

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 : 1
Application No : 10460	Date of Submission : 04-04-2025

PART A- Profile of the Institute

A1.Name of the Institute : Alliance University	
Year of Establishment : 2010	Location of the Institute: BENGALURU
A2. Institute Address :CHIKKAHAGADE CROSS,CHANDAPURA-ANEKAL MAIN ROAD BENGALURU ,KARNATAKA -562106,	
City:Bangalore Urban	State:Karnataka
Pin Code:562106	Website:www.alliance.edu.in
Email:qa@alliance.edu.in	Phone No(with STD Code):080-46199100
A3. Name and Address of the Affiliating University (if any):	
Name of the University :	City: Bangalore Urban
State : Karnataka	Pin Code: 562106
A4. Type of the Institution : University	
A5. Ownership Status : Self financing	

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

- No. of UG programs: 1
- No. of PG programs: 1

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	Electronics & Communication Engineering	2012	--	Electronics and Communication Engineering
2	Management	PG	Master of Business Administration	2010	--	Management

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

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

Name of the Department	Having Allied Departments	Name of the Program	Program Level
Electronics and Communication Engineering	No	Electronics & Communication Engineering	UG

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

No Record

PART-B: Program information

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

Table No. B1: Program details.

A. List of the Programs Offered by the Department:

SR.NO.	PROGRAM NAME	PROGRAM APPLIED LEVEL	YEAR OF START / YEAR OF CLOSED	SANCTIONED INTAKE	INCREASE/DECREASE INTAKE (if any)	YEAR OF INCREASE/DECREASE	CURRENT INTAKE	YEAR OF AICTE APPROVAL	AICTE/COMPETENT AUTHORITY ARROVAL DETAILS	ACCREDITATION STATUS	FROM	TO	NO. OF TIMES PROGRAM ACCREDITED	PROGRAM DURATION
1	Electronics & Communication Engineering	UG	2012 / --	60	No	NA	60	2012	NA	Applying first time	--	--	0	4

List of the Allied Departments/Cluster and Programs:

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

A. Name of the HoD :	Dr. Gaurav Kumar
B. Nature of appointment:	Regular
C. Qualification:	ME/M. Tech and PhD

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)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)	2020-21 (CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
N=Sanctioned intake of the program (as per AICTE /Competent authority)	60	60	60	60	60	60	60
N1=Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	60	58	42	35	37	22	18
N2=Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	0	19	16	7	5	2	5
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	0	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.	60	77	58	42	42	24	23

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]
2024-25 (CAY)	60	0	0	100.00
2023-24 (CAYm1)	60	0	0	96.67
2022-23 (CAYm2)	60	0	0	70.00

Average [(ER1 + ER2 + ER3) / 3] = 88.89= 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	(2020-21) LYG	(2019-20) LYGm1	(2018-19) 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).	65.00	62.00	65.00
B=No. of students who graduated from the program in the stipulated course duration	26.00	15.00	16.00
Success Rate (SR)= (B/A) * 100	40.00	24.19	24.62

Average SR of three batches ((SR_1+ SR_2+ SR_3)/3): 29.60

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(2023-24)	CAYm2(2022-23)	CAYm3 (2021-22)
Mean of CGPA or mean percentage of all successful students(X)	6.40	5.95	5.01
Y=Total no. of successful students	54.00	42.00	34.00
Z=Total no. of students appeared in the examination	58.00	42.00	35.00
API [X*(Y/Z)]	5.96	5.95	4.87

Average API[(AP1+AP2+AP3)/3] : 5.59

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
X=(Mean of 2nd year grade point average of all successful students on a 10-point scale) or (Mean of the percentage of marks of all successful students in 2nd year/10)	6.68	6.35	5.71
Y=Total no. of successful students	60.00	43.00	38.00
Z=Total no. of students appeared in the examination	58.00	42.00	42.00
API [X * (Y/Z)]	6.91	6.50	5.17

Average API [(AP1 + AP2 + AP3)/3] : 6.19

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 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
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)	5.44	6.96	5.95
Y=Total no. of successful students	43.00	26.00	24.00
Z=Total no. of students appeared in the examination	43.00	38.00	25.00
API [X*(Y/Z)]:	5.44	4.76	5.71

Average API [(AP1 + AP2 + AP3)/3] : 5.30

B9. Placement, Higher Studies, and Entrepreneurship

Table No.B9.1: Placement, higher studies, and entrepreneurship details.

Item	LYG (2020-21)	LYGm1(2019-20)	LYGm2(2018-19)
FS*=Total no. of final year students	65.00	62.00	65.00
X=No. of students placed	19.00	23.00	51.00
Y=No. of students admitted to higher studies	5.00	5.00	10.00
Z= No. of students taking up entrepreneurship	0.00	0.00	0.00
Placement Index(P) = (((X + Y + Z)/FS) * 100):	36.92	45.16	93.85

PART C: Faculty Details in Department and Allied Departments

(Data to be filled in for the Department and Allied Departments)

C1. Faculty details of Department and Allied Departments

Table No.C1: Faculty details in the Department for the past 3 years including CAY

Sr.No	Name of the Faculty	PAN No.	Highest degree	University	Area of Specialization	Date of Joining in this Institution	Experience in years in current institute	Designation at Time Joining in this Institution	Present Designation	The date on which Designated as Professor/ Associate Professor if any	Nature of Association (Regular/ Contract/ Ad hoc)	Currently Associated (Y/N)	In case of NO, Date of Leaving	IS HOD?
1	Dr. Reeba Korah	XXXXXXXX74L	ME/M. Tech and PhD	Anna University, Chennai, TN	VLSI	23/06/2014	10.9	Professor	Professor	23/06/2014	Regular	Yes		No
2	Dr. Chitra Kiran.N	XXXXXXXX06N	ME/M. Tech and PhD	UVCE, Bangalore University, KA	Wireless Communication	10/07/2018	6.8	Professor	Professor	10/07/2018	Regular	Yes		No
3	Dr. T Sridhar	XXXXXXXX01K	ME/M. Tech and PhD	VTU, Belagavi, KA	VLSI	03/08/2015	9.8	Professor	Professor	03/08/2015	Regular	Yes		No
4	Dr. G Ramana Murthy	XXXXXXXX76K	ME/M. Tech and PhD	Multimedia University Malaysia	VLSI	16/08/2021	3.7	Professor	Professor	16/08/2021	Regular	Yes		No
5	Dr. Aby K Thomas	XXXXXXXX22P	ME/M. Tech and PhD	Satyabhama University, TN	Wireless Sensor Network	16/08/2021	3.7	Professor	Professor	16/08/2021	Regular	Yes		No
6	Dr. Sandeep Dhariwal	XXXXXXXX81H	ME/M. Tech and PhD	Banasthali University, RJ	VLSI	02/07/2018	6.8	Associate Professor	Professor	29/01/2024	Regular	Yes		No
7	Dr. Gaurav Kumar	XXXXXXXX78M	ME/M. Tech and PhD	IIT Roorkee	Seismic Signal Processing	15/07/2021	3.8	Associate Professor	Associate Professor	15/07/2021	Regular	Yes		Yes
8	Dr. Neelapala Anil Kumar	XXXXXXXX51R	ME/M. Tech and PhD	VTU, Belagavi, KA	Biomedical image Processing	23/06/2014	10.9	Assistant Professor	Assistant Professor		Regular	Yes		No
9	Dr. Itapu Srikanth	XXXXXXXX55J	ME/M. Tech and PhD	University of Toledo, USA	Nano electronics	01/09/2021	3.6	Assistant Professor	Assistant Professor		Regular	Yes		No
10	Dr. Inbarasan Muniraj	XXXXXXXX17R	ME/M. Tech and PhD	University College Dublin, Ireland (UCD)	Optical Devices	06/10/2022	2.1	Assistant Professor	Assistant Professor		Regular	No	03/12/2024	No
11	Dr. Amar Choudhary	XXXXXXXX77Q	ME/M. Tech and PhD	Amity University, Noida, UP	5G Communication	01/08/2023	1.7	Assistant Professor	Assistant Professor		Regular	Yes		No
12	Dr. Shashank Awasthi	XXXXXXXX18B	ME/M. Tech and PhD	NIT, Arunachal Pradesh	Optoelectronics	10/06/2024	0.9	Assistant Professor	Assistant Professor		Regular	Yes		No

13	Dr. Harinath Aireddy	XXXXXXXX42B	ME/M. Tech and PhD	IIT Kharagpur	Spintronics	05/03/2018	7	Assistant Professor	Associate Professor	11/10/2021	Regular	Yes		No
14	Dr. B. Priestly Shan	XXXXXXXX72H	ME/M. Tech and PhD	Anna University	Information and Communication Engineering	18/05/2023	1.10	Professor	Professor	18/05/2023	Regular	Yes		No

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

C2. Student-Faculty Ratio (SFR)

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

UG1=1st UG program

UGn=nth UG program

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

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

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

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

PG1=1st PG program.

PGm=mth PG program

A= No. of Students in PG 1st year

B= No. of Students in PG 2nd year

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

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

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

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

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

No. of UG Programs in the Department1 No. of PG Programs in the Department0

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

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
UG1.B	66	66	66
UG1.C	66	66	66
UG1.D	66	66	60
UG1: Electronics & Communication Engineering	198	198	192
DS=Total no. of students in all UG and PG programs in the Department	198	198	192
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= 198	S2= 198	S3= 192
DF=Total no. of faculty members in the Department	13	13	10
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= 13	F2= 13	F3= 10
FF=The faculty members in F who have a 100% teaching load in the first-year courses	1	1	0
Student Faculty Ratio (SFR)=S/(F-FF)	SFR1= 16.50	SFR2= 16.50	SFR3= 19.20
Average SFR for 3 years	SFR= 17.40		

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]]
2024-25(CAY)	13	0	9.00	36.11
2023-24(CAYm1)	12	1	9.00	34.44
2022-23(CAYm2)	9	1	9.00	26.11

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
2024-25	1.00	7.00	2.00	2.00	6.00	4.00
2023-24	1.00	6.00	2.00	3.00	6.00	4.00
2022-23	1.00	5.00	2.00	3.00	6.00	2.00
Average	RF1=1.00	AF1=6.00	RF2=2.00	AF2=2.67	RF2=6.00	AF2=3.33

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	Dr. Prachi Joshi	Visiting Faculty	NA	German	60.00
2	Prof. Suja Augustine	Visiting Faculty	New Baldwin International College Bangalore	Biology	60.00
3	Mr. Himanshu Garg	Visiting Faculty	Schneider Electric	Corporate Mentorship	60.00

(CAYm2)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Prof. Anik Nandi	Visiting Faculty	Woxsen University	Spanish	60.00
2	Prof. Sowmya Singh	Visiting Faculty	NA	German	60.00

(CAYm3)

S.No	Name of the Person	Designation	Organization	Name of the Course	No. of hours handled
1	Sreejith Krishnan	Visiting Faculty	Sony Indian Software Centre	Corporate Mentorship	60.00
2	Ranjit TP	Visiting Faculty	Volvo Group	Corporate Mentorship	60.00

C6. Academic Research

Table No. C6.1: Faculty publication details.

S.No.	Item	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
1	No. of peer reviewed journal papers published	30	21	6
2	No. of peer reviewed conference papers published	17	11	3
3	No. of books/book chapters published	13	4	6

C7. Sponsored Research Project

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

(CAYm1)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Inbarasan Muniraj		Electronics and Communication Engineering	Investigating the efficacy of deep learning networks for 3D imaging and processing	Anusandhan National Research Foundation, Science and Engineering SERB International Travel Support Scheme	1 Year	0.58
Dr. Reeba Korah	Dr. Gaurav Kumar	Electronics and Communication Engineering	"Fractional -order control strategy for quadcopter drone for safe landing during the complete loss of one or two propellers"	Universiti Teknologi petronas Malaysia	1 Year	3.50
Dr. Harinath Aireddy Dr. Harinath Aireddy		Electronics and Communication Engineering	Investigation of electric field controlled magnetization in ferromagnetic based field effect transistors for spintronic applications'	UGC-DAE CSR (Collaborative Research Scheme)	3 Years	2.40
						Amount received (Rs.):6.48

(CAYm2)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Inbarasan Muniraj		Electronics and Communication Engineering Electronics and Communication Engineering	"3D opto-computational bioimaging under low light condition using photon counting detecting"	Govt of India Ministry of science & Technology Department of Science & Technology	2 Years	6.20
						Amount received (Rs.):6.20

(CAYm3)

PI Name	Co-PI names if any	Name of the Dept., where project is sanctioned	Project Title*	Name of the Funding agency	Duration of the project	Amount(Lacs) i.e. 15,25,000=15.25
Dr. Harinath Aireddy		Electronics and Communication Engineering	Studies on selective laser melting of aluminium alloys for rapid prototyping of RF modules	DST-SERB TARE	3 Years	2.75
Dr. Reeba Korah		Electronics and Communication Engineering	Development of Very low power electronics device modeling and chip design center	Vision Group on Science and Technology	3 Years	40.00
						Amount received (Rs.):42.75

Total Amount (Lacs) Received for the Past 3 Years: 55.43

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)

(CAYm2)

(CAYm3)

Total amount (Lacs) received for the past 3 years:**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
Dr. Chandni Pathak	Unsymmetrical heterodinuclear metal complexes as structural and functional phosphatase models	3 Years	3.00	0.61	To develop metal complexes mimicking phosphatase functionality and structure.
Dr. Rashmi Sinha	Synthesis of ultrafine YAG:Ce phosphors and composites for WLEDs application	3 Years	3.00	0.18	To synthesize YAG:Ce phosphors for enhanced WLED performance.
Dr. Vineetha Sivakumar	Combating Trafficking in Persons: Assessing the Vulnerabilities and Risks	3 Years	3.00	0.00	To Analyze vulnerabilities and risks in human trafficking prevention
Dr. Vivekanand Mishra	Fabrication of Metal Semiconductor Oxide and Thermal Barrier Coating	3 Years	3.00	0.68	Developed Lanthanum Cerium Oxide nanoparticles for coatings and barriers
Dr. Syed Alay Hashim	Design, Fabrication, and Testing of Metalized Hybrid Propellant Ducted Rocket System	3 Years	3.00	0.00	To optimize metalized hybrid ducted rocket propulsion system
			Amount received (Rs.): 15.00		

(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
			Amount received (Rs.): 0		

(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
			Amount received (Rs.): 0		

Total amount (Lacs) received for the past 3 years : 15.00

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	Analog Electronic Circuits Lab	30	CRO,Function generator ,Power supply,Digital multimeter,LINEAR IC TESTER,DRB,DIB,DCB	4 Hours	Mr. Shiva Sankaran NMR.	Lab Instructor	Diploma
2	Basic Electrical and Electronics Lab	30	CRO,Signal Generator,Power Supply,Digital Voltmeter, Digital Ammeter, Digital Microammeter, Digital	30 Hours	Mr.Hanumath Hugar, Mr.!	Lab Instructor	B. E, Diploma, B. Tech , D
3	CMOS VLSI design Lab	30	Artix 7 FPGA kit, Vivado Design Suit	4 Hours	Ms. Neethu Vijayan	Lab Instructor	M.Tech
4	Communication Systems lab	30	Signal Generator, Digital Storage Oscilloscope, Amplitude Modulation & Demodulation KIT ,Frequency	4 Hours	Mr. Krishnamoorthy K J	Lab Instructor	Diploma
5	Digital Design with VHDL Lab	30	Digital ic Trainer kit, Digital IC TESTER	4 Hours	Mr. Shivasankaran N	Lab Instructor	Diploma
6	Digital Signal Processing Laboratory	30	DSP Starter Kit, 14 pin JTag Emulator	4 Hours	Mr.Sarath Krishnan U	Lab Instructor	B.Tech
7	Embedded System Design Lab	30	Microcontroller Board ,DC motor Interface, Motor, Keyboard /Display, Stepper Motor interface	4 Hours	Ms. Neethu Vijayan	Lab Instructor	M.Tech
8	Internet of Things Lab	30	lobit –IoT kit (MultiController – Multi Wireless Kit)	4 Hours	Mr.Sarath Krishnan U	Lab Instructor	B.Tech
9	RF Antenna and Design lab	30	klytstron power supply ,Gunn power supply ,VSWR meter ,Microwave source C- band ,OFC kit ,Microwave	4 Hours	Mr. Krishna Moorthy K J	Lab Instructor	Diploma

D2. Safety Measures in Laboratories

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

Sr. No	Laboratory Name	Safety Measures
1	Analog Electronic Circuits Lab	Fire Extinguisher, First Aid Box, Earthing, Sanitizer, Do's And Dont's.
2	Basic Electrical and Electronics Lab	Fire Extinguisher, First Aid Box, Earthing, Sanitizer, Do's And Dont's.

3	CMOS VLSI design Lab	Fire Extinguisher, First AID Box, UPS, Earthing, Firewall, Sanitizer, Do's And Dont's.
4	Communication Systems lab	Fire Extinguisher, First Aid Box, Earthing, Sanitizer, Do's And Dont's.
5	Digital Design with VHDL Lab	Fire Extinguisher, First AID Box, UPS, Earthing, Firewall, Sanitizer, Do's And Dont's.
6	Digital Signal Processing Laboratory	Fire Extinguisher, First AID Box, UPS, Earthing, Firewall, Sanitizer, Do's And Dont's.
7	Embedded System Design Lab	Fire Extinguisher, First AID Box, UPS, Earthing, Firewall, Sanitizer, Do's And Dont's.
8	Internet of Things Lab	Fire Extinguisher, First AID Box, UPS, Earthing, Firewall, Sanitizer, Do's And Dont's.
9	RF Antenna and Design lab	Fire Extinguisher, First Aid Box, Earthing, Sanitizer, Do's And Dont's.

D3. Project Laboratory/Research Laboratory

Table No.7.5.1: List of Project Laboratory/Research Laboratory/Centre of Excellence

S.No	Name of the Laboratory
1	Indigenous Processor Development (CoE)
2	Robotics (CoE)
3	Additive Manufacturing (CoE)
4	Center of Excellence - Makerspace
5	AU-Sophisticated Testing and Instrumentation Centre (ASTIC)

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
2022-23(CAYm2)	920	46	40	28	82
2023-24(CAYm1)	1280	64	50	45	77
2024-25(CAY)	1880	94	63	53	65

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 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	Budgeted in 2021-22	Actual Expenses in 2021-22 till
Infrastructure Built-Up	1300000000	1378650000	400000000	381609167	235000000	230896000	60000000	53981000
Library	70000000	64935000	55000000	54649000	31000000	30511000	20000000	18036000
Laboratory equipment	95000000	90009000	90000000	85235629	70000000	70061162	22500000	20432000
Teaching and non-teaching staff salary	1500000000	1369600000	1100000000	1027415504	800000000	735291000	650000000	608469500
Outreach Programs	22000000	20100000	20000000	19754000	15000000	14835000	10000000	9556000
R&D	75000000	70000000	60000000	60116700	55000000	55032000	40000000	37800000
Training, Placement and Industry linkage	62500000	60130000	52000000	51520000	47500000	45590000	30000000	29700000
SDGs	27500000	26870000	20000000	19678000	17500000	15600000	8000000	7600000
Entrepreneurship	25000000	26800000	22500000	22738000	20000000	20018000	9000000	8435000
Others, specify	1500000000	1498666000	1450000000	1437441000	800000000	775408838	500000000	451387500
Total	4677000000	4605760000	3269500000	3160157000	2091000000	1993243000	1349500000	1245397000

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 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	Budgeted in 2021-22	Actual Expenses in 2021-22 till
Laboratory equipment	2660000	2520252	2520000	2386597	160000	1961713	630000	572096
Software	665000	630063	630000	596650	490000	490428	157500	143024
SDGs	962500	940450	700000	688730	612500	546000	2800000	2660000

Support for faculty development	884000	884000	884000	884000	680000	680000	680000	680000
R & D	2625000	2450000	2100000	2104085	1925000	1926120	1400000	1323000
Industrial Training, Industry expert, Internship	2187500	2104550	1820000	1803200	1662500	1595650	1050000	1039500
Miscellaneous Expenses*	152516000	151672285	106346000	102142233	67470000	62563594	40282500	37171275
Total	162500000	161201600	115000000	110605495	73000000	69763505	47000000	43588895