Analog Circuits and Simulation Lab (6hrs)	Shibu Ramakrishnan	Trade Instructor Grd I	ITI Electronic Mechanic

D2: `Safety Measures in Laboratories**Table No. D2.1:** List of various safety measures in laboratories.

S.N.	Name of the Laboratory	Safety measures
1.	Communication Lab	➤ Do's and don'ts and safety measures rules are displayed. ➤ Fire Extinguisher- ABC powder type 1kg. ➤ First aid box. ➤ An electric circuit breaker is provided in each work bench to provide protection against short circuits. ➤ To ensure safety, dress codes such as lab coats and shoes are made mandatory for all students. ➤ Proper ventilation. ➤ Public addressing system ➤ Safety manual is kept in the laboratory ➤ Video presentations on safety instructions, first aid kit and fire extinguisher
2.	Digital Logic System Design Lab	
3.	Microprocessor Lab	
4.	Systems Lab (Project Lab I)	
5.	Integrated Circuits Lab	
6.	Electronics Circuits Lab	
7.	PG Lab	
8.	CRISP Lab (Project Lab II)	

D3: Project Laboratory/ Research Laboratory**Table No. D3.1:** List of project laboratory/research laboratory /Centre of Excellence.

S.N.	Name of the Laboratory
1.	Centre for collaborative research in robotics and AI
2.	Project Lab I
3.	Research Centre
4.	FAB Lab

NATIONAL BOARD OF ACCREDITATION

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

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= $\frac{\text{No. of faculty members } ((NS1*0.8) + (NS2*0.2))}{\text{No. of required faculty (RF4)}}$; Percentage= $\frac{((NS1*0.8) + (NS2*0.2))}{RF4}$
CAY	720	36	17	92	88.88
CAYm1	720	36	17	98	92.22
CAYm2	720	36	18	93	91.66

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 2025-2026	Actual expenses in CFY (till Nov 2025)	Budgeted in 2024-2025	Actual Expenses in 2024-2025	Budgeted in 2023-2024	Actual Expenses in 2023-2024	Budgeted in 2022-2023	Actual Expenses in 2022-2023
Infrastructure Built-Up	16,24,07,000	3,43,84,331	7,34,74,000	7,74,05,469	5,61,00,000	3,81,42,590	3,35,33,000	5,25,07,211
Library	3,50,000	2,24,699	2,15,000	3,41,628	5,00,000	3,66,158	8,00,000	4,51,700
Laboratory equipment	36,00,600	3,65,780	25,98,445	12,41,980	36,90,920	9,80,521	29,93,500	15,31,317
Lab Consumables	39,16,192	5,25,776	14,53,280	5,20,668	10,79,200	5,27,618	14,52,440	5,45,049
Teaching and non-teaching staff salary	21,85,83,257	13,72,06,717	20,57,50,000	19,60,07,927	20,65,00,000	20,28,44,248	19,98,50,000	19,64,04,400
Outreach Programs	4,15,000	98,362	4,15,000	2,59,050	2,10,000	2,41,792	1,00,000	1,58,061

E3: Budget Allocation, Utilization, and Public Accounting at Program Specific Level**Table No. E3.1:** Budget and actual expenditure incurred at program level.

Items	Budget ed in CFY	Actual expense s in CFY (till ...)	Budget ed in CFYm1	Actual Expens es in CFYm1	Budget ed in CFYm2	Actual Expens es in CFYm2	Budget ed in CFYm3	Actual Expens es in CFYm3
Laboratory equipment	0	3,65,780	10,00,000	6,79,127	9,20,000	2,42,800	5,00,000	3,12,550
Lab Consumab les	4,00,000	61,185	3,00,000	1,28,774	50,000	16,664	46,000	24,115
Software	9,00,000.00	0	50,000	0	0	0	9,00,000	8,26,000
SDGs	2,50,000	1,43,008	1,00,000	1,94,879	4,00,000	2,43,747	54,000	2,88,379
Support for faculty developm ent	2,50,000	6,100	1,00,000	17,094	30,000	9,741	0	13,380
R & D	5,42,000	8,500	3,83,000	4,000	6,33,000	1,27,500	3,56,000	0
Industrial Training, Industry expert, Internship	1,50,000	93,000	50,000	1,60,666	8,00,000	0	25,000	0
Miscellane ous expenses *	6,00,000	41,890	14,50,000	30,114	1,00,000	18,526	0	19,352
Total amount	30,92,000	7,19,463	34,33,000	12,14,654	29,33,000	6,58,978	18,81,000	14,83,776