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 Instrumentation Engineering (EIE)

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 (with STD code)	: 0484 2725272

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

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

City : Thiruvanvanthapuram

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	Electronics and Instrumentation Engineering	NIL

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
1.	Electronics & Instrumentation Engineering	2002	60	YES	2023	F.No. South-West/1-44640188039/ 2025/EOA	Granted accreditation for 3 years for the period (2023 - 2026)	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.Anil Johny

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	CAYm 4 (LYG)	CAYm 5 (LYGm1)	CAYm 6 (LYGm2)
N= Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	30	30	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	60	60	60	30	30	17	34
N2= Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	0	2	0	2	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	6	9	0	1	0	0	0
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	66	69	62	31	32	17	34

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 1st year (as per AICTE/Competent authority)	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	60	60	60
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	6	9	0
Enrolment Ratio (ER)= (N1+N4)/N	ER1=1.1	ER2=1.15	ER_3=1
Average ER= (ER_1+ ER_2+ ER_3)/3	1.08		

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 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).	28	17	31
B=No. of students who graduated from the program in the stipulated course duration	16	13	22
Success Rate (SR)= (B/A)*100	57	76.5	71
Average SR of three batches ((SR_1+SR_2+ SR_3)/3)	68		

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 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)	7.66	6.82	7.67
Y= Total no. of successful students	46	27	25
Z = Total no. of students appeared in the examination	67	58	31
API = X* (Y/Z)	5.27	3.17	6.19
Average API = (API_1 + API_2 + API_3)/3	4.88		

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 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2rd year/10)	7.14	7.42	7.29
Y= Total no. of successful students	21	22	16
Z =Total no. of students appeared in the examination	60	31	29
API = X* (Y/Z)	2.5	5.26	4.02
Average API = (API_1 + API_2 + API_3)/3	3.93		

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 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)	7.38	7.45	7.67
Y= Total no. of successful students	21	16	13
Z= Total no. of students appeared in the examination	31	28	17
API = X* (Y/Z)	5	4.25	5.87
Average API = (API_1 + API_2 + API_3)/3	5.04		

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	32	60	60
X= No. of students placed	15	10	15
Y= No. of students admitted to higher studies	0	0	0
Z= No. of students taking up entrepreneurship	0	0	0
X + Y + Z =	15	10	15
Placement Index (P) = (((X + Y + Z)/FS) * 100)	46.88	16.67	25
Average placement index = (P_1 + P_2 + P_3)/3	29.52		

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

S.N.	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 ifany	Nature of Association (Regular/ Contract/ Ad hoc)	If contractual mention Fulltime or (Part time or hourly based)	Currently Associated(Y/N)	Date of Leaving if any
1	Dr. Abi P Mathew	AKBPA2364G	Ph.D	Annamalai University	Instrumentation & Image Processing	1/8/17	6 years	Associate Professor	HOD, Professor	1.10.2023	Regular		Y	
2	Dr. S Sundararajan	BWDPS1055H	Ph.D	CUSAT	Instrumentation	21/1/13	10 years 4 months	HOD, Assistant Professor	AP senior grade		Regular		Y	
3	Dr. Anil Johny	ALBPJ5600K	Ph.D	CUSAT	Image Processing	18/6/08	15 years	Lecturer	AP senior grade		Regular		Y	
4	Dr. Anish Mathew K	ASIPA7120P	Ph.D	NIT Calicut	Process Control	1/7/10	13 years	Lecturer	AP senior grade		Regular		Y	
5	Sreevidya P	BFNPP0116B	ME	Anna University	Control systems	16/4/07	14 years	Lecturer	AP senior grade		Regular		Y	

6	BeenuRiju	AOMPB2781B	ME	Anna University	Applied Electronics	12/9/07	15 years	Lecturer	AP senior grade		Regular		Y	
7	Anila Mathew	ASFPM9898M	M.Tech	NIT Calicut	Industrial Power & Automation	3/8/09	14 years	Lecturer	AP Special grade		Regular		Y	
8	Honey Devassy	BAXPD0499L	ME	Anna University	Applied Electronics	1/7/10	13 years	Lecturer	AP Special Grade		Regular		Y	
9	ShruthiBhaskaran M K	BNCPS3506F	ME	Anna University	Assistant Professor	1/7/10	13 years	Lecturer	AP Special Grade		Regular		Y	5-7-2024
10	Ambily John	AUXPA0313M	ME	Anna University	Embedded systems	1/7/10	13 years	Lecturer	AP Special Grade		Regular		Y	30–06–2025
11	Raji P	CEHPP7109C	M. Tech	Kerala university	Applied Electronics & Instrumentation	2/1/13	9 years 5 months	Assistant Professor	AP Special Grade		Regular		Y	
12	Sheffy Thomas	AHSPT7020N	ME	Anna University	Control & Instrumentation	15/7/13	10 years	Assistant Professor	AP Special Grade		Regular		Y	
13	Lakshmi Nandakumar	AGXPL1394F	M.Tech	CUSAT	VLSI & Embedded System	15/7/2013	10 years	Assistant Professor	AP Special Grade		Regular		Y	24-5-2024

- 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 // 2nd year students of UG1 program	60	62	30
UG1. C // 3rd year students of UG1 program	62	30	32
UG1. D // 4th year students of UG1 program	30	32	60
UG1 // Total no.of students(2nd, 3rd, 4th) in UG1 program	152	124	122
…			
UGn. B // 2nd year students of UGn program			
UGn. C // 3nd year students of UGn program			
UGn. D // 4th year students of UGn program			
UGn // Total no.of students(2nd, 3rd, 4th) in UGn program			
PG1. A // 1st year students of PG1 program			
PG1. B // 2nd year students of PG1 program			
PG1 // Total no.of students(1st, 2nd) in PG1 program			
…..			
PGm. A // 1st year students of PGm program			
PGm. B // 2nd year students of PGm program			
PGm // Total no.of students(1st, 2nd) in PGm program			
DS=Total no. of students in all UG and PG programs in the Department			
AS=Total no. of students of all UG and PG programs in allied departments			
S=Total no. of students in the Department (DS) and allied departments (AS)	S1=152	S2=124	S3=122
DF=Total no. of faculty members in the Department	10	10	12
AF= Total no. of faculty members in the allied Departments			

F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	10	10	12
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)	15.2	12.4	10.16
Average SFR for 3 years	12.58		

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	5	8	21.88
CAYm1	4	6	6	26.67
CAYm2	3	9	6	27.5
Average Assessment				25.34

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 Faculty(RF1)	Available Faculty(AF1)	Required Faculty(RF2)	Available Faculty(AF2)	Required Faculty(RF3)	Available Faculty(AF3)
CAY	1	1	2	2	5	7
CAYm1	1	1	1	0	4	9
CAYm2	1	0	1	1	4	11
Average Numbers	RF1=1	AF1=0.67	RF2=1.33	AF2=1	RF3=4.33	AF3=9

C5: Visiting/Adjunct Faculty/Professor of Practice: NIL

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

CAYm3				
1				
..				
			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	2	3	4
2	No. of peer reviewed conference papers published	2	0	4
3	No. of books/book chapters published	0	0	2

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							
..							
						Amount received (Rs.)	

CAYm2							
1							
…							
						Amount received (Rs.)	
CAYm3							
1	Mrs. Lakshmi Nandhakumar	Dr.Abi P Mathew	Electronics and Instrumentation	AQUA-Water Usage Monitoring device	Pheonix Contact, Germany	1 year	3.5 Lakhs
..							
						Amount received (Rs.)	
						Total Amount (Lacs) Received for the Past 3 Years	

C8: Consultancy Work: NIL

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)
CAYm1							
1							
..							
						Amount received (Rs.)	
CAYm2							
1							
…							
						Amount received (Rs.)	
CAYm3							
1							
..							
						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						
..						
Amount received (Rs.)						
CAYm2						
1	Lakshmi Nandakumar	AQUA- Water Usage Monitoring device	1 year	3,00,000/-	3,00,000/-	Winner EXPLORE 22-23, Project Competition
2	Raji P	Wearable tracking device for kids	18 months	0.25	25,000/-	Developed prototype of the product and submitted a conference paper
3	Dr. Anish Mathew	Generation of Electricity from solid waste material	1 year	0.15	15,000/-	Developed prototype
4	Dr. Abi P Mathew	Less water Urinal	1 year	0.25	25,000/-	Developed the prototype and published the Patent
Amount received (Rs.)						
CAYm3						
1						
..						
Amount received (Rs.)						
Total amount (Lacs) received for the past 3 years					3,65,000/-	

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.	Electronics Workshop	3	Cathode Ray Oscilloscope Function Generator Power Supply Multimeter	Odd Semester – S1ECA&B,CSA, B,C&D,EIE,EEE (2*8=16hrs/week) Evensemester–S2 MEA&B (2*2=4 hrs/week)	Unnikrishnan P.L	Lab Instructor (Grade III)	Diploma in Electronics and Instrumentation Engineering.

2	Transducers and Measurement Lab	4	DSO FG Power Supply Multimeter Strain Gauge Strain sensor Kit LVDT Kit Thermocouple Kit Optical sensors Kit Load cell Kit Digital Stroboscope Microprocessor trainer kit Microcontroller trainer kit Stepper motor Interfacing module ADC Interfacing Module DAC Interfacing Module	Odd Semester- S3EIE: Transducers & Measurements lab (2*3hrs/week) S5EIE:Analog Integrated Circuits & Instrumentation (2*3hrs/Sem) Even semester – S4EIE: Sensors & Transducer Lab (2*3 hrs/week) S6EIE: Mini Project (2*3hrs/Week) S8EIE-Project (15 hrs/week)	Gokul Varma M	Lab Instructor (Grade III)	Diploma in Electronics and Instrumentation Engineering.
3	Virtual Instrumentation Lab	1	MATLAB with Simulink Ctrl Design LabVIEW Software DAQ Hardware	Odd Semester – S5EIE:Embedded Systems Lab (2*3 hrs/week) S1ECA&B,CSA,B, C&D,EIE,EEE (2*8=16hrs/sem), S7EIE:Process Control Lab (3*6hrs=18hrs/sem) Even semester- S4EIE: Analog Circuits & Simulation Lab (2*3hrs/sem) S8 EIE Project	Gokul Varma M	Lab Instructor (Grade III)	Diploma in Electronics and Instrumentation Engineering
4	Process control Lab	3	Cathode Ray Oscilloscope Pressure station Thermal station	Odd Semester – S7EIE:Process Controllab (2*3hrs/week)	Gokul Varma M	Lab Instructor (Grade III)	Diploma in Electronics and Instrumentation Engineering

			Flow station Level Station PLC Bottle filling system Water level controller Speed control trainer module Process control Simulator Control Valve Characteristics Trainer I to P Converter P to I Converter Electronic PID controller Air compressor SCADA	Even semester – S8 EIE: Project (15 hrs/week) S6EIE: Mini Project (2*3hrs/Week)			

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.	Transducer& Measurement Lab	• Dos and don’ts and safety measures rules are displayed. • 1 kg ABC dry powder type fire extinguisher. • First aid box. • Electric circuit breaker is provided in each work benches to provide protection against short circuit. • To ensure safety, dress code such as lab coat and shoes is made mandatory for all students. • Proper ventilation
2	Process Control Lab	

		• Dos and don’ts and safety measures rules are displayed. • 2 kg ABC dry powder type fire extinguisher. • First aid box. • Electric circuit breaker is provided in each work benches to provide protection against short circuit. • To ensure safety, dress code such as lab coat and shoes is made mandatory for all students. • Proper ventilation.
3	Virtual Instrumentation Lab	• Dos and don’ts and safety measures rules are displayed. • 2kg CO2 type fire extinguisher. • A common electric circuit breaker is provided for personal computers. • Proper ventilation.
4	Electronic Workshop	• Dos and don’ts and safety measures rules are displayed. • 2 kg ABC dry powder type fire extinguisher. • 3. First aid box. • 4. Electric circuit breaker is provided in each work benches to provide protection against short circuit. • 5. To ensure safety, dress code such as lab coat and shoes is made mandatory for all students. • 6. Proper ventilation

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.	Project Lab
2.	Automation Lab

3	Fab Lab
4	IDEA 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= No. of faculty members ((NS1*0.8) +(NS2*0.2))/(No. of required faculty (RF4)); Percentage=((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
Laboratory 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
R&D	35,50,000	35,050	24,75,000	3,25,026	38,50,000	3,83,762	1,60,000	87,713
Training, Placement and Industry linkage	1,23,50,500	2,48,63,536	96,21,700	1,29,31,626	89,91,000	1,14,00,981	27,11,500	1,71,49,841
SDGs	46,46,000	9,35,135	33,84,275	12,55,598	34,18,300	14,79,963	26,53,400	17,30,906
Entrepreneurship	6,00,000	1,00,000	4,00,000	7670	0	12,000	2,50,000	30,000

Others*, pl. specify								
Software	47,12,000	7,32,941	19,99,000	7,32,941	10,15,580	3,13,644	22,39,500	12,09,860
Maintenance and spares	1,56,33,250	2,02,50,548	83,80,500	1,50,42,883	68,70,000	66,37,234	49,84,450	97,15,244
College Affiliation and other fees	17,25,000	16,54,585	16,00,000	9,59,595	40,00,000	81,90,702	62,00,000	67,78,459
Miscellaneous expenses	4,85,94,000	3,57,01,494	7,41,13,500	8,79,03,248	7,51,58,000	6,69,45,806	7,01,62,610	5,87,84,680
Total amount	**48,10,82,799**	**25,70,78,954**	**38,58,79,700**	**39,49,35,309**	**37,13,83,000**	**33,84,67,019**	**32,80,90,400**	**34,70,84,441**

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 2025-2026**	**Actual Expenses in 2025-2026 (till Nov 25)**	**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**
Laboratory equipment	50000	0	15,000	1,80,776	60,000	32,480	1,15,000	44070
Laboratory Consumables	25000	15,743	25,000	20599	50,000	12,839	50,000	8,114
Software	50,000	0	4,000	0	0	0	0	0
SDGs	1,15,000	57878	1,40,000	69,653	65000	68,429	45,000	68,782
Support for faculty Development	2,25,000	7,675	30,000	5,534	15,000	6,538	10,000	500
R & D	219000	70,000	57,000	10,000	62,000	45,000	59,000	2300
Industrial Training, Industry expert, Internship	1,00,000	29358	50,000	20,000	1,00,000	130840	15,000	2650
Miscellaneous expenses	0	45279	325000	58319	1,25,000	303990	20000	64242
Total amount	7,84,000	2,25,933	6,46,000	3,64,881	4,77,000	6,00,116	3,14,000	1,90,658